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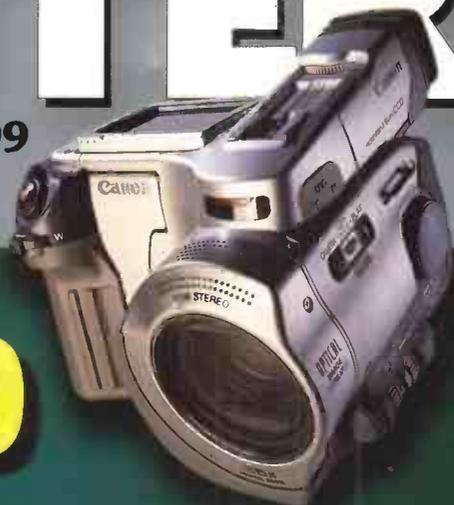
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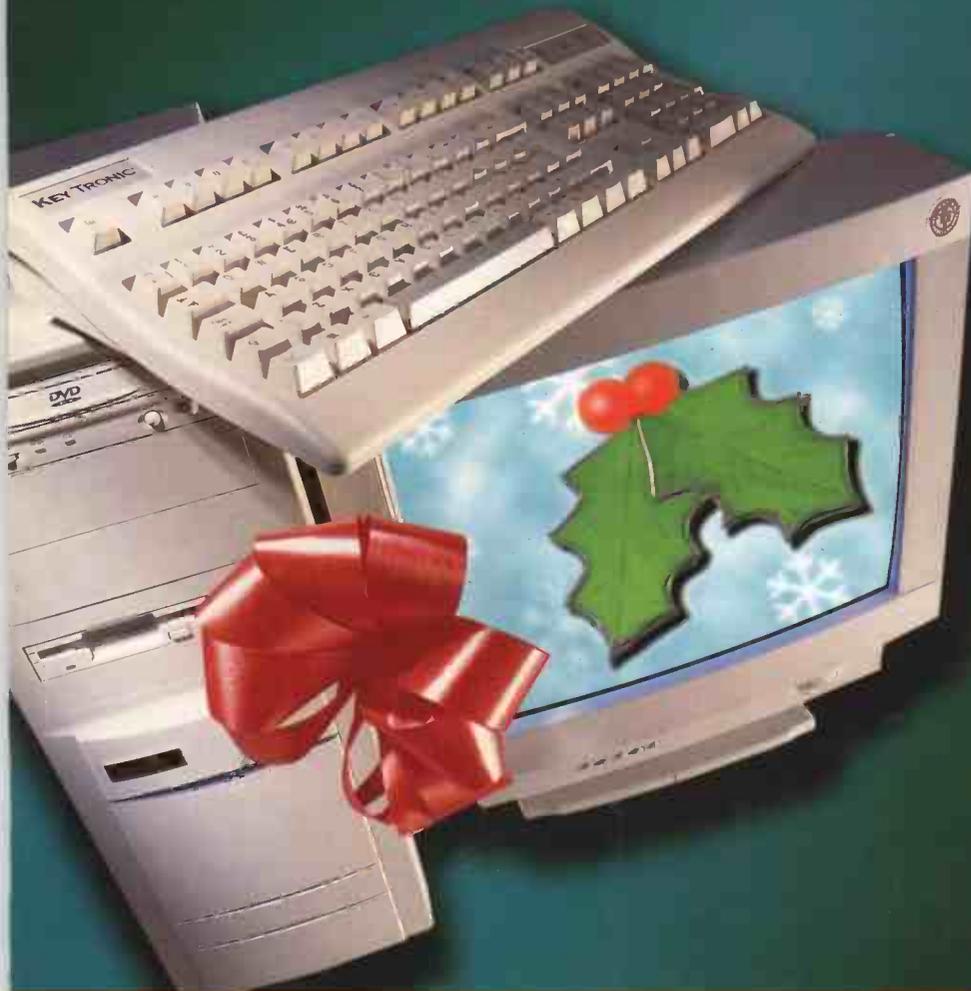
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01 >

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- Microsoft Office 97 Small Business Edition V2



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1 Source: PC Magazine Service and Reliability Survey 1998, Servers and Portables. 2 Source: Personal Computer Magazine Readers Award 1998 Best Telephone Support. 3 Source: Overall Winner PC Pro Reliability & Support 1998: Notebooks. \*Source: IDC

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### 184 Image editing

Top tips for better pics: fancy adding a moustache to Great Aunt Mildred's photo, or taking the red-eye off your seemingly demonic loved ones? Ken McMahon looks at ten of the best budget image editing packages, and in the complementary *Hands On Workshop* [p245], shows you how to use them.

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### 208 Digital video

If you're a budding Tarantino, we have the best in digital camcorders and video capture cards. If you're a movie buff, we have the lowdown on DVD and home cinema. And if you want to keep in touch, we have the latest in videoconferencing.

#### DVD

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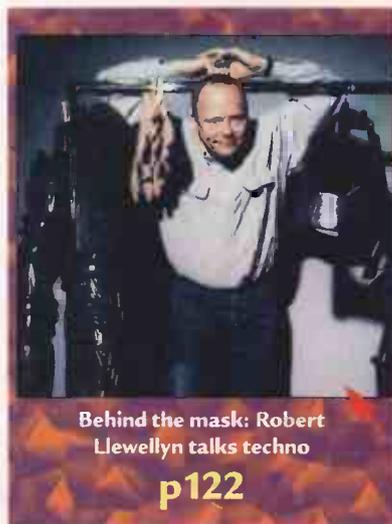
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Robert Llewellyn, the actor who plays Kryten in TV's *Red Dwarf*, tells Robert Juman Blincoe about his love of gadgets, his web site and his new book about a *PCW* reader.



Behind the mask: Robert Llewellyn talks techno

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### 128 Christmas team spirit

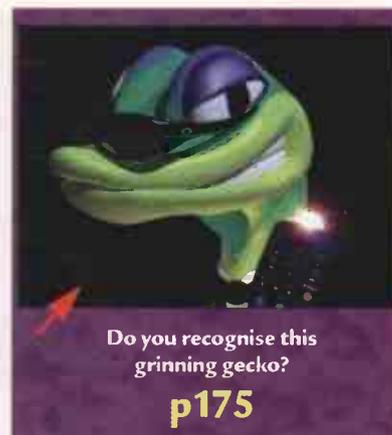
Everyone at *PCW* has a Christmas list as long as your arm, chock-a-block with state-of-the-art kit. Here are our stocking-filler suggestions for Santa.

### 166 European horizon

Sooner or later, trading in the euro is going to be an unavoidable reality. James Taylor looks at those accounting packages that are euro-ready and shows you how to prepare for monetary union.

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In the world of PCs, the future's bright, **the future's digital.**

## Definitely digital

**Computers may have calmly dealt with zeros and ones** for decades, but as far as the consumer electronics market is concerned, the late 90s have seen a digital feeding frenzy. Wherever you look there are digital cameras, digital camcorders, a host of digital audio formats, digital mobile phones, digital televisions, and who could forget digital versatile disc, DVD? It's undeniably an exciting time, not just for the promise of superior quality but also for the convergent possibilities. If your PC and digital camcorder talk the same digital language, then why not connect them directly to each other and be done with all those nasty analogue signals? In some cases, it really is almost as simple as that. Most digital camcorders are fitted with IEEE-1394 FireWire interfaces, and while not exactly widespread on PCs yet, you can buy suitable interface cards to exchange information. Early adopters of Digital Television may also find 1394 interfaces in the back of their set-top boxes, too.

**The greatest interest today** lies with digital video, whether captured with a camera, delivered on a disc or transmitted over the airwaves. We'll be taking a much closer look at Digital TV as soon as the cable companies get their act

together in the New Year, but in the meantime this issue contains our complete guide to digital video [p208]. We've looked at digital camcorders, digital (and analogue) video capture, video-conferencing cameras, all-in-one TV tuner cards, and a selection

If your PC and digital camcorder talk the same digital language, **THEN WHY NOT CONNECT THEM DIRECTLY TO EACH OTHER?**

of DVD-ROM drives, along with how to watch movies on your PC. It wouldn't, however, be PCW if we didn't have a PC group test, and this month we've got a system for everyone [p138]. In time for Christmas we've compared no less than 12 PCs: four budget models at £699, four mid-range systems at £999, and four high-end £1,499 PCs, ideal for power users or gamers alike. Equally irresistible is our group test of budget photo retouching packages under £100 [p184] — in fact, some are as cheap as £30! The harder-core of you will be pleased to find the first of a three-part *Hands On Workshop* on the increasingly popular Linux operating system [p242]. And anyone who deals with financial software will welcome our guide to the euro and its implications for your small business [p166].

**Finally, it may say January on the cover**, but you are without doubt reading our Christmas issue. Upholding a festive tradition, the PCW staff have written their Christmas wish lists to Santa [p128], which will be winging their way to the North Pole, or at least to the manufacturers who've produced the most desirable kit this year. And if the long winter nights are getting you down, then why not have a go at our 1998 PCW Christmas Quiz [p175] — no less than 50 festive (and, er, industry-based) questions await your perusal. The person with the most correct answers out of the sack when we get back to work will win a Canon digital camera, and the next 20 get a copy of Microsoft Encarta 1999. What more could you ask for? Merry Christmas and Happy New Year!

**Gordon Laing, Editor**

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# January COVER DISC

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We couldn't let a Christmas issue go by without including something for the season, so we've got an interactive Christmas Advent Calendar and some Christmas lights, too, to add a festive touch to your desktop.

There's fully-playable game action in the game-of-the-movie, The Fifth Element, in addition to cheeky action from the Robosaurs, as well as exclusive music and video in our Entertainment section.

## The Fifth Element

The Fifth Element recreates the atmosphere of Luc Besson's hit movie, with gameplay that is a balanced combination of skill, exploration and combat. Purchase the full version and you will have to make your way through 15 distinct 3D levels, using your agility to leap across precarious platforms, solve puzzles and kill the baddies.

The art team from the film have assisted in carrying over the film's sumptuous visual feel, and Luc Besson's original drawings and design sketches for the film were used to

### PCW DETAILS

**Operating system**

Windows 95/98

**Limitations**

Two-level demo.

**Sales contact**

Available from all good computer game outlets.

**Technical support**

0181 9449000 (9.30am-5.30pm)

[www.ubisoft.co.uk](http://www.ubisoft.co.uk)

maintain the colour and atmosphere of the original. The detailed 3D graphics will run on standard PC video cards but there is also a direct 3D



mode, and native support for Power VR and 3DFX based video cards.

The game also features 12 music themes. Eric Serra, composer of the original movie soundtrack (in addition to other films including The Big Blue, and Leon), wrote an additional track for the game. He also worked with the developer's musicians to recapture the musical atmosphere of the movie. Cinematic sequences, taken straight from the film, appear regularly, taking you into the Fifth Element universe with your favourite actors.

## Technical information to help you use the CD

### ✓ System Requirements

You will need a PC running Windows 3.1 or 95. The disc will run under NT but functionality may be reduced. Please check individual products for specific system requirements. For best results, run the CD on a Pentium PC with at least 16Mb of memory.

### ✓ How to use the CD-ROM

Put the disc into your CD drive. Windows 95 – The

PCW interactive loader will appear on your screen. If your CD doesn't autoloading, go to Start/Run and type <CD Drive>:\pcw.exe Windows 3.1 – From Windows Program Manager choose File/Run, then type <CD Drive>:\pcw.exe and press enter.

### ✓ Faulty Discs

If you get messages like "Cannot read from drive D:", or your drive continually scans the disc without

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### ✓ Technical Support

If you have technical problems with individual products, check in the magazine or on the CD, for the manufacturer's support contact details. For general problems with the CD, the Technical Helpline is open weekdays (10:30am-12:30pm and 1.30pm-4:30pm) on 01685 354726. A live technical info page is also available through CD Online, direct from the CD (see p19). And see

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"Faulty Discs" (above) for replacement disc information.

✓ Getting software onto the CD  
PCW is keen to promote quality software and would

like to hear from you if you are interested in having your product included on a future cover disc. Phone Afshan Nasim on 0171 316 9592 or email [afshan\\_nasim@vnu.co.uk](mailto:afshan_nasim@vnu.co.uk).

## Robosaurs versus the Space Bastards

• **Warning** — Please do not install and play this game if easily offended. It's a fun game but we would recommend that parental guidance be applied.

So what's it all about then? Well, a distant world and a powerful race of evil robots who are planning to enslave the known universe by landing on planets and shooting anyone who doesn't do what they're told. And then there are the four dedicated Robosaurs: Connery, Eastwood, Campbell and Van Damme. Hmm... now you know where *this* game is coming from!

Your enemies are the Space Bastards, and to kill them all, you may "...move

### PCW DETAILS

**Operating system**  
Windows 95/NT 4.0

**Limitations** Limited characters and levels.

**Sales contact**  
01634 226200

**Technical support**  
Tech Support  
01703 365071  
(9.30am-5.30pm)

crates, blow things up, leap off tall stuff, and slaughter innocent endangered species of alien life". Robosaurs has its tongue



firmly in its cheek and if you don't mind a few slightly rude Michael Caine sound-a-like samples, you'll love it.

The full product features different planets, with each one having ten levels to complete. Once you have completed

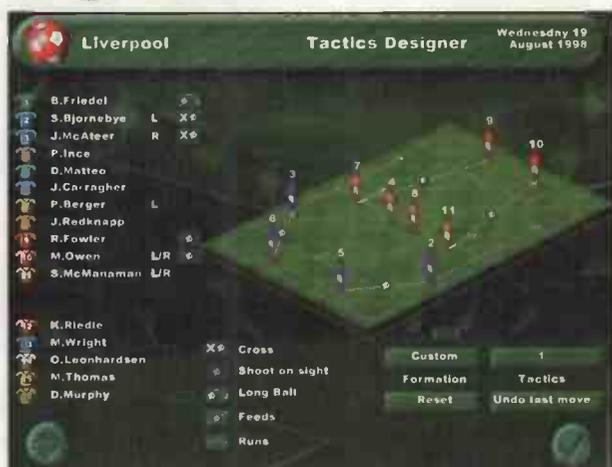
all the levels you will be immediately warped to a new planet.

The demo version, contained on the disc, allows you the choice of two Robosaurs, two planets, two sets of levels, and "training" mode.

## Player Manager

Player Manager — Season 98-99 is a football management game which puts you in control of teams from the top five European leagues. Money is plentiful: more than 80 percent of the top world-class players play in these five leagues and the financial rewards of success are enormous. But top clubs across Europe are bidding for these players in search of national and European trophies. So, as a

manager, you are under severe pressure to satisfy shareholders' expectations. The financial consequences of failure will be dire both for the clubs and the managers.



The game requires you to understand your individual players' skills and limitations and their role within the team. Buying the very best players

available doesn't guarantee success. To assist you, Player Manager provides a wealth of information and tools with which to assess your players, both on and off the pitch.

The full PC version includes more than 12,000 players, with 18 visible statistics such as passing, shooting, stamina and intelligence. There are 20 operational statistics such as fitness, fatigue, nervousness and hesitancy.

As the team's manager, it is up to you to

decide what actions your goalkeepers, defenders, midfielders and forwards will take during the game.

### PCW DETAILS

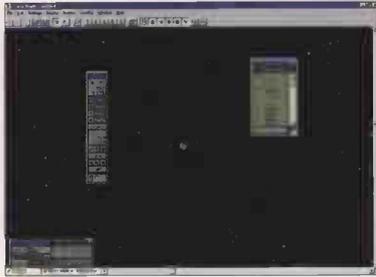
**Operating system**  
Windows 95

**Limitations** Not all features are available or fully functional.

**Sales contact**  
01252 795302

**Technical support**  
support@anco.co.uk  
(9.30am-5.30pm)

## Starry Night Basic



• Before installing, please note this product requires Quicktime 3 to be installed. This is not available on the disc.

The full product of Starry Night lets you "view" the night sky from any place on Earth or in the Solar System, at any time in the past or in the future. It is used around the world by parents, educators and amateur astronomers as well as those just beginning to discover the wonders of astronomy. At the Starry Night website ([www.siennasoft.com](http://www.siennasoft.com)), you can view a reconstruction (which was created using the package) of how the sky looked to passengers of the SS Titanic, five minutes before the ship foundered.

Great fun and educational, too, this is a totally fascinating piece of software. Using other features you can:

- Place yourself from your own backyard to anywhere on earth and experience an accurate recreation of the sky at that place.
- Time travel from 4713BC to 9999AD.
- View constellations.
- Use the magnifier to zoom in on planets, stars and moon, with amazing clarity of graphics.
- Connect to [www.LiveSky.com](http://www.LiveSky.com), for more information about what you are viewing.
- Blast off from the earth or create star charts for your next trip.
- See what the night sky looked like on your birthday.

Starry Night Basic is limited to views from the Earth only and has been designed for those who have a developing interest in astronomy.

### PCW DETAILS

**Platform**  
Windows 95/NT 4.0  
**Limitations**  
Ten-day trial, with views from Earth only.  
**Sales contact**  
[orders@siennasoft.com](mailto:orders@siennasoft.com)  
**Technical support**  
[support@siennasoft.com](mailto:support@siennasoft.com)

## Christmas Magic

Because it's that time of year, and we'd like to get into the festive spirit, here's one for the children and others still young at heart: a demo of Christmas Magic, an interactive Advent Calendar from Jellyfish Software.

This demo of Christmas Magic gives you a different window for



the first five days of December, which open onto lavish animations relating the history and customs of Christmas around the world. These have been written by a recognised expert and author on Christmas traditions and are supplemented with Christmas-orientated fun and games – the full version offers the whole month, of course. Children will enjoy the traditional excitement of seeing what each new day has in store.

### PCW DETAILS

**Operating system**  
Windows 95 and NT  
**Limitations**  
First five days only.  
**Sales contact**  
01625 539494  
**Technical support**  
0161 4773773 (9am-6pm) [support@jellyfish.com](mailto:support@jellyfish.com)

## Xara WebStyle



Xara WebStyle lets you create top-quality, custom-designed, web-optimised graphics: buttons, bullets, dividers, 2D and 3D headings and backgrounds of any colour, with any text. Its aim is to make the creation of professional

web graphics quick and easy for all. Using vector graphics, high-quality on-screen appearance and design can be achieved. Graphics are generated by modifying the extensive, professionally designed, WebStyle template graphics. As these templates are vector files, they can be scaled, re-coloured and your own text applied, without loss of quality. Xara's technology means that rendering is fast and output is anti-aliased and dithered for the sharpest possible on-screen result. Xara WebStyle can be used for all web graphics. An unlock code for the trial version can be bought over the net for around £49. If you press the "Purchase" button that appears when the Xara WebStyle trial starts, you will be connected to a secure purchase site. A CD with a backup copy of WebStyle and the complete set of graphics templates is sent to all those who purchase an unlock code online. The normal retail (non-internet purchase) price is £60 (ex VAT).

### PCW DETAILS

**Platform**  
Windows 95/98 or NT 4  
**Limitations**  
15-day trial  
**Sales contact**  
01442 350000  
[sale@xara.com](mailto:sale@xara.com)  
**Technical support**  
[technical@xara.com](mailto:technical@xara.com)  
[www.xara.com/support](http://www.xara.com/support)

## Hip Hop eJay

• Please ensure that the CD-ROM is in the drive when using this software.

The full version of Hip Hop eJay includes more than 1,300 original hip hop samples, all recorded by professionals for eJay's fully-fledged

8-track recording studio. By dragging and dropping selections of these samples onto eJay's innovative user interface, you can instantly hear how kickin' your mix is going to sound – and it really is surprising how good that can be! After you have laid down the basic tracks, you can add your own raps using the built-in recording studio, or scratch to your mix using eJay's unique turntable device. And, when it's complete and you are happy with the overall sound, you can record it for posterity. Take some time out though, this application is addictive!



### PCW DETAILS

**Platform**  
Windows 95/NT 4.0  
**Limitations**  
Limited samples and functionality.  
**Sales contact**  
01923 495496  
**Technical support**  
01923 495496 (9am-5.30pm)

## Software Library

Unless otherwise stated, new versions of featured software are not upgrades but standalone installations. If you wish to install the latest version of a product, please ensure that you first uninstall/remove the older one.

### OS/2 Warp Fix Pak #8 for Warp 4.0

This can be found in the directory <CD drive>:\handson\os2\fixpack8. Please read the how2fix.txt file for important pre-installation data. More information can be found in the *Hands On OS/2* column (p272).

### Essential Utilities

#### • Adobe Acrobat Reader 3.01 + Search

(Win3.1/95/NT) This lets you view, navigate, and print PDF files across all major computing platforms. (Fully-functioning reader.)

#### • DirectX 6

(Windows 95) Latest set of essential video and audio drivers that are required to run some of today's processor-hungry games and applications. (Fully-functioning drivers.)

#### • New

#### MacSEE

(Win3.1/95/NT) MacSEE allows simple, fast, transfer of files between a Macintosh and a PC-compatible system by reading and writing directly to and from Macintosh disks on

your PC.

(Limited demo)

#### • Netscape Communicator 4.5 (Standard)

(Windows 95) Latest version of the premier internet suite, including Netscape Navigator.

(Free version)

#### • Paint Shop Pro 5.0

(Windows 95)

This is the latest version of this popular graphics

to-use yet powerful software photocopy solution. Containing more functions than most Photocopiers, SoftCopier will revolutionise the way you copy documents.

(Time limited demo)

#### • UBE 98 1.8

(Windows 98)

UBE 98 is a security program which can encrypt your work in hand. It also has the ability to create encrypted self-extracting .exe files for distribution to others. The program uses 2,048-bit encryption technology.

(Shareware)

disk Zip files.

(21-day evaluation version).

### New Software This Month

#### • Business

(Windows 95 and NT)

Business is a multi-user PC software package for small companies but will scale up to hundreds of users if required.

It integrates the sales, service, human resources and accounting functions with email, fax and telephone functions. Business is written in Microsoft Access

(Limited demo)



editor, with powerful new features such as complete layer support, picture tube brushes, CMYK separations and pressure-sensitive tablet support. Also includes enhancements to Paint Shop Pro's flexible painting and retouching brushes, adjustable cropping and selection tools, and image enhancements.

#### • SoftCopier 3.4.2.2c

(Windows 95/NT) SoftCopier, used in conjunction with a scanner, is a simple-

#### • New

#### Winarj 95/98

This is a 3-bit Windows shell for ARJ Archive Software, written for Windows 95/98 and supports long filenames. (Time limited demo).

#### • New

#### WinZip 7.0

(Windows 95/NT) Industry-standard compression/decompression utility for Windows 95 and NT with automatic built-in disk-spanning support for multi-

#### • Holiday Lights

(Windows 95/NT)

Holiday Lights places rows of festive light bulbs around the edges of your screen. It plays cheery music and includes a screensaver.

(Shareware)

#### • K-Chess Elite

(Windows 3.1/95)

An educational chess program which is simple-to-use, informative and plays a good game. K-Chess Elite is highly customisable and you can change

## PhotoDisc



PhotoDisc offers a unique internet photo-library service, and on this month's CD we offer a preview of their collection. In addition to the ten images on this disc, PhotoDisc offers access to 74,990 other stunning images direct from the web. From the PhotoDisc website at [www.photodisc.com/uk](http://www.photodisc.com/uk), you can search, select, purchase and download the entire collection of 75,000 images. The images on offer are of the highest standard and this has led to PhotoDisc becoming one of the world's leading sources for royalty-free innovative, diverse, and compelling images.

If you need an image quickly and easily, visit the site direct from our PCW CD by going to the CD Content Links section of CD OnLine (see p19) accessible from the front screen.

dozens of the options which control the game's operation.

(Shareware)

#### • Shailoo

(Windows 95/98)

Shailoo has massive four-way scrolling screens packed with monsters, deadly fungus, firestones and some brain-bending puzzles.

(Limited demo)

#### • Tracking Santa

(Windows 3.1/95/NT)

Santa's sleigh is not big enough to hold all the toys for his trip around the world so he periodically returns to the North Pole for re-supply. The elves used to have a problem with this: they didn't know where he was, or

when he was coming. Their solution is this Tracking Santa program. Now they always know where Santa is, how many homes he has visited and when he is heading back for another load.

(Shareware)

#### • Wall Street Raider

(DOS)

This corporate takeover game simulates a real-time stock market, with constantly moving ticker and financial news headlines as you attempt to react to the ever-changing economic model. One to four players, or play against computer.

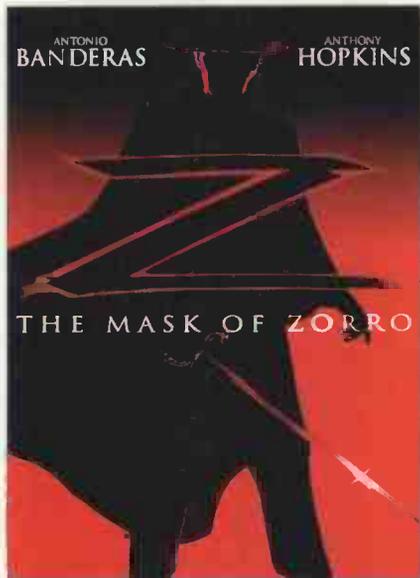
(Shareware)

CD-ROM

HELPLINE

01685 354726

## ICV Entertainment Section



This month's ICV Entertainment Section is packed full of video and music. There's an exclusive opportunity to see the film trailer for "The Mask Of Zorro" and videos from four of today's top artists.

### The Mask of Zorro

Antonio Banderas dons a mask and swishes his way into history as the latest actor to play Zorro and you can see the trailer for this great new action adventure film right here. Twenty years after the original retired his black sash, the adversary who robbed Zorro of his fortune returns to terrorise the Mexican countryside. Banderas is the mysterious drifter who accepts his fate to renew the

legend. Also starring are Anthony Hopkins and Catherine Zeta Jones in her first major Hollywood role.



### Music Videos

Four great videos from current chart-topping bands. Audioweb can be seen and heard performing "Get Out Of Here". Ian Brown, legendary former member of the Stone Roses, is also here with his new single "My Star". Ian has just completed a UK tour with Audioweb playing support. Other hit videos come from Fastball and The Cardigans. What a line-up!

## CompuServe trial

With one of the UK's leading online Internet Service Providers you can now enjoy *free* unlimited internet access for a month. The free online time is available during the first month only. Sign up today and discover how much more there is to the internet, with CompuServe. (For general support, phone 0990 000 400).

### Join CompuServe and claim a free software gift, worth £49.99

Simply load the CD-ROM found on the front cover of this issue of *Personal Computer World*.

You can enjoy one month's free membership including:-

- FREE Unlimited access for 1 month\*
- FREE Online tour of CompuServe
- FREE Email address
- FREE SMB web space

CompuServe is the UK's most exciting Online Internet Service offering fast and easy access to the internet and its own exclusive online services. CompuServe organises the internet into easy-to-use categories so that you can find what you want at the touch of a button. Go shopping, book holidays and flights, find out about the latest films, keep up-to-date with news as it happens, or simply keep in touch with family and friends around the world with CompuServe email.

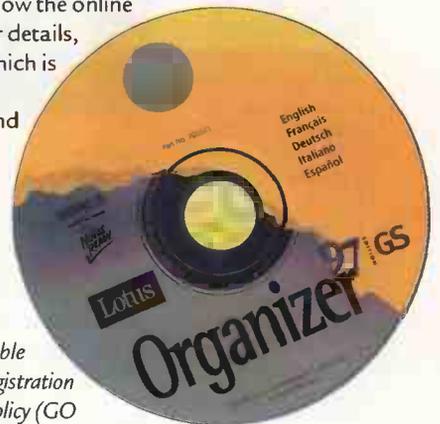
### Free Gift

Once you have signed up to CompuServe you are entitled to claim as your free gift a Lotus Organizer 97, the world's most popular time management software. It integrates Calendar, To-

Do List, Address Book, Call Manager, Planner, Anniversary Reminder and Notepad in one easy-to-use electronic book. How to claim your free gift — "Lotus Organizer 97" online.

**Sign up to CompuServe** using the CD-ROM on the front cover, simply click on the GO button at the top of the toolbar and type LOTUSORG. Follow the online instructions and fill in your details, including the offer code which is located on the back of the CompuServe CD wallet, and your member ID.

This offer applies to *Personal Computer World* readers resident in the UK or Northern Ireland. Offer ends 1st January 1999.



\* The free online time is available during the first month after registration only, subject to our Fair Use Policy (GO UKFAIRUSE). You must be 18 or over to register for CompuServe membership. Premium Services (these are clearly marked) carry a surcharge and are excluded from the free online time. After your free trial, your membership will continue and payments will be charged automatically when they are due, unless you decide to cancel your membership.

 **CompuServe.**

**VNUNET** [www.vnUNET.CO.UK](http://www.vnUNET.CO.UK)

Vnnet.com offers speed of delivery, accuracy and breadth of coverage from five market-leading weekly newspapers: *Computing*, *Accountancy Age*, *PC Dealer*, *Network News* and *PC Week*, generating up to 50 stories every day of the working week. With correspondents in Europe, the US and Asia contributing daily to the VNU Newswire, a round-the-clock news service is available exclusively at vnnet.com. More detailed information is available in a wealth of in-depth articles, covering news analysis and product reviews, from VNU's stable of monthly publications, including such titles as *Personal Computer World* and *Management Consultancy*, plus some of the best editorial material from VNU's portfolio of 15 business and consumer titles.

**JOBWORLD** [www.jobworld.co.uk](http://www.jobworld.co.uk)

Jobworld.co.uk is a free service which provides you with access to thousands of new IT, business and finance vacancies every day. All you have to do is browse the site by job sector or search on a specific set of job skills or requirements.



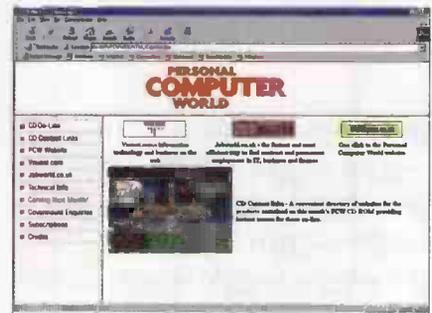
The Jobworld Email Alert service offers extra freedom by sending only details that match the job seeker's preferences, allowing the recipient to control exactly what information is sent and when.

Jobworld also offers links to job sites overseas, a guide to IT contracting and comprehensive lists of jobs from the top recruitment agencies in the UK.

**PCW CD OnLine**

## Access the internet direct from the opening screen!

Want to find out more about any of the software products contained on this month's disc? Are you connected to the internet? Well, you can visit the software manufacturers' web sites via the Content Links of the CD-Online section. Simply click on the web link banner at the top of the main screen to run your browser and access PCW CD-Online direct from the disc. CD-Online gives you access to the *Personal Computer World* web site, Vnnet.com and to Jobworld.co.uk. And, if you are interested in any particular product or section on the CD, the Content Links



Section gives you direct access to the latest information at the live company web sites. You will also find live, up-to-date technical information about the CD and there's even a preview of what will be on next month's disc! And, if you've enjoyed the magazine and the CD, you will even be able to subscribe via email while you're online!

**Virgin Net Offer**

Virgin Net is the award-winning online service from the Virgin group. It's easy to use, help is available 24-hours a day and best of all your first month is free. We even throw in 10Mb of webspace and five email addresses so that you can really get the most out of the internet.

After your first month's free service, Virgin Net costs only £11.99 per month (incl. VAT) for unlimited access.

**PCW DETAILS**

**Platform**  
Windows 3.1/95  
**Limitations**  
One month's free membership.  
**Sales contact**  
0500 558800  
**Technical support**  
0845 6500000

**AOL Offer**

Easy-to-use internet online service free this month with 50 hours' online time! AOL



channels cover everything from the latest news and sports to travel and entertainment. Net access is easy; go direct to web pages from your AOL menu bar. AOL offers 33.6K access speeds and has Explorer 3.0 integrated as its main browser. Remember, 350,000 UK subscribers can't be wrong!

- 50 hours online
- One month's AOL membership
- Five email addresses per account
- Free technical support
- 10Mb of web space
- 100 percent local call access

**PCW DETAILS**

**Platform**  
Windows 95 and 3.1  
**Limitations**  
One month's free membership  
**Sales contact**  
0800 3765432  
**Technical support**  
0800 2797444

**ClaraNet Offer**

ClaraNet offers a full range of packages to suit all budgets. All accounts include free 24-hour tech support, 100 percent UK local call access, no connection or startup fee and free technical help to set up your web pages. All accounts have free access to a dedicated online games server. All calls are at local rate, including the online registration process.

- Choice of connection packages from £3.99(ex VAT) per month
- Free; three hours online per month\*
- Free; up to 25Mb webspace\*
- Unlimited email addresses\*

\*Subject to package

**PCW DETAILS**

**Platform**  
Windows 3.1/95  
**Limitations**  
One month free membership.  
**Sales contact**  
0845 355 1000  
**Technical support**  
0845 3553000

CD-ROM

HELPLINE

01685 354726

PROCESSING INFORMATION



[WHAT YOU HAVE]



[WHAT YOU WANT]

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Information, the way you want it.™

# PCW Cover Disc Questionnaire

Now that you've seen what's on this month's PCW CD, it's your turn to tell us what you'd like to see in the future. Please spend a few moments filling out this questionnaire, and remember — the more help you give us, the more we are able to deliver the product you want! If you don't want to cut this questionnaire out of the magazine, just photocopy it and send it to the FREEPOST address at the foot of this survey — no stamp required.

**1. Please indicate how free software, cover-mounted on the front of our magazine, influences your purchase decision of PC magazines (the scale ranges from strongly DISAGREE ①, to strongly AGREE ⑤).**

I am more interested in the content of the magazine than the free software	①	②	③	④	⑤
I would buy a magazine that I didn't necessarily want to buy if it had software that interested me	①	②	③	④	⑤
I look at all the free software before deciding which publication to buy	①	②	③	④	⑤
I always buy the same publications regardless of the free software	①	②	③	④	⑤
I choose the magazine with the highest-value software	①	②	③	④	⑤

**2. ① What type of software are you most interested in? (choose one only).  
② What other piece of software are you interested in? (choose one only).**

Office (word processor, spreadsheets)	①	②	Schedule and contact management	①	②
Programming languages	①	②	PDA software	①	②
Operating systems	①	②	Strategy games	①	②
Accounting and finance	①	②	Simulator games	①	②
Desktop and web publishing	①	②	Arcade games	①	②
Photo and drawing	①	②	Home improvement (DIY, gardening)	①	②
Music, audio and MIDI	①	②	Reference (encyclopaedias, dictionaries, maps)	①	②
Maintenance and anti-virus utilities	①	②	Tutorials and training	①	②
Web and internet utilities	①	②	Children's stories	①	②

**3. Which format of software do you prefer to receive (please tick):**

Full working versions of recent programs	<input type="checkbox"/>	Free internet access trials	<input type="checkbox"/>
Full working versions of older programs	<input type="checkbox"/>	Drivers, updates and large downloads...	<input type="checkbox"/>
"Time-bombed" trial versions	<input type="checkbox"/>	...if "yes" to drivers or updates, please tell us which are the most useful _____	
Limited functionality demonstration software	<input type="checkbox"/>		

**4. Have you ever bought the full version of a software package after trialling the demo version from a magazine?**

If so, please tell us which software \_\_\_\_\_

**5. What other types of free gift or offer would motivate you to purchase the magazine on which they appear?**

	Yes	No
Booklets or supplements	<input type="checkbox"/>	<input type="checkbox"/>
Price reduction of the magazine	<input type="checkbox"/>	<input type="checkbox"/>
Internet trial discs	<input type="checkbox"/>	<input type="checkbox"/>
Show tickets (Windows/Networks/Live 98 etc)	<input type="checkbox"/>	<input type="checkbox"/>
Mouse mats	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>
(please specify) _____		

**6. If you could name just one piece of software to go on the PCW CD, what would it be?**

(please specify) \_\_\_\_\_

Once you have completed this questionnaire, please return it to: Katy Lefevre, PCW Software Questionnaire, Freepost 25, 32-34 Broadwick Street, London W1E 6EZ. REMEMBER — YOU DO NOT NEED A STAMP!

# Which is the best computer value-for-money or one with

# With Dan

Dan Technology has enjoyed enormous success in polls conducted by the nation's leading computer magazines. In recent years, we've consistently won top honours from the readers of PC Direct, PC Magazine, PCW, What PC? & PC Pro.

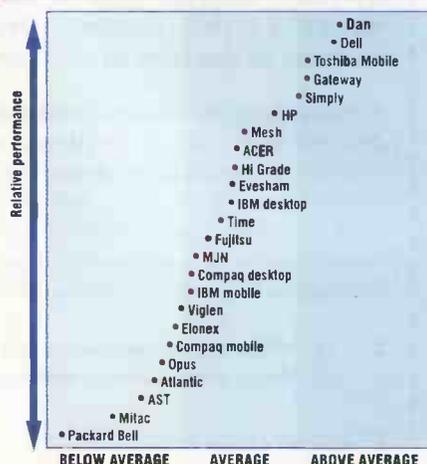
Our products, the Dan PCs featuring Intel® processors, after-sales service and overall reliability – all have always received more than enough votes to place Dan in the first rank of PC vendors. But this year we've done even better. Two of the leading magazines asked readers probably the most important question of

all: would they buy from the same vendor again? We are proud and delighted to reproduce the answers here.

The August 1998 Service and Reliability Reader's Survey in PC Magazine revealed that Dan users were more likely to stick with their current PC vendor than owners of any other brand. Incidentally, this is the third year in a row that Dan has headed PC Magazine's brand loyalty league table. Personal Computer World's 1998 Service and Reliability Survey (October issue)



## WILL DEFINITELY REPURCHASE THE SAME BRAND IN THE FUTURE



revealed the same high level of customer confidence and satisfaction.



### dantum 2 WS

#### Dual Pentium®II Processor capability

- Choice of single or dual Intel® Pentium®II Processor with 512KB Cache Memory
- 128MB PC100 SDRAM (1x128MB)
- Choice of Hard Disk Drive
- Iomega 100MB ZIP Drive + 1 cartridge
- Matrox 8MB MillenniumG200 Video Card
- 19" SVGA L/R N/I Monitor (Viewable size 18" - 450mm)
- 56KBPS VoiceFax/Modem (UK only)
- 32Max Speed EIDE CD-ROM
- Dual Port SCSI Controller (Ultra & Wide)
- Midi Tower Case with PSU
- Microsoft IntelliMouse™
- Windows UK Keyboard
- Software: Windows NT Workstation & MS Works 95

with single processor	PENTIUM II 350	PENTIUM II 400	PENTIUM II 450
8.0GB EIDE	£ 1469	£ 1598	£ 1747
4.1GB EIDE	£ 1585	£ 1714	£ 1863
9.0GB WIDE SCSI	£ 1745	£ 1874	£ 2023

For dual Pentium®II processor systems:  
Please add    £ 171    £ 300    £ 449

Above prices exclude VAT@17.5%.

### dantum 2 Duo Server

#### Dual Pentium®II Processor capability

- Choice of single or dual Intel® Pentium®II Processor with 512KB Cache Memory
- 128MB PC100 ECC SDRAM (1x128MB)
- Choice of Wide SCSI HDD
- ATI 2MB 3D Charger Video Card
- 14" Super VGA L/R N/I Monitor (Viewable size 13.32" - 333mm)
- 32Max Speed SCSI CD-ROM
- Intel® Express Pro 100 UTP Network Card
- Dual Port SCSI Controller (Ultra & Wide)
- Full Size Tower Case with PSU
- Microsoft IntelliMouse™
- Windows UK Keyboard
- Software: Windows NT Server (5 user licence)

with single processor	PENTIUM II 350	PENTIUM II 400	PENTIUM II 450
4.1GB EIDE	£ 1841	£ 1970	£ 2119
9.0GB WIDE SCSI	£ 2001	£ 2130	£ 2279

For dual Pentium®II processor systems:  
Please add    £ 171    £ 300    £ 449

Above prices, exclude VAT@17.5%.

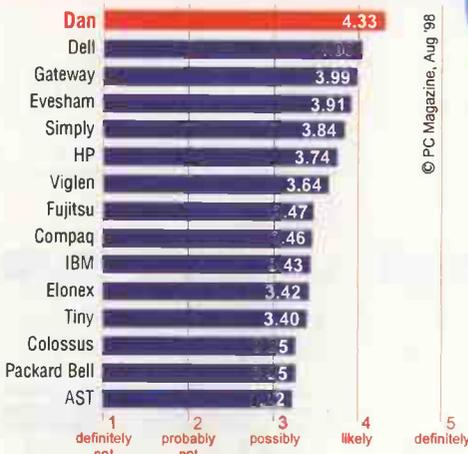
# go direct to dan

# vendor? One which gives the happiest customers?

## you get both.



### LIKELIHOOD OF REPURCHASING FROM THE SAME VENDOR



fractions of a second. These polls clearly indicate that service, support and overall reliability are now just as important to computer users as speed, if not more so.

Ask yourself, are you really satisfied with your PC supplier when it comes to these matters? If not, give us a call and we'll show you why our users keep voting us Number One. If the answer is yes, you're probably a Dan owner already.



All Dan PCs are year 2000 compliant

The performance difference between two makes of PC is often measured in mere

### 1997/98 Annual Awards

from Computer Magazine Reader Surveys and Editorial Teams

**Service & Reliability Award**  
PC Magazine, 1993-8 Surveys

**Most Reliable PC Manufacturer**  
PCW 1998 Awards

**Best PC Manufacturer**  
**Best Hardware After Sales Service**  
What PC? 1998 Readers Awards

**Best Network Servers Award**  
PC Direct Hits 1994-8 Surveys

**Best Educational Systems**  
PC Direct Hits 1998 Survey

**Best Service Award**  
PC Pro, 1997 Survey

**Best On-Site Maintenance**  
PCW 1997 Survey

**Best Customer Service Award**  
PC Plus 1997 Survey

In addition, Dan has also received numerous monthly editorial Awards.

### dan Ultimate 2

with Pentium®II Processor

- Intel® Pentium®II Processor with 512KB Cache Memory
- 64MB PC100 SDRAM (1x64MB)
- Fast 8.0GB Hard Disk Drive
- Iomega 100MB Zip Drive + cartridge
- ATI 8MB Xpert'98 AGP Video Card
- 17" Iiyama L/R N/I Monitor (A701GT). (Viewable size 16.2" - 405mm)
- 32MAX Speed EIDE CD-ROM
- SoundBlaster AWE 64 OEM
- Hi Fi Power Speakers (150W PMPO)
- 56KBPS VoiceFax/Modem (UK only)
- MS IntelliMouse™, Windows UK Keyboard
- Midi Tower Case with PSU
- 1 Year On-site Maintenance
- Software: Windows 98 or 95 (specify) MS Works 95, Serif Page Plus, Intuit Quicken 6se & Encarta US

PENTIUM II 350	£ 1232	£ 1448 incl. VAT
PENTIUM II 400	£ 1357	£ 1595 incl. VAT
PENTIUM II 450	£ 1500	£ 1763 incl. VAT

### dantum 2 /MS

with Celeron® or Pentium®II Processor

- Choice of Intel® Celeron or Pentium®II Processor with Cache
- 32MB SDRAM (1x32MB)
- Fast 3.2GB UDMA Hard Disk Drive
- ATI 4MB 3D Charger AGP Video Card
- 14" Super VGA L/R N/I Monitor (Viewable size 13.32" - 333mm)
- 32MAX Speed EIDE CD-ROM
- Sound Blaster 16 Soundcard
- Hi Fi Power Speakers (150W PMPO)
- 56KBPS VoiceFax/Modem (UK only)
- Microsoft IntelliMouse™
- Windows UK Keyboard
- Desktop Case with PSU
- Software: Windows 98 or 95 (specify) MS Works 95, Serif Page Plus, Intuit Quicken 6se & Encarta US

CELERON 333	£ 753	£ 885 incl. VAT
PENTIUM II 350	£ 794	£ 933 incl. VAT
PENTIUM II 400	£ 919	£ 1080 incl. VAT

All systems also include: Fast EIDE PCi HDD Controller, 1 Parallel, 2 Fast Serial and 2 USB Ports, 1.44MB Floppy Disk Drive, MMX™ Brand Software (Ultimate 2 & dantum 2/MS only).

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# dan technology

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and File Servers**

# networking

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& VAT @ 17.5%. E. & O.E.

In Dan Technology's ten years of supplying built-to-order computers direct to UK end users, we have earned universal acclaim for our "quality first" approach. Our products enjoy an unrivalled reputation for solid reliability, class-leading performance and great value for money.

Our customer service has won accolades too, with readers' awards this year from no fewer than four of the country's leading magazines — PCW, PC Magazine, What PC? and PC Pro. And when two of them asked their readers if they'd buy again from the same vendor, both found that Dan has the nation's most satisfied customers.

So if you care about quality as well as price, look at Dan's range. We think you'll like what you see.

## dantum

AMD® K6-2 Processor Based System

- 32MB SDRAM
- Choice of Hard Disk Drive
- Choice of AMD **K6-2 Processor**
- 512KB Pipeline Burst Cache Memory
- ATI 2MB 3D Charger Video Card
- 14" Super VGA L/R N/I Monitor (Viewable size 13.32"-333mm)
- 32MAX Speed EIDE CD-ROM
- Fast EIDE PCI HDD Controller
- 1.44MB Floppy Disk Drive
- Desktop Case with PSU
- 1 Parallel & 2 Fast Serial Ports
- Windows UK Keyboard
- Windows 98 or 95 (please specify)
- Microsoft IntelliMouse™
- MS Works Suite

Call for  
**380/400  
CPUs**

AMD Processor	AMD K6-2 300	AMD K6-2 350
3.2GB	£ 544	£ 588
4.0GB	£ 553	£ 597
5.0GB	£ 569	£ 613
6.4GB	£ 576	£ 620
4.1GB <b>SCSI</b>	£ 880	£ 924
9.0GB <b>SCSI</b>	£ 1040	£ 1084

8.0GB HDD upgrade from 6.4GB £ 17  
4MB 3D Charger video card upgrade £ 5

## dantum 2

Celeron/Pentium®II Processor Based System

- 32MB PC100 SDRAM (1x32MB)
- Choice of Hard Disk Drive
- Choice of Intel® **Celeron** or **Pentium®II Processor** with Cache
- ATI 4MB 3D Charger Video Card
- 14" Super VGA L/R N/I Monitor (Viewable size 13.32"-333mm)
- 32MAX Speed EIDE CD-ROM
- Fast EIDE PCI HDD Controller
- 1.44MB Floppy Disk Drive
- Desktop Case with PSU
- 1 Parallel, 2 Fast Serial & 2 USB Ports
- Windows UK Keyboard
- Microsoft IntelliMouse™
- Windows 98 or 95 (please specify)
- MS Works Suite

Intel Processor	CELERON 300A	CELERON 333	PENTIUM II 350
3.2GB	£ 624	£ 641	£ 684
4.0GB	£ 633	£ 650	£ 693
5.0GB	£ 649	£ 666	£ 709
6.4GB	£ 656	£ 673	£ 716
4.1GB <b>SCSI</b>	£ 960	£ 977	£ 1020
9.0GB <b>SCSI</b>	£ 1120	£ 1137	£ 1180

400MHz Pentium II upgrade from 350 £ 129  
450MHz Pentium II upgrade from 350 £ 278

## dantum 2 WS

Dual Pentium® II Processor capability

- 128MB PC100 SDRAM (1x128MB)
- Choice of Hard Disk Drive
- Intel® **Pentium®II Processor** (single or dual) with 512KB Cache Memory
- Iomega 100MB ZIP Drive + cartridge
- Matrox 8MB Millennium G200 Video Card
- 19" Super VGA L/R N/I Monitor (Viewable size 18"-450mm)
- 56KBPS VoiceFax/Modem (UK only)
- 32MAX Speed EIDE CD-ROM
- Dual Port SCSI Controller (Ultra & Wide)
- 1.44MB Floppy Disk Drive
- Midi Tower Case with PSU
- 1 Parallel, 2 Fast Serial & 2 USB Ports
- MS IntelliMouse™, Windows UK Keyboard
- Windows NT Workstation
- MS Works Suite

Single Processor	PENTIUM II 350	PENTIUM II 400	PENTIUM II 450
8.0GB <b>UDMA EIDE</b>	£ 1469	£ 1598	£ 1747
4.1GB <b>WIDE SCSI</b>	£ 1585	£ 1714	£ 1863
9.0GB <b>WIDE SCSI</b>	£ 1745	£ 1874	£ 2023

As above with 2 CPUs installed as standard

Dual Processor	PENTIUM II 350	PENTIUM II 400	PENTIUM II 450
8.0GB <b>UDMA EIDE</b>	£ 1640	£ 1898	£ 2196
4.1GB <b>WIDE SCSI</b>	£ 1756	£ 2014	£ 2312
9.0GB <b>WIDE SCSI</b>	£ 1916	£ 2174	£ 2472

Delivery cost to mainland UK for one system is £19.

Windows NT 4 Workstation upgrade... £ 72  
Call for low cost upgrade to Office 97 & Office 97 Pro

## Network Workstations



All Dan PCs can be used as workstations by adding a network card. The most popular card is the 16-bit Ethernet Novell NE2000 compatible. However, the Intel Express Pro PCI card can give higher performance.

Example of Workstations:

Entry level Station

dantum *W*  
dantum/K6-2/300 £ 544  
16-bit Ethernet card £ 16  
Workstation price £ 560

Best Seller Station

dantum 2 *W*  
dantum 2/300A £ 624  
Intel Express Pro card £ 39  
Workstation price £ 663

Power User Station

dantum 2 WS *W*  
dantum 2 WS/350MHz £ 1469  
Intel Express Pro card £ 39  
Workstation price £ 1508



## 6 Years Winner

Annual PC Magazine Service & Reliability Reader Survey

"For the sixth year in a row Dan wins the Overall Satisfaction for Desktop PCs category, making it the most successful vendor in this survey ever. Its achievement is enhanced this year by its taking the overall winner's crown, as well as an equally strong showing in every one of the survey's categories... Quite apart from top marks for consistency, Dan is clearly doing something right. It's not a huge international organisation, but its service, reliability and support are clearly world class... Dan is the company that makes us feel good." PC Magazine, August 1998, Service & Reliability 1998 Reader Survey

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# solutions



All Dan PCs are guaranteed Year 2000 compliant

## Introducing...

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Dan Network Solutions provides a single source for a comprehensive range of network services and products. A solid reputation for reliability and a high level of customer satisfaction is the basis of our success. Dan Network Solutions – the name to trust for:

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- Training
- On-site maintenance
- Help desk support
- Internet Services
- Database design
- Troubleshooting

Call for more information



## dantum 2 Server

Pentium® II Processor Based System

- 64MB PC100 SDRAM (1x64MB)
- Choice of Ultra DMA HDD from table
- Intel® Pentium®II Processor with 512KB Cache Memory
- ATI 2MB 3D Charger Video Card
- 14" Super VGA L/R N/I Monitor (Viewable size 13.32"-333mm)
- 32Max Speed EIDE CD-ROM
- Intel Express Pro UTP Network Card
- Fast EIDE PCI HDD or Adaptec PCI SCSI Controller
- 1.44MB Floppy Disk Drive
- Full Size Tower Case with PSU
- 1 Parallel, 2 Fast Serial & 2 USB Ports
- Windows UK Keyboard
- Microsoft IntelliMouse™
- Windows 98 or 95 (or NT at extra cost)
- MS Works Suite

Pentium®II Processor	PENTIUM®II 350	PENTIUM®II 400	PENTIUM®II 450
4.0Gb	£ 789	£ 918	£ 1067
6.4Gb	£ 812	£ 941	£ 1090
4.1Gb WIDE SCSI	£ 1077	£ 1206	£ 1355
9.0Gb WIDE SCSI	£ 1237	£ 1366	£ 1515

18GB Wide SCSI HDD from 9GB Wide £ 387

## dantum 2 Duo Server

DUAL Pentium® II Processor capability

- 128MB PC100 ECC SDRAM (1x128MB)
- Choice of Wide SCSI HDD
- Choice of single or dual Intel® Pentium®II Processor with 512KB Cache Memory
- ATI 2MB 3D Charger Video Card
- 14" Super VGA L/R N/I Monitor (Viewable size 13.32"-333mm)
- 32Max Speed SCSI CD-ROM
- Intel Express Pro UTP Network Card
- Dual Port SCSI Controller (Ultra & Wide)
- 1.44MB Floppy Disk Drive
- Full Size Tower Case with PSU
- 1 Parallel, 2 Fast Serial & 2 USB Ports
- Windows UK Keyboard
- Microsoft IntelliMouse™
- Windows NT Server (5 user licence)

Single Processor	PENTIUM®II 350	PENTIUM®II 400	PENTIUM®II 450
4.1Gb WIDE SCSI	£ 1841	£ 1970	£ 2119
9.0Gb WIDE SCSI	£ 2001	£ 2130	£ 2279
As above with 2 CPUs installed as standard			
Dual Processor	PENTIUM®II 350	PENTIUM®II 400	PENTIUM®II 450
4.1Gb WIDE SCSI	£ 2012	£ 2270	£ 2568
9.0Gb WIDE SCSI	£ 2172	£ 2430	£ 2728

18GB Wide SCSI HDD from 9GB Wide £ 387

## dantum 2 RAID Server

DUAL Pentium® II Processor capability

- 128MB PC100 ECC SDRAM (1x128MB)
- 18GB SCSI HDD (3x9GB HDDs in RAID 5 config. with HotSwap capability + spare/redundant 9GB HDD worth £412)
- Choice of single or dual Intel® Pentium®II Processor with 512KB Cache Memory
- ATI 2MB 3D Charger Video Card
- 14" Super VGA L/R N/I Monitor (Viewable size 13.32"-333mm)
- 32Max Speed SCSI CD-ROM
- Adaptec RAID PCI controller
- Intel Express Pro UTP Network Card
- Dual Port SCSI Controller (Ultra & Wide)
- 1.44MB Floppy Disk Drive
- RAID Server Case with redundant PSU
- 1 Parallel, 2 Fast Serial & 2 USB Ports
- Windows UK Keyboard
- Microsoft IntelliMouse™
- Windows NT Server (5 user licence)

Single Processor	PENTIUM®II 350	PENTIUM®II 400	PENTIUM®II 450
18Gb WIDE SCSI	£ 3977	£ 4106	£ 4255
As above with 2 CPUs installed as standard			
Dual Processor	PENTIUM®II 350	PENTIUM®II 400	PENTIUM®II 450
18Gb WIDE SCSI	£ 4148	£ 4406	£ 4704

Call for information on LVD SCSI Drives

For Novell Netware File Servers: you must upgrade the EIDE CD-ROM to SCSI add £ 30 (plus £ 95 for Adaptec AHA 2920 SCSI controller if needed)

## Network upgrades for dantum systems

### Network Cards

16-Bit Network Card Ethernet (NE2000 comp. -Thin Ethernet/Twisted Pair)	£ 16
16-Bit Network Card Ethernet (3COM509)	£ 55
32-bit PCI Ethernet Card (3COM900)	£ 52
32-bit PCI 100Mbps base-T Ethernet Card (3COM905)	£ 43
32-bit PCI Intel Express Pro 100UTP Card	£ 39
Intel Express Pro 100UTP Server Card	£ 356

### Network Hubs

8 Port 10 base-T Mini Ethernet Hub	£ 30
16 Port 10 base-T Mini Ethernet Hub	£ 102
Intel stackable 10/100 base 12 Port Hub	£ 796
Intel stackable 10/100 base 24 Port Hub	£ 1266

### Uninterruptible Power Supplies - UPS

1000VA UPS Interactive (APC)	£ 319
700VA UPS Interactive (APC)	£ 230

### Tape Streamers for Servers

(Controller & Backup Software not included – figures in brackets denote max. compression rate)

2GB (4GB comp) DAT Streamer +90m tape	£ 333
4GB (8GB comp) DAT Streamer +120m tape	£ 496
12GB (24GB comp) DAT Streamer +125m tape	£ 706

### Miscellaneous

15" Colour Monitor from 14" SVGA	£ 17
----------------------------------	------

## 5 Years Winner & Runner-up

Network Server Category, Readers Survey – Direct Hits 1994, '95, '96, '97 & '98

"Yet again we saw the number of Network Servers available through the direct channel rise sharply in '97, with more companies than ever offering servers off the page. Runner-up Dell is just one of the direct manufacturers to seek a portion of this growing market. But the winner is a company that has continued to dominate when it comes to selling servers off the page, winning the Direct Hits Server award year after year, and that's Dan Technology." [Dan has won the Network Server category every year since 1993.]

PC Direct, June 1998, Direct Hits Readers Awards 1998



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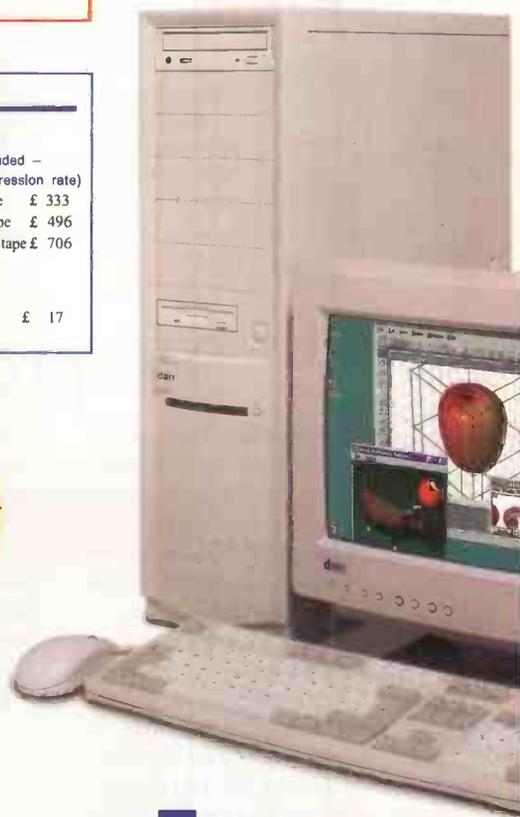
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Further dan technology adverts can be found on pages 325 to 329



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# dan technology

## Comdex Special

The year's major IT event began in Las Vegas as we went to press, but you can read a Comdex special report on our web site at [www.pcw.co.uk](http://www.pcw.co.uk). And, of course, there'll be full coverage in next month's *PCW News*.

### FALLING FLAT

The market is literally going flat for CRT monitor makers as desktop LCD displays become more affordable. Sony, Mitsubishi, Panasonic and Samsung have all offered CRT displays with flat screens which are said to cut out damaging glare from reflections. Iiyama, too, has launched a £449 (ex VAT) 19in model called the Visionmaster Pro 450, offering resolutions of up to 1800x1440 at a refresh rate of 80Hz — the company piled up its monitors (left) to make a point.

Iiyama  
01438 314417



## OPERATING SYSTEMS

# Enter Windows 2000 as Gates fights trustbusters

Microsoft will start the new millennium with a single operating system called Windows 2000, although it will have workstation and server versions.

The decision amounts to no more than a renaming of NT 5.0. But it spells the end of the Win9x line, and defines a minimum PC spec of 64Mb of RAM and a 300MHz PII processor.

Microsoft announced the changes as it sought to limit damage from the continuing DoJ anti-trust case. Accusations include: that Microsoft put pressure on Apple to drop its QuickTime multimedia player; and that it asked service provider AOL "How much do you want from us to screw Netscape?" Microsoft's response has been confused, though it is still not clear whether the DoJ will prove its case.

The case has coincided with a series of "leaks" from within Microsoft about the threat from rival developers.

## IE 5 beta

An early beta of the new Explorer 5.0 is available at [www.microsoft.com](http://www.microsoft.com). New features include better searching and management of favourites.



First there was a memo depicting Psion and its Epos 32 operating system (now owned by Symbian) as a potential problem. Then, two so-called Halloween memos named Linux as a threat.

Epos 32 (see p29) and Linux do offer credible alternatives in some markets. Linux got more backing this month, with Corel offering free downloads of a Linux version of WordPerfect (at [linux.corel.com](http://linux.corel.com)).

Cynics pointed out, however, that the memos portray Microsoft as less than a monopoly at the very time it faces charges of

monopoly abuse. Still, a feeling persists that Microsoft rivals are gaining ground.

Even at last month's NT Show, which was bigger and better than ever, there were dissenting voices. IBM, which has been hedging bets on Unix and Linux, was boasting of its skills using NT in "a mixed environment" and doubting NT's scalability. Eddie Bleasdale, of NetProjects, was telling all who would listen: "Linux is a megatrend. It is not going to go away." Nor, when all's said and done, is Microsoft. CLIVE AKASS

(AND VNU NEWSWIRE)

• New NT architecture — p40

## ADSL

# BT tiptoes into broadband for homes

There were confusing signs last month about pricing for ADSL (Asymmetric Digital Subscriber Line), which piggybacks a fast data stream onto BT's old copper lines. Four pilot rollouts, offering an always-on 2Mbit/sec link upstream and 256Kbit/sec down, are underway in London, by firms reselling BT capacity.

Service provider I-Way charges £350 a month for a minimum six months.

Virgin Net has only about

a dozen experimental ADSL lines working, for which it currently charges nothing.

VideoNet, which offers an ADSL video-on-demand service, is charging just £5 a month plus up to £3.50 per movie. Eventually it expects to charge £249 for a hookup.

BT Interactive would not quote prices. A spokesperson said the variation in prices is not surprising at this stage.

What is certain is that ADSL is here to stay — and it will get cheaper. BT's Simon

Brooks, marketing manager of the service, said: "We are investing millions in it. We are serious about deployment."

He insisted that demand will persist for BT Highway, which offers a maximum 64Kbit/sec per ISDN channel. He agreed that ADSL rollout and pricing will be affected by what cable companies do. "If they start rolling out cable modems, fine. The...competition will move the takeup of high-speed service forward and bring down prices."

A new world standard for a slower DSL Lite was agreed last month, but even though BT is on the standards body, it has no immediate plans to use it.

ADSL pricing is a thorny problem. There is nothing to stop people using ADSL for IP voice calls at no extra monthly cost. Said Brooks: "...we are going to have to come up with a viable pricing model."

[www.isntrial.bt.com](http://www.isntrial.bt.com)

## DIGITAL TV

# PC users get a look-in at last

The first add-on cards to allow PCs to receive digital TV have hit the market. They are currently limited to free channels because conditional access cards allowing paid-for viewing are not yet available.

**Easat Antennas** is selling a £249 (inc VAT) kit, called Kiss SkyVision, which includes a PCI-based Digital Video Broadcasting (DVB) card and a separate MPEG decoder ISA card. The software will automatically

search and configure itself for channels available on your dish aerial. The kit will also provide access to DirecPC turbo internet services, providing a down channel of up to 400Kbit/sec.

The kit also supports DVD and will be bundled with a DVD player for £389 (inc VAT).

**MediaStar** is offering its GlobalSat Vision DVB card with on-board hardware MPEG decoder for about £159. A Plus version, which

should be on sale by the time you read this, includes a Common Interface Module allowing conditional access when available. This will also have output for standard or widescreen TVs.

Next year, the company plans a Gold Version with DVD support. Both the Plus and the Gold versions are also expected to cost around £160.

MediaStar 0181 814 2288; Easat 01782 208090 [www.easat.co.uk](http://www.easat.co.uk)

## short stories

### SYQUEST IN TROUBLE

Removable storage pioneer Syquest ceased trading shortly after announcing new versions of its 1Gb SparQ removable drive. There was speculation as we went to press that it might be bought by rival Iomega, although it could survive after a period of Chapter 11 protection.

- New USB products, p36
- Superfloppy war, p42

### QUARTERDECK SOLD

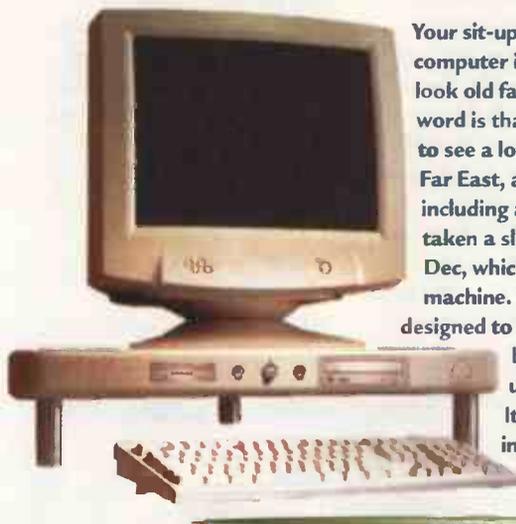
Symantec has bought rival utility developer Quarterdeck in a deal worth \$65m. The main reason for the move is to get around a legal dispute involving Symantec's Norton Uninstaller program. QuarterDeck offers a similar utility called CleanSweep.



### TREAT IN STORE

Western Digital says its new, thin 18.3Gb SCSI drive will allow more storage to be packed into system boxes. The drive on the right (above) is its new 13Gb EIDE drive.

[www.westerndigital.com](http://www.westerndigital.com)



Your sit-up-and-beg computer is starting to look old fashioned. The word is that we are going

to see a lot of experimental designs coming out of the Far East, and Intel has been showing off a few novel PCs, including a pyramid. Cambridge IQ (01223 870817) has taken a slightly different approach with what it calls the Dec, which is a way of sprucing up the standard desktop machine. The heart-shaped platform (below and left) is designed to fit snugly in the corner, and the keyboard can be stashed underneath. It will take monitors up to 28in and the system box sits on the floor. It costs from £45 — options include a CD drive and an LS-120 superfloppy.

## PC designs with a heart



## Geofox goes bust

Cambridge palmtop maker Geofox ceased trading on 2nd November after a failed bid to raise further funding. It launched its Geofox One palmtop last year using the same Epoc 32 operating system as Psion's Series 5.

The device was well received, but some felt Geofox would have done better to use Epoc 32 on a larger mobile rather than taking on the Series 5 in an increasingly competitive market.

A Geofox statement said that despite increasing sales, it could neither raise more funds nor find a buyer. "The directors have therefore had no choice but to place the company into receivership."

Geofox's sales and support line has ceased working, but a recorded message said there was the possibility that a third-party would take over support.

- Boost for Psion OS — p29
- New mobiles — p31

## New AutoRoute goes streets ahead

The new AutoRoute Express, due out in February, will show all the streets in Britain. The £60 package (less a £10 cashback on registration) will not route street-to-street, but the new detail is sure to attract new classes of user.

Among them will be **Excel** and **Access** users who will be able to peg data to street maps, product manager Robert MacIntosh said.

- Microsoft is offering Christmas buyers £20 off its latest Encarta products (*Point of View* p28, and review p31).
- And, Microsoft was rumoured to be considering a bid for De La



"I thought he was already minting money."

Rue, which prints banknotes for around 150 countries.

## Processor prices fall for Christmas

Christmas price cuts have narrowed the gap between Intel's PII chips and low-end Celerons. The 350MHz PII price falls most: by 30 percent to \$213. Prices of the 333MHz, 400MHz and 450MHz fall, to \$181, \$375 and \$562 respectively.

The Celeron 333MHz 128Kb cache version falls 17 percent, to \$159; the 300MHz only 7 percent, to \$138.

MIKE MAGEE



## PROCESSORS

# Intel lines up for chip wars

Intel, facing its toughest opposition since it scooped the contract to power the first IBM PC, has outlined its processor roadmap. Barely one in two PCs sold in US shops in August had Intel chips, a 30 percent fall in one year.

**Its response** is to refine its policy of tailoring chips for different markets. It gave more details of its plans for the launch of the 64-bit IA64 range in mid-2000. This will retain a 32-bit core for backward compatibility, and the 32-bit dynasty will survive well into the millennium.

The Celeron will remain Intel's main offering in the entry-level market, where PCs are being sold like soap in supermarkets. Tesco (pictured) is offering a £699 Siemens PC based on a 300MHz Celeron. But PCs using chips from the likes of AMD, Cyrix

**A**MD is challenging Intel at the power PC level. Its Sharptooth K6 is pitched against the Katmai PII. In 1999, its K7 will aim higher, using the same 200MHz EV6 bus (maybe the same motherboard) as Digital's Alpha.

**Cyrix** says its M3 chip will have a new core called Jalapeno, with streamlined memory access and hard-

## Rivals gear up

wired 3D. It will launch at 600MHz in late 1999. Also due then is a Socket 7 500MHz WinChip 4 from IDT with a new architecture. **IDT** says yet another design will launch a year later. New Intel neighbour, **Rise**, has joined the cloner ranks with a low-end x86 design.

and IDT (see box, above) can be £200 or more cheaper. Christmas price cuts (left) may put the PII into this market. The high-end Xeon PII will lead the way into the future. The timetable is:  
**1999** Launch of PII, code-named Tanner, with Katmai-enhanced graphics.  
**2000** Tanner's 0.18 micron successor, Cascades, will boast on-chip L2 cache. Later, IA64 will debut with Merced.

Intel is playing this down, saying performance will be on a par with Cascades.  
**2001** The 32-bit Foster, with a new core, will clock 1GHz. Later, McKinley will lift IA64 performance beyond Merced and the 32-bit line.  
**Beyond 2001** The 64-bit dynasty will split into 0.13-micron high and low-end versions, codenamed Maddison and Deerfield respectively. CLIVE AKASS

## Brains of Britain

### POINT OF VIEW

One of the brighter suggestions for Britain's millennium project was to digitise the entire contents of the British Library. The Dome won, but there are moves to shift more of the national knowledgebase online — and big US companies are getting involved.

**Intel** (which, as it happens, has set up a "virtual Dome" site at [www.dome2000.co.uk](http://www.dome2000.co.uk)) is giving £1.5m for a digital gallery at the Science Museum's new Wellcome Wing. The idea is to create exquisite visualisations of scientific themes, viewable online. These will be brought up to date, at no small cost, as new discoveries are made.

Also likely to get involved is Microsoft. Its chief technology officer, Nathan Myhrvold, sits on the board of trustees.

**Microsoft's** new Encarta reference suite is an excellent example of what can be done. London publisher Webster

(which has no connection with the famous US dictionary) has no less than 60 people working full-time on the British version. Some of the work involves keeping the web links up to date and honing them to provide the best sources. As more resources come online, works like Encarta will look increasingly like a front-end to our collective memory banks.

**Britain and the net** both have a tradition of free access to knowledge, but commercial content is bound to increase. Bill Gates knows this well. His Corbis company has been buying digital rights to artworks and millions of photographs.

**UK taxpayers**, while unlikely to object to subsidising online resources for UK use, might balk at making access free to the world. Digital content could



▲ ENCARTA — FRONTS GLOBAL MEMORY BANKS

provide vital revenue for museums, galleries, and media archives. Intel's Sean Maloney clearly had this sensitive aspect in mind when he said of the £1.5m gift: "This is not a plot to steal the intellectual property of the Science Museum."

Indeed, British suspicions of sponsorship and commercialisation can go too far. The more money these resources get, the better they will be.

• Encarta review — page 311

Clive Akass



on accessing our national knowledgebase

MEMORY

# Out of sight... the new atomic RAM

Researchers in Denmark claim to have made a breakthrough in using a single hydrogen atom to store one bit of data, pointing the way to hypercompact IT devices.

IBM performed a similar trick using Xenon atoms at a temperature near absolute zero. But researchers at the Technical University of Denmark's microelectronics centre have proved it can be done at room temperature with material in common use: silicon, in the form of a lattice of atom pairs called dimers, coated with hydrogen to prevent oxidation.

Each silicon atom at the lattice surface forms a strong bond with a hydrogen atom.

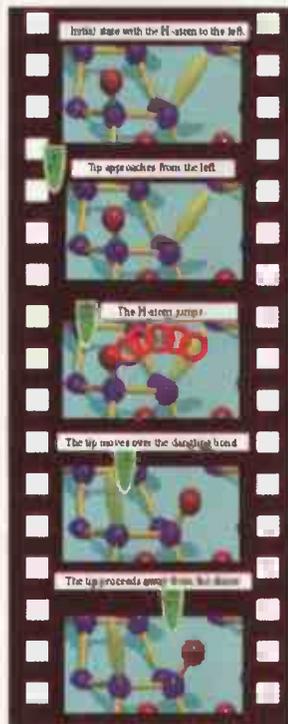
The Danes used a scanning tunnelling microscope (STM) to knock out one hydrogen atom from a dimer, leaving a bond flailing with nothing to cling to (top right).

An STM uses an electrode with a sharp tip and exploits quantum effects, allowing individual atoms to be imaged and manipulated. By applying a voltage to the tip and moving it close, the remaining hydrogen atom can be switched from one silicon atom of the pair, to the other (lower right). "The voltage is large, so the switch is stable," said Kurt Stokbro, who developed computer simulations of the effect.

**Devices using the idea**

are some years off. One is

◀ **HOW THE DATA APPEARS ON AN STM SCAN**



likely to be a storage medium which is scanned by an STM, much as today's disks are scanned. Even further off are solid state devices using a matrix of STM-style tips. "There is a lot of research going on in this area," said Stokbro.

[www.mic.dtu.dk/mic](http://www.mic.dtu.dk/mic)

## short stories

▄▄▄ **PC SALES HOLD UP**

The computer industry is not in as big a slump as expected, according to analysts IDC and Dataquest. They say PC sales in the US grew 20 percent in the last quarter, 6 percent above predictions. Latest figures show that while Asia stumbles, there is strong demand in Europe and the US, promising world growth of 18 percent for 1998. Barring any major downturn, demand will remain strong in the US as \$699 and \$499 PCs drive sales to new users.

TIM BAJARIN



▄▄▄ **CRYSTAL CLEAR ON NET**

Seagate Software's new £309 (inc VAT) Crystal Reports 7.0 allows access to multiple databases over the web. Other new features include advanced mapping (pictured, above). An early version is bundled with Visual Basic, and users of this and rival products can upgrade for £149 (inc VAT).

Seagate 0181 566 2330

▄▄▄ **AUTOSKETCH 6.0**

Autodesk has released its £99 (ex VAT) entry-level Autosketch 6.0, aimed at helping technicians without specialist CAD skills to draw concepts quickly and easily.

Autodesk 01483 303322

▄▄▄ **ANNUAL DATA**

The 1999 edition of *The Computer Users Year Book*, the three-volume directory of IT sources, services and sites, is now available for £295 for the set. Individual volumes can be bought.

Learned Information  
01865 388057

# Small comfort for Symbian

The Psion-developed Epoc 32 operating system got a new boost last month with news that it will run a version of the Oracle Lite database.

The OS was named as a major threat to Microsoft in the first of a series of internal memos leaked suspiciously close to that company's DoJ court case (see p26).

Epoc is now owned and developed by Symbian, a company set up by Psion, Nokia, Motorola and Ericsson. And, as PCW News pointed out after the Symbian launch, the Epoc challenge is real. Psion's Symbian partners own three quarters of the mobile-phone

market and Epoc is considered better and more compact than WinCE.

Mobiles are a big opportunity for independent software developers because in the new, connected world the devices do not need Windows. The new Oracle Lite, for instance, will allow wireless access to major databases from handhelds.

Analysts say the range of devices the Symbian group

makes would guarantee Epoc a huge market. Rob Hailstone, research director at Bloor Research, said: "Just because Microsoft owns the desktop market, it doesn't mean that by default it will own the mobile market. It is not a war yet, but the battlements have been put in place. The standard mobile device will not be a laptop computer. That is overkill."

ADDITIONAL REPORTING, LISA KELLY

### Devices 'spark synchronisation crisis'

The proliferation of new information devices is a major challenge to IT managers, according to a report from Motorola. At least one in four workers uses a computer away from the office, and data from these diverse sources has to be synchronised into a single access point, it said.

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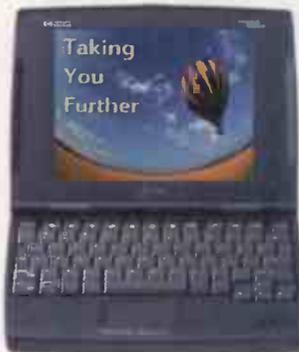
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MOBILES ROUND-UP

# The mini market

A new wave of mini-notebooks powered by the Handheld PC Professional version of Windows CE 2.0 is poised to steal away customers from the traditional handheld and notebook markets. Lighter and smaller than a notebook, yet more powerful and ergonomic than a palmtop, these so-called folio PCs are expected to make big gains during the next year over competitors such as the Sony Vaio.

**Hewlett-Packard's Jornada 820** (pictured) is leading the charge, and has a keyboard and screen almost as large as a notebook. It is powered by the StrongArm Risc processor and uses far less battery power. Weighing in at only 1.8lb, it also comes with a 56K modem and 32Mb of RAM. The Jornada is expected to go on sale this



month with an estimated street price of about £850. (See also, *Gadgets*, p74.)

**Toshiba has released** a 2.9lb mini-notebook with a magnesium case, the **Portégé 3010**. It has a 266MHz MMX processor and a 10.4in screen, and comes with a 4Gb hard drive and 32Mb of RAM. It costs £1,595 (ex VAT).

**Sharp's** upcoming folio PC, the **Mobilon Pro PV-5000**, also has a reasonably large keyboard and a large 8.2in colour touch-screen as well as a 33.6K modem. At about 2lb, it's also highly portable.

Sharp says the Mobilon will be available early in the new year for around £80.

-----  
 Toshiba 01932 828828 [www.toshiba.co.uk](http://www.toshiba.co.uk);  
 Hewlett Packard 01344 369369  
[www.hp.com](http://www.hp.com); Sharp 0161 205 2333  
[www.sharp-usa.com](http://www.sharp-usa.com)

# New CE, new mobiles

Several large form-factor mobiles running Handheld PC Professional, the latest version of Windows CE, were shown at the Microsoft's Professional Developer's Conference.

**The Sharp Mobilon TriPad** and the **Vadem Clio**, the same machine under different names, offer a 9.4in 640x480 256-colour screen, 16Mb RAM (upgradeable to 32Mb), software-based fax/modem and 12-hour battery life for \$999. Sharp's demonstration TriPad was running full-screen Windows NT 4.0 applications thanks to the new Citrix ICA client for CE Pro. The Citrix ICA supports Windows CE running on MIPS, and Hitachi SH3, Intel x-86, PowerPC and StrongARM processors.

Meanwhile, Microsoft announced new developer services including

MSDE, an SQL Server 7.0-compatible engine for Access 2000, and Agent 2.0 animated character technology, at the October 1998 Professional Developer Conference (PDC '98) in Denver. Agent 2.0 enables animated characters to be embedded into web pages that will be viewed on Windows PCs.

**Microsoft Data Engine** is an alternative to the Jet 4.0 Access 2000 storage engine. With MSDE installed, Access 2000 data, queries and reports can be shared transparently with, or migrated to, SQL Server 7.0. MSDE is also behind SQL Server 7.0 Desktop, the "lite" version of SQL Server for Windows 95, Windows 98 and Windows NT 4.0 Workstation announced at Comdex Fall on 16th November.

TERENCE GREEN

• See also, *News Analysis*, p40.

# The new small notebooks

Toshiba's new 6.7lb Satellite 2515 CDS represents an aggressive expansion into the entry-level market. It looks like an Apple G3 PowerBook and sports a 266MHz MMX processor, 4Gb hard drive, 32Mb of DRAM, 56K modem, 24X CD-ROM drive and a 12.1in DSTN screen. At \$1,399 it is \$105 cheaper than IBM's ThinkPad series, thanks largely to the TFT screen IBM is now putting in all its laptops.

**Toshiba's new mini notebook**, the 2.9lb Portégé 3010, will give Sony's Vaio 505 a run for its money. It is almost identical in size and, in my estimation, with its sleek magnesium case, looks much better. It has a 10.4in TFT screen and uses a 266 MMX processor, a 4Gb drive and 32Mb of DRAM as standard.

Toshiba claims 3.5 hours of continual battery use. The suggested retail price is \$1,995. The 505 has taken mobile vendors by surprise. For years, they resisted creating a product this small. I expect IBM, Compaq, Micron and even Dell to have competing products in this space by early 1999.

**Another possible rival** is HP's 1.8lb CE-based Jornada, which is about a fifth smaller than the Vaio and has a 9in DSTN screen and a 56K modem. Its 32Mb of DRAM serves as its storage medium but it boasts ten hours of battery life.

It has limitations, compared to a Windows 98 laptop, but costs well under \$1,000. I've been using one for about two weeks and I'm quite impressed. My beta unit has some software glitches, but once it hits the market in early November, I'm sure it will be rock solid.

**The new Sharp Actius 150** is also quite a product. It sports a 266MHz processor, a 4.3Gb drive, 64Mb DRAM, 2Mb video RAM and port replicator for about \$2,500. Its main selling point is Sharp's new transfective screen, the brightest and sharpest screen of its kind. It will be in the UK by early 1999.

Tim Bajarin



letter from Silicon Valley

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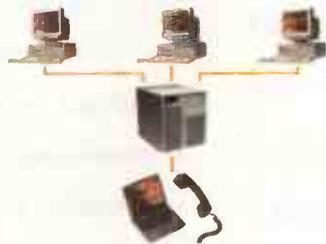
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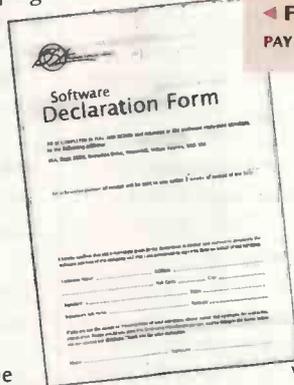
SOFTWARE

# Anti-piracy moves set sail

An anti-software piracy campaign condemned last year for its heavy-handed approach to enforcement has garnered the support of The Federation of Small Business.

For **Crackdown 98**, the Business Software Association (BSA) is sending out a Software Declaration Form to over 20,000 medium-sized UK companies. If a business does not complete and return the form within three weeks, it will be placed in the BSA's Software Watch database and will likely come under investigation by the BSA for software piracy. If found guilty, businesses face fines of up to £10,000 and could be "shamed in the press".

**Ignorance of software piracy** in your organisation isn't an excuse, the BSA says. "Companies have to make an active effort to find out what is on their computers," says Mike Newton, campaign relations manager. "There's no excuse for piracy. But in the case of small and medium businesses which are



◀ FILL IT IN, OR PAY THE PRICE

growing, it may not be at the top of their agendas."

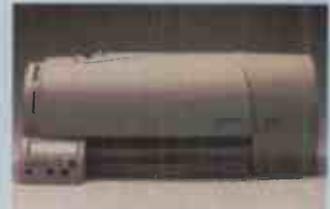
The BSA's aims are admirable, says Stephen Alambritis of the Federation of Small Business. However, the BSA should exercise a bit of patience when it comes to otherwise honest businesses. "There should be punishment, but not enough to bring down the business into bankruptcy.

We estimate that most of the rogue software is in use by shadowy businesses, not honest ones."

The **Business Software Association** came in for criticism by many small businesses last year when it sent out what they said were "threatening" letters demanding they fill in its Crackdown 97 questionnaire. Many small businesses described the BSA's enforcement methods as high-handed.

Phone for *The BSA's Guide to Software Management* on 0800 510510 or see [www.bsa.org.uk](http://www.bsa.org.uk)

## Snappy printer



Lexmark's latest printer has been designed with the digital shutterbug in mind. The Photo Jetprinter 5770 is a two-in-one inkjet device that can handle photo printing as well as more ordinary printing tasks. The 5770 also allows users to store and edit their pictures before printing. The printer accepts both CompactFlash and SmartMedia cards, meaning that the PC can be bypassed altogether. It also supports the Iomega Zip drive. The 5770 should be available later this month and will cost £349 (297 ex VAT).

Lexmark 01628 481500  
[www.lexmark.co.uk](http://www.lexmark.co.uk)

## Company sees red at green PC initiative

A leading **computer recycling company** has criticised the latest draft of the EC Environmental Directive as "uneconomic, contradictory and unworkable". Technical Asset Management (TAM) says that the definitions of "recycling" and "waste" are unclear, and that there is confusion about who has responsibility for disposing of a PC if it is refurbished.

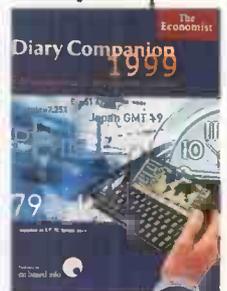
On a similar note, the DTI has told businesses to stop throwing away their

old computer equipment. It has produced a guide that helps businesses find a good home for their old PCs, called *Unwanted Computer Equipment: a Guide to Re-use*. By passing old hardware on, they could make a real practical contribution to people in the community, said Consumer Affairs Minister, Dr Kim Howells.

TAM 01707 333555  
DTI 0171 215 5822

## Digital diary

Why not get organised in the New Year with the digital version of the Economist Diary



Companion 1999 for the Psion palmtop PC? The diary includes the usual reference data as well as a glossary of computing terms, and also automatically transfers important dates and holidays to your agenda file. It costs £17.95 including VAT (via download or mail order) or £19.95 if you buy it in the shops.

On-Board Info 0171 370 0307  
[www.on-board-info.com](http://www.on-board-info.com)

## Bright eyes

First it was the ergonomic keyboard, then the wrist rest: now there's a product designed to take the strain off the old peepers. PC Eyes is a combination of natural plant extracts, including guarana, bilberry, eye bright and feverfew, that helps combat dry, tired and strained eyes. Being



bright-eyed and bushy-tailed, we haven't tried PC Eyes for ourselves, but it's available for £17.95 for 60 tablets.

Herbal Solutions 01483 204427

## Fully booked

Makers of electronic books have agreed on open technical standards for the new technology. These new standards mean that devices from different manufacturers will be able to read the same electronic text without having to reformat it first. The new Open ebook specification will be based on HTML and XML web languages.

## USB

# Peripherals take the bus

The robust USB driver in Windows 98 has at last persuaded vendors to launch peripherals using the new, fast serial port. Another spur has been the introduction of Apple's new USB-equipped iMac, which lacks a floppy drive. Teac announced a USB floppy, which will get an iMac driver soon, but this is expensive at around £100. A better bet for both the PC and iMac platform is one of the superfloppy drives (see *News Analysis*, page 42), all of which have USB versions in the pipeline.

**Saddest entry** into the market was Syquest, which said it would ship a USB version of its SparQ drive this month for



less than £200 — with 1Gb removable cartridges costing £49.99 each. A SCSI version was also announced, but shortly after, Syquest temporarily ceased trading, though both company and drives may survive (see page 26).

**Pace introduced** a colour video camera, designed to sit on your PC, for just £89. Roland, via its new company

Edirol, announced three new USB devices: the Super MPU-64 64-channel MIDI interface, the MA-150U 30W stereo speakers, and the Audio Canvas UA-100 audio and MIDI unit.

Pace 0990 561001  
Edirol 0181 956 2224

## Why use USB?

The main advantages of USB, which is expected to oust the PC's traditional serial and parallel ports, are:

- **Speed.** Up to 12Mbit/sec, around 100 times faster than the current serial port.
- **Plug and Play.** No need to mess with interrupts and addresses.
- **Hot-plugging.** No need to switch off the computer when changing devices.
- **Fewer leads.** USB devices can be daisy-chained, avoiding a mass of wires at the rear of the PC.
- **Power supply.** Devices can draw up to 2.5W of power from the USB, and so may not need mains cables or adapters.

# Businesses tap into telephony potential

Internet-initiated telephony, which sets up voice calls with web-site visitors, is yet another avenue of telecoms pushed out from Silicon Fen. NetCall has put hundreds of net traders in contact with thousands of customers at sites like Thomas Cook Holidays. It is also used by the *Electronic Telegraph's* Kindred Spirits dating service.

NetCall introduced its webcall button back in 1995, and technical director and MD John Burnett believes it remains ahead of rivals. If you click a button to get a voice link and the service or trader you want to contact is not available, a fax (or email or SMS message) is sent instead. It works if you happen to be out of the country, or trying to access an 0800 number not normally possible from beyond these shores, because NetCall can initiate the call from within whichever country offers the cheapest rates.

**The firm has a client base** of some 1,400. But many traders do not yet understand its value, says Burnett. "There is a learning curve that has to take place out there. A potential customer can place calls without using telephone dialling, but you don't need

a multimedia PC at either end for the voice part of the call."

You can also use voice over the internet between gateways for long-distance calls, using the NetCall HyperPhone link. At [Askalex.com](http://Askalex.com), where NetCall links up more than 1.8 million UK businesses with potential customers, 2,500 enquiries are made per hour. At the other end of the scale, NetCall connects a database of US bed-and-breakfasts (who don't all have a PC) with UK visitors.

**NetCall's standard charge** UK-to-UK is 6p per per minute, while to the US it is 11p. NetCall's service is also used for conference calls of up to eight parties. Burnett claims pricing is about one-fifth of the BT equivalent, with no setup charges: "We are looking to make our service pay by the sheer volume of people who are attracted by what our services offer, anywhere in the world." For a call anywhere in the US, NetCall charges \$3 a month for a button/link plus \$0.18 a minute.

[www.netcall800.com](http://www.netcall800.com) or [www.netcallplc.com](http://www.netcallplc.com)

• **Cambridge astronomer** Peter Duffet-Smith has invented a way of using the cellular phone infrastructure to give people exact information on where they are. The technology originated in the Cavendish lab and Duffet-Smith joined Cambridge Positioning Systems last year to develop the system, called Cursor. It is due for a nationwide rollout next year.

Cursor involves only a minor software upgrade to any GSM mobile phone and is available for use with emergency services as well as business and consumer information needs. Future applications are boundless, says chief executive Geoff Morris. "People will be able to use their mobile phones to obtain local information which relates to their immediate locality such as the nearest bank, or how to get to the nearest hotel." A demonstration network is up and running in Cambridge in close collaboration with development partner Scientific Generics.

[www.cursor-system.com](http://www.cursor-system.com)

Caroline Swift



continues her reports from *Silicon Fen*

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### INC IBM ON-SITE WARRANTY

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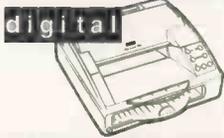
## 56K MODEM



### EXTERNAL VOICE FAX MODEM

Data throughput 115K, V34+/K56 Flex, full Hayes AT command set, Hayes manufactured. BABT. **£49<sup>99</sup>**

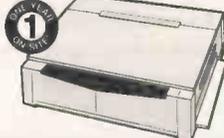
## DEC 500i C



### COLOUR INK JET PRINTER

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## SHARP Z-20



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## CASIO QV10A

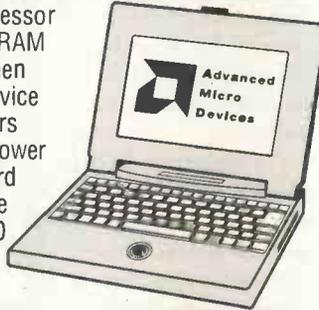


### DIGITAL CAMERA

320 x 240 res, 2Mb RAM, stores up to 96 images, 1.8" TFT screen, inc s/ware, "as new" refurb. **£79<sup>99</sup>**

## 133 COLOUR NOTEBOOK

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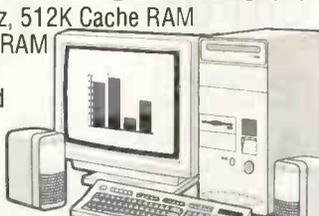
## KODAK DC20 CAMERA

Pocket size digital camera, 493 x 373 resolution, 1Mb RAM, fully automatic exposure with focus free lens, weighs 150g and measures just 4" x 2.5" x 1". Great software package inc PowerGoo & PhotoEnhancer. **£59<sup>99</sup>** Kodak list £170.



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## 15 PPM LASER



### XEROX 4215/MPR

HP PCL 5 & PostScript, 4Mb, 300 dpi, 400 x 800 enhanced, 35 Adobe fonts, dual bin. **£399<sup>99</sup>**

## FUJI NC-3D



### AUTOCHROME PRINTER

Enprints (A6) size from digital cameras or any TWIN device, inc PhotoDeluxe, list £399. **£149<sup>99</sup>**

## 1200 x 600 DPI



**BROTHER HL760 LASER PRINTER** Windows GDI & HP PCL5e, 1Mb RAM, 6 ppm, 49 scalable fonts, Grade A Brother refurb. **£179<sup>99</sup>**

## DAEWOO 486



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## INSURANCE

### PCs fully covered

An insurance scheme launched last month provides a fallback for people who fear buying PCs from smaller dealers. Users pay from £50, depending on the price of their PC, for a guarantee that they will be able to get faulty machines repaired, even if the vendor goes bust.

**The scheme, Insured Warranties, was launched by the Personal Computer Association, which represents some UK vendors. Executive Director Keith Warburton said that all too often, companies with little or no track record advertise PCs with a three- or five-year guarantee which is worth nothing if the supplier goes bust. "Even if the seller provides on-site service through a third-party maintenance company, the customer is unprotected if the maintenance company goes out of business too."**

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PCA 01763 262987

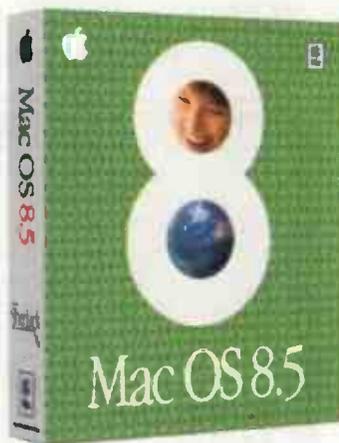
## OPERATING SYSTEMS

# New MacOS fights off NT

Apple, buoyed by news of its first profitable quarter in four years, has launched a major upgrade to its operating system with features clearly designed to stave off the threat from Windows NT in its traditional graphics markets.

The move to Mac OS 8.5 from the current version 8.1 represents a far greater jump than the previous move from version 7.5, according to product manager Jonathan Ferman.

**Leading the new feature** is an extended Finder module, called Sherlock, which operates both locally and across the internet. On the user's PC (if Apple's hype



is to be believed) it operates as a powerful text retrieval tool, indexing every word in documents in your hard disk and responding to natural language queries. It will also summarise documents.

**Sherlock** will also put the same query to a series of search engines, ranking the responses in terms of relevance.

Yet, perhaps more important to Apple's future, are features designed to help professional users, many of whom have been drifting to the Wintel platform. Network performance has been improved and

Applescript extended to enable automation of almost any routine operation, including cross-application tasks. This brings it into line with the kind of thing you can do with Visual Basic for Applications.

## Off the record

A problem with most fax-modems is that your PC must be switched on for you to receive data and messages. Some models have got around this by including

storage for voice and fax calls. Now Lucent has enhanced its Venus modem chipset to make these much easier to manufacture. Implementations from Kortex, Hayes and Paradise are available or are imminent.

-----  
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## Windows gets the network message

Terence Green looks at how **Windows will survive** the inevitable flood of non-Windows devices.

The internet and digital appliances have pushed Microsoft into adopting network computing, but only on its own terms. Its new applications architecture, Windows DNA, is prepared for the inevitability of a proliferation of devices which don't run Windows.

Given the number and variety of emerging models, from handhelds through screen phones to digital TVs and set-top boxes, not even Microsoft could come up with enough operating systems to cover the waterfront. Accordingly, at October's Microsoft Professional Developers' Conference (PDC 98) in Denver, Bill Gates entitled his keynote speech "Building Windows-based Applications for the Internet Age".

By this, he meant Windows applications for non-Windows devices. Your screen phone, say, may not run Windows, but Microsoft can still get it to front an application running on a remote Windows NT (or Windows 2000, as the next version is to be called) server. The enabling technology is Windows Distributed interNet Applications (DNA) architecture, which turns the presentation, execution and data access layers of Windows applications into distributed components.

The core technology of Windows DNA, COM+, is available only on Windows NT and likely to remain that way. However, because the presentation component can speak HTML, the *lingua franca* of the internet, it can display on any client. Windows DNA is a smart move as it protects Windows investments by redefining the Network Computer as NT-dependent.

An earlier attempt to co-opt the NC for Windows, the NetPC, entirely failed to excite interest. However, customer reaction to another network computing technology, Windows Terminal Server, really set the bells ringing at Microsoft. Windows Terminal Server is a Unix-like multi-user system for Windows NT, developed for Microsoft by Citrix. It is technically complex but simple in

concept: run the application on Windows NT and transmit the screen display to the client, thus enabling any machine to "run" Windows applications.

Terminal Server is the graphical-screen version of the old text-based dumb terminal. Gates called it "fantastic" but noted that it is aimed at users who "have worked with terminals in the past". Microsoft's real problem with Terminal Server is that it owns only the code that enables Windows clients to access the server. Citrix owns the code for all other clients: devices supported by its MetaFrame add-on include Macs, Unix clients, web browsers, Java-based clients and Windows CE handhelds. In fact, Citrix was at the conference displaying Windows NT 4.0 on a Sharp Mobilon TriPad, which was itself running the new Windows CE Professional Edition for

larger-format handhelds and accessing Citrix MetaFrame over a high-speed Proxim wireless connection. If the thought of

Microsoft Office running on a Windows CE handheld gives you a hot flush, call Citrix now. However, this is not Microsoft's preferred option. Its way of protecting its investment in the Windows API is to create an applications layer tied to the server. Enter the Windows DNA architecture, which it has evangelised for the past year.

PDC '98 was the call to action for developers to begin building Windows DNA applications. Gates described DNA is an n-tier model because you must be free to move the code tiers around in order to accommodate different clients with differing levels of support for the

►NON-WINDOWS DEVICES CAN BE MADE TO FRONT AN APPLICATION RUNNING ON A REMOTE NT SERVER



presentation level. You may even want to run all tiers on a single computer as in the case of a Windows PC. This would please Microsoft the most. As soon as you separate the tiers, Windows NT Server comes into play, as Gates demonstrated with a laptop running a sales order application. The user experience was the same whether or not the laptop was connected to the network. The application validated customer numbers and checked product details exactly as it did when network-connected.

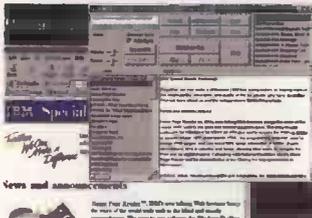
Queued Components, the technology that makes this possible, enables disconnected asynchronous working thanks to the store and forward technology of Microsoft Message Queue Server which, together with Microsoft Transaction Server and Microsoft Common Object Model (COM), comprises COM+.

Since Microsoft Transaction Server and Message Queue Server only run on NT, Windows-based applications will be entirely NT-dependent. This is smart footwork by Microsoft because Windows programmers will flock to DNA and thereby ensure the future of NT. Some will criticise Windows DNA simply because it emerged from Microsoft, but it's hard to disagree with the value of network computing, as the emergence of Windows DNA acknowledges.

**It's hard to disagree with the value of network computing**

## short stories

**IBM GUIDES THE BLIND**  
IBM has created the equivalent of a guide dog for blind internet users. The IBM Home Page Reader, which uses Netscape Navigator 4.05 in Windows, reads



HTML text as well as links, frames and tables. It is the first product of its kind that is compatible with the latest plug-ins and also accepts voice commands through IBM's ViaVoice software. The browser reader goes on sale this month for US\$149 and can be ordered from IBM's special needs systems page.

[www.ibm.com/sns](http://www.ibm.com/sns)

**VIRGIN KIOSKS**  
Virgin Megastore customers now have the chance to surf the web in-store after they pick up a CD or video. Virgin Net is installing internet kiosks in 40 stores across the country that will allow customers to watch music webcasts and celebrity visits, and take part in exclusive competitions. Virgin says that its filtering software should keep children from accessing inappropriate sites.

[www.virgin.net](http://www.virgin.net)

**ART AUCTION**  
An art and antiques dealing company has launched an online-only service that lets collectors bid on lots from auction houses around the world. Interactive Collector is offering items as varied as Titanic memorabilia and photographs taken by film star Richard Gere, with prices ranging from \$80 to \$34,000.

Going... Go!  
[www.icollector.com](http://www.icollector.com)

## TRAVEL

# Sun rejoins the browser business

Sun is getting back into the browser business, announcing plans to revamp its Hot Java to ensure there is at least one browser on the market that is fully Java compatible. Prompting the action, to some extent, was Netscape's decision earlier this year to postpone development of its Javagator browser due to lack of resources [see story, below].

Scott Ryder, product manager for Sun's web product line, said the update will give corporations a

worthy alternative to Microsoft's Internet Explorer. "Because the browser market continues to solidify around Microsoft, companies that are in the solutions business or the content business face a serious risk," Ryder said. He claimed that Microsoft is configuring its browser to drive traffic to its own sites.

He added that the current product from Sun, Hot Java 1.5, is not positioned to target the commercial browser market. Instead, Sun has targetted the Java

browser for OEMs and developers to bundle with their own web-enabled devices and applications.

Early in 1999 Sun will reportedly roll out a revised version of the product, featuring support for cascading stylesheets, Dynamic HTML, email, newsgroups, and Real Audio and QuickTime. Today's Hot Java lacks these capabilities.

JOHN GERALDS, VNU NEWSWIRE

[www.sun.com](http://www.sun.com)



## By George, it's Bill

Don't be alarmed if you get Bill by mistake the next time you pop George's CD into the stereo. MSN is hoping to boost its audience numbers by embedding software links to its site in music CDs by major label artists such as George Michael. His greatest hits album, which was released in November, also has links to Hotmail.

## Domain names

The internet domain name registry system will likely be run by an international, non-profit organisation when Network Solutions' contract expires next year. The Internet Corporation for Assigned Names and Numbers

(ICANN) has elected an international team to lead the transition, appeasing the EU's fears that the US would dominate the process. ICANN hopes to agree on a system for creating new domain names as soon as possible.

## Communicator and Explorer get a facelift

Netscape is steaming straight ahead with the launch of the beta of Communicator 4.5, seemingly undeterred by the failure of Javagator, the ill-fated Java browser it killed off last summer.

Communicator 4.5 features Smart Browsing, which lets users type only a few key words into the address bar (such as Manchester United FC) in order to be taken directly to the desired site. It also displays a list of related sites.

The new beta also has a new version of Netscape Messenger, its high-speed email

product, and comes with pre-installed software such as Flash and RealPlayer.

The first public beta version of IE 5.0 has also been unveiled. Microsoft says the new browser's Intellisense features, such as automatically correcting common URL errors, will make it much easier to use. Content providers, such as the New York Times and Bloomberg Financial Markets, can now import content straight into a separate pane in the browser.

[www.netscape.com/uk](http://www.netscape.com/uk)

[www.microsoft.com/windows/ie](http://www.microsoft.com/windows/ie)

## Sony aims Hi in the superfloppy stakes

Clive Akass looks at the **latest contender in the race** to provide a successor to the floppy disk.

**S**ony joins the long-running battle of the superfloppies this month with the launch of its HiFD drive, which reads new 200Mb disks as well as 1.44Mb floppies. The company hinted at a future multi-capacity drive that will read capacities from 1.44Mb to 600Mb.

The HiFD is bound to renew interest in a successor to the traditional floppy, although the first version is unlikely to shake the world. It's a sluggish £149 (inc VAT) parallel-port model aimed at people wishing to upgrade a PC, or to add storage to a notebook.

More interesting is a much faster (*see panel*) bootable HiFD, scheduled for early next year, which will probably use an EIDE bus daisy-chained from a hard disk. Sony will try to persuade PC makers to use this instead of a standard floppy. Iomega's 100Mb Zip and the 120Mb SuperDisk LS-120 (aka the A: drive) have been fighting for this market for more than three years. The slower LS-120 got off to a poor start with BIOS

problems, but is being fitted in an increasing number of new PCs. It can read standard floppies and is made by three of the biggest names in the business — Imation, Mitsubishi and Panasonic, and so can match Sony's brand strength. PC makers can buy an LS-120 for

### The HiFD drive reads 200Mb disks as well as 1.44Mb floppies

as little as £32, and save £12 or so on the cost of a standard floppy, so it adds only £20 to a machine's total cost. The Zip costs little more but cannot read floppy disks.

HiFD product manager Mari Oda said Sony "aimed to be competitive" with these prices with its internal model, which will also be made by ALPS and Teac. She also said a notebook-ready thin version is in the pipeline. "And this technology has a lot of headroom. We can double and even triple the capacity." The first HiFD models will not read these high-density disks.

Marcus Heap, Imation's European LS-120 business development manager,

doubted if Sony could make a HiFD cheap enough to challenge the LS-120 because its two-speed step-motor made it inherently more expensive. "We can also produce drives with much higher capacities and we will do so if there appears to be a demand. But we have concentrated on bringing down costs because that is what PC makers want."

Iomega's Zip might seem to have won the battle for market share, despite its lack of backwards compatibility. It is a must-have in many offices because the cartridges have become a common exchange medium. Yet some believe the Zip has come close to saturating its natural market as an easy upgrade option. Heap quotes IDC figures indicating that Zip sales fell from 360,000 in the first quarter of this year to 309,000 in the second, while LS-120 sales rose from 118,000 to 177,000. Sales have since been further boosted by a new slim model that is being fitted to an increasing number of notebooks, Heap claims.

There is a warning for Iomega in its own history. It wiped the floor with Syquest with the Zip at a time when rival Syquest drives were seen as a *de facto* standard. One industry insider said: "Market share is no guarantee of success. It gives you a two-year edge. That is all."

### Incidentally...

At the other end of the storage scale, Danmere (016606 74330) has introduced a £25 infra-red add-on to its Backer back-up system (*left*) that uses a PC to control a home video-recorder as a backing-up device.

## RIVAL

# 4

## drives



### Floppy drive

Slow (60Kb/sec). Cheap, about £12 each in bulk. Will survive until fast comms makes an easy task of swapping 1.44Mb.



### Zip drive

Comes in IDE, SCSI and (soon) USB versions. Internal kits cost as little as £64 inc VAT. Cannot read floppies but are now an established exchange medium. Iomega 0800 973194



### Sony HiFD

Parallel-port HiFD transferring 200Kb/sec launches this month. Bootable internal version, due in the new year, has a claimed transfer rate of 3.2Mb/sec. Disks cost £11 inc VAT. [www.sony.com](http://www.sony.com)



### SuperDisk LS 120

Internal kits from £57.57. Data transfer rates vary but generally slower than the Zip. 120Mb disks cost from £9 inc VAT. USB version imminent. Imation 01344 402200



► BACK UP YOUR DATA WITH THE BACKER INFRA-RED SYSTEM



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*"Their investment in infrastructure has matched their high volume growth; in particular we would like to recognise the emphasis they have placed on their Customer Service and system reliability. The winner is MESH."*

Jonathan Ross,  
Personal Computer World Awards, 1998



RUNNER-UP  
SERVICE AND  
RELIABILITY 1998

*"It is obvious that MESH support staff are dedicated to providing a service that the Customer demands. They clearly demonstrate a professional approach in striving to maintain their existing high standards"*

Tony George, Customer Services Manager,  
VNU Business Publishing



MESH are delighted that our investment in service has resulted in a strong performance in this year's Reliability and Service Awards from PC Pro and Microsoft.

In answer to the question "Would you buy from MESH again?", four out of five people said "Yes". We maintained our strong reputation for reliability: "PCs from MESH exceeded average reliability by a clear margin". - PC Pro Dec 1998

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*MESH are now offering an incredible Five Year Service package with all systems and a range of additional options, for complete peace of mind*



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Award winning products with excellent service at competitive prices

Amazing Value Workstation  
with 4.3Gb Hard Drive

High Power Multimedia & Internet,  
with printer and scanner

Now with 333MHz processor

Now with 17" monitor



**PC PRO**  
VALUE  
PC Pro  
July '96

"When we saw the high specification we called MESH to confirm it hadn't made a mistake. Excellent value for money"



**VALUE**  
**PC Plus**  
PC Plus  
January '98

"MESH continues to put together high-value PCs with all the right ingredients, including impressive performance"

## MESH Elite Professional

- Intel® 440BX AGPset - *upgradeable to 450MHz*
- Intel® Celeron® Processor 333MHz, with 128k cache
- 64Mb Ultra Fast SDRAM
- 4.3Gb Ultra DMA Hard Disk Drive
- 8Mb Matrox Productiva G100 AGP Graphics Card
- 15" ADI SVGA Digital NI Colour Monitor
- 14/32x Speed CD-ROM Drive
- Free Software: Lotus SmartSuite 97



• Windows 98, 1.44Mb 3 1/2" floppy disk drive, 105 key Windows keyboard, **new web cruiser mouse** & pad are shipped as standard with all MESH computers

Processor		Excl.VAT	Inc.VAT
Intel® Celeron® 333		£699	£821.33

## Upgrades

<b>Memory</b> 64Mb SDRAM to 128Mb SDRAM	<b>£50+VAT</b>
<b>Hard Disk Drives</b> 4.3Gb Ultra DMA to 6.4Gb Ultra DMA	<b>£40+VAT</b>
6.4Gb Ultra DMA to 8.4Gb Ultra DMA	<b>£45+VAT</b>
8.4Gb Ultra DMA to 12Gb Ultra DMA	<b>£65+VAT</b>
<b>Monitors</b> 15" Taxan 550 .28mm to 17" Taxan 735 TCO99 .28mm	<b>£105+VAT</b>
15" ADI ProVista .28mm to 17" Taxan 735 TCO99 .28mm	<b>£145+VAT</b>
17" Taxan 735 .28mm to 17" ADI 5GT Trinitron .25mm	<b>£50+VAT</b>
17" ADI 5GT Trinitron .25mm to 19" ADI 6P .26mm	<b>£100+VAT</b>
17" Taxan 735 .28mm to 19" ADI 6P .26mm	<b>£150+VAT</b>

## MESH Elite Connect 333

- Intel® 440BX AGPset - *upgradeable to 450MHz*
- **New** Intel® Pentium® II Processor 333MHz
- 64Mb Ultra Fast SDRAM
- 6.4Gb Ultra ATA DMA Hard Disk Drive
- Hercules Terminator "GLH" 128/3D 8Mb-AGP Graphics Card
- **17" TCO92 SVGA .28mm Monitor**
- 14/32x Speed CD-ROM Drive
- Creative Labs Audio PCI 64V
- **New Lexmark 1100 Printer**
- **New UMAX Astra 610P Scanner**
- Stereo Amplified Speakers
- Latest 56Kbps Voice Fax Modem with Pipex Internet Access\*
- Free Software: Lotus SmartSuite 97



Processor		Excl.VAT	Inc.VAT
Intel® Pentium® II 333		£999	£1173.83

<b>DVD</b> CD-ROM Drive to 20X speed DVD-ROM Drive	<b>£55+VAT</b>
<b>Speakers</b> Labtec speakers & subwoofer	<b>£70+VAT</b>
<b>Soundcards</b> From Creative PCI 64V to <b>New</b> Creative SoundBlaster Live	<b>£99+VAT</b>
<b>Warranty</b> Upgrade to 12 month on-site Ask about our extended warranties	<b>£41.70+VAT</b> <b>£Phone</b>
<b>Storage</b> Add an amazing ATAPI based 100Mb Iomega Zip Drive to your new MESH PC. This special price also includes 1 Zip disk	<b>£79+VAT</b>

\*Personal finance prices shown are for illustration purposes and are subject to status. Please call for details and a quote. Insured courier delivery within mainland UK £29+VAT. If goods are refused without inspection then a handling charge of 25% of the total invoice will apply. These offers supersede all previous offers. Industry standard practice is to measure monitors using the CRT size. Actual viewing area can be approximately 1" less. Box shots are shown for illustration purposes only. Pipes is a pre-loaded trial version only - full registration costs vary, unless otherwise specified. our Fax/Modems are HSP - designed to run under Windows98. Components used may differ from those shown.

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# "Stunning"

Personal Computer World - April '98

Now even faster  
Intel® Pentium® II Processor  
**333MHz**



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year  
**2000**  
Compliant

"MESH has trumped all other contenders with this machine - a stunning configuration. The whole package screamed class right from the start. Good points: too many to list here. Superb value for money.

**Performance** ★★★★★  
**Value for money** ★★★★★  
**Overall Rating** ★★★★★

Our Editor's Choice award goes to a machine that was head and shoulders above the others. Machines with specifications like this set the standards for other manufacturers and ensure that you

don't need to have won the lottery to get your hands on very desirable kit. MESH won by a mile."

**PCW Editor's Choice - April '98**



"Impressive performance and stunning value shows that MESH still knows how to put together a top notch system.

**Performance** ★★★★★  
**Value for money** ★★★★★

This is absolutely stunning value, the MESH performed extremely well in our benchmark tests. This is a very fast PC at an astonishing price."

**PC Pro - April '98**

## MESH Elite Professional PII 333M

- Intel® 440BX AGPset - *upgradeable to 450MHz*
- 333MHz Intel® Pentium® II Processor
- 14/32x Speed CD-ROM Drive
- 64Mb Ultra Fast SDRAM
- 8Gb Ultra DMA Hard Disk Drive
- 8Mb 128/3D AGP Hercules Terminator
- 15" Digital SVGA Colour Monitor
- Creative Labs Audio 64V Sound Card
- 50W Stereo Amplified Speakers
- *New* Web Cruiser Mouse
- 56Kbps Voice/Fax modem
- Pipex Internet Access\*
- Lotus SmartSuite 97

All MESH computers are shipped with Windows 98, keyboard, and pad

**FREE Lifetime Telephone Support**

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Pay the whole amount by credit card or cleared cheque. **Total Price = £938.83**
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OR 10% deposit and pay nothing for 6 months. Then **£33.19/month (26.9% APR)** for 36 months. **Total Price = £1288.72**

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The Experienced  
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New 17" Taxan 735 TCO99 monitor

Multi-award winning PC  
with 17" Trinitron monitor

Now with 128Mb RAM



PC Pro  
August '97

"Superb mix of performance and features at a stunning price. If you're looking for the best value high power PC, then this is it"



PC Advisor  
January '98

"The Pegasus is ridiculously good value. Armed to the teeth with features... excellent performance... extremely attractive price."

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## MESH Elite Titan

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- 64Mb 100MHz High Performance SDRAM
- 8.4Gb Ultra DMA Hard Disk Drive
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- **NEW** 17" Taxan Ergovision 735 TCO99 Monitor
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- Creative Labs Audio PCI 64V
- Stereo Amplified Speakers
- Latest 56Kbps Voice Fax Modem with Pipex Internet Access\*
- Free Software: Lotus SmartSuite 97



## MESH Elite Pegasus

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- 12Gb Ultra DMA Hard Disk Drive
- Matrox G200 8Mb AGP SD Card
- 17" ADI Microscan 5GT Trinitron TCO95 .25mm Monitor
- Iomega 100Mb Zip Drive and Disk
- New 17/40x Speed CD-ROM Drive
- Creative Labs Audio PCI 64V
- Stereo Amplified Speakers
- Latest 56Kbps Voice Fax Modem with Pipex Internet access\*
- Free Software: Lotus SmartSuite 97



Processor	Excl.VAT	Inc.VAT
Intel® Pentium II® 350	£999	£1173.83
Intel® Pentium II® 400	£1099	£1291.33
Intel® Pentium II® 450	£1225	£1439.38

Processor	Excl.VAT	Inc.VAT
Intel® Pentium II® 350	£1199	£1408.83
Intel® Pentium II® 400	£1299	£1526.33
Intel® Pentium II® 450	£1425	£1674.38

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\*Pay over three years. Finance example based on £999+VAT: 10% deposit (£117.80) and then pay £30.58/month for 36 months. Total Price £1499.80 (19.9% APR). Personal finance prices shown are for illustration purposes and are subject to status. Please call for details and a quote. Insured courier delivery within mainland UK £294+VAT. If goods are returned without inspection then a handling charge of 25% of the total invoice will apply. These offers supersede all previous offers. Industry standard practice is to measure monitors using the CRT size. Actual viewing area can be approximately 1" less. Box shots are shown for illustration purposes only. Pipes is a pre-loaded trial version only - full registration costs vary, unless otherwise specified, our Fax Modems are HSP - designed to run under Windows95. Components used may differ from those shown.

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# Lights, camera... *action!*

**8Mb Matrox Marvel G200  
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**Creative Labs SoundBlaster  
Live Sound Card**

**£1399**  
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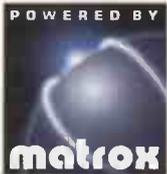


*Christmas Price Crash Christmas*



Fancy yourself as a budding Spielberg, Kubrick or Hitchcock? With the new MESH 350 Studio Pro making movies couldn't be easier.

The Marvel G200 video card offers the most comprehensive, all-in-one graphics solution with acceleration for 2D, 3D, DVD video, hardware MJPEG video editing, PC to TV output, video conferencing, live video capture, and more. It features 8 MB of memory, the MGA-G200 graphics chip, and easy-to-use Avid Cinema video editing software. This all-in-one video card truly does it all!



In conjunction with the amazing Creative Labs SoundBlaster Live sound card the 350 Studio Pro will ensure that Hollywood is only a small step away.

## MESH 350 Studio Pro

- Intel® 440BX AGPset Motherboard  
– upgradeable to 450MHz
- Intel® Pentium® II Processor 350MHz
- 20x Speed DVD-ROM Drive
- 64Mb SDRAM 100MHz
- 10Gb UDMA 7200rpm Hard Disk Drive
- 17" Taxan 735 Ergovision TCO99
- 8Mb Matrox Marvel G200 AGP Video
- Creative Labs SoundBlaster Live\*
- Labtec Speakers and sub-woofer
- New Web Cruiser Mouse
- 56Kbps Voice/Fax modem
- Pipex Internet Access\*
- Lotus SmartSuite 97, Photo Express, Tonic Trouble, PC-VCR Remote, Avid Cinema.

All MESH computers are shipped with Windows 98, keyboard, and pad

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Five Year Service

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Pay the whole amount by credit card or cleared cheque.  
**Total Price = £1399**

2

**Six months interest free credit\***  
10% deposit then pay the balance after 6 months (0% APR)  
**Total Price = £1399**

3

**Pay over Three years\***  
10% deposit and then pay **£45.74/month (19.9% APR)** for 36 months. **Total Price = £1786.54**  
OR 10% deposit and pay nothing for 6 months. Then **£49.46/month (26.9% APR)** for 36 months.  
**Total Price = £1920.46**



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# Doesn't it annoy you when something doesn't meet its promises?

Every Christmas we find new ways to hide our disappointment. It shouldn't be like that with your Internet service. This is one time you should always get exactly what you want.

So if you're offered an Internet service so slow it takes all day to get anywhere, or the provider throws in so much pointless content that it takes you too long to find what you need, maybe it's time to think again.

Take a look at Direct Connection. We only provide a fast, reliable and economical Internet service. You get unlimited email addresses, enough space to build a proper Web page and excellent technical support. That's why most of our business is from personal recommendation.

So, if you'd like an Internet service you'll want to use again and again, call today on 0800 072 0000, email us at [info@dircon.net](mailto:info@dircon.net) or visit [www.dircon.net](http://www.dircon.net)



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- Internet access at local call rates
- Global roaming
- Microsoft Internet Explorer 4.0
- 7 day-a-week technical support

Call today on  
**0800 072 0000**



## short stories



### ▶ SAVE THOSE CHILDREN

Demon Internet is offering a free guide for parents and teachers about how to navigate the internet efficiently and safely. The guide explains what the internet is, for what it can be used and how to protect children from its more unsavoury elements.

Demon Internet: 0800 027 0127, [www.demon.net](http://www.demon.net)

### ▶ AMAZON IN THE UK

Amazon opened the doors of its online bookstore here in October. The site features nearly 1.5 million titles, including all UK books in print, and offers savings of up to 40 percent off high-street prices. The site replaces the UK-owned Bookpages.

[www.amazon.co.uk](http://www.amazon.co.uk)

## E-COMMERCE

# It's e-trade or bust, says report

E-commerce will spur economic changes as radical as those caused by the development of the printing press, a leading analyst has claimed.

Furthermore, he claims, businesses which do not seize potential ecommerce opportunities will be driven out of the market by their leaner, electronically-based competitors.

Robin Bloor, CEO of Bloor Research, made his comments at the launch of the report *"eRoad: Everything you always wanted to know about ecommerce but were afraid to ask!"* He says that businesses have to realise which way the economic tide is turning. "If your business is being undermined by the internet, you won't get a second chance," he said. "You'll be blown out of the water."



ROBIN BLOOR,  
CEO OF BLOOR RESEARCH

Bloor pointed out that virtually every business transaction can be made more cheaply over the internet. Whereas an airline ticket costs up to \$8 to process through a ticket agent, it costs only \$1 when it's booked on the web. Eventually, he predicts, the development of an electronically-based economy will drive the world toward one set of technical standards as well as one currency.

"Standards will prevail because the web cannot tolerate competing standards. XML will win, and at the end of the day, Microsoft and Netscape will collaborate on a browser," he said. "There will also be a battle for supremacy between the Euro and the dollar. The only thing that could stop it is the people with guns and cruise missiles. If it's up to the economy, it will be one world."

• **Analysts Frost & Sullivan** have also predicted that the European ecommerce market will experience "colossal growth" in the next six years. Not only will revenues skyrocket from US\$36m in 1997 to \$8bn by 2004, it claims, but consumer internet users will shoot from 9.9 million to 44.9 million in the same period.

## Student action on the net

### InfoYouth

The UK guide to opportunities for young people

#### CAREERS

**PAT TUC** Find out about different vocations and careers. Type in career keywords, read info on screen and find relevant Web sites

#### EDUCATION

**Unis** Find universities by clicking on the subject areas they offer or their location - then view their complete prospectus on InfoYouth or click to visit their Web site.

#### GAP/ACTIVITY

Find out about different Gap year ideas and after college activities. Type in keywords to locate the right organisations.

The site also features online discussion groups where students can chat to each other about university, career and gap year issues.

Sixth-form students can now get help choosing the best course and university from a web site designed by a first-year undergraduate. InfoYouth, which is aimed at 16-24-year-olds, provides electronic university prospectuses as well as information about various career and gap year opportunities from more than 40 organisations.

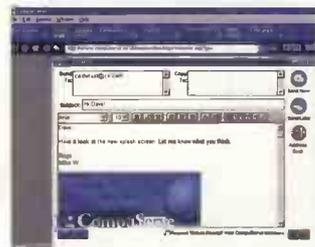
[www.infoyouth.com](http://www.infoyouth.com)

## CompuServe into 2000

CompuServe's next-generation client software has entered beta testing and will be available early this year, claims the company.

CompuServe 2000 will provide access to CompuServe's new service, featuring enhanced content including a PA newsfeed and the Instant Message online chat program.

CompuServe 2000 has a very similar look and feel to AOL 4.0. It will use HTML to display its online content for the first time. Users get five email addresses,



enhanced email functionality and the Contact List, which tells users when their friends are online. There are still a few bugbears, though. There's no offline reader and no immediate plans to support CE or provide a Mac version.

CompuServe says it will continue to support any users who are unwilling or unable to upgrade.

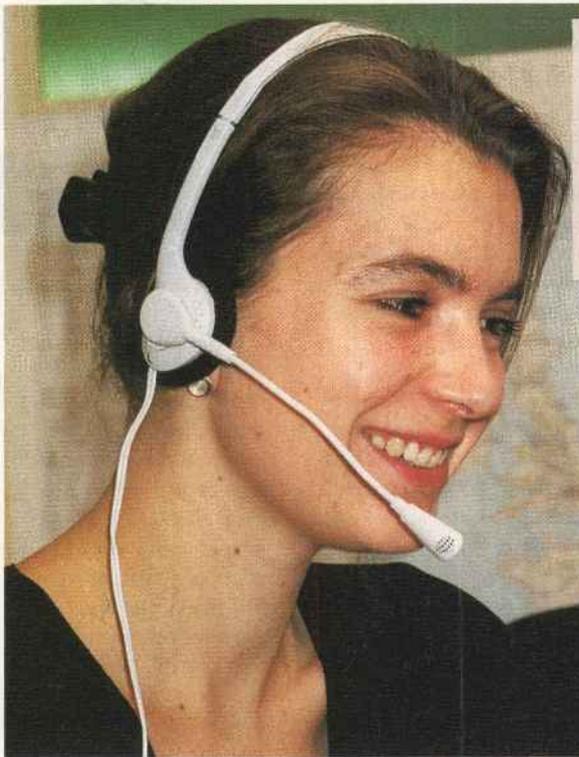
## Take IT from those in the know

Phoenix, Arizona is where the big IT honchos **outline their future plans**. Tim Bajarin was there.

**T**he annual Agenda event at Phoenix, Arizona, brings together heads and other top executives of companies which are shaping the future of the IT industry and the internet. You can rub shoulders with Intel's Andy Grove, Oracle's Larry Ellison, Compaq's Eckhard Pfeiffer, Gateway's Ted Waitt, and Steve Forbes, chairman of *Forbes Magazine*. This is perhaps the only conference where such heavyweights not only speak, but also sit in the audience and take notes.

**I spent some time** with Andy Grove, who has turned his role as Intel's president and CEO over to Craig Barrett and now serves only as chairman. But he told me he is as busy as ever, putting all his energy into strategic planning and extending Intel's product reach beyond the traditional PC. He says he has fully recovered from prostate cancer, and supporting the search for a cure for this disease is the only non-Intel project he spends any time on. In his Agenda 99 speech he announced two key programmes that will impact Intel products. He showed a live demo via satellite of what he calls microsurgery, a technique for speeding up development times by drilling through multiple layers of silicon to fine-tune microcircuits. This, and Intel's 0.18 micron technology, will push 32-bit chip speeds up to 900MHz by mid-2000.

Grove hinted that the same technology would make 64-bit chips much more powerful. He also showed some of Intel's new multiple-processor configurations, such as a 16-way system running various operating systems including tBeOS, NT, Unix and Linux — emphasising the fact that Intel is expanding its horizons beyond Microsoft's visions.



◀ **LONDON MARKETING AGENCY RANIER RECKONS IT HAS CUT INTERNATIONAL CALL COSTS BY 75 PERCENT USING INTERNET TELEPHONY; CISCO CHAIRMAN JOHN CHAMBERS PREDICTS SUCH VOICE-CALL CHARGES WILL FALL TO ZERO WITHIN FIVE YEARS**  
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years. By contrast, Steve Forbes said the Asian crisis heralded some dangerous times for world economies over the next few years. Bad bail-out deals which ignored fundamental problems meant various Asian economies will struggle for some years. He feared the potential collapse of Russia, and Asia's problems will soon spread to South America. But he, too, remained bullish about the net economy. Forbes ran for president in 1996 and his speech was so politically correct that I suspect that he

plans to run again in 2000.

The other key Agenda 99 theme was information appliances. Many spoke about the development of these devices for use within the home and stated this is where the next standards war will take place. Bill Joy, co-founder of Sun and a key developer of Java and Jini, echoed this sentiment and showed how Jini is the proper control software layer for any information appliance.

**Notably absent** at this year's conference was Bill Gates. Gates normally attends, sitting at the back and taking it all in. He then serves as the final speaker where he talks about Microsoft's goals for the next year. The conference took place on the first two days of the Department of Justice trial and he probably stayed away from the media at the conference and its attendees who could ask him some very difficult questions.

Agenda continues to be the premiere event for the PC industry, and considering the high-level executives who attend each year, it appears to be the main place to set our industry agenda each year for a long time to come.

**Cisco chairman** John Chambers pointed out how the new networks will integrate voice and data, with voice calls making up 15 percent of internet traffic (pictured here). He predicted that within five years voice calls will be free. He also said education will never be the same again. The "knowledge worker" will have to learn five to ten new skills a working

lifetime and will thus regard learning as a lifetime experience. He called for schools to put new emphasis on teaching how to learn. A programme he has established in one school could be widely

adopted, he said. It seems schools who install networks find they cannot afford to run and maintain them. Chambers set up a course to teach pupils to do the work, which means the school gains and the kids can get work straight from school.

Chambers also predicted a rapid globalisation of business over the net which will level the playing field for all companies in an online market worth between \$1 and \$2 trillion within seven

### *The Asian crisis heralded dangerous times ahead*

## short stories

### INTERNET TELEPHONY

A European internet telephony operator says it is unlikely to offer services in the UK because our telephone charges are too competitive. Teledirect is offering a phone-to-phone IP telephony service for corporate networks and consumers in Spain, Hungary, Switzerland and Italy which gives savings of up to 80 percent on international calls. But it says the UK's deregulated telecoms market would make it impossible for it to compete here.

### ETI CONSORTIUM

Petrol pumps and vending machines could soon be hooked up to the internet if a new initiative takes off. The Embed the Internet (ETI) consortium, which includes Sybase and SAP, aims to connect non-PC devices to networks, allowing remote control and monitoring. A number of different companies have announced products for such devices, including Emware, whose Emit software can connect 8-bit and 16-bit machines while using as little as 1Kb of memory.

### NET MUSIC

## Dancing in e-street

An internet music player accused of promoting piracy has caused a storm of controversy in the US. Now it is set to be released over here.

**Diamond Multimedia** plans to launch the Rio PMP300 in the UK in November. It is a Walkman-like device which stores and plays music downloaded from other CDs or from the internet.

The Rio has been denied a smooth entry into the market, however. Recently, the Recording Industry of America (RIAA) sought an injunction against Diamond, saying that the device would lead to an increase in piracy and would cost them billions of dollars in lost sales. The suit was rejected by a US federal court and the RIAA is now appealing. The case is being watched closely because it will likely set an international precedent about the legality of such devices.

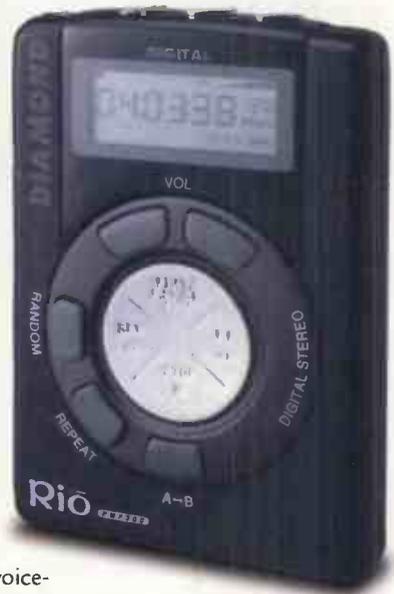
Diamond Multimedia has now teamed up with four other companies to push the

MP3 format and educate consumers about music piracy.

Neil McGuinness, Diamond's PR manager for Northern Europe, said: "We're actively looking to promote legal MP3. But piracy is a problem no matter what medium you're using, whether it's cassettes or CD-writers."

The Rio uses the MP3 internet music format and can store up to 60 minutes of digital-quality music and up to 16 hours of voice-quality audio. Because it has no moving parts, music will not skip during playback. Add-on flash memory storage cards are also available. Diamond says it has already received a great deal of interest in the device, which will likely cost around £175 (inc VAT) retail.

• **Another firm, Empeg,** which is based in Somerset, also plans to release an internet music player in time



for Christmas '98. Unlike the Rio, it is designed for car use only and can store 35 hours of music downloaded from the internet. The player will cost around £699 and is expected to be sold over the net only.

Samsung Electronics was expected to release a portable MP3 music player in the US before Christmas, despite the injunction against Diamond Multimedia.

SUSAN PEDERSON

## Yell Top 10 web sites

1. Harper Collins [www.fireandwater.com](http://www.fireandwater.com)
2. Grooverider [www.grooverider.com](http://www.grooverider.com)
3. Cluedo [www.cluedo.com](http://www.cluedo.com)
4. Ninja Tune [www.ninjatune.net](http://www.ninjatune.net)
5. Boddingtons [www.boddingtons.com](http://www.boddingtons.com)
6. Egg [www.egg.co.uk](http://www.egg.co.uk)
7. Standard Life [www.standardlife.co.uk](http://www.standardlife.co.uk)
8. Selfridges [www.selfridges.co.uk](http://www.selfridges.co.uk)
9. Richer Sounds [www.richersounds.com](http://www.richersounds.com)
10. ASH [www.ash.org.uk](http://www.ash.org.uk)



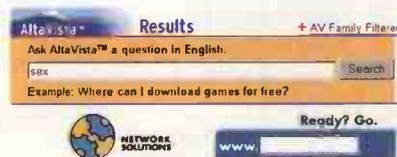
Will you be making any New Year resolutions in 1999? I'm planning to raise a glass of Boddingtons and waste my money downloading all those classic TV ads from [www.boddingtons.com](http://www.boddingtons.com). By 'eck, you do smell gorgeous tonight, petal!

## Take a closer look

AltaVista has revamped its search engine to make it easier for net users to find what they're looking for. The three main search techniques are now all combined on the starting page as AV Full View Searching. Users can make an index or directory search, or try a question-and-answer search where they can pose a question in plain English and get one

or two most relevant answers. It also features the handy AV Photo Finder as well as the AV Family Finder, which, it claims, will filter out potentially offensive sites while you're making a search.

[www.altavista.com](http://www.altavista.com) or [www.av.com](http://www.av.com)



AltaVista found 11,417,090 Web pages for you.

## TOP 10 PICKS Last month

### Peripherals

1	3Com 56K V90 Voice/FX Ext	3Com	3
2	UMAX Astra 610p	UMAX	1
3	UMAX Astra 1220p Scanner	UMAX	2
4	P75 To P200MMX Evergreen	Evergreen	4
5	MS Wheelmouse PS2/Serial	Microsoft	5
6	Tashika 56K Internal Modem	Tashika	-
7	SoundBlaster Live PCI	Creative	12
8	Mitsumi PS/2 Mouse	Mitsumi	8
9	Tashika 56K Flex External	Tashika	6
10	UMAX 1210p	UMAX	36

### Windows software

1	MS Encarta Ref Suite 99	Microsoft	-
2	Masterclips 150,000 Clipart	IMSI	4
3	OfficePro+Bookshelf U/G	Microsoft	5
4	Windows 98 UG CD	Microsoft	2
5	Partition Magic 4.0	POW	-
6	Norton Systemworks v1	Symantec	45
7	Office 97 STD C/MUP UG CD	Microsoft	6
8	MS Visual Studio Edu CD	Microsoft	12
9	Partition Magic 4.0 U/G	POW	-
10	MS Student Win98/NT U/G	Microsoft	14

### DOS software

1	Turbo Pascal v7.0	Borland	1
2	Norton Commander V5	Symantec	27
3	Turbo Pascal v7 DOS Educ	Borland	2
4	MS DOS v6.22 Upgrade	Microsoft	3
5	Turbo C++ v3.0	Borland	-
6	FSFX Upgde For MS Flight Sim	Microsoft	4
7	Macro Assem V6.11 Win/DOS	Microsoft	32
8	NetWare v5 Server	Novell	-
9	TAS Books Payroll	Megatech	-
10	IBM PC DPS v7	IBM	-

### CD-ROMs

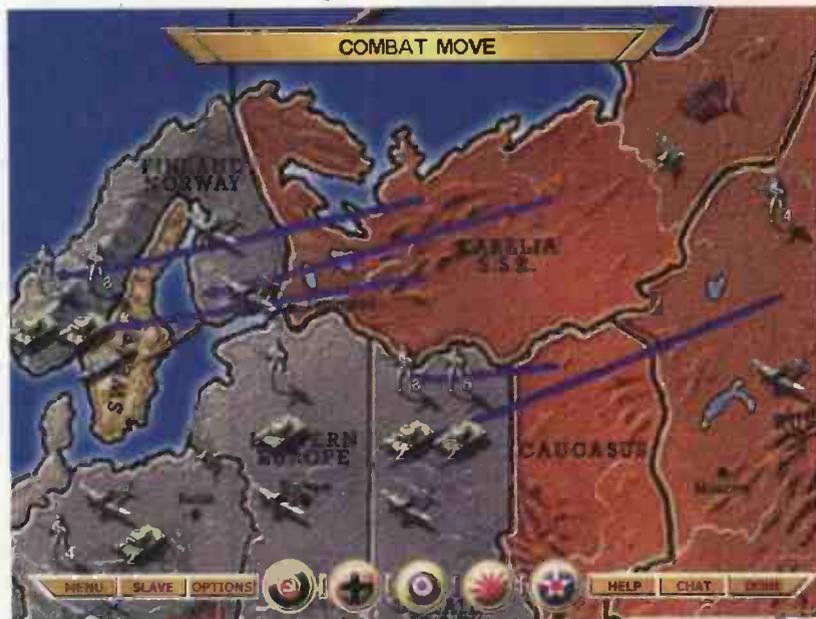
1	Star Wars: Behind The Magic	Lucas Arts	-
2	Hip Hop eJay	Fast Trak	-
3	Dogz 2	Mindscape	-
4	Catz 2	Mindscape	-
5	You Don't Know Jack	Take 2	-
6	Rave eJay	Fast Trak	2
7	Dance eJay	Fast Trak	1
8	Anastasia	Fox Interact.	-
9	Geoff Hamilton's 3D Gdn Des.	GSP	-
10	Lie Detector	United Inter.	-

### Games

1	Cannon Fodder	Sold Out	2
2	FA Premier League Mgr 99	Gremlin	1
3	Rainbow Six	Take 2	5
4	Star Trek: Klingon Honour Grd	Micropose	-
5	Championship Mgr 2.97/98	Eidos	9
6	Caesar 3	Sierra	-
7	Age Of Empires	Microsoft	-
8	Theme Hospital: Classic	Bullfrog	10
9	Titanic: Adventure Out of Time	Europress	-
10	Dune 2000	Elect. Arts	7

Games and CD-ROM figures supplied by HMV. Others from Software Warehouse.

# Axis and Allied forces clash on your desktop



Hasbro Interactive is moving into strategy gaming. Its latest release, **Axis and Allies**, is a CD-ROM version of the classic WWII board game. Players enter the fray in 1942. As a world leader, you have the power to change the course of history as you wage a battle for supremacy and global domination. Plan strategic bombing raids, submarine attacks or a major invasion by land, sea and air, while protecting the economic status of your nation. **Axis and Allies** is out now, priced £39.99.

The latest release from Sierra has just hit the shops. **Viper Racing** is a driving simulation featuring one of America's fastest sports cars, the Dodge Viper. Players earn money during their driving "career" to upgrade their cars and can eventually drive the monstrous Viper GTS-R. By competing in more than 20 races, drivers work their way up through four different classes in the Viper Racing League, gradually earning more than 40 different Viper upgrades. **Viper Racing** costs £39.99.

Eidos Interactive is the producer of the new **Michael Owen's World League Soccer '99** game, and it looks set to be a hit among football lovers. The game features more than 190

teams from ten different leagues, covering major soccer territories worldwide.

Owen's actual moves are incorporated, having been recorded by a motion-capture animation system, and commentary is provided by Peter Brackley and Ray Wilkins. Out in the shops now, it's priced at £39.99.

Continuing the Second World War theme, Microsoft is due to launch an addition to its Close Combat series. **Close Combat III: The Russian Front** puts you in command of either the Red Army or the Germans in the Eastern Front struggle of WWII. Players try to out-fight their opponent while keeping their troops alive. They begin as lowly commanders, managing unit upgrades and maintenance, and attempt to advance in rank and gain more troops and equipment. It will be available from the end of January.

ETELKA CLARK

Games featured in Screenplay (p306) this month: *Lose Your Marbles*, *Reah*, *Lie Detector*, *Combat Flight Simulator*, and *Quake II* and *Age Of Empires* expansion packs.



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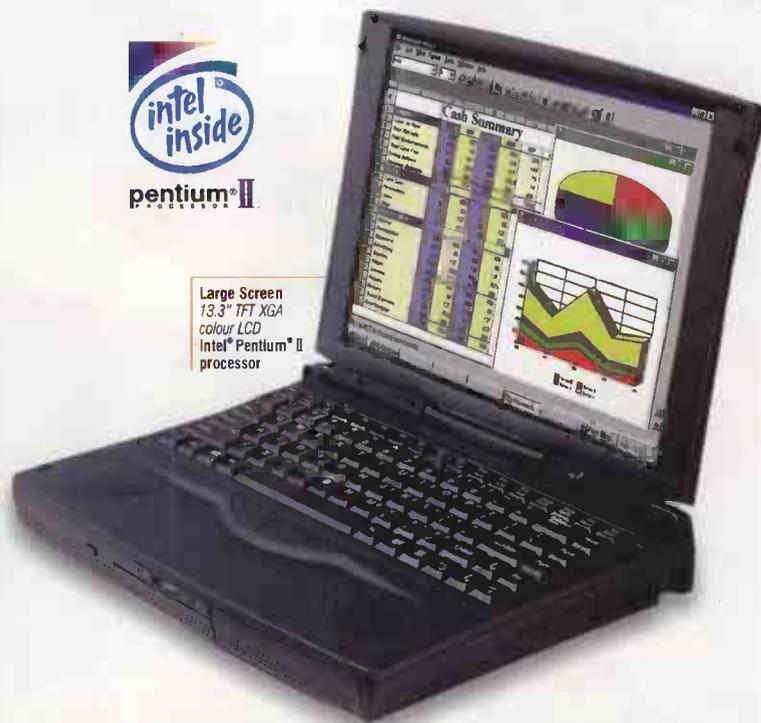
The latest, affordable, multimedia portable!

# The Ultimate Notebook

Editors' Choice PC Magazine, March 1998



Large Screen  
13.3" TFT XGA  
colour LCD  
Intel® Pentium® II  
processor



The winner, time and again: The Notino AS6000 range keeps on collecting the industry's most prestigious awards. PC Magazine's "Editors' Choice" "the ultimate now, ...and with simple plug-in upgrades,...(it) will continue to be the ultimate notebook". PC Direct's "Best Buy" "a well-specified notebook that gets even better with the Intel® Pentium® II processor. Ideal for use on the move or as a desktop replacement, this is a notebook worth looking at'.

NOTINO AS6266-2	NOTINO AS6300-2
Mobile Intel® Pentium® II processor 266MHz	Mobile Intel® Pentium® II processor 300MHz
Intel® mobile module specification	Intel® mobile module specification
Intel® 440BX PCiset	Intel® 440BX PCiset
512K pipeline burst cache	512K pipeline burst cache
48Mb SDRAM exp. 144Mb	80Mb SDRAM exp. 144Mb
4Gb removable hard disk	6Gb UDMA removable hard disk
13.3" TFT XGA colour LCD	13.3" TFT XGA colour LCD
2Mb 128-bit SVGA graphics Optional upgrade to 3D 4Mb SVGA extra £75 + VAT	ATI Rage LT PRO 3D 4Mb 128-bit SVGA graphics
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ClipperCom™ 56K World data/fax modem with GSM support	ClipperCom™ 56K World data/fax modem with GSM support

#### Standard Notino AS6000 features

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**Y2K** All Hi-Grade products advertised above accommodate the rollover to the year 2000. System hardware controlling time and date functionality will remain unaffected. However, customers must ensure that the software they are running is also 2000 compliant.

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Hi-Grade  
Notino AS6000-266  
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Notino M2000  
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May 1998  
Hi-Grade  
Notino M3000  
Hi-Grade Computers



November 1997  
Hi-Grade  
Aston PV2 200  
January 1998  
Hi-Grade  
Aston PV2 233  
Hi-Grade Computers



June 1998  
Hi-Grade  
Aston PV2 233  
November 1998  
Hi-Grade  
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Intel® 440LX AGPset	Intel® 440LX AGPset
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	TV Tuner with teletext

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- 1 joystick port • 1 microphone port • line-in • line-out • 105-key keyboard
- 2 button PS/2 mouse • Windows 95/98 • Norton Anti-Virus & Anti-Crash software • 1 year on-site warranty for labour and parts.
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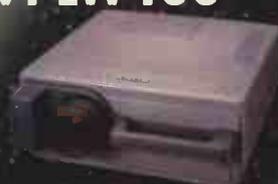


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4.4kgs

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In the Big Apple, Michael Hewitt finds **keeping in touch** from his hotel room as easy as pie.

# Start spreading the news



A few years ago I wrote a book called *Travels with a Laptop*. A seminal work, its impact on portable computing was almost as great as that of *The Joy of Sex* on the semiconductor manufacturing industry. The trouble was, it came out just

a couple of years too late. My *œuvre* described the problems involved — and there used to be many — in lugging a laptop around the world and hooking up its modem to foreign telephone systems. It was all about attaching acoustic couplers to handsets, modem transmission protocols, gratuitously vandalising your hotel's skirting boards in order to get at concealed phone wires, and all sorts of other horrible, technical stuff. Unfortunately for my royalty-cheque prospects, between writing the thing and its publication there was a quiet revolution: laptops suddenly went from being jokey executive fashion accessories into practical, workaday tools; comms software became idiot-proof; and hotel bedrooms worldwide started offering dedicated data ports, and more besides.

**Take, for example,** my room here at the Waldorf Astoria (he said, casually, in a doomed attempt to persuade the Inland Revenue that by writing about it in a computer magazine, it would become a tax-deductible business expenditure rather than just a holiday). There are so many data ports in the wall, it looks as if I've got a bad infestation of rather energetic termites. There's also a modem in case my computer hasn't got its own. If I haven't got a computer, I can ring down to room service and they'll have the latest Pentium Pro sent up to me. And as for finding an internet service provider, well, this is New York: if I want it, there's probably even a pastrami-flavoured one out there somewhere, with extra mayonnaise. But as it is, I've come prepared with an AOL account, which, with a couple of clicks, allows me to connect to a freephone 800 number, thereby avoiding silly hotel phone surcharges (and in this hotel they are *really* silly, believe me).

**The point is, sending an email** message back home — which, just two years ago, would probably have been a Herculean task — has become about as difficult as finding your own backside in the dark. (Less so actually, because in the case of errant backsides, there's no

24-hour helpline number you can call.) Indeed, sending a mere ASCII email message is nothing at all. I've been doing a lot more besides. This morning, for instance, following in the footsteps of King Kong, I went to the top of the Empire State Building. My visit, although somewhat less eventful than his, nevertheless gave me the opportunity to take lots of photographs with my digital camera. Likewise my visit to the Statue of Liberty later in the day. Back at the hotel, I transferred the pictures to my laptop, incorporated them into a web page, and uploaded it to the internet. Then I sent lots of "click on this" messages to friends and colleagues. *Et voilà*, instant, interactive, electronic postcards. And because the new version 4 of AOL allows the service to act as a regular ISP, I was also able to Telnet into CiX and get my Demon email via POP3. As well as the usual internet-type things, like finding a good bar in the vicinity.

**Indeed, these days** you're not simply limited to the terrestrial telephone network. My plane coming over, a Virgin Atlantic 747-E, was equipped with a Skyphone on every seat. Swipe a credit card through one of those, and courtesy of a geostationary Inmarsat satellite, you can

**As for finding an internet service provider, well, this is New York: IF I WANT IT, THERE'S PROBABLY EVEN A PASTRAMI-FLAVOURED ONE SOMEWHERE, with extra mayonnaise**

talk to someone virtually anywhere on the planet while you're airborne. Skyphones in first class have RJ-11 data ports, allowing executives to plug in their laptops and go online. Mind you, at just 9600bps and a cost of \$9 per minute, you probably wouldn't want to download too many Pamela Anderson .gifs. Then again, if you can afford first class, the price probably doesn't bother you unduly. Inevitably, though, rates will tumble and speeds will increase such that, very soon, we'll all be netsurfing at 40,000 feet.

So, a book about travelling abroad with a laptop now has all the "must have" and "couldn't put it down" appeal of one about, say, the trials and tribulations of buying an adapter plug for your electric shaver. Now, perhaps that's an idea I could put to Remington...

Mike.hewitt@mjh1.demon.co.uk

# Protect your workstation this Christmas

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### Selection Table

#### APC Back-UPS Series

Application	Model / VA Rating	Typical Runtime
Desktop Pentium w/14" Monitor	Back-UPS 300MI	8 minutes
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Desktop Pentium II w/17" Monitor	Back-UPS 650MI	22 minutes

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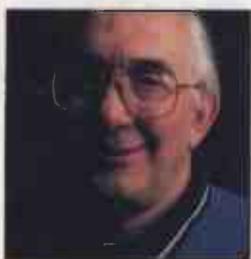
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PERSONAL COMPUTER SYSTEMS

Net fraud is on the up. Barry Fox wonders whether **those in charge** are doing enough about it.

# E-asy money



CompuServe's MD, Martin Turner, dismisses the launch of Dixons' Freeserve as "an irrelevance". He's backed up by his European boss, Konrad Hilbers. Says Turner: "We cannot see what impact Freeserve will have on

CompuServe, except to encourage more people to join us for a better service. We're the first choice of the busy professional and discerning consumer. We're making a strategic bet that customers will continue to pay for the better service our infrastructure offers."

**Whatever Turner and Hilbers** may like to dream, Freeserve leaves me wondering why I pay CompuServe £6.50 a month for an email address, £2 an hour for extra time and why I'd even consider paying £18 a month for unlimited access. By offering free internet access in return for a personal mail order profile, Dixons has rewritten the rules of internet marketing. As the company's Chief Executive, John Clare, puts it, "shops don't charge customers an entrance fee." But be warned,

Freeserve is not a panacea. It makes itself the default for IE4, ousting other ISPs like MSN. Users will then need skill or help to restore their original settings. And, as I know to my cost, once you have started to install Freeserve, it's already too late to quit. Although Freeserve offers ISDN dial-up, Clare's techies have still not made it work with the Ignition terminal adaptor that BT flogs to its ISDN and Highway subscribers — a clumsy omission. Yet, if nothing else, Freeserve is already encouraging others to cut the cost of access. CompuServe is re-launching next year with a new service, CompuServe 2000, and Konrad Hilbers admits it may be cheaper. Astonishingly, neither company provides access from Windows CE handhelds. More importantly, the system remains wide open to insidious abuse: so much has originated from Russia and Bulgaria that all access from those countries has been closed.

**When new users sign up** for their free month's trial period, they're quite legitimately asked for personal billing details and credit card number. Over the next few days they may receive a message which purports to come from CompuServe (e.g. Marion Miller, Accounts Manager) saying there are "problems with your account" and asking the subscriber to send an email form with all

their billing details again. It's all very plausible, especially to someone new to email and the internet. But of course, there's no Marion Miller at CompuServe, and the details wing off to an unknown fraudster. Turner acknowledges "new users are bombarded with spam". He's aware of the scam, but says "there's nothing we can do to stop this; there are some pretty shrewd people out there, but it's fraud and our security group tries to track them down". Yet CompuServe cannot quote me a single case of prosecution. Turner says the fraudsters choose addresses at random. But this is unlikely, as new users are targeted. Parent AOL knows that fraudsters send scam requests for billing details, but they're received at random and not targeted at "green" users.

**I checked one recent target** and found their name was not in CompuServe's Member Directory. So, the fraudster didn't get the address that way. CompuServe uses a number-based subscriber system, with names only added as aliases. If fraudsters can detect the latest numbers issued to new subscribers, by signing up for a free month's trial, noting their own numbers and predicting the next batch, they can send scam emails to

**'...there are some pretty shrewd people out there, but IT'S FRAUD AND OUR SECURITY GROUP TRIES TO TRACK THEM DOWN'. Yet CompuServe cannot quote me a single case of prosecution**

new subscribers. They can then close their account and use any received banking details to set up another one.

**So if CompuServe** is allocating new numbers in a predictable sequence, no wonder new members are being targeted even before they're listed. If number allocation is random, to hinder prediction, then the fraudsters must be hacking into CompuServe's database. In a clammy official statement, CompuServe states it "avoids providing addresses that can be easily identified". But this is a nonsense, because CompuServe provides a member's directory. It goes on to reassure me that "we employ strict security measures [and] take proactive steps to prevent spamming and misuse of the service". Well, that's all right then.

100131.201@compuserve.com

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Brian Clegg wonders whether our schools are **placing the right emphasis** on computer education.

# Think of the children



It's knee-jerk time. Computers in schools? Great. It gets our young people ready for the real world. But is it a good thing? (For that matter, are schools there to get people ready for the real world? Anyway...) Let's travel back to the Stone Age.

When I was a lad, computing didn't exist. Actually, that's not true; but it might as well have been, because there weren't any microcomputers and Littleborough County Primary School didn't run to a mainframe. Similarly, my illustrious grammar school hadn't even a calculator (it was, however, hot on slide rules). That's where I got my introduction to computing, though. We punched cards by hand, bundled them up, and posted them to a London university. A week later, a listing came back, showing a punching error in the second card. With luck, you could get a program running at least once a term.

**This might have been extreme**, but it was preparation for real life. Out in the business world there was quicker turnround, and you could punch your cards by machine (or have them produced by the punch room). Even so, the basics were the same. Now let's skip forward. As micros emerged, computers started to penetrate primary education. Now there was a conflict of interest. Should we opt for a school computer that was user-friendly, or one that prepared you for the real world? In the US, ease of use (and excellent marketing) won. While business equipped itself with IBM compatibles, American education chose the friendly face of the Mac. In the UK, thanks to politics and cost, we ended up with Acorn's BBC Micro — a typical British compromise that was neither relevant to business nor easy to use.

**Before I get flooded with emails**, I ought to qualify that. The BBC machine was sophisticated when compared with the home offerings of the time, and it came out a couple of years before the Mac. But it locked the early years of our educational system into a backwater from which it is only now escaping. When you see how five-year-olds can use a Windows PC, there's little argument for going any other way now, and PCs are at last taking over; but software remains an issue.

Not software for teaching maths or spelling, but the software that introduces computing itself. Here, the traditional values of buying British and not worrying about the real world still hold sway.

**I've recently been sent** a package called ToonTalk, made by Logotron, a British software house specialising in software for education. ToonTalk is a programming language, letting youngsters learn the rudiments of controlling a computer using an on-screen construction set with the help of a friendly robot. ToonTalk is brilliant, and adequately covers modelling and control, two requirements of the curriculum. Admittedly, my junior-school teacher friend initially found it slow going, but her pupils are now getting on well. And ToonTalk is great, seen just as a modelling tool. But it's certainly not preparation for the world, since the vast majority of those children won't be programming computers.

**So what's missing** from computer education? How about starting with the basics of handling, like putting CDs in without getting fingerprints all over them. Then

**Acorn's BBC was sophisticated when compared with the home offerings of the time, BUT IT LOCKED THE EARLY YEARS OF OUR EDUCATIONAL SYSTEM INTO A BACKWATER from which it is only now escaping**

the ABC of Windows, understanding how to interact with the user interface to get things done. How to explore menus and help systems, all done in a jolly, fun and games fashion, of course. If we can ensure that our children's natural instinct to explore is used in the right way, they'll never need training in Word or Notes when they get older — it will come naturally. As for programming, if we must teach it, then why not use something as universal as Visual Basic? Those crafty UK educational software houses could build nice add-ins to make VB even easier, though even without it, eight-year-olds are capable of writing programs, are learning a lot about control, and are gaining a useful skill into the bargain. By the time they get to work, VB may not be in existence, but it's a better bet for the basis of future development environments than a construction kit.

Brian@cul.co.uk

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Paul Smith mourns the passing of one of the seminal characters of internet development.

# Your number's up



If you had to name one guru of the internet, who would it be? Marc Andreessen, the first person to corner the market in web browsers (and vowels)? Tim Berners-Lee, who invented the worldwide web? Or big, bad Billy G, who just owns the

whole thing? Me, I would probably vote for Jon Postel, except that he has just excluded himself from the running by dying. Postel, who was 55, just looked the part, with his t-shirt, long straggly hair and wild, frizzy beard. Postel almost single-handedly invented and, until his death on 16th October from a heart attack, controlled the single most crucial element of the whole internet: the numbering system.

**Someone once told me** that, when you type in an address such as, oh, say, [www.paulsmith.com](http://www.paulsmith.com), the internet has no direct way of knowing where that site resides. Instead, it is translated from a URL into a number of the form 123.456.789.012 by a directory naming service (DNS) server. Well, that naming system is what Postel started way back in the sixties. He also spent his spare time administering another important part of the internet, the "request for comments" (RFC) system of designing and amending net standards. Actually, that's not fair. The "Numbers Tsar" devoted his whole life to what has become the key technology of the decade. He also did it without much reward; while lesser people around him created fortunes out of nothing, Postel stuck to his hippie roots and foreswore excessive payments. His real spare time was spent outdoors, backpacking around Yosemite National Park in California.

**Recently, Postel had been in the news** a fair bit as the United States prepared to open the naming system to a more international body. Actually, Postel helped keep the system pretty much the way it was, but with a new name. One of the big problems is that there's much more demand for names than there are cool names left. The best ones are already taken. Obviously, [www.paulsmith.com](http://www.paulsmith.com) has gone. Someone else has got [www.paulsmith.co.uk](http://www.paulsmith.co.uk), [www.lard.com](http://www.lard.com), [www.buttsville.com](http://www.buttsville.com); even [www.becausewecan.com](http://www.becausewecan.com) has been taken. And there have been suggestions of new top-level domain names, such as .firm for firms' sites, .sex for sex sites and

.dom for dom sites. These are, by and large, silly. So I propose a new set of root domain names. For example, .mine for sites that are mine. Obviously, there would also have to be a .yours, for your sites. I also think there should be a .pants, because there are so many sites that are, frankly, pants. Actually, we shouldn't have URLs at all. They're not uniform, most sites aren't that resourceful, and while they may help computers locate them, they sure don't help humans. I mean, who was it that thought adding "www." to the beginning and ".com" to the end of all these names was going to be helpful, anyway? It was probably that Postel bloke, who's got a lot to answer for, in my book.

**Here's a warning.** In a rare and exceptional lapse, I am about to provide you with some information that could actually be construed as useful. Regular readers of this column should avert their eyes... now. I've recently discovered a couple of Internet Explorer 4 tips I thought I'd pass on. Now, to pre-empt the standard "everyone knows that" response which all tips are, by law, required to generate from 25% of readers, let me just say that I didn't and it's my column, so there.

**I propose a new set of root domain names. For example, .mine for sites that are mine. There should also be a .pants, BECAUSE THERE ARE SO MANY SITES THAT ARE, FRANKLY, PANTS**

OK, Tip Number One. You know that if you just type in a single word in the address box, IE4 will search for the site with different prefixes and suffixes, right? Type in "buttsville" and it will search for "www.buttsville.com", then "www.buttsville.org" and so on. You can, however, change this order to include, for instance, "www.buttsville.co.uk", by opening the Registry and editing the HKEY\_LOCAL\_MACHINE\Software\Microsoft\Internet Explorer\Main\UrlTemplate thingy. Tip Number Two. If you're sure it's "www.something.com" site, just type in "something" and hit Ctrl+Enter. Cool, eh? Don't tell the people who shut their eyes. OK, everyone, you can look again. And I promise not to be useful again.

[www.paulsmith.com](http://www.paulsmith.com)

# letters

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## BITS AND PCs

I totally agree with John Newbury (*Letters, PCW December 1998*). I don't see why an operating system could not come on a ROM chip. You say it would be too expensive, but my Nintendo 64 Banjo Kazooie cartridge holds 128Mb of data and it loads instantly when I hit the power button, and I'm not certain, but I think the Zelda64 is supplied on a 256Mb cart. So why does Microsoft not just deliver its OS on a cartridge that slips in to your PC? **STEPHEN FUSI**

[stephen@fusi.force9.net](mailto:stephen@fusi.force9.net)

**PCW replies >** 'Fraid not, Stephen. The console industry talks of bits, not bytes, so your 128-megabit game is in fact only 16 megabytes in size. Secondly, as mentioned in last month's *Letters*, operating systems such as Windows 98 require fairly sophisticated virtual memory managers which often tie up large amounts of hard-disk space at a time. The closest you're going to get to Windows on a ROM is CE in a handheld.

## LETTER OF THE MONTH

### OLDER AND WISER OAPCS

I wish to comment on the article "Old PCs" (*PCW September 1998*) and hope I can persuade you to ask your staff to research and write also about "Old PC Users" like me: seniors, increasingly meaning anyone over 50. Throughout the world, as governments, health services and banks progressively reduce their human presence and go online, seniors who need to access these services, but are computer shy, become increasingly disadvantaged. At the very least, older people can easily become isolated and a burden for their family and society, whereas the world of email and newsgroups can open up new horizons for them — see [www.seniornet.org](http://www.seniornet.org) among many others. On the other hand, computer-confident seniors with retirement funds and time on their hands can become a sizeable

#### Gordon Laing replies >

*Despite having January 1999 on the cover, this is effectively our Christmas issue and Graham's sentiments seem particularly appropriate. If only I could get my techno-shy parents online: you'd have thought the years of buying me a variety of British home computers as I grew up would have cured their aversion to PCs! While I try to persuade them over the turkey and stuffing to change their minds, we hope you enjoy using your new Taxan 17in monitor. Merry Christmas!*

market for all manner of hardware and software (and computer magazines). 1999 is the United Nations International Year of Older People. So following up on your article, may I suggest a report along the lines of encouraging readers to pass on their old 386 to grandma and teach her how to write her memoirs. At this time of the year it will solve a Christmas-present problem and then all she needs is an internet connection for her birthday.

**GRAHAM DEAN**  
[deangr@pipeline.com.au](mailto:deangr@pipeline.com.au)

## SMALL BUT PERFECTLY FORMED

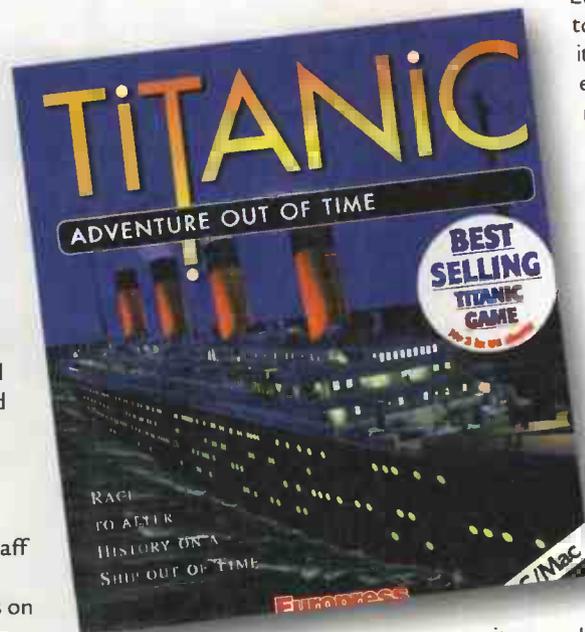
With regard to December's Star Letter about encouraging young programmers: shipping "Windows BASIC" with PCs might be a start, but there is one further barrier between children and programming. If you've ever watched a five-year-old trying to play any kind of PC game, let alone program, the first thing you notice is that they are just too small to handle the mouse or keyboard properly. Perhaps one reason that so many children hacked away at their Spectrums and ZX81s was that the membrane keyboards, hateful for adults, were just the right size, and with the keywords you didn't even need to type that much anyway. Perhaps the programming language built in to the Psion and other palmtops with tiny keyboards will be where the next generation of code gurus cut their teeth.



**BEN CURTHOYS** [bcurthoys@artifaxsoftware.com](mailto:bcurthoys@artifaxsoftware.com)

## EUROPRESS LEISURE NOT SUNK WITH TITANIC

In the Newsprint section of your December issue, you incorrectly reported that "there'll be no more games from Europress". In February, Europress will launch Rally Championship '99. It simulates the Mobil British Rally Championship and includes a wealth of new features including photo-realistic tracks modelled on real-life environments, unique new object realism and texture animation, multiple track options and virtually limitless multi-route environments. Secondly, you stated that Titanic - Adventure Out Of Time and Championship Rally "had disastrous effects on the company's profit margins", which led to it axing a third of its staff and pulling out of the games market. Wrong again! Our Rally brand has topped the charts on four continents with RAC Rally Championship. Titanic - Adventure Out Of Time is, at the time of writing, at number three in the ChartTrack best-seller charts and also achieved the number one position in the PC Data charts. Far from losing money, it has been — and still is — an outstanding financial success.



Europress recently decided to place more emphasis on its leadership in the education and lifestyle markets which did lead to a reduction in staff on the games front, but this was a strategic change of direction and certainly not because of losses from such blockbusting successes as Titanic. Although the emphasis has changed, there is no doubt that we will still produce good-quality entertainment products. Europress has been investigating a financial investment package to further accelerate its growth, but it has certainly not been forced to "sell off a slice of its equity" because of losses on Titanic and Championship Rally. I hope this makes Europress' situation clear.

**DON LEWIS, MARKETING DIRECTOR, EUROPRESS**  
donl@europress.co.uk

## RETRO RESOLUTION

Simon Collins (*Retro, PCW October 1998*) states that the Commodore VIC-20 was capable of 300x200 colour graphics, multiple sprite levels and had a MIDI interface. Although the Commodores were indeed good platforms (and I should know, I still run two VIC-20s), the most I have ever squeezed out of a VIC's resolution is 128x224, and achieving four colours simultaneously reduces the horizontal resolution by half. The later models had sprite capability, but the VIC certainly does not. The C64 may have had the resolution stated, having more columns. However, as far as I know, none of the models have ever supported MIDI. Certainly the VIC-20, C16 and C64 models did not, because I had to make my own interface for the VIC-20s. The Amiga, too, requires a hardware adaptor in order to be MIDI compatible.

**DL BORRELL** [templarsr@aol.com](mailto:templarsr@aol.com)

## FINN-ISHED PRODUCT

In a PCW October news piece about the Linux operating system you reported that the creator of Linux is a Danish youngster named Linus Thorvald. In fact he is, and has always been, a citizen of Finland, and created the core of Linux while studying at the University of Helsinki in the early 1990s. After graduating he moved to California to work for a new high-tech company there. You must have received many corrections about this one, but I felt my duty as a Finn to make this absolutely clear.

**JAAKKO WALLENUS** [jaako.wallenius@pp.inet.fi](mailto:jaako.wallenius@pp.inet.fi)

**PCW replies >** *You're absolutely right, Jaakko, and as some sort of compensation, please find part one of a new three-part Linux Workshop in our Hands On section, starting on page 242.*

## GIANT OF A MACHINE

Can you explain why Colossus, lurking around at Bletchley Park, which uses valves and GPO mechanical relays as switches, which has no memory, and which feeds data in via punched paper tape, can decrypt Enigma code, at the very least, ten times faster than a Pentium 75? There was an article in *New Scientist* on the subject some months back, where they also concluded that Colossus was the first parallel-processing computer, beating everyone else to the post by a whopping 50 years. Any comments? Or, even better, when Colossus gets up and running, could you do one of your comparison tests? Now that would make interesting reading!

**SAM CHAPMAN**  
[samuel.chapman@cableol.co.uk](mailto:samuel.chapman@cableol.co.uk)

**Clive Akass replies >** *The so-called "bombes", which were mechanical predecessors to Colossus, could also beat a Pentium, according to the current Bletchley director. Both the mechanical and electronic computers worked as fast as they did because they were designed for a particular task, as opposed to a Pentium which is a general-purpose computer. Their logic was hard-wired and would these days be integrated onto a custom chip, doing their task considerably faster.*

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# ...right to reply



**In last month's PCW we went undercover, buying PCs from ten different manufacturers. This gave us an excellent opportunity to test not only the PCs themselves but also the sales and technical support services offered by the companies — in other words, the service you, the buyer, might well receive from these firms. This month, we give those same ten companies the right to reply, as they voice their opinions of our findings. Here is what they have to say.**

## FROM: ARMARI

Armari has traditionally specialised in building high-end, custom workstations for the professional, creative and development market. Hence our customer base has primarily been the more experienced PC user, which is why our systems may lack the more basic setup documentation. Our machines are shipped in a "plug in and go" state, and our help-desk engineers are happy to assist first-time PC owners through the basics. However, *PCW's* undercover buying review provides us with excellent feedback of how we can improve our products and services. We are working on an easy-to-follow setup guide to assist first-time or less experienced users, which will be ready in time for December's Christmas buyers.

DAN GOLDSMITH, TECHNICAL DIRECTOR  
ARMARI LTD

## FROM: EVESHAM MICROS

Just as Evesham Micros takes feedback from its customers very seriously, it is good to see that a respected magazine is making such an effort to ensure that its readers have an accurate picture of the companies to which they entrust their hard-earned money. Your review has given us the opportunity to publicly congratulate our Technical Support team on their excellent performance, even under difficult circumstances. Given that Evesham was in the minority in offering an on-site visit by an engineer, we think your piece has strengthened Evesham's position as a company that offers more than just well-priced equipment. The products are supported by people who care about their customers and their needs. We were only sorry that you didn't highlight the two-year free on-site warranty and the fact that the technical support advice is a free-call number. We were a little concerned that it took so long to actually sell you a PC, but given that the entire company of 250 staff had just moved into our new headquarters over one weekend, we weren't entirely surprised! We look forward to taking part in next year's test.

CAROLYN WORTH, PR  
EVESHAM MICROS

## FROM: DELL

We were delighted to win the Highly Commended award for both PC System and for our Technical Support. It was great to see our excellent support staff receive recognition for their hard work. While the test is based on a one-off experience, we believe that is an important independent benchmark and indicative of the quality of our customers' general day-to-day experience with Dell.

There are a number of issues, raised in your article, which I would like to clarify. We believe that a 17in monitor is now an entry-level display. We offer this at the same price which many of our competitors charge for a 15in display. In the unlikely event that a customer wishes to opt for a 15in, the cost saving is £35 and not £17 as stated in your article. The configuration your caller selected was a business bundle. Speakers were not included as standard but could have been purchased as an upgrade option.

Since the test was conducted we have introduced a standard three-year service offering on Dell Dimension systems. We remain focused on our customers and will continue to drive initiatives and programmes to further enhance their experience of doing business with Dell.

ANNETTE CONDON, PRODUCT PR MANAGER  
DELL UK AND IRELAND

## FROM: GATEWAY

Gateway is delighted to have been awarded your Editor's Choice for Best Sales Service in the *PCW* undercover-buying group test. As a company that listens to our clients and fits technology to their individual needs, it is important that our sales staff offer a high standard of service and technical advice. The *PCW* undercover group test was conducted on a very busy day for us, when President Clinton and Bertie Ahern were signing an e-commerce agreement at Gateway, and we are thrilled that our high standard of service remained consistent. Since the survey was conducted, Gateway has made significant changes to our Technical Support department. These include the introduction of "Virtual Queuing" (computerised call-back) and a review of the number of people allowed to join our conference lines.

JOHN SHEPHERD, HEAD OF SALES  
GATEWAY EMEA

## FROM: DABS DIRECT

I was pleased to see that you found the Dabs PC an "affordable, impressive office machine" at a "very reasonable price". We have recently invested over £2m in a new call centre for our Telesales and Technical Support departments and it was especially encouraging to see your positive comments with regards to our technical staff. Our sales staff are fully trained on an ongoing basis in both product and customer-service awareness. Your comments that "This new assistant...advised us on a number of sensible upgrades such as a BX rather than the LX chipset..." is in line with Dabs' policy of always trying, where possible, to future-proof our PCs rather than to sell the highest-possible-priced PC with today's technology. Dabs Direct plc is fully committed to offering our customers the highest levels of service and value available in the direct channel, and thank you for offering this chance to show this to our customers.

JONATHAN WALL, SALES MANAGER  
DABS DIRECT PLC

# ...right to reply

## FROM: HI-GRADE

We were very pleased to receive the *PCW* Highly Commended award for sales service. At Hi-Grade, good sales technique is not about pushing the most expensive products to every customer, but recommending a system which suits each person's requirements to ensure that every customer is completely satisfied from the outset.

The comments in the Technical Support section were music to my ears, all calls "answered within a minute", with the problems quickly identified and solved over the phone.

ORI YIASSOUMIS, JOINT MANAGING DIRECTOR  
HI-GRADE

## FROM: TINY COMPUTERS

Tiny specialises in providing complete value-for-money solutions for home users and we are proud of the high level of service we provide to our customers. Tiny operates one of the largest helpdesk call centres in Europe with over 150 staff taking 2,000 calls per day. The vast majority are solved on the first call, with average call-waiting time under four minutes. All helpdesk staff receive five weeks of technical training on all aspects of hardware, software and peripherals with ongoing training provided.

The treatment *PCW* received is not typical of that provided to most Tiny customers.

In answer to the specifics raised in your article: the upgradeability you required was not made clear to the sales person who specified the EX motherboard; had you stated you required memory on one DIMM, that is what you would have received. The Epson printer was obviously surplus to requirements but this was not made clear to the sales person, who would have increased the specification to a higher model (thus solving the motherboard expansion issues). The call waiting times were significantly better than those of several competitors (although adrift from our averages of thousands of recent calls) but no account was taken of this. The invented printer problem was solved immediately but little importance was placed on this. The testing of Tiny's helpdesk was inaccurate and statistically invalid. How can two calls fairly represent the ability of the staff? Improvements to our call centre is an ongoing procedure, some of which include more staff, better training, more phone lines, and specialist teams to deal with specific areas (monitor, printers, cameras, etc).

To summarise with "Bad points — everything else" shows extremely poor understanding of Tiny systems: how can the Intel processor, Microsoft Intellimouse, hotkey keyboard and Fujitsu hard disk be bad? This is a very damaging statement and gives inaccurate information to your readers.

JIM BUCHANAN, PR MANAGER  
TINY COMPUTERS

## FROM: MESH

We were disappointed by the outcome of the undercover PCs group test, given our strong recent performance in surveys by other publications. Given the potluck nature of this undercover survey, based on only a few calls, freak occurrences cannot be ruled out. In the equivalent survey last year, our sales team was ranked equal best and our product won a Highly Commended award. We have invested in improving standards of service across sales and after-sales support. We treat customer service as a priority and constantly monitor our standards. We send out customer satisfaction surveys with all the machines we ship. Of the many thousand responses, here are a few results. "At MESH we pride ourselves on producing award-winning computers which offer the latest technology, superb value for money and excellent quality"; 94 percent agreed we had done well or superbly. "We expect our sales team to be friendly, helpful and knowledgeable, assisting you in choosing the right computer for your needs"; 86 percent agreed we had done well or superbly. In addition, 88 percent said they would buy a PC from MESH again. We can only speculate as to why some of our competitors who regularly perform well in service and reliability surveys chose not to agree to take part in this survey. We will continue to make efforts to ensure that we deliver a consistently high standard of customer service. All our systems now come with a five-year warranty package, and our technical support team operates on a call-back basis offering the most cost effective service from our customers' perspective.

PAUL KINSLER, GENERAL MANAGER  
MESH COMPUTERS PLC

## FROM: NEC DIRECT

Our philosophy is to provide a build-to-order service which offers small- to-medium-sized businesses price/performance benefits. When a call is made to us, we establish the business requirements and then supply the right configuration. If a basic office machine is required then we will not recommend a high-spec machine with huge amounts of memory. If there is no need for a modem, we will not offer one as standard.

NEC Direct's technical support is designed for the business user, so we offer next working day, on-site technical assistance as standard.

We do not spend hours on the phone going through possible scenarios when a visit from an engineer usually sorts the problem out in minutes.

COLWYN MUNRO, GENERAL MANAGER  
NEC DIRECT

## FROM: PANRIX

Firstly, we congratulate *PCW* on the effective way it conducted this group review. It is of great worth for the likes of Panrix, to enable us to identify our shortfalls. Since the article, BT has resolved the problems with our newly installed ISDN/call distribution phone system implemented to serve our recent move to larger premises.

Panrix strives to offer the best in the areas of performance, service and reliability. It was therefore very pleasing to be judged "Editors Choice". But rest assured, Panrix is always looking to improve on our very solid position. We will continue to work harder in the service areas to further compliment the positive aspects of Panrix, thereby further assuring your readers to buy with confidence.

SIMON PANESAR, SALES DIRECTOR  
PANRIX

# "..breathtaking"

Personal Computer World Editors Choice award, Atlantic Proteus 450LVD. November 1998.





**£699**

- Intel Celeron™ Processor 333MHz
- Intel® 440EX AGP set
- 128k cache
- 64Mb SDRAM, expandable to 256Mb
- 4.3Gb Ultra DMA hard drive
- ATI® 4Mb 3D AGP graphics engine
- 15" 0.28 SVGA colour monitor
- 32Max CD-ROM drive
- Plug'n'play GM wavetable sound
- 160 Watt (PMPO) stereo speakers
- 56K voice fax & data modem
- Colour Inkjet Printer
- A4 Flatbed Scanner



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- IBM Worldbook Encyclopedia 98
- IBM Viavoice 98 continuous dictation software
- IBM Antivirus 3
- 30 day free unlimited internet access account.

**£699** EX VAT ( **£843.65** INC VAT & DEL )

Personal Computer World magazine describes the Atlantic Proteus PC as a 'breathtaking system' and 'the best of a very fine bunch' when awarding Editor's Choice award to Atlantic in the Nov' 98 'High End PC' group test.

There's never been a better time to buy a new Atlantic PC with our entire desktop range updated with more power features for your money than ever before and DVD drives now standard in many models. Support options extend up to five years parts and labour giving total peace of mind.

In summing up PCW Magazine said "...The Atlantic Proteus 450LVD is a well specced machine with every PC gadget you could hope for..." So turn the page now to find the new Atlantic system that's built to take **your** breath away...

[www.atlanticpc.co.uk](http://www.atlanticpc.co.uk)



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## PANACOM



Atlantic Panacom notebooks are popular with users who need high performance multi-media PCs which are both powerful and portable. Sharp TFT colour screens, ergonomic design and exceptional build quality all weigh in under 3Kg. Mobile Pentium II Processors assure better performance and increased battery life when compared with other notebooks.

### £1149

- Intel mobile Pentium® II Processor 233MHz
- 12.1" TFT Colour Display
- 512k level 2 cache, Upgradable MMO module
- 2.1Gb Ultra DMA hard drive
- 32Mb SDRAM expandable to 256Mb
- Neomagic 128bit 2Mb graphics engine
- Removable 24 Speed CD-ROM Drive
- 3.5" 1.44Mb disk drive
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- Li-Ion 'Smart' extended life battery
- 85 Key Integral Windows® Keyboard
- 2 PCMCIA type II or type III slots
- Zoomed video support
- Infrared IrDA 1.1 communication port
- Weight 2.9Kg • Dims: 299 x 226 x 51
- **SOFTWARE BUNDLE ONE**

	Inc VAT & Del	Per Month
<b>Panacom 233</b> £1149	£1372.40	£43.82*

<b>Panacom 266</b> £1399	£1666.15	£53.20*
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Spec as Panacom 233 with Intel Pentium® II processor 266MHz, 13.3" XGA screen and 3.2Gb hard drive.

<b>Panacom 300</b> £1849	£2194.90	£70.09*
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Spec as Panacom 266 with Intel Pentium® II processor 300MHz, 64Mb SDRAM, 14.1" XGA screen, 4Mb AGP graphics & DVD drive.

## AXIS 300i



The Axis is a good choice for the PC buyer looking for performance multimedia without the price. The Axis finally makes a top quality Internet multimedia PC affordable, providing a generous balance of features to suit home and business users alike. Business users may order the Axis with PCI network card installed - the perfect Windows PC for workgroup environments.

### £499

- Intel Celeron™ Processor 300MHz
- Intel® 440EX AGP set
- 32Mb SDRAM, expandable to 256Mb
- 4.3Gb Ultra DMA hard drive
- ATI® 4Mb 3D AGP graphics engine
- 14" 0.28 SVGA colour monitor
- 32Max CD-ROM drive
- Plug'n'play GM wavetable sound
- 160 Watt (PMPD) stereo speakers
- 56K voice fax & data modem
- Microsoft Windows 98

	Inc VAT & Del	Per Month
<b>Axis 300i</b> £499	£608.65	£19.44*

<b>Axis 333s</b> £599	£726.15	£23.19*
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Spec as Axis 300i with Intel Celeron™ Processor 333MHz, 128k Cache, 64Mb SDRAM, 15" SVGA Monitor & Software Bundle 1.

<b>Axis 333ps</b> £699	£843.65	£26.94*
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Spec as Axis 333s with Colour Inkjet Printer and A4 Flatbed Scanner.

## EPRO 333



Atlantic Epro system offers an array of high-end features with processor speeds up to 400MHz, DVD-ROM, 64Mb high performance SDRAM and 8Mb AGP graphics combine to make the Epro a formidable system for office and home multimedia use.

### £749

- Intel Celeron™ Processor 333MHz
- 128k cache
- Intel® 440BX AGP set
- 64Mb SDRAM, expandable to 256Mb
- 6.4Gb Ultra DMA hard drive
- ATI® Xpert 98™ 8Mb 3D AGP graphics card with DVD-video decoding
- 15" 0.28 SVGA colour monitor
- DVD-ROM x5 drive (32x CD-ROM)
- PCI 64 voice wavetable sound
- 200 Watt (PMPD) stereo speakers
- 56k voice fax & data modem
- Microsoft Windows 98
- **SOFTWARE BUNDLE ONE**

	Inc VAT & Del	Per Month
<b>Epro 333</b> £749	£902.40	£28.82*

<b>Epro 350</b> £849	£1019.90	£32.57*
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Spec as Epro 333 with Intel Pentium® II Processor 350MHz, 17" SVGA Monitor.

<b>Epro 400</b> £949	£1137.40	£36.32*
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Spec as Epro 350 with Intel Pentium II Processor 400MHz, 8.4Gb Ultra DMA hard drive.

\*Monthly payments illustrated are over 36 Months 17.9%APR. 10% deposit required. Other finance options with 0% Buy Now-Pay June 1999 available. Just 10% deposit required, with nothing more to pay for six months, then just pay the outstanding balance, price paid=normal cash price. Further

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# "...breathtaking"

Personal Computer World Editors Choice award, Atlantic Proteus 450LVD, November 1998.

## NEXUS 350

## PROTEUS 400

## SOFTWARE



The Nexus range is based on a coupling of powerful 100MHz Pentium II processor system architecture and generous 128Mb RAM for truly outstanding performance. Nexus systems come equipped with full DVD capability to access the vast amount of CD and exciting DVD based software now available, and is enhanced by superior graphics and audio specifications as standard.

The Proteus offers a high-end feature set to users running the latest multimedia and Internet application software. Utilising Pentium II processors, 128Mb system RAM and third generation DVD-ROM drive, the Proteus represents superior performance and future proofing which will satisfy the most demanding PC power user.

**£949**

**£1199**

- Intel Pentium® II Processor 350MHz
- 512k internal cache
- Intel® 440BX AGP set
- 128Mb SDRAM, expandable to 768Mb
- 8.4Gb Ultra DMA hard drive
- ATI® Xpert 98™ 8Mb 3D AGP graphics card with DVD-video decoding
- 17" 0.28 SVGA colour monitor
- DVD-ROM x5 drive (32x CD-ROM)
- Aureal® A3D™ PCI 64 voice wavetable sound
- LS-120Mb Superdisk™ drive
- 300 Watt (PMPO) stereo speakers
- 56k voice fax & data modem

- Microsoft Windows 98
- **SOFTWARE BUNDLE ONE&TWO**

- Intel Pentium® II Processor 400MHz
- 512k internal cache
- Intel® 440BX AGP set
- 128Mb SDRAM, expandable to 768Mb
- 13.6Gb Ultra DMA hard drive
- Matrox MGA G200 16MB AGP graphics card with DVD video decoding
- 17" 0.28 SVGA colour monitor
- DVD-ROM x5 drive (32x CD-ROM)
- Aureal® A3D™ PCI 64 voice wavetable sound
- LS-120Mb Superdisk™ drive
- 300 Watt (PMPO) stereo speakers
- 56k voice fax & data modem

- Microsoft Windows 98
- **SOFTWARE BUNDLE ONE&TWO**

		Inc VAT & Del	Per Month
<b>Nexus 350</b>	<b>£949</b>	£1137.40	<b>£36.32*</b>

<b>Nexus 400</b>	<b>£1099</b>	£1313.65	<b>£41.95*</b>
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Spec as Nexus 350 with Intel Pentium® II Processor 400MHz

<b>Nexus 450</b>	<b>£1199</b>	£1431.15	<b>£45.70*</b>
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Spec as Nexus 400 with Intel Pentium® II Processor 450MHz & Matrox MGA G200 16Mb graphics.

		Inc VAT & Del	Per Month
<b>Proteus 400</b>	<b>£1199</b>	£1431.15	<b>£45.70*</b>

<b>Proteus 450r</b>	<b>£1599</b>	£1901.15	<b>£60.71*</b>
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Spec as Proteus 400 with Intel Pentium® II Processor 450MHz, HP 8100i CD rewriter & 19" 0.26 SVGA colour monitor.

<b>Proteus 450LVD</b>	<b>£1999</b>	£2371.15	<b>£75.72*</b>
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Spec as Proteus 450r but with Seagate Cheetah 9.1Gb SCSI LVD hard drive (80Mb/sec) & Adaptec 2940U2W controller and SCSI CD rewriter.

### Bundle One

Microsoft Windows® 98\*, Lotus Smartsuite Including: WordPro, Organiser, 1-2-3, Approach, Freelance Graphics. Corel Draw Suite 7 Select Edition Inc: Draw 7, Photopaint 7, OCR-Trace, Kodak Digital Colour Management, Corel Scan, 50 Clipart & 50 Fonts. IBM Worldbook Encyclopedia 98, IBM Viavoice 98 continuous dictation software, IBM Antivirus 3. 30 day free unlimited internet access account.

### Bundle Two

as Bundle One plus: AGP enhanced software bundle: Red Line Racer, G-Police, Jazz Jackrabbit 2, Tonic Trouble, O-Zone, Beyond the Third Dimension, F22 Air Dominance Fighter.

### Warranty

Atlantic PC systems are covered by a no quibble 14 day money back guarantee ensuring your total satisfaction. Your statutory rights remain unaffected. Atlantic PC systems come with full parts and labour warranty for the first year. After that you receive free labour for the lifetime of the system for installation of any upgrades or add-ons you purchase from Atlantic.

### Standard Features

All systems feature 105 Key Windows Enhanced Keyboard, High Resolution 400dpi Mouse\*, 3.5" 1.44Mb Disk Drive and Full USB Support on all models.

\*Notebook systems feature integrated keyboard & touchpad



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## ◀ 'Houston, we have a problem'

Those of you who've been watching the live webcasts of the latest Shuttle mission could buy Talking Technologies' Talkmic and pretend you're sitting at a console in mission control. People with lives and friends and families may wish to buy it for its intended purpose, which is as a superior replacement for the microphones bundled with voice recognition packages.

**Price** £46 (£39 ex VAT)

**Contact** Talking Technologies 0171 602 4107



## ▶ Parallel universe

No, it doesn't look awfully sexy, but it does a rather groovy thing: Entrega's P36 adaptor turns your printer into a USB device, which means, theoretically, you can connect a whole heap of printers to your machine. If you don't happen to have a whole heap of printers, you could buy one anyway, just to do something with those USB ports sitting at the back of your PC which you've never had anything to plug into.

**Price** Around £41 (£35 ex VAT)

**Contact** Entrega 0118 951 9549

[www.entrega.com](http://www.entrega.com)

## I wanted ▶ to be a lumberjack

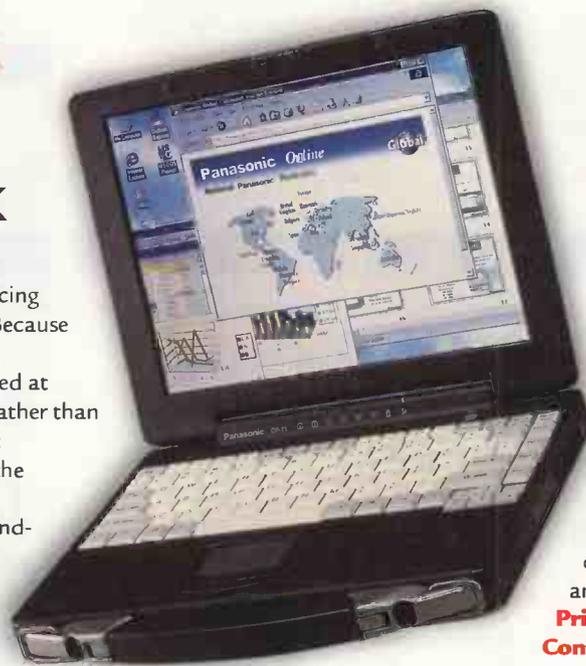
Those people at Panasonic are positively obsessed with producing ruggedised notebooks. Why? Because they sell lots. Unlike the Husky, Panasonic's ToughBook is aimed at businesspeople on the move, rather than archaeologists tramping about in muddy fields. The CF-71 is the prettiest yet, jumping on the magnesium-alloy-clad-top bandwagon, calculated to make any self-respecting male executive drool.

**Price** £2,700

(£2,299 ex VAT)

**Contact** Panasonic

0990 357357 [www.panasonic.com](http://www.panasonic.com)



## ▶ Is it a bird?

Just the thing to complement and enhance the natural, dull-beige tone of your PC: Fuseon's MouseRugs are based on authentic Persian and far-eastern designs, apparently. The one you see here is the Maroon Bokhara, if you hadn't already recognised it. Fuseon claims that the MouseRug material has all sorts of wonderful properties, including dissipating static, keeping your mouse clean and hovering five inches above the ground, thereby facilitating its use as a rudimentary magic carpet... Only joking.

**Price** £12.95 (£11 ex VAT)

**Contact** Fuseon Graphics 01376 500566

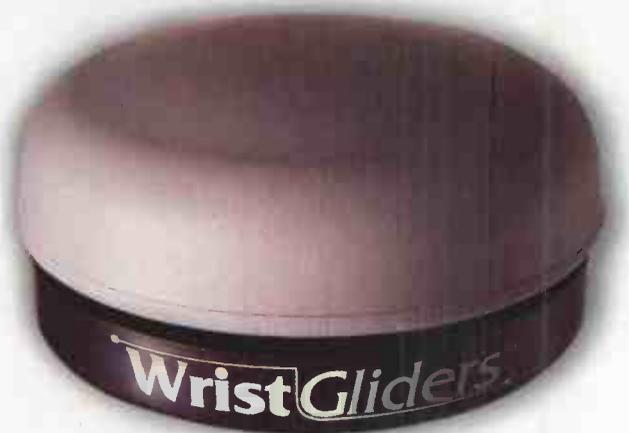


## It's all in the wrist

No, they're not luxury air hockey pucks, they're an ingenious way to relieve fatigue and help prevent RSI. Wrist Gliders are designed to sit under your wrist and support your hand while you're typing or mousing. An interesting concept, but we found them a bit weird as we had to carefully position them and then slide our wrist around in a strange fashion to keep them there. Still, they're a talking point.

**Contact** POW Distribution 01202 716726 [www.wristgliders.com](http://www.wristgliders.com)

**Price** Single £6.95, pair £12 (£5.90 & £10.20 ex VAT)



## Silicon heaven

SGI's lovely LCD flatpanel doesn't just look lovely, it's the only commercially available panel we know of that will run at a higher resolution than 1280 x1024. Due to its wide aspect, with 17.3in diagonal, the 1600SW will handle 1600x1024. It's got a digital interface (which at the moment you can use only with SGI workstations) and, unusually for a flat-panel, adjustable colour temperature. Strangely enough, it's also rather expensive.

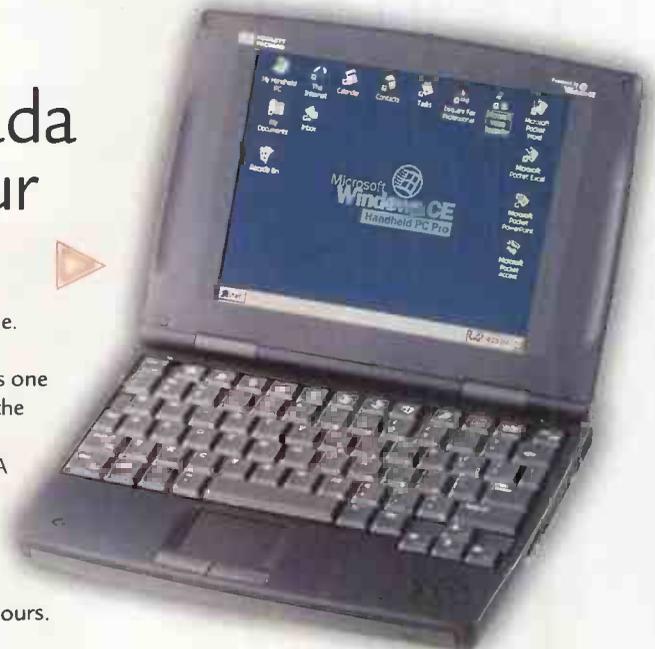
**Price** £2,127 (£1,810 ex VAT)  
**Contact** Silicon Graphics  
0118 925 7500  
[www.sgi.com](http://www.sgi.com)



## A Jornada for your journey

Here's an interesting beastie. HP's Jornada may look like a standard notebook PC, but it's one of the first machines to feature the new Windows CE Professional Edition. This lets devices run at VGA and SVGA resolutions, so CE machines are finally viable as notebook replacements, hence the Jornada. It's got a nice, fast StrongARM processor and a claimed battery life of 15 hours. We'll be testing it just as soon as we can get our hands on one.

**Price** £849 (£722.55 ex VAT) **Contact** Hewlett-Packard 0990 474747 [www.hp.com](http://www.hp.com)



## Colour me blind

The good-old GameBoy has been around for ten years now. Yes, it's true. In that time there have been lots of coloured cases, but the screens have never displayed so much as a hint of purple or a dash of red. But now — Hurrah! — there's the Color GameBoy. It'll display 32,000 colours, it's the same size as a GameBoy Pocket and it runs all your old games, too. Battery life is a tad reduced, but Nintendo claims up to ten hours.

**Price** £69.99 (£60 ex VAT)  
**Contact** Nintendo 01703 653377 [www.nintendo.com](http://www.nintendo.com)



## PULSAR 350

- Intel® Pentium® II Processor 350Mhz
- 64Mb High Performance 100Mhz SDRAM
- Intel® 440BX Chipset
- 8Mb ATI Rage Pro (2xAGP) Graphics Card
- 512K Cache
- 6.4Gb (UDMA) Hard Drive
- 32x CDR0M Drive
- PCI 64 3DP Sound Card
- 56K Modem
- In-built Microphone
- Built-in Speakers with 10 Watt Subwoofer
- 7 PCI/ISA slots
- 15" Monitor

### ALL MODELS INCLUDE AT LEAST £1000 WORTH OF SOFTWARE.\*

Software includes: Windows 98, Word 97, Via Voice, Red Line Racer, Total Annihilation, Disney 101 Dalmatians, Disney Magic Artist, BBC Pingu, Encarta 98 and many more.

\*Software bundles vary according to model. Value of software based on separate selling price of actual or equivalent software, less value of manuals not included for pre-loaded software.

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# reviews

The most interesting new technology we've seen this month is Sony's **NEW F500 MONITOR**, the first totally flat-screen CRT. Watch out for more of these next month. If you've got a small amount of desk space but a large purchasing budget, the **MULTIQ FPC** could be what you're after. Those with more desk space than money should check out the **ELONEX** budget mini-tower system (p80). The small and sexy notebook market is getting popular, and **GATEWAY** is entering the fray with its magnesium-clad product.



At the budget end of the scale, Umax has clambered onto the notebook wagon with the **ACTIONBOOK 330T**. Amateur photographers and computer artists should take a look at Nikon's **NEW COOLSCAN** film scanners. And, not forgetting the techies amongst you: this month we have one of the **FIRST EIDE RAID** controllers to come

onto the market. On the software front, we've a couple of updates of old favourites in the shape of **TRUESPACE 4**, **FILEMAKER PRO 4.1** and **CLEANSWEEP DELUXE 4**. Plus, there's a newcomer in the form of the **AMAZING GIGA SAMPLER**, to turn your PC into a concert grand.

DAVID FEARON, REVIEWS EDITOR  
DAVID\_FEARON@VNU.CO.UK

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## VNU European Labs



VNU Labs tests all kinds of hardware and software, from PCs to modems to databases. All our tests simulate real-world use and for the most part are based around industry-standard applications such as Word, Excel, PageMaker and Paradox. Our current PC tests for Windows 95/98 and NT are the Sysmark tests from BAPCo. In all our performance graphs, larger bars mean better scores.

## Ratings

- ★★★★★ Buy while stocks last
- ★★★★ Great buy
- ★★★ Good buy
- ★★ Shop around
- ★ Not recommended

# MultiQ FPC 1650 Executive Flat panel computer

Swedish **super-waif** model seeks spatially-challenged execs with expensive tastes.

The LCD market is one of the fastest-growing areas of the PC world. There are strong rumours afoot concerning the short-term health of the industry, with problems caused by increased demand and the downturn in the Asian economy leading to predicted production shortages next year. All this industry doom and gloom makes the timing of MultiQ's launch particularly intriguing. FPC stands for Flat Panel Computer, and MultiQ is a successful Swedish flatpanel company that has sold LCDs since 1988. Although it has an impressive share of the market in Scandinavia, the company is relatively unknown here.

MultiQ is keen to stress the innovation in its product, claiming that its FPC is an LCD screen with a PC built in. Previous attempts have approached the concept the other way around. It backs up its claim to originality with the prize the FPC won for the most innovative product at the CeBIT trade fair in March 1998.

**Aimed at those** who need good performance when space is at a premium, the FPC is not particularly wallet-friendly, but then, as everyone knows, minimalist Swedish design doesn't come particularly cheap. Having turned to R&D partner Inside Technology, which specialises in producing single-board computers, MultiQ's product contains the PC on the back of the LCD screen, yet is still no thicker than two inches at its widest point.

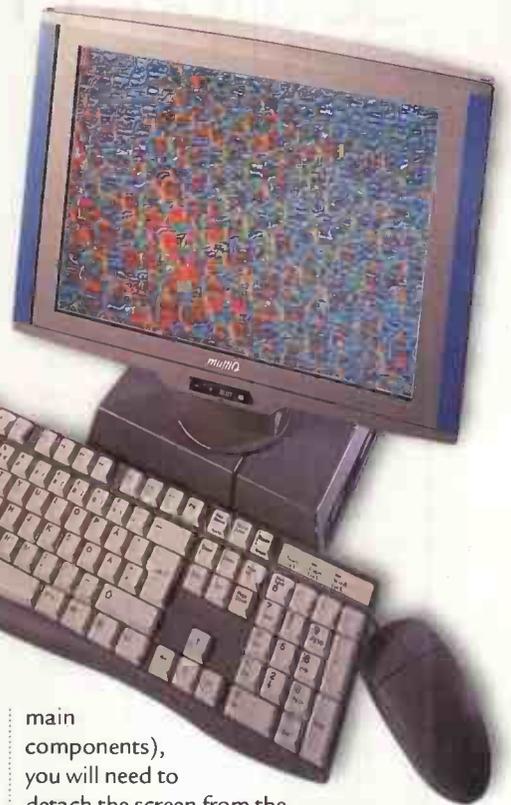
**The screen itself** is connected to a base containing the floppy drive and CD-ROM: the casing is entirely metal, giving the unit confidence-inspiring solidity. With the mouse and slim keyboard connected to the base, and the screen

and PC as one unit, the 10Kg FPC bears a slight resemblance to the iMac in its minimalist design. The only spanner in the works, which affects the FPC's asceticism, is the whacking great power unit sitting next to the system, connected by an ugly, thick, black power cable; you'll probably want to hide it. Comparable to a 17in CRT monitor in viewable area, the 15.1in TFT (Thin Film Transistor) screen was impressive in tests, showing the Windows 98 icons off in all their pixellated glory on its 1,024 x 768 resolution. The viewing angle was not too impressive but this is less of an issue with a PC that will not be used for PowerPoint presentations. But it is the ideal solution for, say, a spatially-challenged trading floor or newsroom.

**So what hardware do you get for your hard-earned cash?** The slim 3.2Gb Toshiba hard drive is packed with the motherboard behind the screen. The board contains 64Mb of SDRAM, alongside the

512K of L2 cache, as well as the 4Mb Chips & Technology onboard graphics chipset. MultiQ claims that its FPC's form factor has been designed for modularity: the basic configuration can be upgraded before being built and the basic components easily upgraded once purchased. The FPC can be fitted with up to 256Mb of RAM, and MultiQ uses processors from both Intel and AMD, offering up to an AMD K6-2 processor running at 333MHz, which should be ample for nearly all office packages.

**The system we tested** was fitted with an Intel 233MMX processor. There are eight screws in all which have to be taken out to gain total access to the back of the screen and, if you want to take off the central back plate (pretty essential if you want to upgrade, as it covers most of the



main components), you will need to detach the screen from the base. All in all, this is a task best left to a specialist. MultiQ has contracted the warranty and technical support to a third-party British company, so you won't have to ring Stockholm if anything goes wrong. Similarly, British orders for the FPC are through MultiQ's UK partner, distributor Imago Micro.

PAUL TRUEMAN

## Minimalist Swedish design doesn't come particularly cheap

### PCW DETAILS



**Price** £3,643 (£3,100 ex VAT)

**Contact** Imago Micro 01635 294300

[www.multiq.com](http://www.multiq.com)

**Good Points** Looks great. Takes up little space. Modularity for potential upgrades.

**Bad Points** At this price, such designs won't be affordable to everyone.

**Conclusion** Well worth consideration if space is at a premium and you want to make everyone else jealous.

#### PERFORMANCE RESULTS



BAPCo Sysmark Windows 98 test scores

# Elonex MCX-6350/I

## Compact mini tower

**Goodbye Intel... hello Via Apollo Pro. The alternative chipset in a good value PC.**

Elonex's latest system is an interesting showcase for the first available alternative Slot 1 chipset which comes in the shape of the Via Apollo Pro. Until now, Intel has had the monopoly on Slot 1 chipset production, meaning that not only was it making pots of cash selling PIIs and Celerons, it was making even more producing the chipsets to run them. This competition should benefit consumers.

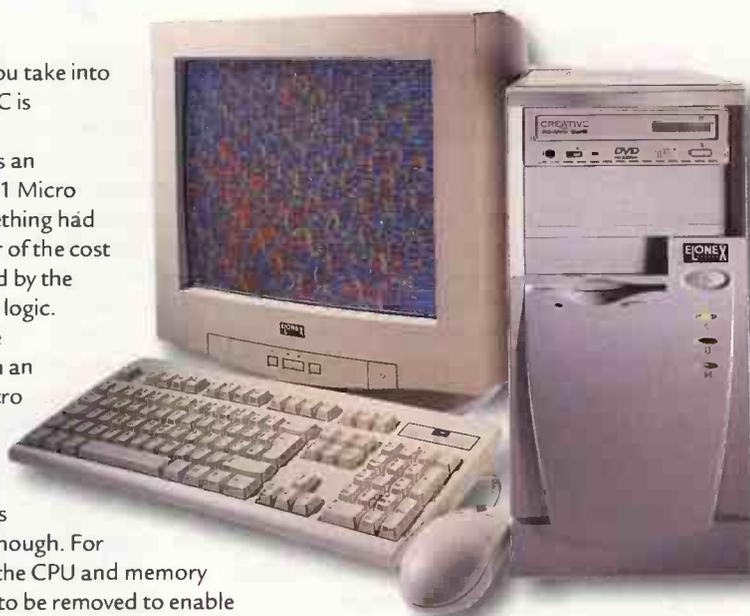
The Apollo Pro claims some key improvements over the highest-specification Intel equivalent, the 440BX, including support for up to 1Gb of PC100 SDRAM with the option to mix and match with 66MHz SDRAMs, and support for the emerging ATA-66 disk (aka the ULTRA DMA 66) drive interface standard. ATA-66 effectively doubles the maximum data transfer rates of the current generation of EIDE drives. Unfortunately, the FIC KA-6130 motherboard supplied with this system puts some constraints onto these leading-edge features. One obvious limitation is that there are only two DIMM sockets so with the maximum 256Mb modules currently available the maximum the chipset can handle is cut

in half. When you take into account that FIC is targeting this motherboard as an affordable Slot 1 Micro ATX, then something had to give in favour of the cost savings afforded by the alternative core logic.

Housing the motherboard in an uninspiring Micro ATX case gives you a compact mini-tower system. This has its drawbacks though. For instance, both the CPU and memory DIMM needed to be removed to enable the hard drive to be fully accessible. Generally, it's all a bit tight in there, but what you get is impressive for the price.

The system is powered by a 350MHz Pentium II. The generous 128Mb of RAM is supplied on one DIMM, so there's still room for memory expansion. But with 128Mb you are not going to need to upgrade for quite some time. Fujitsu provides generous storage with a 6.4Gb EIDE hard disk with an Ensoniq sound system squeezed onto the motherboard. CD-ROM capabilities are provided by Creative Labs' Dxr2 DVD-ROM drive but there is no accompanying hardware DVD Video decoder to go with it. Consequently, movie playback has to be carried out in software, and even a 350MHz processor has trouble with this.

The graphics card is a new Leadtek model, and is equipped with nVidia's Riva TNT chipset, which is the best around at the moment. It is fitted with 16Mb SDRAM. Buying a mini-tower system will always constrain your upgrade options, as evidenced by the two spare PCI slots. Spare drive bays are also reduced to one 3.5in and one 5.25in. Elonex supplied its own branded monitor, capable of reasonable refresh



rates at high resolution (85Hz at 1,024 x 768) but the overall image lacked sharpness. This was more acceptable at 800 x 600, which is unfortunate for a 17in display. All the necessary screen control functions are available through a basic OSD that's easy enough to use.

An excellent user manual guides you through any problematic areas of setup, and there's a diagnostics section for troubleshooting.

In our benchmark tests, the system returned a slightly disappointing result. This may well be have been because of the early revision of both the

motherboard chipset and the Leadtek video drivers. Hopefully, though, future systems will definitely

demonstrate that Intel has some competition on its hands in the Slot 1 chipset arena.

The system's major selling point is its price. Despite the fact that the performance of the MCX-6350/I is slightly slow for the specification, in absolute terms it is still a powerful PC for remarkably little cash.

IAN ROBSON

### PCW DETAILS

★★★

**Price** £998.75 (£850 ex VAT)

**Contact** Elonex 0181 452 4444

[www.elonex.co.uk](http://www.elonex.co.uk)

**Good Points** Compact. Well specified.

**Bad Points** No MPEG hardware decoder. Restriction on upgrade options.

**Conclusion** A lot for the money, but other 350MHz systems are faster.

#### PERFORMANCE RESULTS



BAPCo Sysmark Windows 98 test scores

**Improvements over the highest-specification Intel equivalent**

# Gateway Solo 3100 FireAnt

## Stylish boy toy

**A petite notebook fashion accessory for the busy young executive-around-town.**

Gateway has established a reputation as a major player in the notebook market with an extensive range to suit most users' needs. The Solo 3100, codenamed FireAnt, fits snugly into a niche best described as the executive's stylish toys market. Gateway would probably phrase it slightly differently, but there's no doubt that the target audience for this one is the executive on the move.

The FireAnt comes in a two-tone casing with its 12.1in TFT screen housed in magnesium alloy. The rest is in black plastic. With its petite dimensions (285 x 215 x 31mm) and favourable weight (2.27Kg with battery) it is designed to be a piece of techno-jewellery that fashion-conscious executives will want to own. The screen's native resolution of 800 x 600 is fine for most tasks and delivers a bright, even, display. The screen housing, however, is thin enough to twist when repositioning, causing distortions of the image. This is nothing major but we'd have thought that the metal top would stop this. It also seems a shame not to have taken advantage of the natural heat dissipation qualities of the magnesium in the rest of the casing.

**Keyboard feel is very light** indeed, although it does feel a little flimsy. Some may prefer their keys to have a more positive touch. The mouse pointing device is the mini-joystick type beloved by IBM. It nestles in the middle of the keyboard and a little pressure from your fingertip sends the pointer in the appropriate direction. There is no port replicator supplied as standard, but it is available as an option. Added replicator features include S-Video out and stereo speaker inputs. It can be permanently plugged into a power supply to recharge the Lithium Ion battery pack.

The FireAnt's looks are adequately complemented by its 266MHz mobile PII with 32Mb supplied system memory. Storage is covered fairly with IBM's 4.2Gb hard disk drive, and removable storage with an external floppy disk drive. The integral CD-ROM drive can optionally be replaced with a DVD-ROM unit. There's one slot for PC Cards, meaning you can only fit Type I/II cards, rather than full-height Type IIIs. An LT WinModem was supplied in the review machine but Gateway could not confirm whether this would follow through to full production.

Gateway claims that the FireAnt is ACPI compliant. ACPI (Advanced Configuration & Power Interface) is an open industry standard, jointly developed by Intel, Microsoft, and Toshiba. The key element of this standard is to put the operating system in control of power management.

However, it will be a while before full

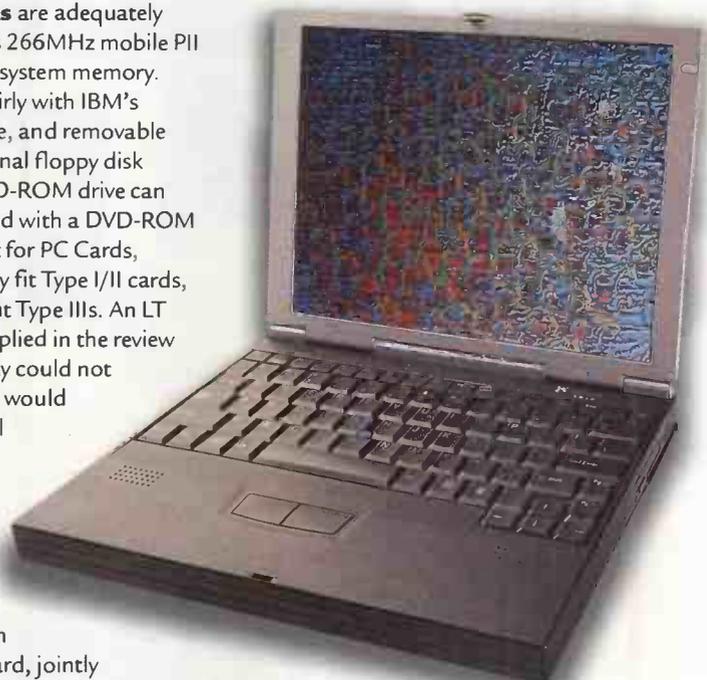
software support is available to take advantage of it.

Graphics are provided by the ubiquitous NeoMagic chipset. This

does not provide any of the whizzy 3D features of some newer chipsets but does the job perfectly well for standard applications.

Options to upgrade are limited to storage and memory; both easily achieved with the loosening of a couple of screws. There is also easy access to the more private parts, although these are not generally regarded as user-serviceable areas. Battery life, as is usual with Gateway notebooks, is impressive with the unit managing three hours on a full charge with all power management turned off.

**Is it better than the Sony PCG-505G** (reviewed in PCW, Dec '98) which is almost identical in price? Well, it's slightly better specified, with a mobile PII rather than the 505's 233MMX, it has



good battery life and comes bundled with Microsoft Office 97 Small Business Edition as well as Money and Encarta 97. It does not have a port replicator as standard, however. But there cannot be many who would look at both, side by side, and choose the Gateway. Sony's product is just too gorgeous. And there's more competition on the way. Sharp has a unit with a similar design.

Overall, the FireAnt displays the usual qualities of Gateway notebooks: competent and well-specified but lacking in that touch of flair, despite the shiny top.

IAN ROBSON

### PCW DETAILS



**Price** £2354.70 (£2004 ex VAT)

**Contact** Gateway 0800 552000

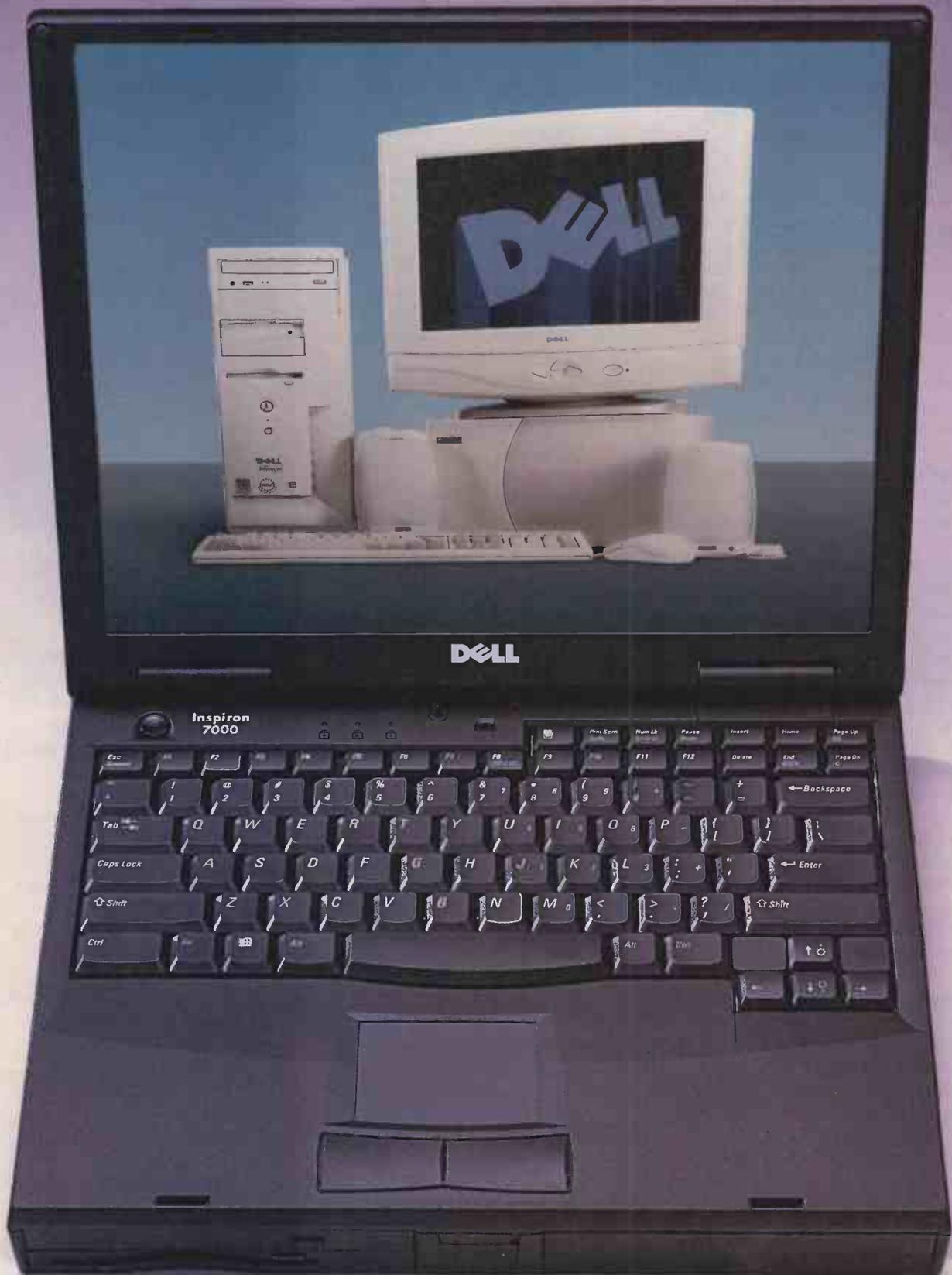
[www.gateway.com/uk](http://www.gateway.com/uk)

**Good Points** Stylish and light.

**Bad Points** Not quite that stylish. Slightly flimsy build.

**Conclusion** It's appealing but not as appealing as Sony's similarly-priced PCG-505G.

**Acts like one thing.  
Looks like another.**



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- 2 Cardbus PCMCIA type II Slots
- 12 Cell (65 W/Hr) Lithium Ion Battery
- TV Out (PAL & NTSC)
- Integrated Synaptics Touchpad with 2 buttons
- Zoomed Video Support
- Infrared communication port (IrDA 1.1 compatible)
- USB Port
- Microsoft Office Small 97 Business Edition V2
- Microsoft Windows 98



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- 2 Cardbus PCMCIA type II Slots
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- Touchpad with 2 buttons
- Zoomed Video Support
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# Umax ActionBook 330T

## Budget notebook

**Umax's first notebook at entry-level is well down in the bargain basement.**

**T**he ActionBook is Umax's first dip of a toe into the notebook market. Umax is best known for its scanners for graphics professionals and for home users, but it was also the first company to sell Mac clones. However, even before Apple's decision to keep the Mac OS to itself, Umax had started to make NT workstations, arguing that even traditional Mac users were making the move to PCs simply because they were cheaper, more powerful and more stable.

Umax first announced its intention to produce notebooks well over a year ago. Its approach is to come in at the low end, appealing mainly to those who want a second machine but do not want to pay a fortune for it. Higher-end notebooks, with faster processors and larger screens, are already on sale in America and will be coming here soon. Also in the US, Umax is selling low-end PCs based around the AMD K6-2, although in the UK it is unlikely to go down this path in the near future.

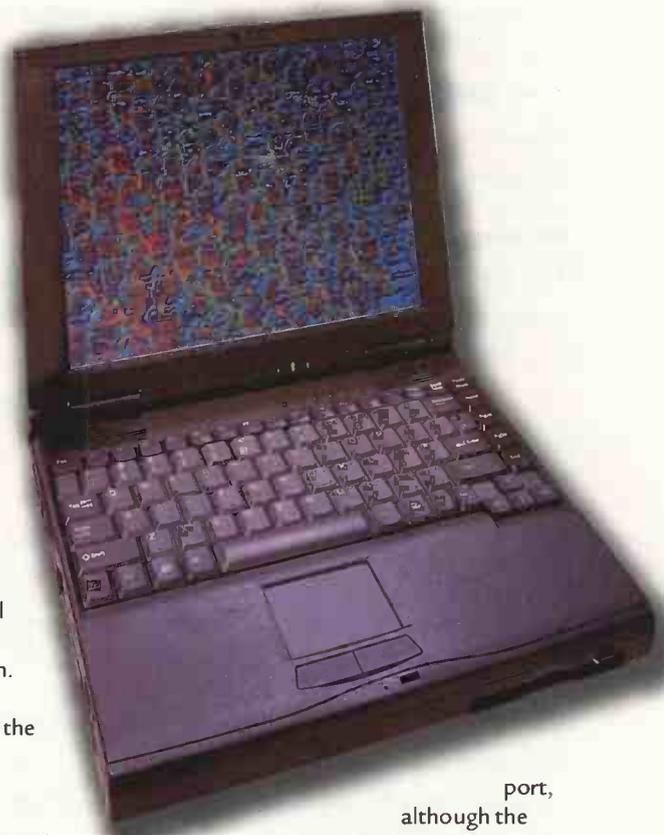
**An AMD processor** has found its way into the ActionBook 330T. The unit sports the K6/300 mobile, a relatively new processor which generates less heat and consumes less power than the desktop version. In practice though, the

ActionBook seems to run extremely hot; a problem that is apparent almost as soon as you start using it. Within about ten minutes of switching it on, the fan kicks in. This in itself would not be a problem if it were quieter, but it sounds a little like one of those creaky old desk fans, complete with an annoying background whine. And, once the fan has come on, it does not switch off again.

**The Action Book** is fitted with an NiMH (Nickel Metal Hydride) battery — an older technology than Lithium-Ion. NiMH is heavy but the real problem is what's known as the "memory effect". NiMH batteries should be fully discharged before they are recharged. If you fail to do this, they will subsequently tend to refuse to take a full charge, meaning reduced life on-the-road. Even with the new battery, we found that it ran down astonishingly quickly on relatively light activity, lasting only around an hour in normal use.

Unfortunately, the approach of low budget rather than high quality also runs to the screen. This was a 12.1in TFT display, which runs at a resolution of 800 x 600. Although small compared to the 14.4in screens in some of the current wave of notebooks, it is still large enough to work on. However, our greatest gripe about the screen is its quality. Some light bleeds around the edge of the screen, particularly at the top and to the right, yet the screen itself is neither as bright nor as clear as it should have been. Windows icons were badly defined and the contrast was terrible. Let's hope Umax improves this on its later models.

The ActionBook 330T has all the ports you might expect, including a USB



port, although the modem plug has been blocked off. The keyboard is pleasant enough to use and the trackpad is reasonably responsive. There is a distinct lack of any of the bundled utilities you would normally find on a notebook. It does not even have a power management utility, so you have to use the Windows Power utility instead.

**An AMD processor has found its way into the ActionBook**

The only bundled software you get is Windows 98.

**The RAM and hard disk** are adequate, with 32Mb of system RAM, 2Mb for the graphics chipset and a 4Gb hard disk. The CD-ROM and floppy disk are both integrated into the case so you don't have to pull one out before you can use the other, but this is about the limit of the notebook's good points. Overall, the ActionBook 330T feels like a notebook which is a couple of years old and has merely had a few newish components added.

ADELE DYER

### PCW DETAILS

★★★★

**Price** £1,174 (£999 ex VAT)

**Contact** Umax 01344 871344

[www.umax.co.uk](http://www.umax.co.uk)

**Good Points** Budget price.

**Bad Points** Feels cheap.

**Conclusion** You get what you pay for.

#### PERFORMANCE RESULTS



BAPCo Sysmark Windows 98 test scores

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*Through knowledge comes control.*

# Sony Multiscan GDM-F500

## First flat screen CRT

**Just eyeball this will you? It's totally flat, it's Trinitron, and it uses a cathode ray tube...**

**W**ith the F500, Sony has achieved something that a couple of years ago most people would have said was a practical impossibility. The F500 is the first flat screen Trinitron as well as the first flat screen CRT (cathode ray tube) monitor to be released. Screens based on Sony's Trinitron technology and its derivatives (collectively known as aperture grille displays) have always been flat in the vertical direction, but curved width-wise. Monitors based on shadow mask technology are curved in both directions, although as the technology has matured over the years, they have been getting flatter.

**The F500 is a heavy beast** at 34Kg but that's par for the course in a 21in display — the flat screen tube does not significantly add to the weight. It has to be said, however, that the penalty you'll pay for flat-screen heaven is the aesthetics of the thing. In contrast to most Sony products, which are as elegant as you could want, the F500 is dowdy-looking in the extreme.

The on-screen menu system is identical to that used in Sony's other high-end 19 and 21in Trinitrons. But that's no bad thing as it's one of the most intuitive menu systems around. Where it does depart from other models is in its physical controls. Other models have four buttons arranged in a cluster, whereas the F500 has a small joystick which performs the same function: moving it up, down, and from side to side moves through and alters the various parameters. Pushing it, selects the highlighted menu entry. Aside from the normal size, positioning and geometry adjustments, the F500 has controls to adjust vertical convergence separately for the top and bottom of the

screen. It is lacking geometric linearity controls, however, but linearity is so good you shouldn't need to adjust it. The remaining front panel controls are an ASC (auto sizing and centering) button; an input selector to switch between the D-SUB and BNC connectors; and a recessed reset button for clearing the preset memories. Sony has responded to the rise of USB by installing one upstream and four downstream ports in the base of the unit, with the downstream ports placed two on each side.

If you're expecting the image on a flat screen CRT to look just like that of an LCD flat panel, you'll be disappointed: a CRT can never match an LCD for sharpness. The F500 is still very much a Trinitron, with all the advantages and disadvantages that go with it. Colours are superbly vivid and rich, and of course there's no commercially available flat panel that will achieve resolutions of 1,600 x 1,200, let alone the maximum 1,800 x 1,440 that the F500 supports.

**To do the F500 justice**, we tested it using a Matrox Millennium G200 graphics card which ranks as one of the top performers for 2D quality, as well as being one of the few to support really high resolutions. In practice, the flat screen does not appear to have introduced any image quality compromises, quite the reverse: the F500 gives a superbly crisp image at 1,600 x 1,200, with virtually no geometric compensation required and amazingly little distortion in the corners. At 1,800 x 1,440 things are still almost flawless, but text begins to get too small to be practical.



**Does a totally flat screen** really make the display "better" or easier to use? Well, in practice there's certainly something very pleasant about sitting in front of the F500. We're all naturally used to flat working surfaces, notably paper documents, so you'll feel completely at home with the unit. There's also the argument that a flat screen reduces reflections which can interfere with the image on which you're trying to concentrate, which contributes to fatigue and eyestrain. But this is a monitor for those who really care about their displays and, if you fall into that category, the premium price of the F500 is one worth paying.

DAVID FEARON

### PCW DETAILS



**Price** £1,526 (£1,299 ex VAT)

**Contact** Sony 0990 424424

[www.sony.com](http://www.sony.com)

**Good Points** *Totally flat screen. Gorgeous colour rendition and crisp text. Runs at up to 1,800 x 1,440 at 80Hz.*

**Bad Points** *The case design looks ungainly. It's awfully expensive.*

**Conclusion** *If you can afford one, buy one.*

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HP DeskJet Printers



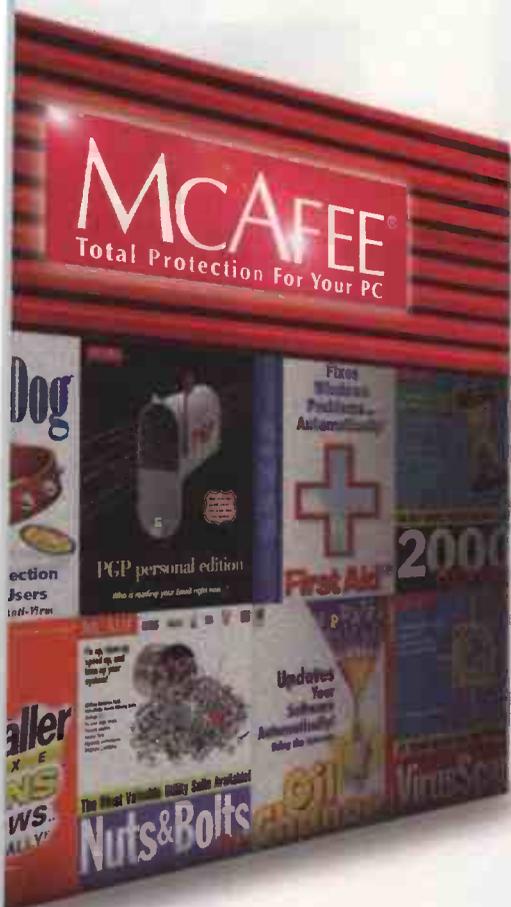
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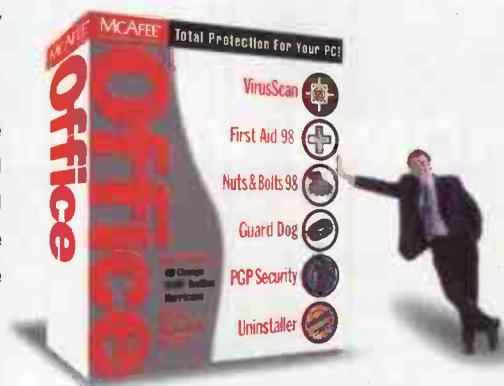
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# Nikon LS-30 and LS-2000

## 35mm and APS film scanners

**Dedicated desktop film scanners — here are two models from which to choose.**

**W**ith reputable manufacturers producing perfectly good flatbed scanners at under £100, why on earth would you consider spending £619 or £1,399 for Nikon's LS-30 or LS-2000 dedicated film scanners? The reason is that scanning film is considerably different from capturing your holiday prints or business documents. First it's transparent, and second it's usually very small. Transparency can be solved by shining a light through the image, and most flatbeds can be fitted with optional illuminated lids to do just that. But size is a trickier one to solve.

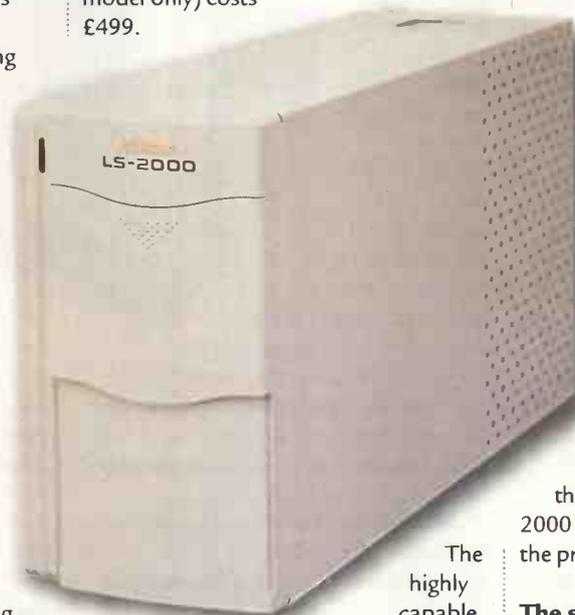
**A flatbed scanner** has plenty of dots to play with for your 7 x 5in print, but 35mm film measures only an inch tall. A 600 dpi flatbed would then give you, well, only 600 dots. Considering that most colour inkjets like at least 150 dots per printed inch, then you're only looking at a maximum enlargement of four times — that's only four inches tall, and hardly worth the effort.

Nikon's LS-30 and LS-2000 film scanners (aka the CoolScan III and Super CoolScan 2000) both boast a hefty 2700 dpi optical resolution, good enough to enlarge a 35mm frame to A3 on an average colour inkjet. Both models measure 85.5 x 142 x 275mm and are SCSI-II devices.

Nikon supplies an Adaptec 2902 SCSI card with the LS-30 but expects you to have your own for the LS-2000. We tested both scanners on a P200 with 128Mb RAM and a fast Adaptec 2940 PCI SCSI card.

**The front panel** of each unit slides down to reveal a large slot into which a variety of film adaptors can be hot-plugged. Nikon supplies two with each

scanner: one sucks in raw, uncut lengths of film from two to six frames, and another swallows mounted slides whole, or a strip film adaptor for those pesky loose frames. An optional APS film adaptor is available for £159, and one to automatically sort through and scan up to 50 mounted slides (on the LS-2000 model only) costs £499.



The highly capable TWAIN driver,

tested at v2.1, operates both models and boasts just about every adjustment you could think of for the expert, or auto settings for those who want an easy life. In fact, Nikon can make things even easier by automatically getting rid of any scratches, dirt and fingerprints by making an extra pass with its Digital ICE technology. This works really rather well and, despite

lengthening scanning time, is much quicker and less frustrating than doing it by hand. Nikon also supplies Photoshop 4 LE with both models, which no doubt will come in handy.

The big difference in price between the two scanners is essentially down to their colour depth: the LS-30 captures 30 bits at input, and outputs 24, while the LS-2000 boasts 36 bits at input and output. In real terms, this means the

LS-2000 can see a wider range of colours and, in particular, capture subtle detail in dark shadows and bright highlights. When you consider that every adjustment to colour, brightness and contrast effectively loses bits, then starting with 36 will ensure you still have a decent 24 left even after significantly playing around. A multiple sampling mode, which is only available on the LS-2000, can cancel digital noise on the CCD and increase dynamic range yet further; the LS-2000 is also supplied with SilverFast software for precise colour adjustment. At 2,700 dpi you're looking at just under a minute for 36-bit (57Mb) scans from the LS-2000 or 30 seconds for 24-bit (28.5Mb) scans from the LS-30.

Activating Digital ICE increases these times to four and three minutes, respectively. Reducing the resolution (or dropping the LS-2000 to 24-bit) significantly speeds up the process.

**The scans from both models** are excellent but feeding the LS-2000 a demanding image, employing Digital ICE and multiple sampling, impresses even further. Sure, you can't do anything other than scan 35mm or APS film with these units, but they both do it well enough to more than justify their prices to professional users and serious enthusiasts alike.

GORDON LAING

**Both units boast a hefty 2,700dpi optical resolution**

### PCW DETAILS



**Price** LS-30: £619 (£527 ex VAT), LS-2000: £1,399 (£1,191 ex VAT)

**Contact** Nikon 0800 230220

[www.nikon.co.uk](http://www.nikon.co.uk)

**Good Points** Best film scans outside the pro-bureau.

**Bad Points** Pricier and less flexible than most flatbeds available.

**Conclusion** 35mm and APS film fans, look no further.

# Hewlett-Packard LaserJet 1100A

**A compact dual function device for the home and office.**

The 1100A isn't a totally new product from HP. It is, however, an interesting variation on the standard 1100 printer: it has a scanner attachment, turning the unit into two-thirds of a multifunction device (the missing element being an integrated fax). It also means, of course, that you'll find yourself with more free desk space as you avoid cluttering up your work area with cables and individual peripherals. The scanner unit attaches very easily via one of those ingenious lever arrangements that printer manufacturers are so good at doing.

**So what do you get** for your money? Well, this monochrome laser has 2Mb RAM as standard, which it uses to print pages at a maximum resolution of 600dpi. It meets Energy Star guidelines and the memory can be upgraded to 18Mb using EDO DIMMs at a later date. The standard connection is to the parallel port and it chats to the PC using HP's own PCL5e control language. Network compatibility is available to those hooking it up to one of HP's optional JetDirect external print servers. Drivers are included for every version of Windows from 3.1 to 98, but while NT4 is also catered for, there is nothing for users of NT version 3.51.

The 1100A incorporates Hewlett-Packard's own REt (Resolution Enhancement technology) to improve the quality of its output, and this undoubtedly helped it to achieve an impressive score of 84.25 percent in our printer tests. Toner was well fused to the paper and demonstrated only minor cracking when our pages were folded, although on a page of almost complete coverage there was slight variation in the level of toner density. Some problems with banding were also evident, but if the unit is mainly used for text output, as are

most mono lasers, this will not be too much of a drawback. It's with areas of solid graphics that banding tends to make its presence felt the most.

The 1100A is claimed to have an 8ppm print engine. In our text output tests it produced the first sheet in a run of 10.5 complete pages 19 seconds after the data light first illuminated, and the final page dropped into the output tray a minute and a half later. This equates to just under six pages per minute in the real world.

We were underwhelmed by the performance of the printer in our positional test, in which a crosshair pattern is overprinted on itself, requiring the page to be passed through the unit twice. Whilst a printer scoring ten would have printed the images so perfectly on top of each other that only a single crosshair would be discernable, our test results could only let us award the 1100A a score of three. An important point if you want to do any manual duplex printing.

**Once attached**, the scanner facilitates one-touch copying with an optical resolution of 300dpi, without even being connected to the PC. The scanner is the document feeder type rather than a flatbed so performance isn't brilliant, scoring just 70 percent in our scanner tests. It is, however, versatile enough to cope with anything between 2 x 3.5in and a maximum of 8.5 x 30in in size. For the business user wanting to use it



primarily for document storage, OCR or copying, though, it should prove to be more than adequate. Connecting it to the PC allows you to interpolate the optical scanning resolution to achieve 600dpi. A 20-page input hopper allows copying to take place unattended, although without a front panel it is not possible to make multiple copies without the use of the PC.

**Our only real disappointment** with the 1100A was that there was no front-mounted output tray to catch either our originals as they passed out of the scanner or any prints exiting the "straight" paper path. That said, the unit does have a 125-sheet feeder for both paper input and output should you choose to use the curved path.

NIK RAWLINSON

**The 1100A prints pages at a maximum resolution of 600dpi**

## PCW DETAILS



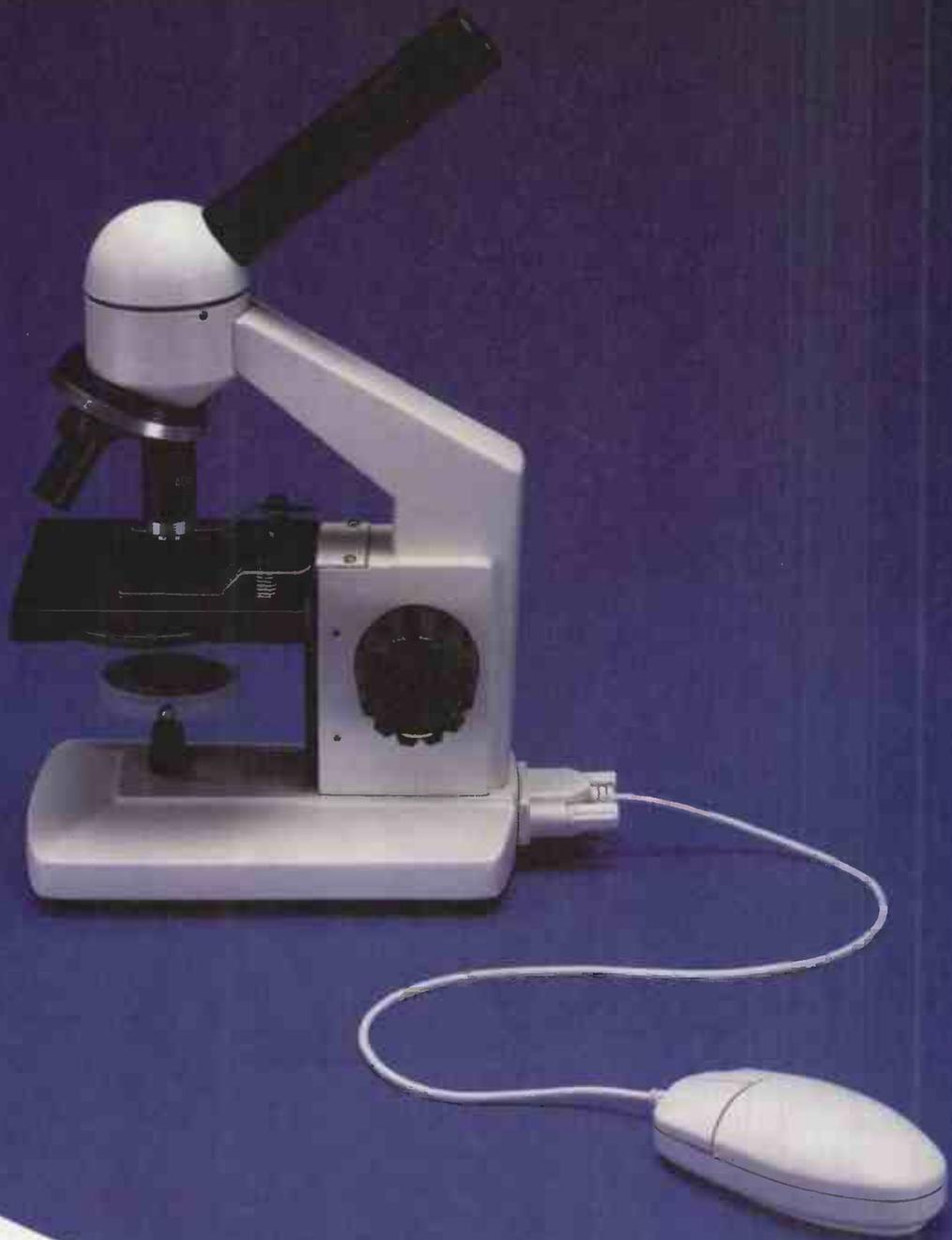
**Price** £446.50 (£380 ex VAT) or £364.25 (£310 ex VAT) for printer alone.

**Contact** Hewlett-Packard 0990 474747  
[www.hp.com](http://www.hp.com)

**Good Points** Modular design. Ease of use. Good value for money.

**Bad Points** Lack of front-mounted paper output tray.

**Conclusion** A good choice for those who need a compact mono text printing and document processing solution.



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Missing little details can make a big difference. That's why EPSON scanners only use the highest quality lenses. 20/20 vision you might say, but we prefer EPSON Advanced Scanning Technology. The EPSON GT-7000, for example, has an interpolated resolving power of 9600dpi. To bring that into focus, if you don't have sharp, crisp details and vibrant colours at the scanning stage, you certainly won't have them at the printing stage. In fact, the whole package is worth a closer look. It comes with an optional

transparency adapter and document feeder for usage flexibility. As well as comprehensive software and Windows & Mac compatibility. And a one-touch start button for general infallibility.

All for around £199. For more information on the EPSON GT-7000 and the EPSON scanner range call 0800 220546, fax 01442 227271 or visit [www.epson.co.uk](http://www.epson.co.uk).

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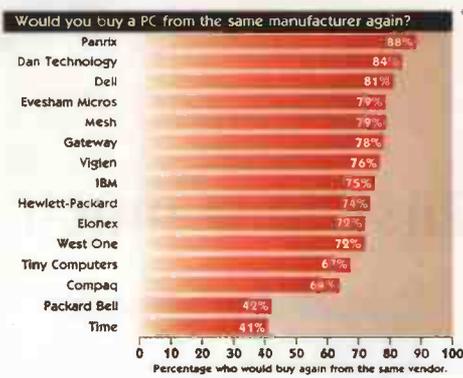
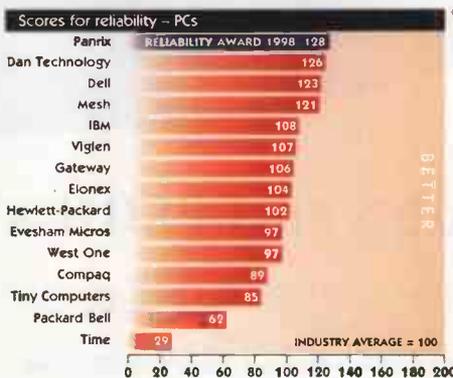
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\*Graphs show the performance of the top 15 PC manufacturers surveyed by PC Pro relative to each other and, where relevant to an industry average.



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# DupliDisk IDE RAID Controller

For improved **performance** or increased **security**, DupliDisk does the job.

The DupliDisk is an IDE RAID controller — yes, IDE. Traditionally, RAID controllers have only been available for SCSI hard disks. RAID — Redundant Array of Inexpensive (or Independent) Disks — allows multiple drives to be linked together to provide performance enhancements or various levels of protection against failure. The most basic level is RAID 0 where data is written in stripes across two or more drives. It provides no protection in the event of failure, but can considerably increase sustained throughput. RAID 1 requires two drives and uses one to perfectly mirror the other. Should either of the mirrored pair fail, the controller moves all operations to the remaining drive and the system continues as if nothing had happened. RAID levels 0 and 1 can be combined to provide improved performance and redundancy.

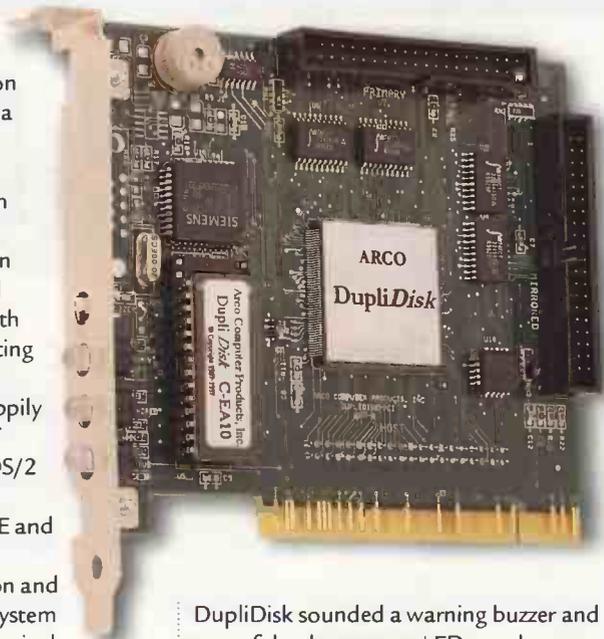
The DupliDisk provides RAID 1 mirroring only and can support up to four IDE hard disks; two primary drives and two mirrors. The drives do not need to be identical, but the capacity of each mirrored pair will be determined by the smaller drive. The DupliDisk is an intermediate adaptor that sits between the motherboard IDE controller and the

drives. Four varieties are available for ISA or PCI slots: a slotless version and one for mounting in a 3.5in drive bay. The only demands the DupliDisk makes on the host system are for power and setup access. It needs neither an IRQ nor I/O address and there is no interaction with either the BIOS or operating system, making it truly universal. It will work happily with DOS, all versions of Windows, Linux, Unix, OS/2 or Novell NetWare and supports ATA, IDE, E-IDE and UDMA hard disks.

I tested the PCI version and installed it in a desktop system running Windows 98. Physical installation can be tricky due to the large number of ribbon cables required. The card has three IDE sockets with the lower one connected to the motherboard IDE channel using the supplied cable. The other two sockets are for the primary drives and mirrored drives. The rest of the testing hardware came courtesy of Western Digital with a quartet of 2.1Gb Caviar hard disks.

Once everything is in place, the RAID array is initialised using the supplied ACP DOS utility. All attached drives are displayed and ACP provides a comprehensive list of options for configuring the arrays. After the mirrors are initialised, data is copied across from the primaries. This took precisely 13 minutes to complete for each pair. After that it's business as usual. The test system started up normally, loaded Windows 98 and operated perfectly and I could detect no performance degradation whatsoever.

To simulate a complete drive failure I removed power from the primary drives before starting the system. The



DupliDisk sounded a warning buzzer and two of the three status LEDs on the mounting plate turned red to indicate a drive failure had been detected. A small reset button alongside can be used to silence the buzzer. The DupliDisk provided perfect RAID 1 fault tolerance as the test system started from the

mirrored drives and loaded Windows 98 as if nothing had happened. At this stage you can either

**The DupliDisk allows multiple drives to be linked together**

continue working or take the safer option and initiate a shutdown to replace the failed units. With the failed drives replaced, the ACP utility needs to be run again to initialise them and create mirror copies of the good drives.

Clearly, the DupliDisk provides perfect RAID 1 redundancy, but it should not be seen as a replacement for normal backup as the PC or server itself still represents a single point of failure. If that dies, gets stolen or damaged then the DupliDisk won't be of any use in recovery operations. However, if you are running various mission-critical applications and need full fault tolerance for your IDE hard disks then the DupliDisk is an elegant solution.

DAVE MITCHELL

## PCW DETAILS



Price ISA £194 (£165 ex VAT);

PCI £229 (£195 ex VAT);

Slotless £229 (£195 ex VAT);

Bay mount £253 (£215 ex VAT).

Contact Octree Computers 01462 481007

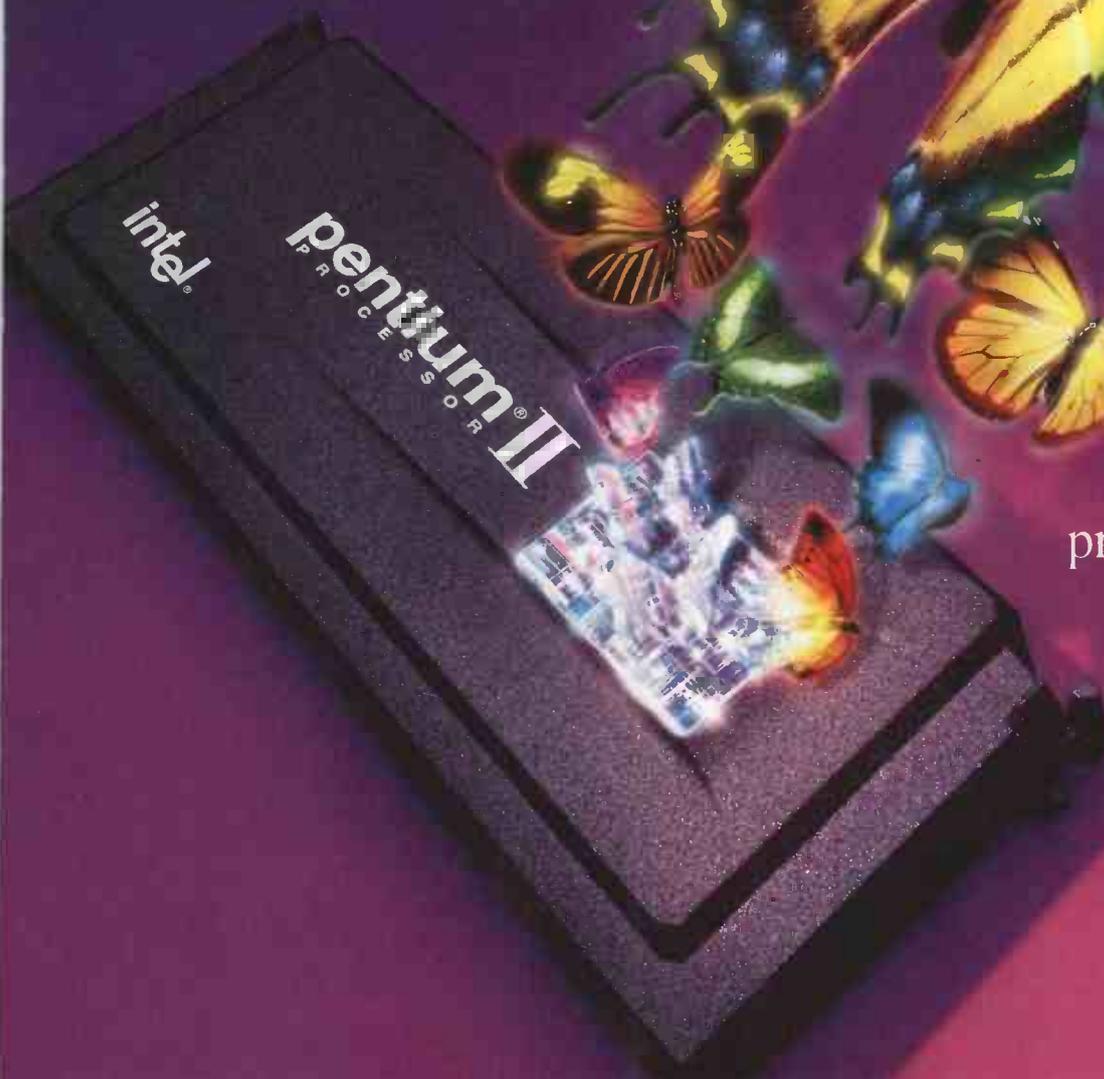
[www.octree.co.uk](http://www.octree.co.uk)

**Good Points** Offers full RAID 1 fault tolerance to any IDE hard disk-based system.

**Bad Points** Should not be used to replace conventional data backup.

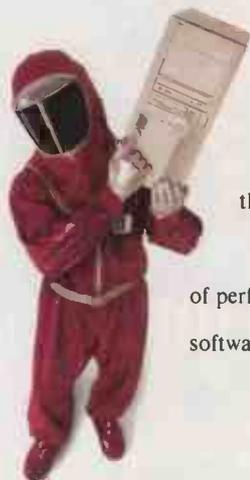
**Conclusion** Ideal as a first line of defence against hard disk failure.

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as the property of their respective owners.

# Wacom Intuos

**Wacom delivers in spades with its new graphics tablets. Perfect for the digital artist.**

Let's face it: for drawing or handwriting, mice suck. The only solution is a graphics tablet, and market leader Wacom has revamped its analogue ArtPad II and UltraPad ranges with its new digital Intuos system, consisting of five new tablets and six input devices. Each Intuos pen has a unique ID which is recognised as it approaches the tablet's surface. You can set various preferences for each pen, such as the brush style and colour, and have them automatically recalled when used. The standard pen now boasts twice the pressure sensitivity than before, plus the ability to recognise tilt. Most exciting of all is a new airbrush pen (£74.95), complete with a programmable finger wheel which can be set to adjust ink flow. The intriguingly-named 4D Mouse includes the usual two

rodent dimensions, along with side wheels and the ability to recognise rotation. The mouse has no ball either, or a cord or even a battery for that matter. Like the pens, it employs a resonant coil which the tablet can use for positional and control information.

**All configurations** are bundled with a modified version of Painter and a set of Photoshop compatible plug-ins. Prices start at £129 for the A6 with the standard pen, to the A3 with pen and mouse for £579. Our A4 regular cost £349 with pen and 4D Mouse and was great fun to use — I even found myself humming the theme to Tony Hart's Gallery.

GORDON LAING



## PCW DETAILS



**Price** £152 to £680 (£129 to £579 ex VAT)

**Contact** Computers Unlimited  
0181 358 5857

[www.wacom.de](http://www.wacom.de)

**Good Points** Most flexible tablets yet.

**Bad Points** No USB version so far.

**Conclusion** Essential for graphics users.

# Videologic DVD Player

**One of the latest generation of hardware DVD Video decoder cards.**

DVD Video needs a lot of processing power to decode if done in software. The alternative method is to design dedicated hardware to do the donkey work. This gives higher quality and more consistent results, and

opens up the field to users of lower-end machines: Videologic gives a minimum processor spec of a Pentium 133, meaning that DVD will finally be within the budget of many PC users.

Remember that DVD Video will only look its best on a television: a monitor is actually "too good", meaning that any pixellation is very obvious, whereas the extremely bright, slightly fuzzy image of a telly tends to smooth out these kind of problems. Consequently the DVD Player sports a composite video output for hooking up to a TV. The first-generation PC-based DVD decoders were disappointing, giving slightly inconsistent frame rates and less than ideal image quality but the DVD Player far exceeds any VHS video you'll have seen.

**To watch films** on your PC monitor, you need to route the output of your graphics card into the socket on the back of the card. You then connect the monitor itself to the DVD Player. When you're playing a DVD movie, the card

then overlays the movie picture onto the signal from your monitor. A little thought reveals that a consequence of this is the fact that you can't do standard screen grabs using Paint Shop Pro or whatever. The DVD Player software, however, has a screen grab function, but some DVD titles don't allow this.

DAVID FEARON

• See this month's group test of DVD drives, page 213.

## PCW DETAILS



**Price** £119 (£101 ex VAT)

**Contact** Videologic 01923 260511

[www.videologic.com](http://www.videologic.com)

**Good Points** Quality on a par with a dedicated consumer player. Works with low-end Pentiums.

**Bad Points** Who wants a PC whirring away in their living room?

**Conclusion** If PC-based DVD-Video is what you want, Videologic's solution is as good as any.



# STB Velocity 4400

**An excellent graphics card that can push any fast-moving PC game to the limits.**

STB has been producing PC graphics cards for quite some time now, although it's fair to say that in recent times it hasn't been as prominent as the ATIs and Matroxes of this world, relying as it does on third-party chipsets rather than designing and manufacturing its own. The Velocity 4400 continues this trend, being fitted with the Riva TNT chipset, manufactured by nVidia. Fortunately for STB, however, the TNT is an absolutely storming performer.



The Velocity 4400 is fitted with 16Mb of VRAM, enough to run a 3D desktop application such as trueSpace at 24-bit, 1,280 x 1,024 resolution with 24-bit Z-buffering.

**For the less technical user,** all that memory means super-high resolutions in 3D games. But of course, running Quake II at 1,024 x 768 wouldn't be much fun if the frame rate were poor. We tried doing just that and achieved a rate of 30fps on a PII 266, giving totally smooth gameplay. Final Reality scores were predictably high, with a 3D score of 4.50, and 4.40 overall. It really is stunningly fast, giving performance roughly equal to a dedicated Voodoo 2 add-on card. But remember, the Velocity 4400 is a combined 2D/3D card,

meaning there's no messing about with video pass-through and no extra PCI slot is required.

The card features a TV-out socket for gameplay via a television. There are drivers for Direct3D and OpenGL applications, and the Windows 95/98 properties panel lets you adjust a comprehensive set of options for both APIs individually. There's no doubt that the Riva TNT is currently the best 2D/3D chipset out there, and the Velocity 4400 uses it to supreme effect.

DAVID FEARON

## PCW DETAILS



**Price** £129 (£109 ex VAT)  
**Contact** STB 01753 212600

[www.stb.com](http://www.stb.com)

**Good Points** Superb performance. Comprehensive driver options. TV output.

**Bad Points** A little pricey.

**Conclusion** A good implementation of an excellent chipset.



# Hercules Terminator Beast

**If you're after a graphics card but you're on a budget, this could be one to consider.**

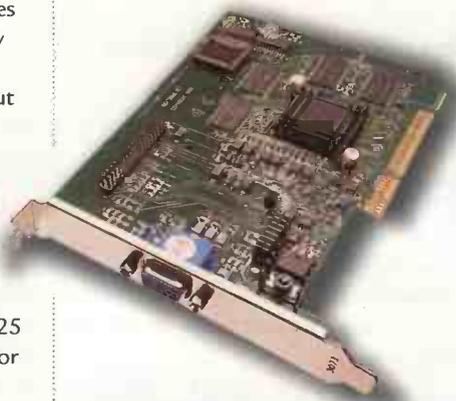
The Virge chipset from S3 was one of the earliest graphics card chipsets to sport hardware 3D acceleration. However, it was heavily criticised by gamers for its poor performance. The Savage 3D chipset in the Terminator Beast graphics card is S3's gallant attempt to remove the stigma of the Virge, and to this aim it does well. The Beast has 8Mb of non-expandable SDRAM running at 100MHz. The chipset supports video memory running at up to 125MHz, so the Beast isn't extracting the absolute best from the hardware.

These days, all graphics cards have excellent 2D graphics performance: it is the 3D capabilities and speed that differentiate the best from the rest. On the features front, an interesting aspect of the Savage chipset is support for the S3TC texture compression format which

is part of Microsoft's DirectX 6. Games using this texture format can allegedly achieve up to four times better performance on the Hercules card, but none have so far appeared.

**The Terminator Beast** we tested was sent with the reference drivers from S3: Hercules appeared to have made no major effort to create its own drivers. Even so, it returned a respectable 3D score of 4.25 in our Final Reality benchmark test. For the game Incoming, a non-stop 3D action shooter, the card achieved a frame count of 83fps. Although faster than older cards like the ATI Rage Pro, the Terminator Beast trails behind its contemporaries sporting the likes of nVidia's Riva TNT and 3Dfx's Banshee chipsets. But the Beast is certainly no slouch, and TNT cards in particular are considerably more expensive. The card's 2D and 3D image quality is excellent, and it has motion compensation for DVD playback.

AJITH RAM



## PCW DETAILS



**Price** £72 (£59 ex VAT)  
**Contact** Acal Electronics 01344 723322  
[www.hercules.com](http://www.hercules.com)

**Good Points** Good 2D performance. Nice image quality. Low price.

**Bad Points** 3D performance not fantastic by current standards. RAM not upgradeable.

**Conclusion** A good graphics card for those on a budget.

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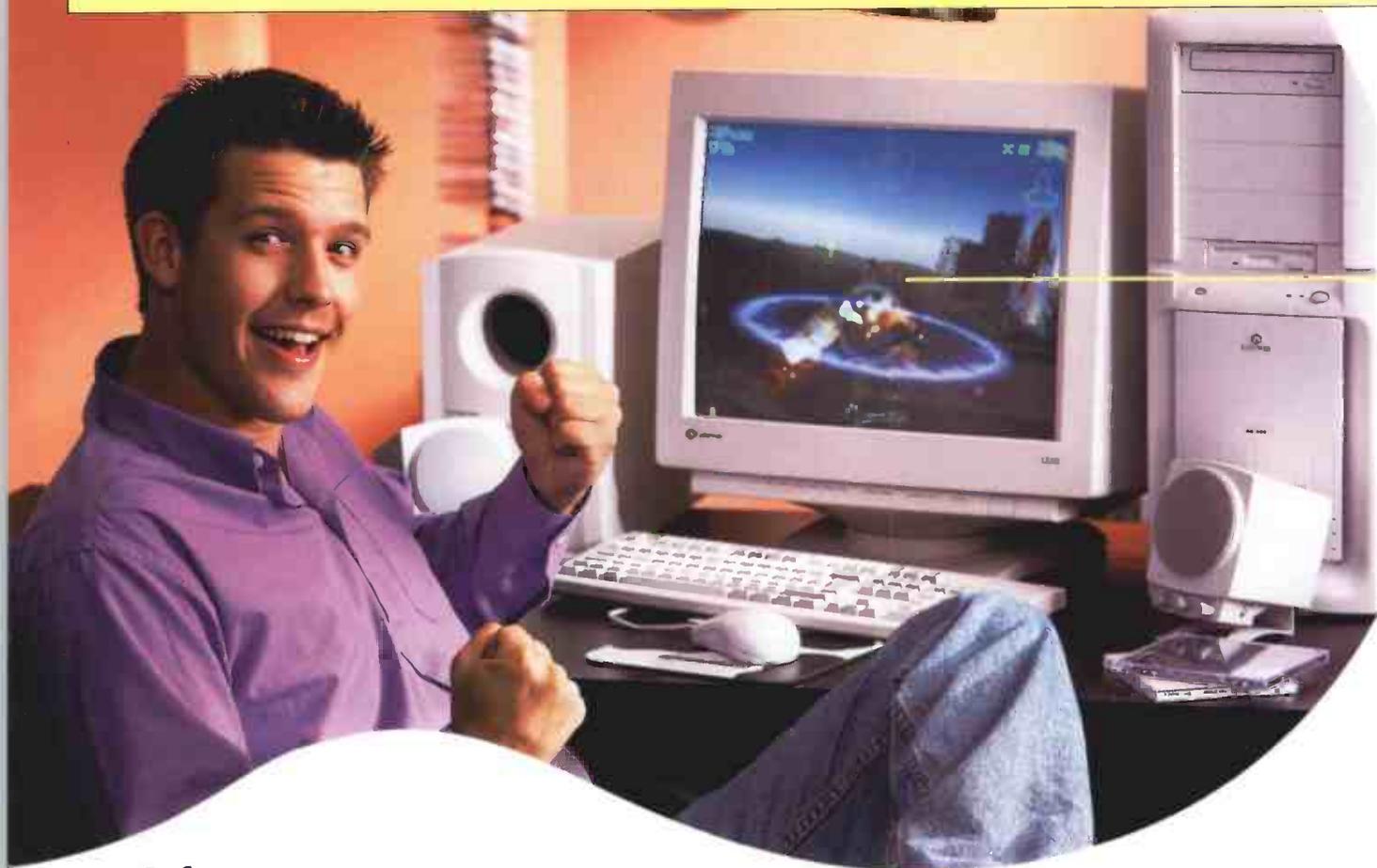


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## Software

### MICROSOFT PACKS

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- **Gateway Arcadia**  
MS Flight Simulator™ 98; MS Age of Empires; MS CART Precision Racing; MS Monster Truck Madness™; MS Golf.
- **Gateway Source**  
MS Encarta® Encyclopedia 98 (US Version); MS AutoRoute™ Express Europe 98; MS Publisher 97; Greetings Workshop.
- **Gateway Young Scholar**  
MS Creative Writer 2.0; Scholastics™ The Magic School Bus: The Solar System, The Ocean, The Human Body, In the Age of Dinosaurs; 3D Movie Maker (Nickelodeon).

### HOME PACKS

- **Reference Pack**  
Encyclopedia Britannica (Britannica); Oxford Reference Shelf (Oxford University Press); Pinball Science (Dorling Kindersley); History of the World 2.0 (Dorling Kindersley); Encyclopaedia of Science (Dorling Kindersley); Chronicles of the Twentieth Century (Dorling Kindersley). **£50 (£58.75 inc. VAT)**
- **Family Pack**  
Geoff Hamilton's 3D Garden Designer (GSP); Rhodes on ROM (Anglia Multimedia); Visual Home Deluxe (Fasttrak); BMA Family Medical Dictionary (Dorling Kindersley); Family Tree Maker (GSP). **£50 (£58.75 inc. VAT)**

## Peripherals



**Epson® Stylus Photo 700 Colour Printer**  
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**Thrustmaster® Formula 1® Arcade Steering Wheel**  
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### POWER GAMES PACK

- **Power Games\***  
Unreal™ (GT Interactive™); Quake II™ (ID Software™); Forsaken (Acclaim™); Conflict Freespace™: The Great War™ (Interplay™); Motorhead™ (Gremlin™); Battlezone™ (Activision™); Incoming™ (Rage™). **£99 (£116.32 inc. VAT)**

### EDUCATION PACKS

- **First Steps**  
Noddy – The Magic of Toytown (BBC); Pingu – A Barrel of Fun (BBC); Animals of Farthing Wood (BBC); Crayola Magic 3D Colouring Book (IBM); Crayola Magic Wardrobe (IBM); Stanley's Sticker House (Edmark); Muppets – Read, Listen and Learn (IBM/Edmark). **£50 (£58.75 inc. VAT)**
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- **Secondary School Pack**  
GCSE Revise Maths (DK/Acacia); GCSE Revise Geography (DK/Acacia); GCSE Revise Physics (DK/Acacia); GCSE Revise Chemistry (DK/Acacia); GCSE Revise Biology (DK/Acacia); Revise for GCSE Series English (GSP); Revise for GCSE Series French (GSP); Revise for GCSE Series German (GSP). **£50 (£58.75 inc. VAT)**

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- **Contents suitable for persons aged 17 and over**



**Sony® Mavica MVC-FD51**  
A fully portable digital still camera with a built-in 3.5" floppy disk drive. Transferring up to 30 pictures to your PC and sending them to family and friends via e-mail is now cost effective and simple. The camera can be used for up to 2.5 hours, it has a 2.5" TFT display, built-in flash and special picture effects.  
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**HP Scanjet 5100C**  
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# With Your:)Ware™

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The superb Gateway G6-450XL we built for Jon is a serious piece of kit. It's based on the speedy Intel Pentium II Processor, 450MHz, the fastest in the range. It's also got a massive hard drive, crystal clear soundcard and speakers plus a Voodoo2™ 3D graphics accelerator. This system will run Gateway's Power Games Pack with ease, so he can experience the most mind-blowing sound and intense graphics possible this side of the 21st century. Jon had almost as much fun configuring his new system as he does using it, and in two years' time, when he trades it in towards a new Gateway through Your:)Ware, he'll have a whole new range of top components to choose from. Making up his mind between them may even slow him down a fraction.



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LET'S TALK ABOUT YOUR NOTEBOOK

# Mike never thought he'd achieve so much out of so little.



Mike could hardly believe it when we told him we could pack all the normal mainstream notebook functionality into the ultra-size Gateway Solo 3100 we built him. He also couldn't believe it would cost so much less than he thought for a notebook of this quality. It's smaller than an A4 piece of paper, weighs only 2.3kg, yet its Intel Pentium II processor, 233MHz, offers massive processing power. He likes the 12.1" TFT screen, built in CD-ROM and the full



size keyboard, while the Lithium battery lets him stay out of the office for hours. As with all Gateway Solo notebooks, we built it to meet his precise needs. Mike says it's true what they say about great things coming in small packages.

## MIKE'S NOTEBOOK

### Gateway Solo™ 3100SE

- 12.1" SVGA TFT Colour Display
  - Intel® Mobile Pentium® II Processor, 233MHz
  - 512KB L2 Cache
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  - 32MB SDRAM (expandable to 96MB)
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  - Portfolio leather case
  - 2.3kg - 285 (W) x 215 (D) x 31 (H) mm
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- £1549 (£1820.07 inc. VAT)**  
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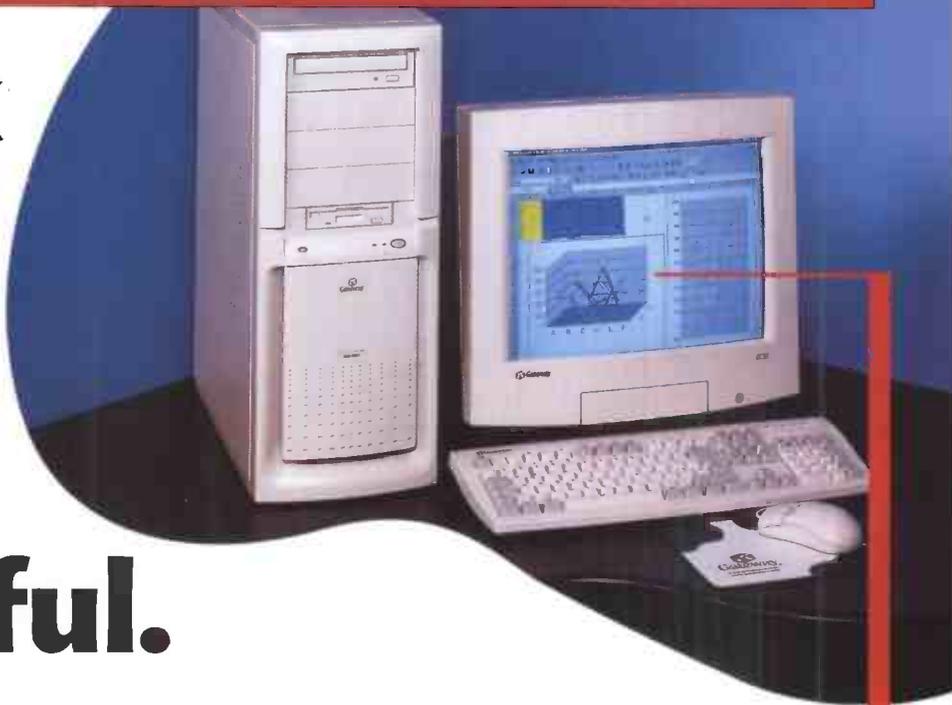
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- ATX Mini Tower Case
- 105 Keyboard
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- Sound Blaster™ AudioPCI™ 64D
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PlanIT Health & Safety2  
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98; MS AutoRoute Express 98

<sup>†</sup> When you upgrade to Microsoft Windows NT Server 4.0.

<sup>\*</sup> YourWare qualifying software.

# Let's talk about what you want.

Now's the time to start browsing through our choice of computers. Here are some example configurations. If there's something you would like to change, just tell us. Our priority is that you are happy with your Gateway. After all, it's going to play a big part in your life for some time to come!

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- 3.5" 1.44MB Floppy Disk Drive
- 13X min/32X max 90ms CD-ROM
- NVIDIA Riva 3D AGP Graphics w/ 8MB SDRAM
- Sound Blaster™ AudioPCI™ 64D
- Altec® Lansing GCS100 Speakers
- 56K Winmodem® — Internal<sup>1</sup>
- 15" EV500 0.28dp Monitor<sup>1</sup>
- ATX Desktop Case
- 105 Keyboard
- Microsoft® Windows® 98, MS® IntelliMouse™
- McAfee Anti-Virus Software
- MS Home Essentials 98\*
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- 3.5" 1.44MB Floppy Disk Drive
- **Toshiba™ DVD-ROM III Drive and MPEG II Decoder**
- NVIDIA Riva 3D AGP Graphics w/ 8MB SDRAM
- Sound Blaster AudioPCI 64D
- Altec Lansing GCS100 Speakers
- 56K Winmodem — Internal<sup>1</sup>
- 17" EV700 0.28dp Monitor<sup>1</sup>
- ATX Tower Case
- 105 Keyboard
- MS Windows 98, MS IntelliMouse
- McAfee Anti-Virus Software, MS Internet Explorer 4.0
- MS Home Essentials 98\*
- Choice of a Gateway Software Bundle: Arcadia, Source or Young Scholar\*\*
- Year 2000 Hardware Compliant<sup>3</sup>

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 Loan Value £1325.40 Credit Limit £1470  
 34 payments of £49, one final payment of £28.90  
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### Professional PC

#### GP6-350

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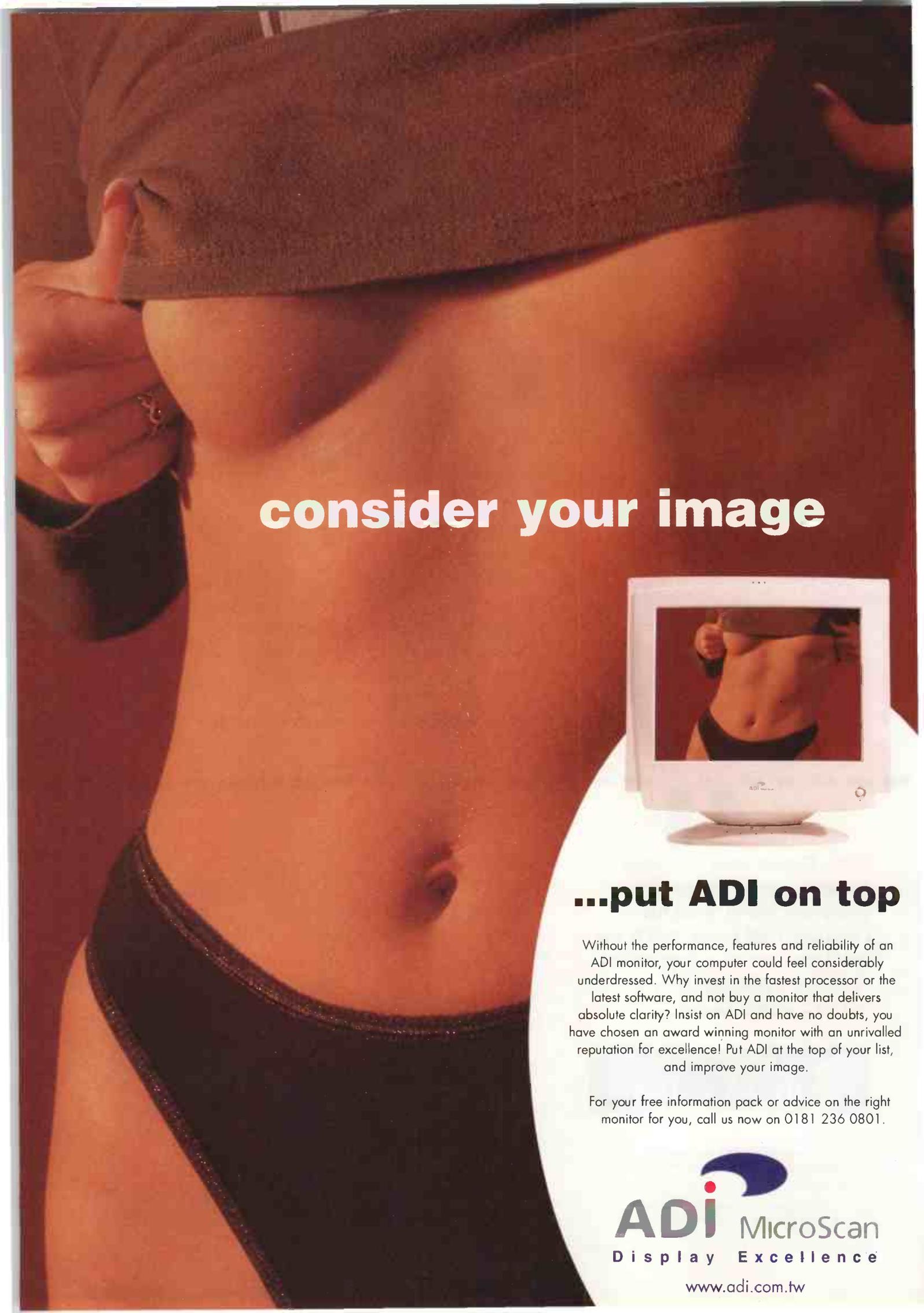
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# Caligari trueSpace 4

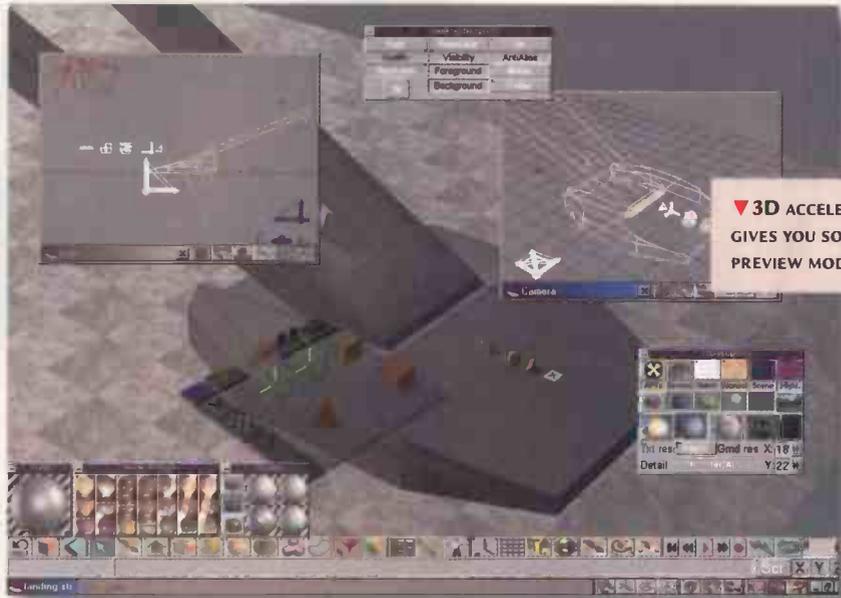
## True to life

**This class-leading modelling program has been enhanced for even better performance.**

Caligari's flagship product has always been at the top end of affordable 3D design and rendering packages. It's accessible to the serious enthusiast but with enough features for the professional to take an interest. Now at version 4, the package displays some impressive enhancements over version 3. Since version 3, however, serious competition has appeared in the form of NewTek's Inspire 3D, the "lite" version of LightWave.

The package now bears the slogan "born to accelerate"; in other words, there is support for OpenGL and Direct3D acceleration, allowing you to work in solid mode in real-time. There are several different modes, including the ability to display solid models as semi-transparent with the wireframe superimposed, a good compromise that really helps prevent disorientation when modelling. Obviously, to take advantage of these features you'll need a 3D graphics card with decent OpenGL support. If you're not blessed with such a device, there's the option of using Intel's 3DR emulation, but this was painfully slow and tended not to update correctly when moving objects around.

**There are a significant** number of new tools. A fantastically useful feature over version 3, but which was included in the



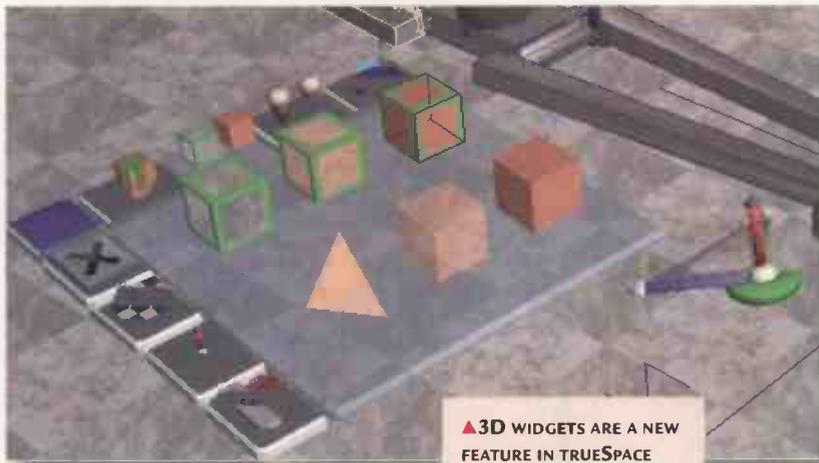
**3D ACCELERATION  
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point releases, is area rendering, allowing you to rubber-band a small rectangle of the screen rather than having to calculate the entire scene. This is excellent for tweaking lighting effects that only show up in a final, high-quality render.

This brings us neatly to the most important aspect of any 3D rendering package, the renderer itself. TrueSpace now uses the Lightworks Pro engine from Lightworks Design, which adds a number of features, primarily radiosity rendering. This can significantly increase the realism of a scene, particularly enclosed spaces such as rooms, by modelling the diffuse light reflections from all surfaces, not just direct reflections from light sources.

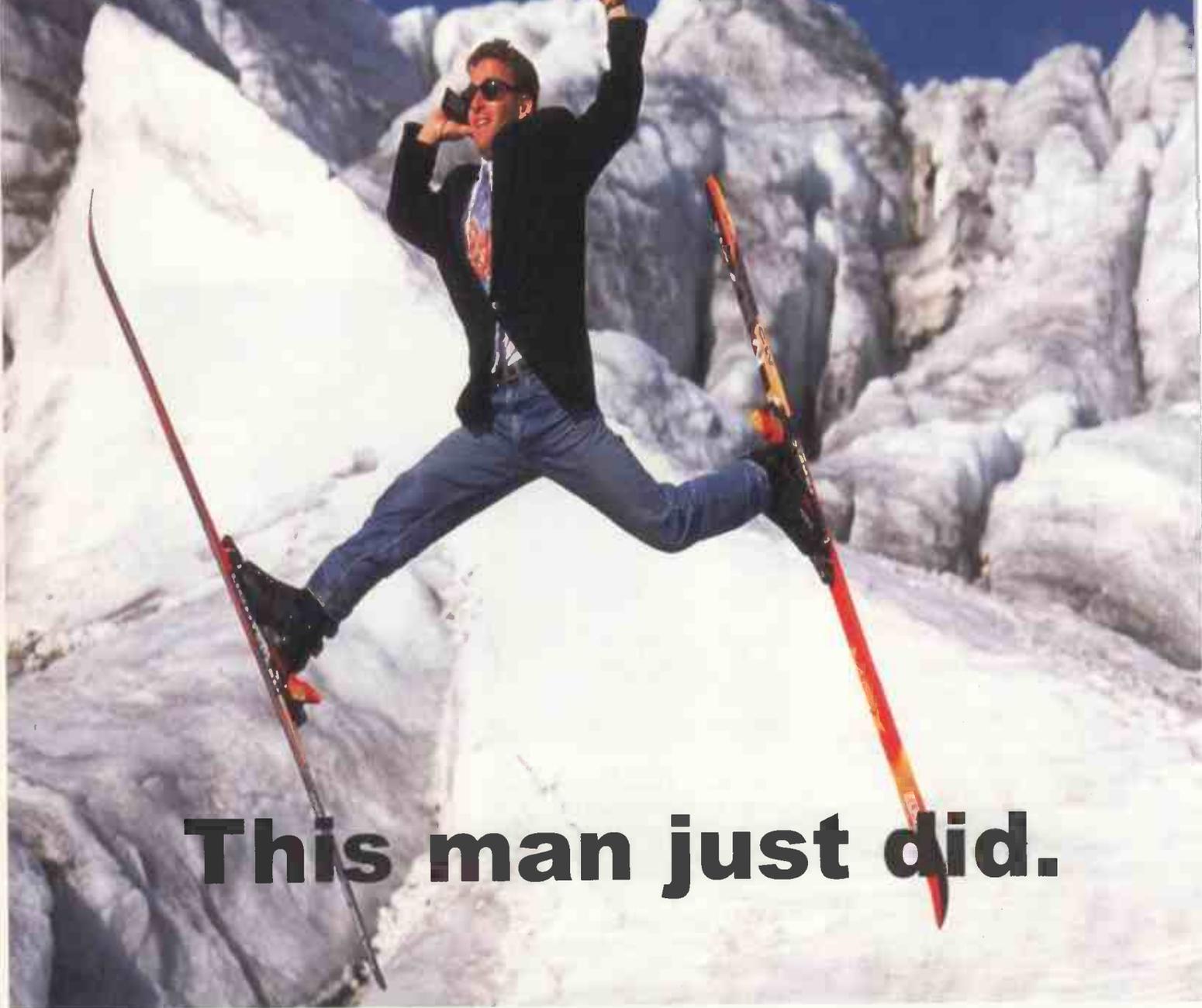
Unsurprisingly, it's very computationally expensive, although a radiosity solution only needs to be calculated once for a given scene if the geometry doesn't change. This solution is then combined with whatever rendering scheme you have selected. Another major augmentation is volumetric rendering, so spotlights in a scene can have a visible foggy beam, great for creating atmospheric effects. Again, however, using volumetric lights greatly increases rendering times. To assist in speeding things up, trueSpace 4 has support for SMP (symmetric multi-processing) under NT. There's no support for network rendering as yet, but then, the target market for this package isn't likely to have a render farm.

**The Lightworks Pro engine** brings with it more sophisticated materials and texturing facilities. There are now more parameters (called shaders) available for basic material attributes: colour, reflectance, transparency and displacement. The displacement shader goes further than basic bump mapping, allowing you to apply procedural-type displacement effects as well as maps. Anisotropic reflectance shaders simulate materials such as brushed metal where the apparent colour depends on the viewing angle. To further increase the



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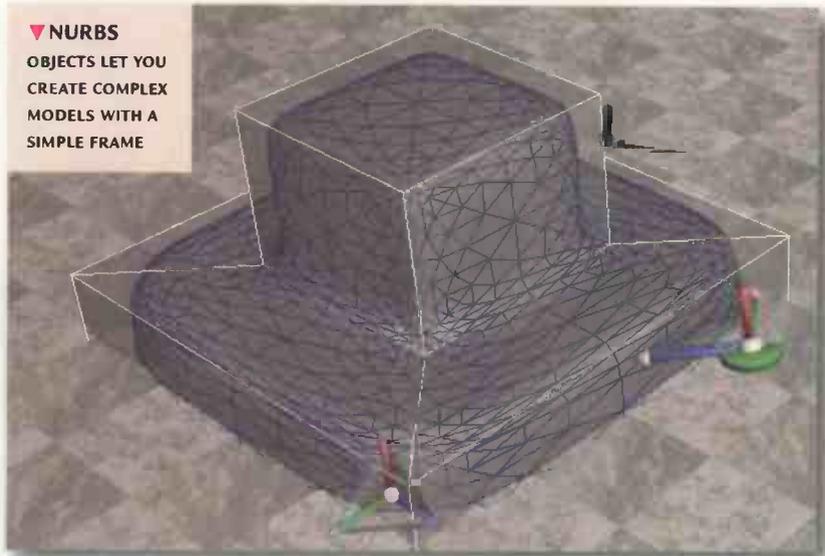
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quality of your finished renders, you can now have multiple layered textures with adjustable transparency. This is an important factor for increased realism and helps reduce that perfect, "plastic" feel: adding layers of grime is one of the best ways to make objects look more convincing, and gives them a sense of scale.

**The area in which** trueSpace has always excelled is the ease and intuitiveness of its modelling interface. If you can visualise a 3D object in your head, it's incredibly

easy to build that object with the minimum of fuss — it beats the likes of Infini-D, Inspire and even 3D Studio Max in this respect. There are a couple of new point editing tools that make the process even easier: you can now select points and faces by dragging a bounding box rather than selecting individually. For even greater control, you can draw a selection lasso around the particular points or faces you want to select, or use the freehand selection tool to keep the mouse button held down and "paint" your selection over an object. As well as

### *Adding layers of grime is one of the best ways to make objects look more convincing*

these new tools, the basic face, edge and vertex selection algorithms have been tweaked, making them more accurate and reliable and largely avoiding that frustrating syndrome whereby trueSpace refuses to select an edge even though the mouse pointer is directly over it.

To attempt to improve the user interface still further, trueSpace4 features 3D widgets. These take the form of a global properties panel, similar to a standard toolbar but rendered in 3D which sits flat in the workspace, and also

context-sensitive tools that will float next to the currently selected object. The idea behind all this is that presenting tools within the 3D workspace makes modelling feel more natural and immersive. I have to say that it didn't work for me; the floating widgets always seemed to be in front of something I wanted to see, and I quickly went back to the standard 2D icons.

**NURBS objects** are now also fully supported, letting you create complex, smooth-surfaced models given a simple frame object. NURBS objects can be edited interactively, letting you tweak the frame and update the underlying NURBS mesh in real-time. You can then convert the object to a standard polygon mesh, discarding the frame, allowing for normal point editing and manipulation.

If modelling is the area where trueSpace excels, animation is its weakest point. Up until version 3 you needed the

patience of a saint to get any kind of results. With the 3.1 release, the key frame editor was overhauled, actually making it usable. With version 4 we finally have spline-based movement and rotation editing, allowing you to fine-tune the velocity and acceleration of animated objects to get movement appropriate to the type of object you're animating.

A related tool is the preview animation option, which runs an animation in the current window in either wireframe or D3D mode, capturing the results to an AVI. This lets you preview the motion as it will appear in the final render. The process of animation is, of course, still a long and frustrating one, and getting the hang of the key-frame system takes an awful lot of practise; in particular, you have to remember that the type of key-frame set depends on the currently selected tool.

**The object hierarchy tool** is still supplied as a plug-in: it works perfectly well, but integration into the full package would seem a natural step. The particle plug-in supplied with version 3 has gone, to be replaced by a very useful zoom tool, letting you select a scene area to zoom in on with a rubber-banded rectangle. A final gripe is the undo tool, which still seems completely random in what it will and won't undo, and you can never predict how many steps it will let you go back. Frequent incremental saving is the order of the day.

At this price point trueSpace is still the top package around. Although the quality of Inspire's rendering engine is a big factor in its favour, it suffers from the 640x480 animation size limitation. TrueSpace isn't perfect, but all things taken into account, it is extremely powerful and great fun to use.

DAVID FEARON

#### **PCW DETAILS**



**Price** £464 (£395 ex VAT)

**Contact** Caligari 0118 982 9826

[www.caligari.co.uk](http://www.caligari.co.uk)

**System Requirements** Windows 95, 98 or Windows NT 4.0, Pentium 120 (Pentium II recommended), 32Mb RAM (64Mb recommended), 20Mb free hard-disk space, VGA Graphics (3D video card recommended)

**Good Points** A wealth of 3D tools, plus comprehensive rendering options.

**Bad Points** Animation is very tricky. The undo tool still seems erratic.

**Conclusion** The best of the mid-range 3D packages is now definitely better.



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# FileMaker Pro 4.1

## Expert manager

**Web-compatible software that's able to keeps tabs on all your data.**

**F**ileMaker is the ideal database manager if you are looking for ease of use rather than a vast array of features. That does not mean FileMaker lacks power. It can manage huge amounts of data, works well on a network with up to 25 simultaneous users (a server version can extend this to 100 users), and comes with an integrated, easy-to-use web server for instant web deployment. Check the box for Web Companion, tick the fields and features you want to publish, and point your browser at the web address. Unlike solutions based on HTML export, this is real dynamic access to data, with the ability to modify and delete data. Java-enabled browsers are required.

**The main problem** with the original implementation of the web deployment feature was the difficulty in modifying or extending the default web forms. The problem has now been largely overcome by Claris HomePage 3.0, a web page designer that includes the FileMaker Connection Assistant. This then creates pages with dynamic links to a FileMaker database, which you can modify and supplement using either HomePage or a HTML editor. All that remains is to copy the site to FileMaker's web folder. HomePage 3.0 comes bundled with FileMaker Developer Edition.

FileMaker does a great job of shielding the user from unnecessary complexity. A good example is that whereas most database managers require you to specify the maximum width of a field and whether you want it indexed, FileMaker does both automatically. Forms, reports and merge letters use essentially the same layout designer. Learn one, and you can use them all. There isn't much in the way of wizards, but you can get a quick start with database design by using one of around 100 templates.

*Does a great job of shielding the user from unnecessary complexity*

**The major new feature** in version 4.1 is ODBC import: you can import from an ODBC data source, using a series of dialogues to build a query, and map the fields to a FileMaker database. This is handy, but frankly it is not what FileMaker most needs. It has never been all that difficult to get data from an ODBC source into FileMaker, by first exporting it in a compatible format such as dBase.

The challenge is the other way, reading FileMaker data from another application such as Access or

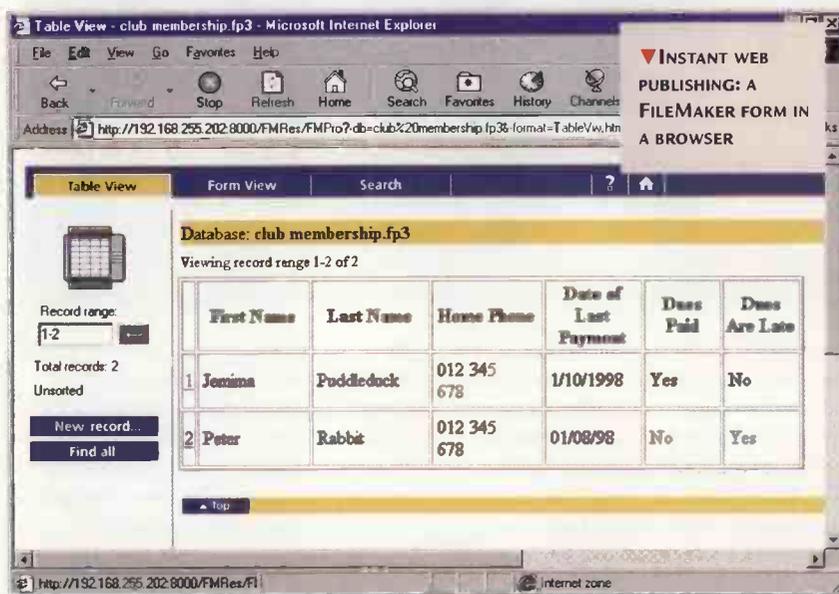
Word. Sadly this is still not possible, nor is it possible to link dynamically to an ODBC source, although you can simulate this with scripts that automate the import.

Ambitious users will want FileMaker 4.0 Developer Edition. This includes a facility to create runtime applications that can be freely distributed. There is also a bundle of goodies, including Java classes for talking to the FileMaker web server, and a large range of extra tools and widgets to enhance layouts.

**Should you use FileMaker Pro?** Well, if your needs lie within its considerable

range of capabilities, then it merits serious consideration. Be cautious, though, if you need rich integration with Windows. FileMaker data cannot be read by other applications, and there is no support for OLE automation or ActiveX controls. But the fact remains that you can have a web solution running in an afternoon that would take days using other solutions.

TIM ANDERSON



### PCW DETAILS

★★★★★

**Price** £198.58 (£169.00 ex VAT)  
Developer Edition £458.25 (£390 ex VAT)

**Contact** FileMaker 0845 603 9100

[www.filemaker.com](http://www.filemaker.com)

**System Specification** PC: Windows 3.1 or higher, CD-ROM, 486/33 with 16Mb RAM. Mac: CD-ROM, System 7.1 or higher with 16Mb RAM.

**Good Points** Easy to use. Highly capable. Instant web publishing. Integration with Claris HomePage possible.

**Bad Points** Cannot read FileMaker data from other applications. No support for ActiveX. ScriptMaker less powerful than languages like Visual.

**Conclusion** The best end-user database manager available.



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# NemeSys GigaSampler

## Lifelike sounds

The last word in **sampling programs** — this one sounds almost like the real thing.

Audio programs like Cubase VST have proved that it's possible to run a virtual studio inside your PC. But there seems to be no stopping the technology there. You can now deck out your studio with software-based effects and equip your PC with dozens of virtual synthesisers — and all achievable without dedicated DSP hardware. So what's coming next? The virtual sampler, of course.

GigaSampler is said to be the world's largest sampler. That's not to say you'll need a warehouse to store it in; it's the biggest because it can handle up to 4Gb of instrument samples in a single session. Until now, professional hardware samplers have been limited to 128Mb of RAM. Although this is more than adequate for most users, it takes something on a much larger scale to accurately

reproduce, say, a piano or an acoustic guitar. GigaSampler works by streaming samples off disk in real-time. Using a sophisticated caching system, it can deliver up to 64 voices of polyphony with no noticeable audio delays. It also provides 16 MIDI channels for multi-timbral use, supports DirectSound-compatible sound cards, and has more features to offer than the best professional hardware samplers.

The package comes on three CDs and requires 2Gb of hard disk for a full install. This includes around 40 sets of instruments, the best of which is a massive 1Gb Yamaha concert grand piano; most PC sound cards squeeze over 200 instrument samples into just 2Mb of ROM. So what does a 1Gb piano sound like? Let's just say that if you were to listen to a piece of music that was recorded with the real thing, and compared it to GigaSampler, you'd be hard pushed to tell the two apart.

The piano comprises 704 sampled notes, each recorded with full natural



decay. This breaks down to eight velocity-triggered samples per key: four with the sustain pedal applied, and four without. The meticulous detail doesn't end there, though. A second set of samples are triggered when you play in a staccato style. This enables each note to "ring"

with resonance after a key has been released — just like a real concert grand.

The piano is just one example of what can be achieved. In addition to the sampler interface panel, the package includes an audio editor, an instrument editor and a utility for converting Akai CD-ROMs into its native format. There are currently over 300 Akai discs available, containing banks of sounds as diverse as the human voice through to sampled drum loops and orchestral instruments. Additionally, EastWest Sounds — one of the major sampling CD producers, is developing optimised sound sets for the GigaSampler.

The interface panel looks and feels like a real rack-mounted sampler and provides access to the more commonly used features. To load an instrument, you simply have to drag a file from the instrument loader onto one of the 16 channels. The 1Gb piano takes just 30

seconds to fire up, much faster than traditional samplers. Playable instruments are created with the instrument editor. Many time-consuming tasks, like assigning samples to key regions, can be automated in seconds using the Wizard tool. The Wizard recognises

the pitch of each sample and, depending on the parameters you set, can configure velocity splits, cross-fades and other complex settings. The range of parameters on offer far outstrips what's available on any hardware sampler, and provides some new and very powerful techniques for accurately emulating acoustic instruments.

In use, GigaSampler performed better than I ever expected. The note-on response is very tight and the range of real-time controllers provides unparalleled scope for musical expression. At £425 it may not be cheap, and you will need a fast PC to run it. But if you're looking for the ultimate sampling workstation, nothing comes close to this.

STEVEN HELSTRIP

### PCW DETAILS



Price £499 (£425 ex VAT)

Contact Turnkey 0171 379 5148

[www.nemesysmusic.com](http://www.nemesysmusic.com)

**System Specification** Windows 95/98, Pentium II 233MHz, 128Mb RAM, 6Gb disk with 10ms access time, DirectSound compatible sound card.

**Good Points** Tight note-on response. Breathtaking piano. Reads Akai CD-ROMs.

**Bad Points** Requires a meaty system to deliver its full potential.

**Conclusion** This is the cheapest way to get your hands on a concert grand.

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PC Advisor  
May/June '98  
Pro 17



PC Week  
May '98  
Pro 400



Computer Shopper  
August '98  
Pro 400

# Quarterdeck CleanSweep Deluxe Version 4

An updated version of the professional hard-disk cleaner.

Thanks to an overwhelming disregard by most applications for the value of hard-disk space, there are plenty of uninstaller and clean-up utilities on the market, although none have yet managed to topple Quarterdeck's CleanSweep from the top of the pile. The introduction of CleanSweep Deluxe at the beginning of this year brought with it a host of useful tools to reclaim storage space and the latest version adds a few more to your arsenal, plus support for Windows 98.

Unfortunately, existing users will be disappointed with CleanSweep Deluxe 4 as the new features consist of nothing more than a triplet of utilities that are not integrated with CleanSweep. Fast and Safe Cleanup aims to reduce the time spent on hard-disk housekeeping by looking in five of the most likely locations for accumulated rubbish and automatically deleting it. Internet browser caches get targeted as they can have an unhealthy appetite for disk space. In fact, Netscape Navigator defaults to storing 7.5Mb of web pages before it starts deleting the oldest ones. Browsers keep a record of the links to web pages that have been viewed, so the history records will be removed as well. Cleanup also looks in the Windows Recycle Bin and the Windows/Temp directory, and will search for any lost cluster files. For the last two areas, Cleanup will only delete files that haven't been changed or viewed for the past seven days. You can run Fast and Safe Cleanup at any time or automate the process using a built-in scheduler. This can be set to run Cleanup every time Windows starts up or at set times every few days.

The second utility, Quarterdeck Safe, will protect files that are accidentally deleted and placed in the Recycle Bin. You may, for example, want to make sure that no Word documents or Excel

spreadsheets are ever deleted from your system. Select the .DOC and .XLS file extensions from the comprehensive list provided by Safe and it will ensure that those file types are always removed from the Recycle Bin and placed under its protection. You can view the contents of the Safe at any time and restore files back to their original locations. The Safe works hand-in-hand with Fast and Safe Cleanup, so the latter will pass any protected file types over to the Safe instead of deleting them from the Recycle Bin. The Safe also prevents selected files from being removed if the Recycle Bin is emptied, but it won't stop you manually deleting them.

Quarterdeck completes the package with its Zip-It utility for creating or extracting archives. This provides pretty much the same tools as the ever-popular WinZip. The main interface looks more basic, but you can select groups of files

to be compressed into an archive, use password protection and also create self-extracting

executables for distribution. Zip-It replaces the TuneUp AV anti-virus utility that came with the previous version of CleanSweep, and not a moment too soon, as it was too rudimentary to be of any serious use in protecting your data.

The main CleanSweep program sees no changes at all. It runs on Windows 95/98 and Windows NT 4 and provides an array of wizards for safely removing unwanted applications, cleaning up hard disks and modifying the registry. The internet utilities are particularly useful as CleanSweep keeps an eye on browser caches — which, incidentally, is a function duplicated by the new Cleanup tool. It also monitors downloads, removes

▼ STILL THE BEST COLLECTION OF UNINSTALLER TOOLS BUT NO CHANGES TO THE MAIN INTERFACE IN THIS VERSION



▲ AUTOMATIC DISK SPACE RECOVERY WITH FAST AND SAFE CLEANUP

ActiveX controls and keeps track of cookies — those little data files that web sites place on your hard disk to record your visit.

Overall, we can't see much to tempt existing users of the previous version to upgrade, but those yet to invest in an uninstaller and clean-up utility should put CleanSweep Deluxe 4 at the top of their shopping list.

DAVE MITCHELL

**...contains a host of useful tools to reclaim vital storage space**

## PCW DETAILS



Price £46.95 (£39.95 ex VAT); upgrade £23.50 (£19.99 ex VAT)

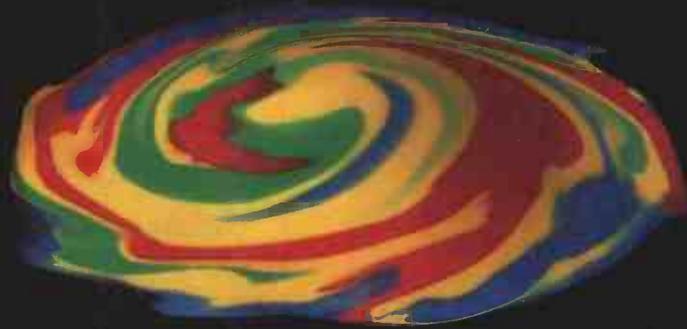
Contact Quarterdeck 0645 123521

[www.quarterdeck.co.uk](http://www.quarterdeck.co.uk)

**Good Points** Easy to use with a superb range of tools to keep hard disks free of unwanted data.

**Bad Points** Not enough new features to justify the upgrade price.

**Conclusion** Still the best uninstaller and clean-up utility on the market.



was modelling clay

now angry parrots fighting

by lee aged 7



was mobile phone

now web surfer

by vaio

The Sony VAIO 505FX is a B5 size notebook that weighs just 1.35kg. It features an Intel® Pentium® Processor with MMX™ Technology 266MHz, 32 MB of RAM and a 4.3GB hard disk. Connect it\* to Sony's CMD-Z1 Plus mobile phone and, using the bundled 4-in-1 modem card and Phone-Tools software, this notebook becomes something else. A Web surfer. Plug in\* our PC-1 digital video camcorder and it becomes a special effects studio. Plug in\* our MDS-PC1 MiniDisc deck and it becomes an audio editing suite. And that's just the beginning. Soon, VAIO World will be a place where all our digital products can join together to create new possibilities. All you have to do is open up your mind. And your VAIO Notebook. For further information phone 0990 424 424.

[www.sony-europe.com/vaioworld](http://www.sony-europe.com/vaioworld)

SONY

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VAIO

# MapInfo Professional 5.0

## Lost and found

If you're trying to find a comprehensive mapping solution, look no further.

If you use Excel, you'll be familiar with MapInfo as it provides the root software for the mapping facility. It's easy to use but limited in scope. MapInfo Professional 5.0 is a top-of-the-line multi-featured package with a claimed 300,000 users worldwide. The guiding principle is that much data has a geographic content which is best digested when displayed on a map. One of MapInfo's subsidiaries, The Data Consultancy, offers datasets on everything from the postcode boundaries of Switzerland to all the parishes of Britain. If you like, you can buy instantly mappable lists of 13,000 UK estate agents and the 10,000 UK pubs for them to go to.

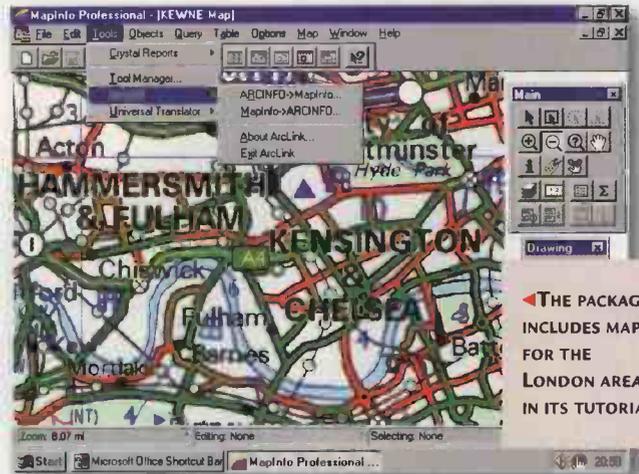
The majority of MapInfo users create their own data. The police, for instance, can map accident spots and health authorities can illustrate geographic concentrations of diseases. The latest version of MapInfo helps this in a number of ways. MapInfo's "continuous thematic shading" means that the display of data is not limited to boundaries such as counties, postcodes or voting districts. Instantly updateable weather maps, for instance, can show sweeps of rain or pockets of sunshine, across the country. New, too, is live access to remote databases.

A linked table can be downloaded from a relational database management system like Oracle, Sybase or Access. Users can use these linked tables to rerun queries on a regular basis. After editing in MapInfo, the data in a linked table is saved to the relational database management system in a manner that resolves any multi-editing conflicts. Using MapInfo's spatial indexing you can retrieve points in any database, and Oracle SDO's spatial index is supported,

too. Theoretically, this means that as soon as a utility company digs a hole in the road, you could show its location on a street map. This latest version incorporates Seagate's widely used Crystal Reports to simplify the creation of output which goes the other way, converting data shown on the map into well-designed tables. There are also far more cartographic legends indicating buildings, railway tracks, rivers and census tracks. The file translators have been updated, too, so AutoCAD and MSLinks attributes can be imported and exported.

A typical map is built up in layers. There might be a raster image layer (digitised pictures) and an automatically co-ordinated vector map of the same location. Details can be imported from a table or drawn on the map. MapInfo sells countless street maps and you can edit them, perhaps to create a fictional location as an illustration. The stacked layers are transparent. One layer may show streets, another towns, another might display shopping centres, and yet another might carry your own legends — but you view them all

together. You can also quickly re-plan maps to change sales territories, voter districts and so on. There is even a MapInfo programming language, MapBasic, so you can write your own mapping applications. It's easy to perform geographic analyses such as bar charts of the mileage between towns. The 600-page User Guide is top drawer: bang up to date with the latest version, comprehensively illustrated and well-indexed. In addition, the CD-ROM includes an excellent tutorial which first



THE PACKAGE INCLUDES MAPS FOR THE LONDON AREA IN ITS TUTORIAL

details how to perform many operations, then offers to run a macro which demonstrates some of them. Despite this help, remember that MapInfo Pro is a complex package and takes some considerable time to master.

MapInfo also works with Blue Marble Graphics' Geographic Tracker. Ambulances and delivery vans with geographic positioning system (GPS) transmitters can be tracked in real time. GPS Tracking shows a live representation of a vehicle, projected directly on top of a map, while GPS Geocoding will collect field data in real time and log positioning co-ordinates in a variety of file formats, so you can automatically update geographic positions within a spreadsheet or database application.

STEPHEN WELLS

### PCW DETAILS



Price £1,287 (£1,095 ex VAT). Upgrade from all previous versions £412 (£351 ex VAT)

Contact MapInfo 0175 384 8200

[www.mapinfo.com](http://www.mapinfo.com)

**System Specification** Windows 95, 98 and NT 4.0, 486 PC with 8Mb RAM, 58.5Mb hard-disk space, plus 31Mb allowance for data.

**Good Points** All you need to make maps. Terrific manual and tutorial.

**Bad Points** Expect to spend a lot of time learning how to use it.

**Conclusion** What an organisation needs to put itself on the map.



was building bricks

now alien submarine

by tim aged 4



was camcorder

now special effects studio

by vaio

The Sony VAIO 505FX is a B5 size notebook that weighs just 1.35kg. It features an Intel® Pentium® Processor with MMX™Technology 266MHz, 32MB of RAM and a 4.3GB hard disk. Connect it\* to Sony's PC-1DV Camcorder, using our plug-and-play I-LINK cable, and this notebook becomes something else. A special effects studio. With VAIO's bundled software Picture Gear and DV Gate, you can store and edit recorded images wherever you happen to be. The VAIO will also transform our CMD-Z1 plus mobile phone into a Web surfer and our MDS-PC1 MiniDisc deck into an audio editing suite.\* And that's just the beginning. Soon, VAIO World will be a place where all our digital products can join together to create new possibilities. All you have to do is open up your mind. And your VAIO Notebook. For further information call 0990 424 424.

[www.sony-europe.com/vaioworld](http://www.sony-europe.com/vaioworld)

**SONY**

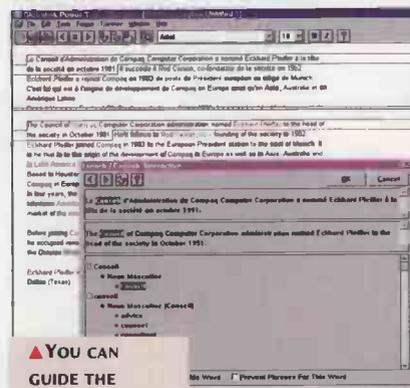
\*Additional cables required. Sony is a registered trademark of the Sony Corporation, Japan.  
The Intel Inside logo, Intel and Pentium are registered trademarks and MMX is a trademark of Intel Corporation.

**VAIO**

# Globalink Power Translator Pro

A few **new features** for this established mechanical translation package.

**W** e last reviewed Power Translator Pro in our November '96 issue. It's now at version 6.4 but the core remains the same. The translation engine is based around Globalink's Barcelona translation engine, so its translation abilities remain much as they were before: adequate, but not astounding. No machine translation system can equal that of a human translator, which is to make the translated passage read as if it were originally written in the target language. But Translator Pro does not pretend to be able to do this. Its aim is to produce a rough translation from which you can get the gist of the translated passage or have a better translation made by a



**▲ YOU CAN GUIDE THE MACHINE TRANSLATION TO MAKE THE RIGHT CHOICES**

professional: starting from a rough machine translation saves the translator time. You can improve the software's performance by translating interactively, guiding the machine to make the right decisions.

This latest version contains a few extra features. With the addition of Portuguese it can now translate five languages, and there is now more support for web translation. Translator Pro can translate web sites on and offline, and has a chat translation facility. To supplement the main dictionary, there are over 30 specialist versions bundled.

ADELE DYER

## PCW DETAILS



**Price** £199.99 (£170 ex VAT)

**Contact** Globalink [www.globalink.com](http://www.globalink.com)

**Good Points** Good for basic translations.

**Bad Points** Translation is not polished.

**Conclusion** With online translation now available, this is a bit of a niche-market product.

# Leisure Pack for Psion Mobile fun

Have fun on the move. Here's a compelling compendium of **on-screen games** for the Psion.

**T** here are always moments when nothing hits the spot like a brief burst of Solitaire or Patience... anything except working for a living. To guard against games starvation, consider Widget Software's Leisure Pack for the Psion Series 5, 3a, 3c and Siena, available on disc or flash card. There are seven games in four categories, so there's something to suit every mood. There are two card games, Poker and Solo; two Strategy games, Tetris and Reversi (aka Othello); an adventure called Castle; and two pub games, Bandit and Chomper. The last doesn't run on the Siena, but the others will. The poker game is straightforward, and Solo is a familiar version of Patience, including a cheat option if all else fails.

Tetris involves blocks descending from the heavens that must be slotted into a solid wall when landing — yes, the name reminded us of something, too. Reversi is the old Windows favourite: a draughts-like game, with four skill levels. Bandit is a fruit machine with grapes, cherries, bells, and so on, while Chomper is an arcade game in the PacMan tradition, with the added attraction that eating a magic star makes you temporarily invincible — ah, if only...

**Castle was our favourite.** It's a good old-fashioned text-based adventure game in which you run, walk, jump, climb, examine, unlock, push and drop your way to escaping from the castle. It's like the good-old days of Colossal Cave



**▲ BEAT THE BANDIT FRUIT MACHINE — IT'S ALL 'ARMLESS FUN**

and it exercises your imagination. You probably didn't buy your Psion to play games on, but at the end of the day, this is £30 well spent.

MARK WHITEHORN

## PCW DETAILS



**Widget Leisure Pack**

**Price** Disc £29.95 (£25.49 ex VAT)

**Contact** 01438 815444

[www.widget.co.uk](http://www.widget.co.uk)

**Good Points** Fun, fun, fun!

**Bad Points** It's not quite Quake II.

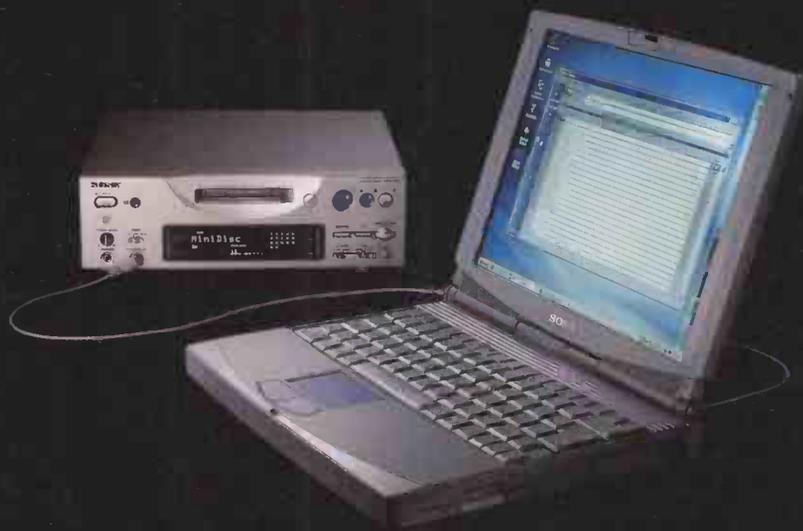
**Conclusion** A great time-waster.



was sand and marble

now cyclops monster

by amy aged 4½



was minidisc player

now editing suite

by vaio

The Sony VAIO 747 is a notebook with a 12.1" TFT screen. It features an Intel® Pentium® Processor with MMX™ Technology 266MHz, 32MB of SDRAM and a 4.1GB hard disk. Connect it\* to Sony's MDS-PC1 MiniDisc deck, and this notebook becomes something else. An audio editing suite. With the included Sony AV playback software, you can title, move, mix and erase your recordings simply by using the 'drag and drop' function. The Sony VAIO also transforms our PC1 digital video camcorder into a special-effects studio and our CMD-Z1 plus mobile phone into Web surfer.\* And that's just the beginning. Soon, VAIO World will be a place where all our digital products can join together to create new possibilities. All you have to do is open up your mind. And your VAIO Notebook. For further information call 0990 424 424.

[www.sony-europe.com/vaioworld](http://www.sony-europe.com/vaioworld)

SONY

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VAIO

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PC PRO - Nov '98

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### Agenda 945

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- NT 4.0
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# Hi-Grade Axion PR11 266

*Tested over twelve months*

**A model of reliability, the Axion manages to keep the pace at a reasonable price.**

It's amazing how quickly things change in such a short time. The Axion PR11 266 made its debut in December 1997 and was reviewed in *PCW* the following January. What's changed, you ask? Well, nothing much hardware-wise, but for the £2,000 (£1,996 to be exact) Hi-Grade charged, then you could say lots. Just a year later, this very powerful configuration can be had for around £799.

**At the heart** of this PC is a Pentium II 266MHz CPU, 32Mb of SDRAM (housed in one of three DIMM slots), Superdisk floppy drive (formerly known as an LS-120), SoundBlaster AWE 64 sound card, Teac 24-speed CD-ROM drive, Maxtor 5.6Gb Ultra DMA hard drive, and an internal Pace 33.6K modem. It is also fitted with an ASUS V3000 AGP graphics card sporting 4Mb of memory. The monitor is a 17in ADI Microscan SP,

which is still a good buy. The verdict after a year is that this PC has held its own. Aside from the fast graphics card that allows for some furious 3D gameplay, it's as reliable as Big Ben. I've loaded and uninstalled so many programs, you'd have expected the magnetic medium to rub off — yet the hard drive cranks merrily away. The original software load and Windows 95 configuration has proved to be watertight and I was only forced to reload Windows after the registry file became disorganised. Like the old Timex ads used to say, "it takes a licking but keeps on ticking", and tick on it does.

DYLAN ARMBRUST



## PCW DETAILS

### Axion PR11 266



**Price** £1,996 (£1,699 ex VAT)

**Contact** Hi-Grade 0181 532 6111

[www.higrade.com](http://www.higrade.com)

**Good Points** The LS-120 drive. Excellent AGP graphics card. Sharp monitor.

**Bad Points** Nothing worth mentioning.

**Conclusion** A very reliable PC with lots of spark.

# Mesh Elite Pegasus

*Tested over nine months*

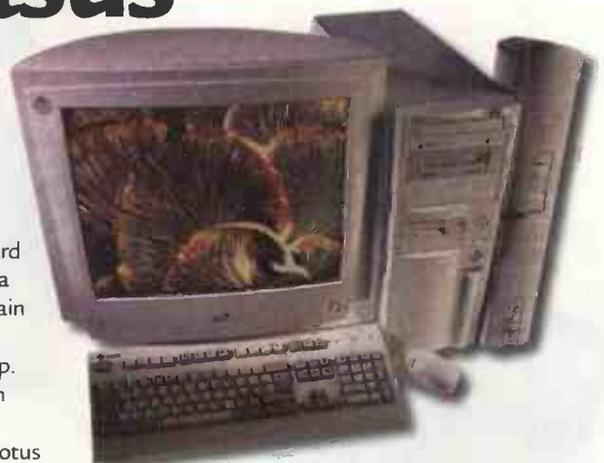
**This PC package has plenty of features to satisfy even the most demanding of users.**

Fifteen years in front of a computer have given me a good idea of what is important in a PC, and the reason for choosing the Mesh Elite was that most of the items on my wish list were included. The specification included a 266MHz Pentium II, 64Mb SDRAM, 17in Taxan monitor, fast 24-speed CD drive, Iomega 100Mb Zip drive, 6.4Gb hard drive, Yamaha 3D sound, ATi 3D Xpert@Work graphics card and US Robotics 56K modem. Windows 95 was preinstalled so the only upgrade I required was a wheeled-type Microsoft Intellimouse.

**Everything worked** properly right away. The machine came supplied with a folder containing all the necessary software and documentation for the

installed equipment. The keyboard is good to use and the keys have a good, solid click, but with the main unit on the floor, the cable is overstretched to reach to desktop. The inside of the case is tidy, with plenty of room to expand. The Pegasus was supplied with Lotus SmartSuite 97, IBM Simply Speaking [p121] and PagePlus 5. I spent some time with Simply Speaking, but SmartSuite was no use to me as I am a confirmed Office 97 user. Super-Voice, which is supplied with the US Robotics modem, sets up a useful answer machine. One problem I will be monitoring as the warranty nears its end, is the CD player. It often refuses eject the CD without several pokes, and sounds like a muted dentist's drill.

MIKE EARLEY



## PCW DETAILS

### Mesh Elite Pegasus



**Price** Current models start at £1,526.33

**Contact** Mesh Computers 0181 208 4706

[www.meshplc.co.uk](http://www.meshplc.co.uk)

**Good Points** Sturdy build. Expandable.

**Bad Points** Mesh's support is "Ring-Back".

**Conclusion** A safe purchase.

Power is closing a deal with my fingertips.

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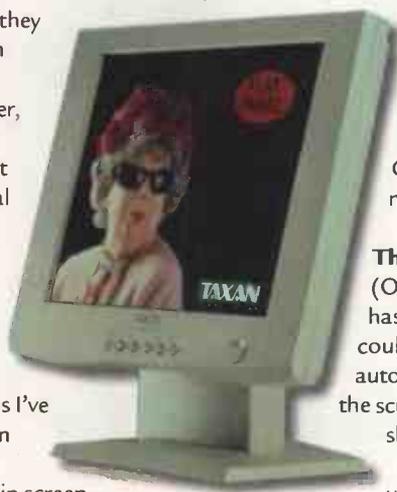
Let's make things better.

# Taxan CrystalVision 660

*Tested over six months*

With an **excellent picture** and user-friendly controls, the Crystalvision was always going to stay ahead of the pack.

In the past year, every monitor manufacturer and their dog have produced flatpanel screens, which in part is why prices have dropped so far and so fast. Flatpanels cost around £2,000 when they first appeared but can now be picked up for around £500. However, only a few of these panels really stand out as being of exceptional quality. Taxan has consistently made high-quality flatpanel displays and the CrystalVision 660 is no exception. Of the many flatpanels I've used, the CrystalVision 660 is probably the best of the lot. The 15in screen



runs at a resolution of 1024x768 and takes an analogue input. The screen is clean, crisp and sharp, with even luminosity. While it can only support 18-bit colour, not 24-bit, the colours are still remarkably true. The colours on an LCD are never going to be as good as those on a CRT, but the Taxan is much better than most.

The on-screen display (OSD) is easy to use and has all the controls you could need. Although the auto-adjust button sets up the screen almost perfectly, should you wish to make adjustments yourself, you can easily achieve

the best possible picture. There is also a brightness dial on the bottom edge of the screen bezel which links to the OSD, so you can see how far you have turned it. My only gripe is the lack of a dual input for connecting more than one machine to the screen.

ADELE DYER

## PCW DETAILS

### Taxan CrystalVision 660

★★★★★

Price £1,338.33 (£1,139 ex VAT)

Contact Taxan 01344 484646

[www.taxan.com](http://www.taxan.com)

Good Points Excellent screen quality.

Bad Points Still very expensive.

Conclusion One of the best LCD monitors around, worth the steep asking price.

# Viewsonic VP150 Viewpanel

*Tested over three months*

A flatscreen that **outshines** old-style desktop monitors, both in terms of looks and picture.

Standalone colour LCD monitors have, until recently, cost more than a notebook with a similar display, largely because they need expensive extra circuitry to adapt signals designed for analogue CRT monitors. VESA's attempt to introduce a standard digital interface has become mired in an industry-wide row. Even so, prices have fallen to the extent that you can buy a high-quality 15in colour LCD flatscreen for under £1,000. Viewsonic's VP150, which I have been using for some three months, costs £998 (inc VAT). That may sound a lot, but bear in mind that a 15in LCD is equivalent to a 17in CRT in terms of viewing area. By comparison, a mid-range 17in NEC P750 CRT, which offers the same maximum 1024x768 resolution at 75MHz, costs £692 including VAT. The

VP150 is a joy to use, not least because of the desk space it frees up. Installation under Windows 95 involved little more than plugging it in, and it provides a crisp, flicker-free display. All controls are easily accessible via five buttons on the front, which summon and navigate a menu of options. The screen is easily swivelled to suit your needs and can be hung on a wall.

Viewsonic boasts that the VP150 is the brightest LCD panel on the market, yet this was the one feature that gave me trouble: I suffered alarming symptoms of dazzle at the end of a long day. Otherwise the display gave as good a picture as my CRT, without the hassle of heat and size. Clearly, when prices fall, these devices will wipe old-style monitors off the desktop.

CLIVE AKASS



## PCW DETAILS

### Viewsonic VP150 Viewpanel

★★★★★

Price £998 (£845 ex VAT)

Contact MMD (distributor) 01734 313232

[www.viewsonic.com](http://www.viewsonic.com)

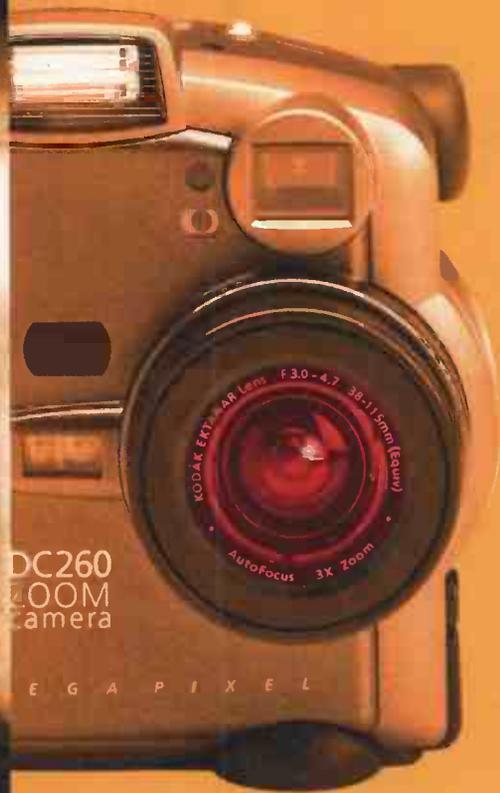
Good Points Compact. Good picture.

Bad Points Watch the glare.

Conclusion Get one if you can afford it.



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ZOOM  
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# Voicetype Simply Speaking: Home Edition

*Tested over twelve months*

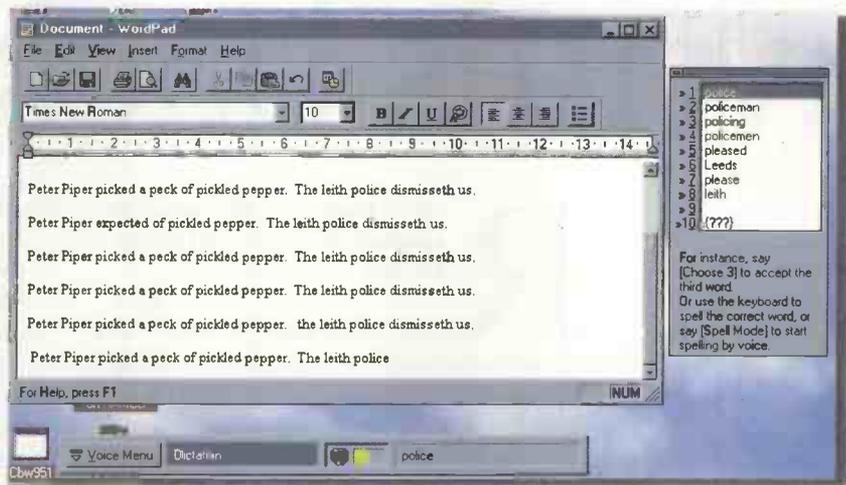
**Software that allows you to speak volumes.**

**W**hen PCs became available about 20 years ago, I decided not to learn to touch-type because I thought it would soon be possible to dictate directly into the machine. When I read articles about voice recognition programs, it seemed that desktop systems were always five years away. The future finally arrived about two years ago with the appearance of Dragon, Kurzweil and IBM software at affordable prices. My use of IBM VoiceType during the past year has been successful, up to a point, but not without the expenditure of much patience and time.

**Speaking is like driving:** we all think we do it right. The IBM help notes say that "you do not have to enrol [train the software] if you have a native English accent". I have, so I didn't. The results were rubbish. Not simply gibberish with misunderstood words that changed the

***It's ideal for stream-of-consciousness writing where content takes precedence over sense***

meaning of sentences, but rubbish that bore no obvious relationship to what I had spoken. So I read the first 50 enrolment sentences which is "all you need to read if you are a native speaker". This produced some improvement, but not enough to upgrade the script from rubbish to gibberish. I then completed the full enrolment of 200 sentences, "recommended for those who have a foreign accent or a strong regional accent". I'm not proud. This made the program almost usable, but still short of the "over 90% accuracy without enrol" claimed by IBM. It has improved steadily since that time by constant correction and the addition of technical words. The capacity of the system to learn is its greatest strength, and I marvel at the science that underpins it. Recognition



is still far from perfect, but the use of VoiceType alongside the keyboard and mouse is, for me, a more efficient and attractive method of working than using the keyboard and mouse alone.

Using the program is very easy: you speak into the microphone and include formatting commands such as a comma, capital letter or new paragraph, and finish by saying "stop dictation". Correcting words and making additions to the vocabulary are equally simple. A double-click on the incorrect word plays back what you have said and brings up alternatives.

If the correct word is listed, this can be chosen and the text will be corrected automatically. If not, then a new word can be typed in and this will be added to the vocabulary.

**Mis-matches between** the spoken and written words are still depressingly common. One irritation is the frequency with which VoiceType substitutes a proper name for a word that it has not recognised. This suggests that its basic 30,000-word vocabulary contains thousands of names, hence substitutions such as Armagh (for armour) and Satan (for Seaton). The ideal vocabulary would be one that contained every word the user required, and no others. It would therefore be helpful to be able to edit the basic vocabulary. The other principal

source of recognition error is minor variations in the microphone set-up. The procedure for maintaining microphone efficiency takes about two minutes to carry out and cannot be recommended enough.

**Will the system** be useful to you? That depends on how much and what type of writing you do. The hard part of most writing is getting the words out of your head. An accurate VoiceType input rate of 100 words per minute is possible in theory, but this does not solve the problem of thinking time. I would be happy to produce 1,000 words per day, but this is not 10 minutes' work. VoiceType is ideal for stream-of-consciousness writing where content takes precedence over everything else, but then again, most of us use email for that.

RAMUES GALLOIS

## PCW DETAILS

### Voicetype Simply Speaking

★★★★

**Price** £39.99 (£34.03 ex VAT)

**Contact** IBM 0800 963761

[www.software.ibm.com/is/voicetype](http://www.software.ibm.com/is/voicetype)

**Good Points** Easy to expand personal vocabulary. Potentially accurate when trained.

**Bad Points** Much patience needed for training. Microphone set-up very sensitive.

**Conclusion** Not for everyone.

Best known as Kryten, the Red Dwarf robot with manic cleaning tendencies, Robert Llewellyn has written a novel about **how computer users are perceived**. Robert Juman Blincoe finds an enthusiast within the affable android as he tells of his first furtive embraces of technology.

# The robot writes back

**R**obert Llewellyn, the man who sports a rubber mask to play Kryten, the square-headed android star of TV's Red Dwarf, is guilty of portraying PCW readers as total and utter losers. He has written a book called *The Man on Platform 5*. Its hero is Ian Ringfold, a camcorder-toting, train-filming, anorak-wearing, computer-loving chap who is transformed into a designer clothes horse for a bet. As part of the deal he has to move in high society and celebrity circles without boring anyone rigid with techie-talk or asking for an autograph.

The reason you should perhaps take offence is because the model depicting Ringfold on the book-jacket is clutching a copy of PCW — and you'd be a fool to think this was representing the "after" version of the character. He has been bestowed with the interests and style that go with nerd clichés. So, several erroneous assumptions could be made about PCW's readership — they could do with a makeover; can quote Red Dwarf scenes verbatim; and are intimate with trains, but Llewellyn doesn't

The point of the book was to cast a new light on all those clichés about **COMPUTER NERDS, SCIENCE FICTION FANS AND TRAINSPOTTERS**

intend this. His message is, you can't judge a book by its cover. If you do, you're as guilty of stereotyping as the snobbish, elitist characters inhabiting the book.

Its plot is a reworking of *My Fair Lady*. In Llewellyn's version we're presented with a man who at first glance is the image of Duane Dibbley, the thermos-carrying *alter ego* of Red Dwarf's ultra-vain Cat. The plan is to turn him into a man with all the qualities of Ace Rimmer, the much admired hero of selected episodes.

"The point of the book was to cast new light on all those clichés about computer nerds, trainspotters and sci-fi fans. It's easy for people in

the media to have a go at them — I really wanted to attack that perception," says Llewellyn.

Deciding to have a copy of PCW on the book's cover was agonised over for a good five minutes. Llewellyn initially wanted a Mac title as he works in the creative and luvvie world, and so is a fan of the Apple PowerBook. But no-one uses a Mac in the book. So PCW was selected in the end: "It's instantly recognisable," explains Llewellyn. "I said to the art director, that's the one you always see in every newsagent."

**L**lewellyn doesn't feel his book is a generous gesture on his part, in presenting computer lovers or Red Dwarf fans in a more acceptable light for the benefit of the trendy sectors of society. This patronising idea makes his face crack up — literally. "Sorry, I just had to adjust my ear," he says in a muffled voice. He's wearing underpants, socks and his Kryten head, taking a break while filming Red Dwarf 8. The book's elements concentrating on IT reveal he has a strong understanding of what IT can currently do for users, and what he believes

it should deliver and how simple it should be to use. It's obvious he feels strongly that technology is not boring and that the shallow, beautiful people are missing out if they ignore the topic due to knee-jerk prejudice. For example,

Ringfold spends time explaining his ideas for the front-end of a complex object-based database developed in Unix and utilising Java applets. The user interface is vital, and Llewellyn shows he and his characters are confident about getting their hands on new technology, but want it to be simple and intuitive to use.

Techno-babble is used in his book as a comic device, and as a neat illustration of how enthusiasts use jargon to exclude others and feel more superior to those not in the know. The flip side to this is the speech and manner conventions used by different social classes to achieve the same effect.



Photograph by Nick Dawe

**L**lewellyn's first foray into computers came through his writing. "I use computers all the time. I'm a first-generation word processor user and I've never written on anything else. I learned to write and started writing properly when I got one of those Amstrad green-screen things that made your eyes go weird." Subsequently he's become unafraid of recommending or rubbishing kit he's come across, so his book can be taken on one level as a kind of *Which?* consumer guide.

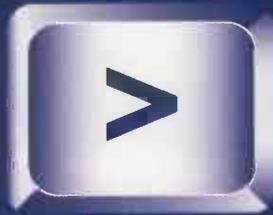
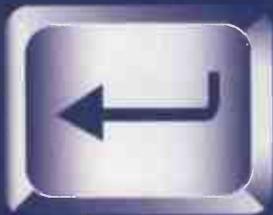
While making the Channel 4 TV series *I camcorder*, he picked up a lot of expertise about the video-camera market. "I learnt a hell of a lot about cameras and I was just fantasising about the cameras I'd like." The result is advice passed on in *The Man on Platform Five*: don't buy the Sanyo PX 5 S-VHS but get the Canon Hi8 E2 instead.

Ringfold owns a Compaq PC, a US Robotics/3Com 36.6Kbs modem and a Zip drive, and is a keen player of F18 Hornet, version 5. Perhaps worried that if he'd owned a Mac he would not have been as representative of nerdkind, Llewellyn blessed Ringfold with Windows technology, even though he's never used a PC himself.

It was early-shock experiences watching friends navigate DOS that put him off. "I think I was baffled at that pre-Windows stage. I have a very good friend who is a computer programmer. I used to watch him do 'slash slash backslash dot dot E drive'. I thought I'd never get that together." He can't recall where he first came across Apple machines, but felt instinctively that he could understand them. "The operating system did it for me. It was so visual."

Llewellyn shops at Micro Anvika on London's

▲ **Robert Llewellyn:**  
part actor, part  
author, all  
technojunkie —  
and proud of it



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Tottenham Court Road, famous for offering examples of cutting edge technology at rock-bottom prices. Micro Anvika is a store well known amongst celebrities, most of whom run Macs. Stephen Fry and Jonathan Ross are regulars, and even cult US film star Harvey Keitel has popped in. The store has sorted out Llewellyn's high-tech needs. Kashif Merchant, Micro Anvika's technical expert who works on Llewellyn's kit, gets a name check in the acknowledgements section: "He's the man who's kept me going when things have gone a bit wonky – which always tends to be my fault."

**H**is first expensive machine was the Apple SE2. Although the kit provided a lot of pleasure and suffered a lot of use, the model's name doesn't trip easily off Llewellyn's tongue – he has the same problem with some of the software he uses. Now he's got a PowerBook, but not having it on his lap makes it difficult for him to recall which model it is. "It's got a colour screen. It's a 3, it's a 3,000... or is it a 320C? Something like that. It's the last generation of new ones. It's not the G3, which is what I'd like to get, which is the new, new one. I think it's a 3200C." What he actually owns is either a 2400C or a 3400. Like Ringfold, Llewellyn isn't above perusing the glossy pages of magazines, checking out the latest add-ons he could buy if he wanted to stall his writing career. "My anxiety is always that if I get too many bits, I'll play with them too much and won't write. Anything else just distracts me, including having a digital camera. I've wasted thousands of writing hours fiddling around with pictures of my kids."

As with other products, he's forthright about the performance of his Nikon CoolPix digital camera. "I have to say I'm not that impressed with it. It does its job for all I want, and it was one of the early ones, as I got it 18 months ago. But I think the lens is not particularly great so you don't get very good results with it. All I see now is really brilliant digital cameras for half the price."

The digital camera was bought to give a visual boost to Llewellyn's web site. This was launched following the demands from US Red Dwarf fans and serves as a vehicle for giving fans the latest news, allowing them to mail Kryten, and as a place to plug Llewellyn's books. "It's a blatant way of using Red Dwarf to launch other things I do," he admits.

Llewellyn embraces internet technology the way web visionaries like Nicholas Negroponte (whose autograph Ringfold has) sees it going. He views himself as a small publisher, and the concept of running his own on-line magazine is what excites him. He's thrilled by the number of hits he's had and the number of emails it has produced. His record is logging on to find 360

unread messages waiting for him. "A lot of people just say they love the show and I don't need to reply." On his web site, he points out that only himself and fellow Red Dwarf actor Craig Charles have email addresses and web pages. "What can I say? I have tried to encourage them [the cast], and I will continue to do so."

**L**lewellyn loves what internet technology can do for him, and he's prepared to go a certain distance doing things for himself. But there's no point killing yourself cracking HTML programming when you've been good friends with a top technical support chappie since your schooldays. This is Charlie Dancey, who originally scared Llewellyn away from DOS and now gets a nod of thanks in the book for his help. Llewellyn can upload his photos and text and makes a brave stab at page layout. "Charlie tells me what to do. I try and do it. Then he does it, and he does it

## He [Llewellyn] has felt the **TRUE POWERLESSNESS** of a man who's taken on technology to improve and share his life, only to have it turn round and bite him

about 5,000 times quicker than I can."

Alongside his PowerBook and his digital camera, the other item that would make it into Llewellyn's high-tech kit bag is 3Com's PalmPilot. He left the shop with it, sharing the sentiment Ian Ringfold expresses in the book and Kryten makes in Red Dwarf: "Nothing smells quite as exciting and special as brand-new electronic items," an observation only someone in love with high-tech gadgets can make. A week later, Llewellyn was brought down from the heady heights his dream purchase had taken him. He read a review telling him he'd got the wrong thing, and discovered it didn't work well with the Claris Organiser on his PowerBook. But he still likes it.

More recently, he's felt the true powerlessness of a man who's taken on technology to improve his life, only to have it turn round and bite him. "The PalmPilot has been absolutely brilliant, until I forgot to replace the batteries about 10 days ago. It wiped everything I had on it. I was using the diary and I had loads of appointments which all went. I know, I know, I wasn't using it properly," he cries, demanding absolution.

Ian Ringfold would have kept his charged. But then, he's a fictional romantic ideal. And he bought a Psion Series 3.

Web site [www.llew.co.uk](http://www.llew.co.uk)  
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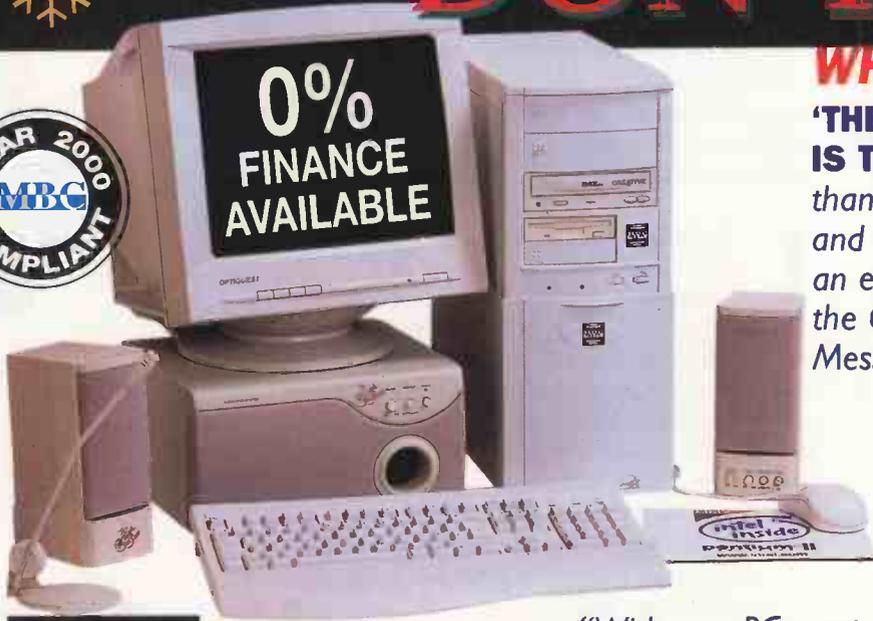
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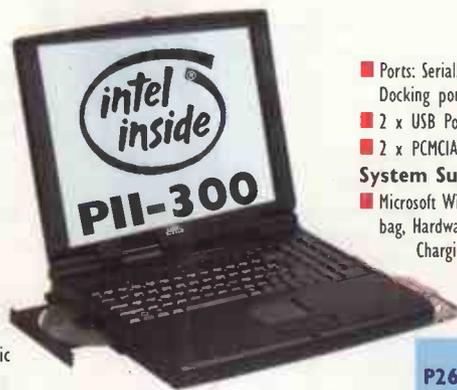
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Dear Santa...

# Give us a wish for Christmas...

DEAR SANTA,  
PLEASE SEND EACH OF  
US OUR PRESENTS.  
WE PROMISE TO BE  
GOOD, RIGHT THROUGH  
NEXT YEAR.  
**BEST WISHES,  
ALL AT PCW.**

It's the same story every year. You promise yourself that *this time* you are going to do your Christmas shopping early. Then, as it hits you that it's already Christmas Eve, you realise you can afford none of the presents on the Christmas lists you've been given. Worse, you haven't a clue what to buy as cheaper alternatives. So, as this is effectively PCW's Christmas issue, even though it has

January's cover date, we thought it would be the perfect opportunity to help you out of your shopping dilemma and into inspiration on the gift front.

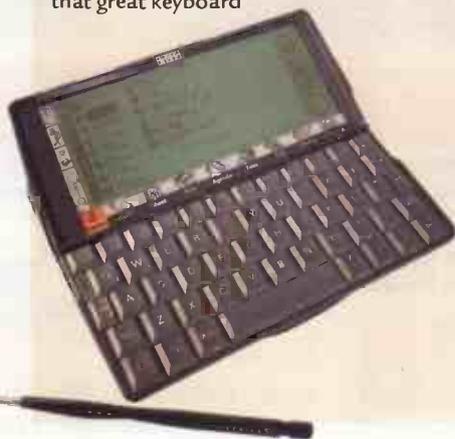
**On these pages**, each writer on the PCW team has drawn up their list for Santa and selected three (although some greedy hacks wanted four or more!) items they would like to find in their Christmas stocking.

The products have been chosen from the various bits of kit that each writer has had the opportunity to get their mitts on, or has dreamt of getting their mitts on, during 1998. So forget the box of soaps or jar of pickled oranges and read on for some of the best technology to buy (or receive) this Christmas.

• Please note: Each item has been chosen purely on the basis of major desirability!

## Gordon Laing

During 1998 I've been turned on by developments in convergence and mobile communications. Having previously resisted relinquishing my trusty WH Smith narrow-ruled notebooks, I finally took the electronic plunge and I'm now I'm a Psion Series 5 evangelist. Sure, the screen is appalling under poor lighting conditions, but why use it in a dingy room when you could be outside? I've found myself banging out literally thousands of words on that great keyboard



while perched on a variety of park benches, and even in my parents' back garden — I wish they'd let me back in for dinner, though.

For mobile comms, Ericsson's SH-888 dual-band phone has built-in hardware which allows it to work straight away with any IrDA-compliant infrared device, including my Series 5.

In the home theatre DVD is finally beginning to look good, with decent titles employing high bit-rates and anamorphic widescreen. The most promising UK player this year is Pioneer's DV-717 with DTS audio compatibility and RGB on the SCART, due out this December.

**Top of my Christmas list**, after a naughty all-region modification, is a decent display. The best I've seen is one of Sony's 32in widescreen sets employing the perfectly flat FD Trinitron tube. Some models feature VGA inputs for true convergence.



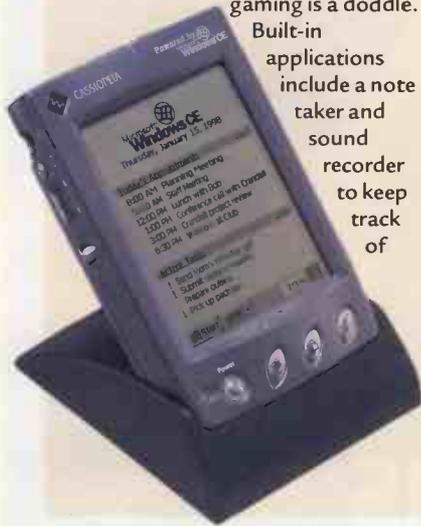
**My final wish** is that Santa bullies the Digital TV broadcasters to use higher bit-rates and 5.1 digital surround sound, at least on premium-rate digital movie channels: James Bond should look and sound his best on Christmas Day.

## PCW DETAILS

**Psion Series 5**  
Price around £430  
Contact Psion 0990 143050  
[www.pSION.co.uk](http://www.pSION.co.uk)  
**Ericsson SH-888**  
Price around £159 (inc subscription)  
Contact Ericsson 0990 237237  
[www.ericsson.co.uk](http://www.ericsson.co.uk)  
**Pioneer DV-717**  
Price around £650  
Contact Pioneer 01753 789789  
[www.pioneer-eur.com](http://www.pioneer-eur.com)  
**Sony 32FD1**  
Price around £2,800  
Contact Sony 0990 111999  
[www.sony-europe.com](http://www.sony-europe.com)

## Nik Rawlinson

I suppose a puppy and a Chocolate Orange are out of the question? Hmm... I'll have to settle for something more practical, then. A PDA would certainly fit in a stocking, so how about a Cassiopeia E-11? These snazzy pen-based WinCE devices are small enough to fill the palm of your hand, and with an IrDA port on top, transferring data or engaging in two-player



gaming is a doddle. Built-in applications include a note taker and sound recorder to keep track of

your thoughts while you are on the move. And, all the software available on the net should keep me going until next Christmas.

I reckon I could easily fit a pager into the toe end of my stocking, so for a stylish start to the new year I'll opt for a Zero Zero from Vodafone. Just 6.6 x 4.35cm in size, it will clip on to a belt or slip into a pocket, and, coming in a choice of five stylish finishes, I'll not be shy to get it out in public. Software for paging straight from a PC can be freely downloaded from the Zap! web site, making it even easier for friends to stay in touch.

For my third Christmas wish I'm rather inclined to pick Encarta 99 to while away the long winter evenings and keep me up to date on the things I should know. Instead, though, I think I'll see if I can stretch



the open end of the stocking a bit wider and squeeze in a BayGen wind-up radio, just to prove that PCW journalists do have a life away from computers. The ultimate green product, less than a minute's winding will give a full hour of aural stimulation.

### PCW DETAILS

#### Casio E-11

Price £299 (£254.47 ex VAT)

Contact Casio 0181 450 9131

[www.casio.co.uk](http://www.casio.co.uk)

#### Vodafone Zero Zero Pager

Price £59.99 (£51.06 ex VAT)

Contact Vodafone 0800 101112

[www.zapit.co.uk](http://www.zapit.co.uk)

#### BayGen Radio

Price £59.95 (£51.02 ex VAT) for the model illustrated here

Contact BayGen 0800 731 3052

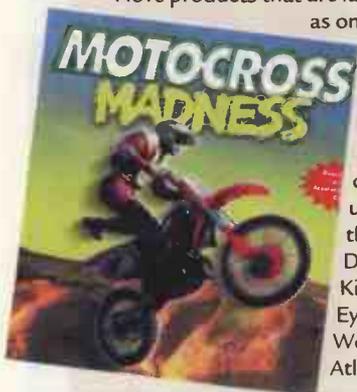
[www.purleyradio.co.uk/baygen/](http://www.purleyradio.co.uk/baygen/)

## Etelka Clark

I can think of nothing better than a machine that you could use not only as a PC, but also as a TV, games arcade, music system and home cinema. A year ago I reviewed a PC that featured all of the above. Equipped with a DVD drive, Dolby surround sound, projector and screen, as well as two DVD movies and countless other pieces of PC software, I remain entranced with the Tiny Home Cinema System. Boy, did I feel sad when I had to give it back! One year on, and nothing else has come close.

I love products that are labelled as one thing

but turn out to have a million other uses: the Dorling Kindersley Eyewitness World Atlas falls



into this category. Reviewed in our July '98 issue, it calls itself an atlas, but really it contains so much more than just maps. You can learn virtually anything about any country: from economics, resources and environment to tourism, education and politics. You can take narrated "flights", based on satellite pictures, through the skies and above the land from the north coast of Australia to the treetops of the Amazon Basin. Available in both PC and DVD format, this atlas is breathtaking and beats every other.

The best all-in-one deal for Christmas must be the MotoCross Madness bundle. For only £49.99, you get the brilliant, new Freestyle Pro joystick for control with a flick of the wrist, and a copy of the game [review, PCW December '98].

One last thing, for those with a Sony PlayStation and a love of Tekken. Don't miss out on the third version, in the shops now.



The graphics have been dramatically improved and there are lots of new characters with whom to battle it out.

### PCW DETAILS

#### Tiny Home Cinema System

Price £1,409 (£1,199 ex VAT)

Contact Tiny Computers 0800 821333 [www.tinycomp.co.uk](http://www.tinycomp.co.uk)

#### Eyewitness World Atlas

Price £29.99

Contact Dorling Kindersley 0870 010 0350 [www.dk.com](http://www.dk.com)

#### MotoCross Madness and Freestyle Pro

Price £49.99 (bundle)

Contact Microsoft 0345 002000

[www.microsoft.com/games](http://www.microsoft.com/games)

#### Tekken III

Price £44.99

Contact Sony 0171 447 1600

[www.sony.com](http://www.sony.com)

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## David Fearon

Starting from the unfeasible end of the scale, at the top of my wish list is Sony's gorgeous Vaio PCG-505G sub-notebook. This will be the ideal Christmas gift because all of its silvery bits will reflect the fairy lights and make it twinkle.

Next up is Lego's Mindstorms system. This blends loads of new high-tech bits, including sensor switches and a central CPU that you can program via an infra-red link to your PC, with the good-old knobby plastic bricks, cogs and axles that I remember from my carefree, childhood, days.

I've been waiting a long time for a reasonably small PDA with built-in wireless comms and it looks as if the coming Bluetooth



standard could be the answer to my prayers, but there are no products available yet.

While I'm waiting for a Bluetooth-enabled PalmPilot, the next item on my list has to be Nokia's new 9110 Communicator integrated mobile phone and PDA which replaces the original 9000. It's small enough to be pocketable, it has an embedded 486 processor, and it's a lot more stylish than the old one. Being a Nokia, the phone side of the equation should be pretty good, too.

Finally, I want a Qube microserver from Cobalt Micro. Not so much to use, but to put somewhere prominent and prove to my friends that nerdy things can look cool.



In fact, it looks so pretty and it's so small, I could even try hanging it on the Christmas tree.

## PCW DETAILS

## Sony PCG505G

Price £2,300 (£1,959 ex VAT)

Contact Sony 0870 240 2408

[www.sony.com](http://www.sony.com)

## Lego Mindstorms

Price £160 (£136 ex VAT)

Contact Lego 0845 606 2043

[www.legomindstorms.com](http://www.legomindstorms.com)

## Nokia Communicator 9110

Price (Not yet available in the UK)

Contact [www.nokia.com](http://www.nokia.com)

## Cobalt Micro Qube

Price From £998 (£849 ex VAT)

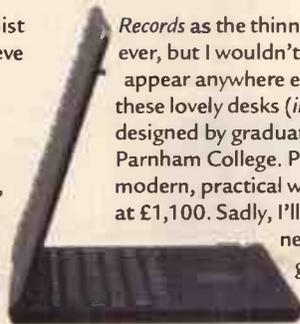
Contact Mintra 0161 256 4030

[www.cobaltmicro.com](http://www.cobaltmicro.com)

## Susan Pederson

This year, my Christmas wish list centres on my desire to achieve some style as well as substance. A little more Conran, a little less Courts — you know the kind of thing. Number one on my must-have list is the Mitsubishi Pedion, a devastatingly stylish notebook that is a mere 18mm thick and weighs 1.45kg. The 266MHz MMX Pedion has a 13.3in TFT screen, 64Mb RAM and a 1Gb hard disk, as well as an optional "media pack" docking station with 20X CD-ROM drive and floppy drive. Santa will have to have deep pockets to buy this slimline beauty.

The Pedion will be appearing in the 1999 Guinness Book of World



Records as the thinnest notebook ever, but I wouldn't want it to appear anywhere except on one of these lovely desks (illustrated, below) designed by graduates from Parnham College. Prices for their modern, practical workstations start at £1,100. Sadly, I'll have to buy a new flat that's good enough to house such lovely furniture.

Once the removal men have cleared out and the dust has settled, I'll need only one other piece of equipment resting on my minimalist worktop: the Olympus C-1400L. At the price, it's not exactly the cheapest digital camera around but feels great in the hand and gives high-quality results. The C-1400L has a 3X zoom and the equivalent of a 36-110mm lens on a 35mm camera. It also provides resolutions of up to 1280x1024.

Oh, and while the Bewhiskered One is at it, he might as well throw in a copy of the fiendishly addictive Worms II, as well. So cute, so pink...



so evil. For only £29.99, Worms is a positively cheap way to spend the holidays — and a girl's got to have some fun, after all.

## PCW DETAILS

## Mitsubishi Pedion

Price £2,349 (£1,999 ex VAT)

Contact Mitsubishi 0800 212422

[www.mitsubishi-computers.com](http://www.mitsubishi-computers.com)

## Parnham College computer desks

Price From £1,100

Contact Parnham College

01308 862204

## Olympus C1400-L

Price £1,526 (£1,299.99 ex VAT)

Contact Olympus 0171 253 0513

[www.olympus.com](http://www.olympus.com)

## Worms II

Price £29.99

Contact Team 17; 01924 267776

[www.worms2.com](http://www.worms2.com)



Dear Santa...

Adele Dyer

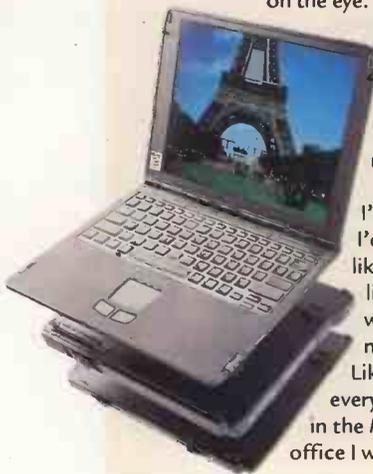
**M**y mother always told me I ought to marry a rich man, and sorting out my Christmas wish list, I realise she was probably right. I have very expensive tastes.

It's time to soup up my PC. I need a new processor, a larger hard disk, an upgraded motherboard, case and RAM... OK, a new machine. But if I'm upgrading, then I'd like an LCD screen: no more flicker, no wasted space, and it's much easier

on the eye. The lovely 18in Eizo FlexScan L66 would fit the bill nicely.

While I'm at it, I'd really like a thin, light-weight notebook. Like

everyone else in the PCW office I was



impressed by the Sony PCG-505G, but then again, the HP Sojourn and the Mitsubishi Pedion also caught my eye, as did the Digital Ultra Hi-Note 2000, now called the Compaq Armada 6500. All are very slim without sacrificing usability.

A digital camera features high on my list and the latest Kodak DC260 Pro would be perfect. It costs £900, but it has a very high resolution (1536x1024) and comes with a wealth of features. Or, if Santa is feeling mean, I could make do with Kodak's DC200 for only £300.

Finally, I will have Microsoft Money 99 to help me keep track of all the money I'll be spending this Christmas.

PCW DETAILS

- Compaq Armada 6500**  
Price £3,954 (£3,395 ex VAT)  
Contact Compaq 0845 270 4000  
[www.compaq.co.uk](http://www.compaq.co.uk)
- Eizo FlexScan L66**  
Price £2,784 (£2,369 ex VAT)  
Contact PDS 01483 719500  
[www.eizo.co.uk](http://www.eizo.co.uk)
- Hewlett-Packard Sojourn**  
Price £3,230 (£2,749 ex VAT)  
Contact Hewlett-Packard 0990 474747 [www.hp.com](http://www.hp.com)
- Sony PCG-505G**  
Price £2,300 (£1,959 ex VAT)  
Contact Sony 0870 240 2408  
[www.sony.com](http://www.sony.com)
- Kodak DC200 / Kodak DC260**  
Price DC200: £300 (£255 ex VAT).  
DC260: £900 (£767 ex VAT)  
Contact Kodak 0800 281487  
[www.kodak.co.uk](http://www.kodak.co.uk)
- Microsoft Money 99**  
Price £49.99 (£42.54 ex VAT)  
Contact Microsoft 0345 002000  
[www.microsoft.com/uk](http://www.microsoft.com/uk)

Clive Akass

**L**ast year's crop of mini-notebooks changed my mind on mobile design. None had a keyboard better than the Psion Series 5 handheld's, and not one could be pocketed, so what was the point of making them so small? Far more important is to have a device light enough to carry, with easy input and a reasonable battery life. Which is why I fell instantly in love with Sony's Vaio PCG 505G. It weighs barely more than a paperback and slips easily into a shoulder bag. So yes, Santa, I want one, I want one.

My second choice is a Kodak DC260 Pro digital camera. It has a 1.6 megapixel sensor and a 3X zoom (6X with a digital extender),



a USB port for quick downloading, and scripting capability. A burst mode allows up to eight pictures to



be taken in rapid sequence (many digicams require half a minute between shots). The 260 comes with two 16Mb flash cards, but I think Santa should throw in a few more.

My third present is a cheat, as it's really three in one. Fender, Roland and Cakewalk have collaborated on developing MIDI guitar software and hardware. Fender has launched its Roland Ready Stratocaster, fitted with a Roland GK-2A pickup which can be switched between MIDI and standard mode. This just happens to need a Roland GI-10 MIDI-conversion box. It takes other pickups but Roland says tracking is best with the GK-2A. The nice thing

about the GI-10 is that it will take a mic input, too: plug it into your sound card and you can sing with the sound of a thousand violins.

PCW DETAILS

- Fender Roland-Ready Stratocaster**  
Price £599.95 (£510.60 ex VAT)  
Contact UK dealer Arbiter 0181 202 1199 [www.fender.com](http://www.fender.com)
- GK-2A / GI-10**  
Price GK-2A: £136 (£115.74 ex VAT); £99 (£84.25 ex VAT) for an internal fitting. GI-10: £440 (£374.47 ex VAT). But check out a bundling deal.  
Contact Roland 01792 515020  
[www.roland.co.uk](http://www.roland.co.uk)
- Kodak DC 260 Pro**  
Price £900 (£767 ex VAT)  
Contact Kodak 0800 281487  
[www.kodak.com](http://www.kodak.com)
- Sony PCG505G**  
Price £2,300 (£1,959 ex VAT)  
Contact Sony 0870 240 2408  
[www.sony.com](http://www.sony.com)

# Computers

## Professional Workstation AP500

- Intel® Pentium® II processor, 450MHz (dual processor capable) with 512KB level 2 cache
- 128MB 100MHz ECC RAM (up to 1GB)
- 4.3GB Wide-Ultra SCSI hard drive
- 32X CD-ROM drive
- 2D/3D ELSA GLoria Synergy+ graphics
- Compaq NC 3121 10/100 Fast Ethernet NIC



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## Compaq Armada 1700 6233T

- Intel® Pentium® II processor, 233MHz
- 12.1" colour SVGA TFT screen
- 32MB high performance SDRAM memory
- 4GB SMART hard drive
- Integrated 24X CD-ROM drive (DVD drive optional)
- MultiBay to support integrated floppy drive or optional second battery, second hard drive, LS120 SuperDisk drive or Zip drive
- Integrated AC power adapter
- Microsoft Windows 95 or Windows 98



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## Remote Access Server RA 5218 NT

- Easy to install and manage server, pre-installed and tested with a suite of powerful remote access hardware and software
- 8-port analog integrated 33.6K V.34 modem
- Flexibility to add additional communication applications



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## Presario 5640

- Intel® Pentium® II processor, 400MHz with 100MHz system bus
- 64MB SyncDRAM memory (100MHz)
- 8GB Ultra DMA hard drive, 2nd generation DVD-ROM
- Diamond PCI 56Kbps ITU V.90 modem<sup>1</sup>
- 8MB SyncGraphics 2X AGP graphics slot, ATI 3D Rage LT Pro card
- Compaq Easy Access Internet Keyboard
- PCI audio acceleration plus Aureal A3D Interactive 360° positional sound, Dolby Digital Surround Sound (AC-3), JBL 3D VirtualTheater (VMaX) and external JBL Pro speakers
- Compaq Presario monitor MV700 (17"). Additional monitor sizes available for purchase (MV400, MV500, MV900 and FP500)
- Includes Microsoft Windows 98 and many other software titles



£1799 inc VAT<sup>2</sup>

## Deskpro EP Series SB 6350

- Intel® Pentium® II processor, 350MHz with 512KB level 2 cache
- 64MB high performance 100MHz SDRAM
- 6.4GB SMART II Ultra ATA hard drive
- ATI Rage Pro Turbo AGP 1X graphics with 4MB SGRAM
- 24X CD-ROM drive with 16 bit audio
- 17" colour monitor
- Microsoft Windows 95, Microsoft Office 97 Small Business Edition, Symantec Norton AntiVirus and Microsoft AutoRoute Express



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## Peripherals

### C-Series 2010c

- 20MB RAM upgradeable to 32MB
- Integrated 33.6Kbps modem for e-mail and Internet on the move
- High quality colour screen with backlight
- Windows CE 2.0 plus extra utilities



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- Hubs can be linked together in a simple LAN configuration via the uplink port
- At-a-glance basic management through multi-coloured LEDs over overall status including power, link, collision, port partition and port traffic



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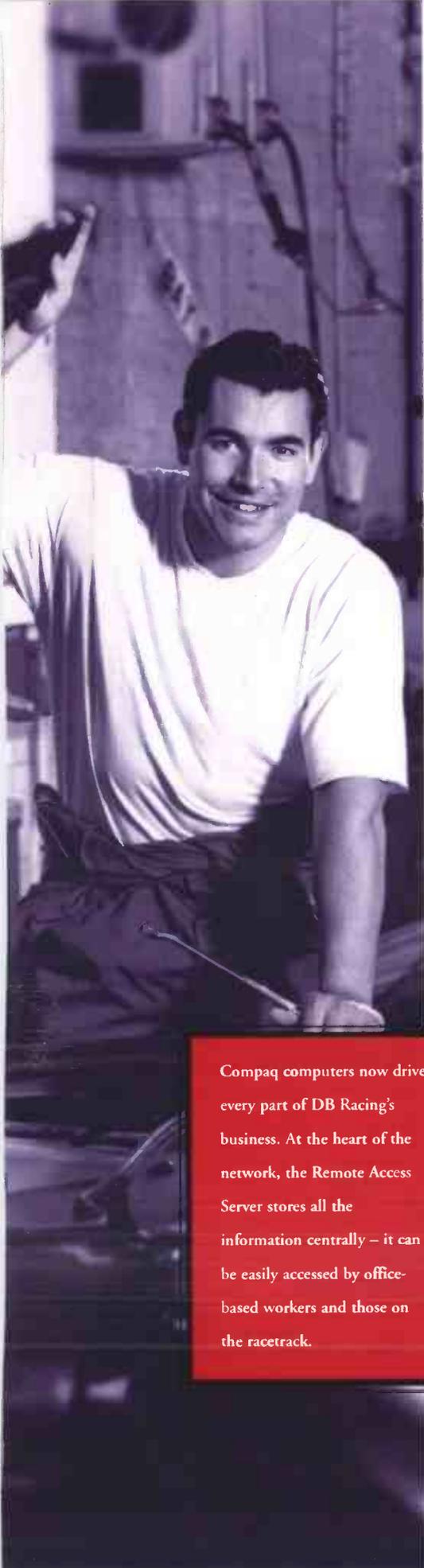


0845 270 40 40

**COMPAQ**

The Intel Inside Logo and Pentium are registered trademarks and MMX is a trademark of Intel Corporation. Not all products in the Deskpro and ProSignia families contain the Pentium II processor. <sup>1</sup>ITU V.90 modems are designed only to allow faster downloads from ITU V.90 compliant digital sources. <sup>2</sup>Price includes 17" monitor. Prices refer to specification descriptions only. Prices quoted are Typical Buying Prices. Prices are correct at time of going to press. Remote Access Server prices do not include VAT. Prices change frequently and are subject to change without notice. The photographed product may not always match the specification in this advert. The picture is not intended to be representative of the actual screen image quality. The case study has been created for illustrative purposes only; DB Racing is a fictitious company and any similarity to an existing organisation is coincidental. Please call for full specifications of the models included in the lease price. Product names mentioned herein may be trademarks or registered trademarks of their respective companies. E&OE. Calls may be monitored for quality control purposes. Issue 14

CI



When DB Racing decided to computerise their family-run racing car business, they naturally turned to Compaq, the world's No.1 PC manufacturer†, to fulfil their driving ambitions.

With no previous IT experience themselves, they needed expert advice to help them choose the right computers for every task from car design to essential administration – and even something for the pit lane. They also needed the reassurance of a comprehensive service and support package. Working closely with a local reseller, DB Racing gave the green light to a total solution from Compaq, leasing it to make their budget stretch even further. Thanks to Compaq, their business is now right on track.

† Source: Dataquest estimates:- Feb'98, worldwide Total PC market units 1997

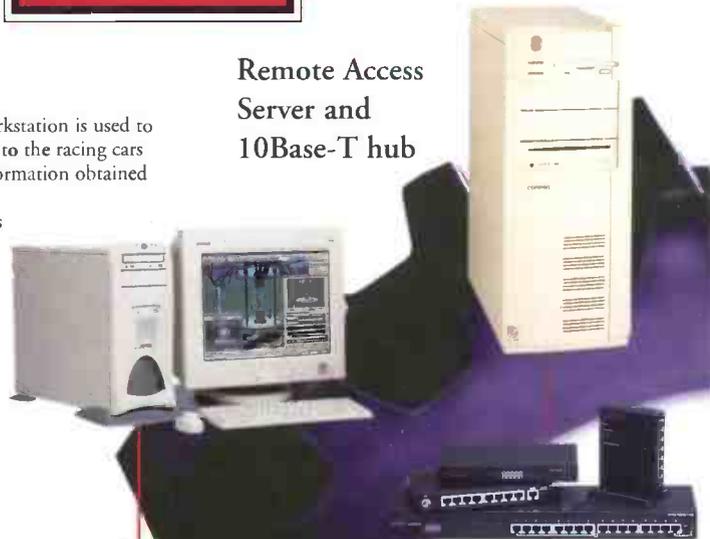
## Drive your business with unbea

### Head Office

The Professional Workstation is used to design modifications to the racing cars as well as analyse information obtained at the racetrack. Performance statistics are analysed to enhance the engineering process.

### Remote Access Server and 10Base-T hub

Compaq computers now drive every part of DB Racing's business. At the heart of the network, the Remote Access Server stores all the information centrally – it can be easily accessed by office-based workers and those on the racetrack.



### Home

This Deskpro EP Series SB 6350 handles all DB Racing's administration – everything from payroll to Internet access.

The Managing Director uses his Presario 5640 to access information from home and his children use it to play the latest games.

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## Engineering Bay

### Armada 1700 6233T

Armada notebooks are used by the engineers for monitoring, tweaking and even downloading updates to the onboard engine management system.

## Pit Lane

In the pit lane, Armada notebooks capture performance details during qualifying and main events. The data is fed immediately to head office via the Remote Access Server.

Armada 1700 6233T

# table solutions and unbeatable value

A Compaq Deskpro EP Series SB 6350 runs an Engine Management System to develop the most efficient parameters for optimum engine performance, based on information fed from the server.



CarePaqs provide extended warranty designed to offer convenience, complete peace of mind and minimise downtime.



The sponsorship manager uses the new C-Series handheld PC companion to access his presentations, documents and e-mail whilst out of the office visiting potential sponsors.

## The leasing route

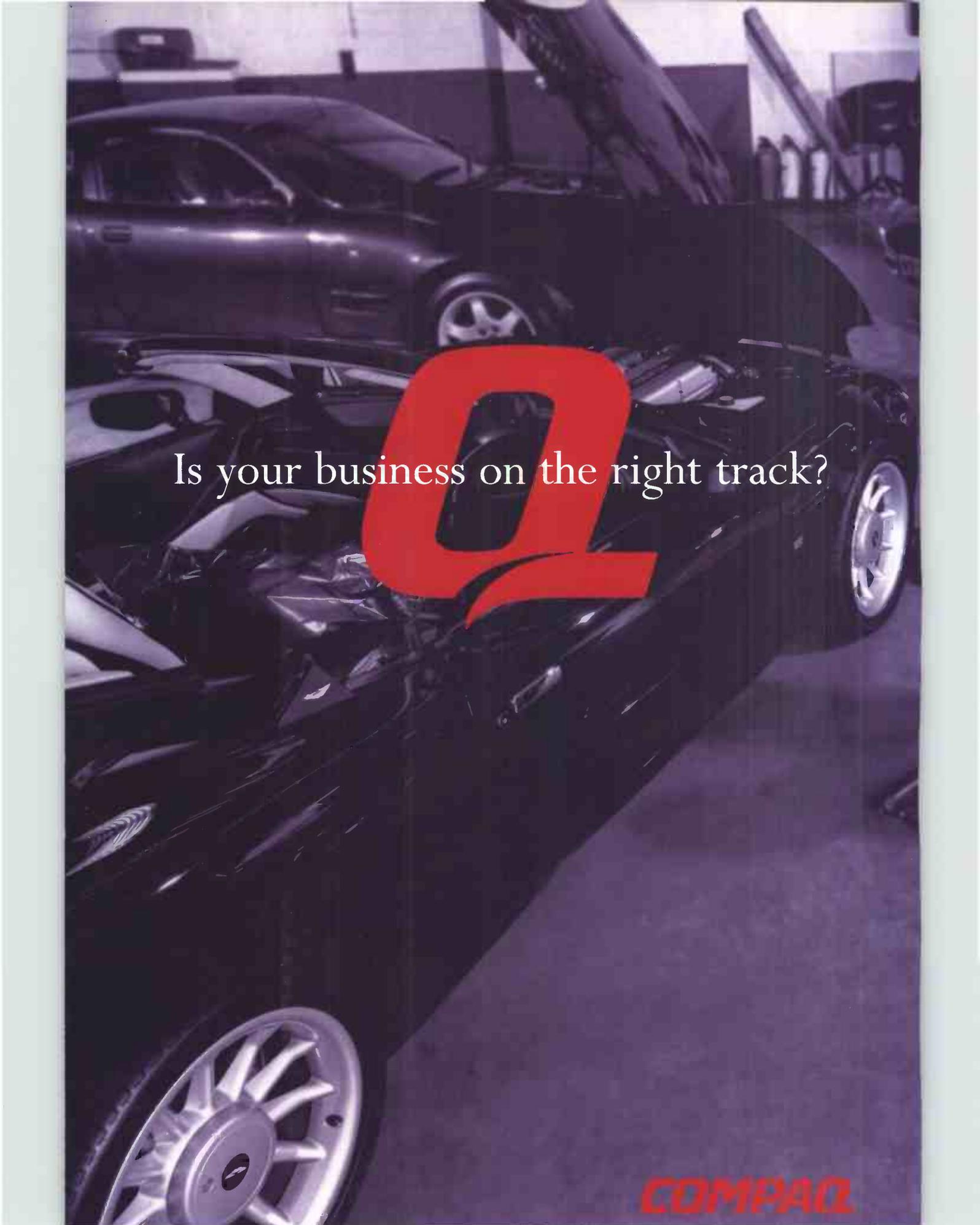
Just £72 per week! DB Racing chose to lease their entire solution – two Armadas, two Deskpros, one Professional Workstation, one NT-Remote Access Server, four monitors, one C-Series, one 10Base-T hub, two modem cards, four CarePaqs – plus four days of consultancy from their chosen reseller.

This example is based upon a 48 month lease contract with rentals payable monthly in advance. Minimum value £5,000 and is available to limited companies only, finance subject to status. This example is only valid at the time of going to press and excludes VAT.



Please turn over for full product details

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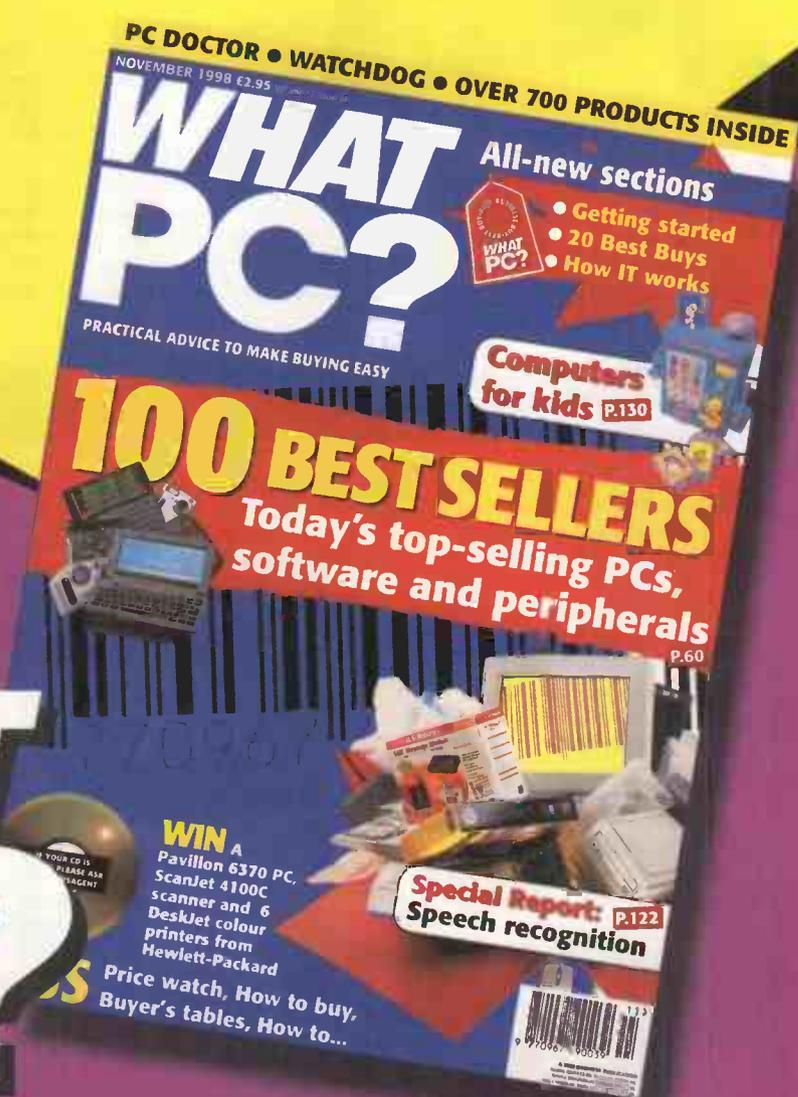
C4

pentium® II

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PRACTICAL ADVICE TO MAKE BUYING EASY

Paul Trueman

**T**was the night before Christmas when all round the house, not a thing stirred... apart from the sound of me blasting the living daylights out of everything with my Gravis Xterminator! The first present on my wish list transformed my game playing when I reviewed it, and offers everything the joystick-weary gamer could wish for. Digitally programmable, an ergonomic dream, plus enough buttons with which to kick intergalactic butt, this pad does the business with



almost any game you care to throw its way.

Videoconferencing "toys" are increasingly being aimed at the home user. But often, because of a poor picture and poor frame rate, it

isn't a good idea to get one. However, a couple of Kodak DVC323s would do very nicely, thank you very much.

This great, affordable camera is the business if, in the words of Billy Baldwin in the film *Sliver*, "you like to watch." It's a dream to set up, it uses the snazzy new USB port, and the picture quality is surprisingly impressive, given its price.



**My final choice** is the most fanciful. A Sega DreamCast. Yes, yes, they're just out in Japan (November) and, fingers crossed, they'll be out in the UK next September. All the suckers might be buying PlayStations at knockdown prices, and good luck to 'em, but the Sony console is yesterday's technology and the price has only been reduced because Sony is milking the last of its

cash cow. The DreamCast will be three times more powerful than even the latest arcade machines, and Sega has shown that it has learned from the lessons of the disastrous Saturn. The trip over to Tokyo to buy it, of course, will be the icing on my Christmas cake.

PCW DETAILS

**Gravis Xterminator**

**Price** £39.95

**Contact** Gravis 0800 252359

[www.accoeurope.com](http://www.accoeurope.com)

**Kodak DVC323**

**Price** £159.99 (£136.16 ex VAT)

**Contact** Kodak 0800 281487

[www.kodak.com](http://www.kodak.com)

**Sega Dreamcast**

**Price** Out now in Japan at Y29,800 (£146). Due out in the UK Sept '99

**Contact** Sega [www.sega-europe.com](http://www.sega-europe.com)

Ajith Ram

**I**'d like a little Marvel for Christmas. This all-in-one entertainment solution is built on Matrox's 128-bit chipset. It's an excellent 2D/3D graphics card which turns into a video capture card. Users can plug their VCRs and camcoders directly into Marvel's breakout box to capture full-screen video in MJPEG format, and edit it using the bundled Avid Cinema software. There is a built-in TV tuner and motion compensation for DVD playback, too.

Also on my list is the SoundBlaster Live! sound card. Built around the EMU 101K chipset, the SB Live! is a

tremendous improvement over other sound cards. Due to its powerful processor, it



can support up to 512 MIDI voices simultaneously. It also handles 32 DirectSound 3D streams in hardware and has its own API, called Environmental Audio Extensions, which helps games developers add realistic sound effects. The card comes with a good collection of music-editing software and a copy of the popular game, Unreal.

**My stocking is nearly full**, but there's room enough for the Wicked 3D Voodoo2 graphics card. While other Voodoo2 cards are limited to a resolution of 800x600, the Wicked 3D board supports resolutions up to 1024x672.

If two Wicked 3D boards are put together in SLI mode, the resolution rises to 1280x1024. It supports WickedVision, too, so when used with stereoscopic glasses, WickedVision transforms most Direct3D, OpenGL games into true holographic ones. The Wicked 3D board is the fastest Voodoo2 card in Direct3D applications.



PCW DETAILS

**Marvel G200**

**Price** £199 (£169 ex VAT)

**Contact** Matrox 01753 665533

[www.matrox.com](http://www.matrox.com)

**SoundBlaster Live!**

**Price** £149 (£126 ex VAT)

**Contact** Creative Labs 01245 265265 [www.sblive.com](http://www.sblive.com)

**Wicked 3D Voodoo2**

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**Contact** Henderson I.D; 01256 333975 [www.wicked3d.com](http://www.wicked3d.com)

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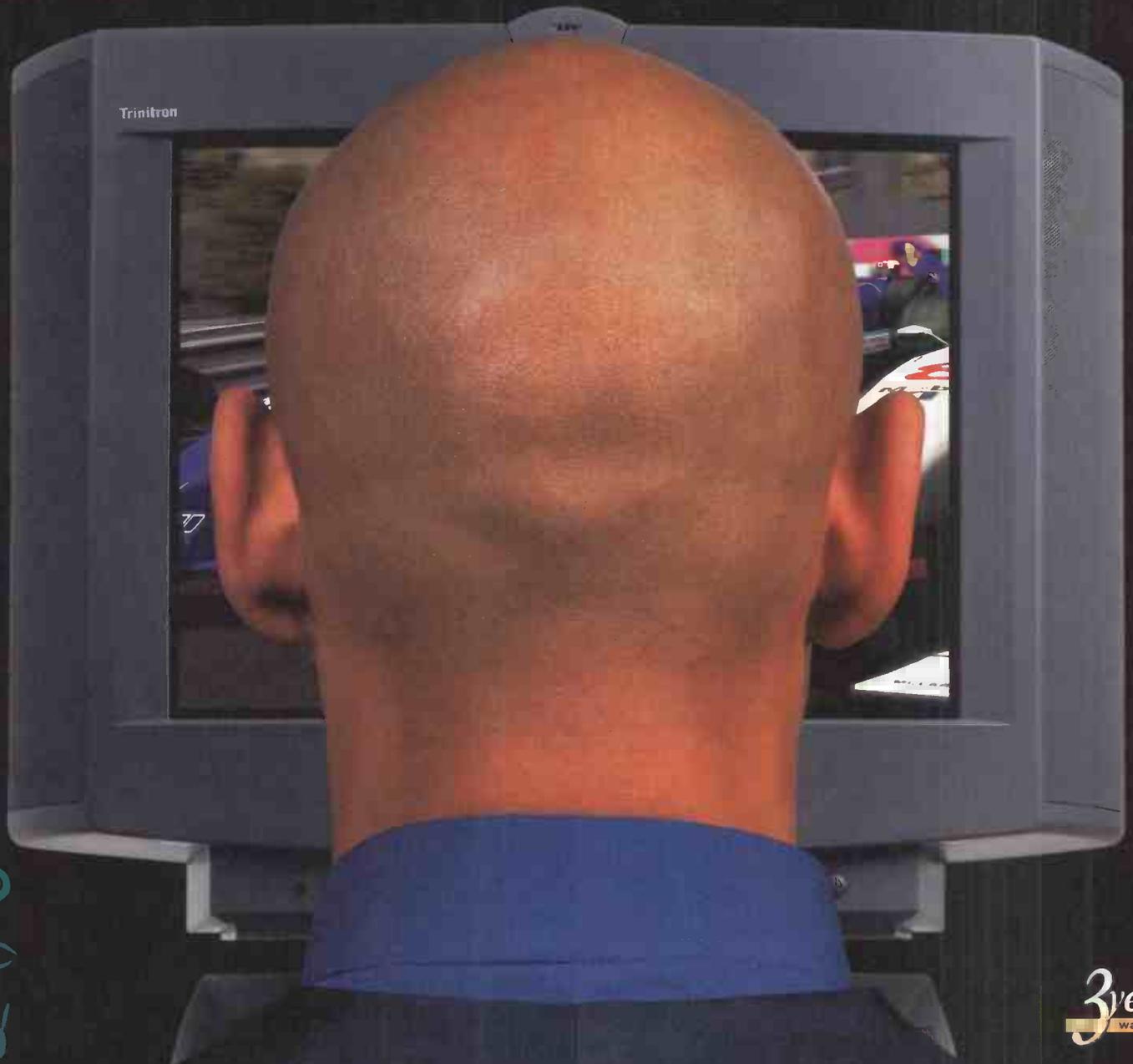
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# Christmas crackers



Why seek out three kings of Orient when you can take wise advice from us? Ajith Ram tests 12 PC systems for games, office or home, some at prices that won't sleigh you.

Christmas is that time of year when many people consider treating themselves and their family to a new PC. There's a wealth of choice and specifications around, so we have divided our group test into three categories to help you find exactly what you want.

➤ **The first category** includes four games systems. As this is a season when there's more time available in which to play games, and the largest number of games titles are released, it makes sense to test a few machines which could fit the bill as a "perfect" games machine. Our specification included a powerful graphics card, large monitor, good sound card, speakers and games bundle, for a cost of around £1,500 (inc VAT).

➤ **Our second category** is made up of mid-range systems that will run office applications, an accounts package and multimedia programs and which can be used to surf the net. In other words, the family PCs. For around £1,000 (inc VAT) we asked that these systems be equipped with a good graphics card, sound card, speakers and a decent monitor.

➤ **Our third category** consists of the budget-priced PCs. Typically costing around £700 (inc VAT) these economically priced systems are good for those on the lookout for a second home PC and are a good choice for college students on a tight budget. We weren't looking for flashy extras, just good, solid components at a fair price.

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Illustration by Mark Hudson

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### ARMARI MBX-450

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<b>PC PRO</b>	<b>PERFORMANCE</b>	★★★★★
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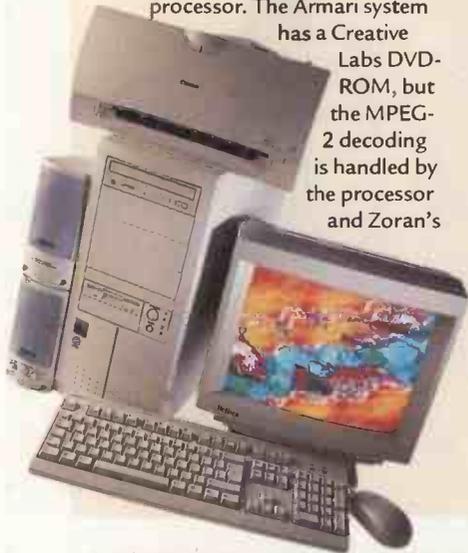
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## Armari NBX-350 95

• Games system

This machine has the same powerful graphics card as the Carrera system [below]. Housing the Riva TNT chipset, the Diamond Viper V550 supports Microsoft's DirectX 6 API and is the fastest 3D accelerator on the market [PCW November '98, p198]. With 16Mb RAM, the Viper card can handle resolutions up to 1920x1600 and is supported by a 350MHz PII processor. The Armari system has a Creative

Labs DVD-ROM, but the MPEG-2 decoding is handled by the processor and Zoran's



software DVD player. Since the Riva TNT chipset does not support motion compensation, the software playback may result in dropped frames. Audio is provided by Diamond Multimedia's Sonic Impact S90. Based on Aureal Semiconductor's Vortex chipset, the S90 is a true gamer's card. Supporting Aureal's proprietary A3D API and Microsoft's DirectSound, it is one of the few sound cards able to reproduce true surround-sound using just two speakers. The A3D API is supported in popular games.

The NBX-350 is housed in one of the largest tower cases we have seen, making its interior seem tidy and spacious. The Asus motherboard has two PCI slots free. There are also two 3.5in and 5.25in bays free, making the system easy to upgrade. The 9.1Gb hard disk is big enough to cope with demanding desktop storage requirements.

The Armari's performance in our SYSmark test was above average. Its Final Reality test results were equally good, due to its powerful graphics card.

The 17in Iiyama S7029T monitor supports resolutions up to 1600x1200 but here it has a lower refresh rate than the ADI 5GT monitor. It provides sharp images and crisp colours and the controls are easy to manipulate.

### PCW DETAILS

**Price** £1,498 (£1,275 ex VAT)

**Contact** Armari 0181 810 7441

[www.armari.com](http://www.armari.com)

**Good Points** Powerful graphics card. DVD-ROM.

**Bad Points** Average speakers. No hardware MPEG-2 decoder.

**Conclusion** A good gaming system that is easily upgradeable.

<b>Build Quality</b>	★★★★
<b>Performance</b>	★★★★
<b>Value for Money</b>	★★★
<b>Overall Rating</b>	★★★

## Carrera Power Pro 2-450

• Games system

Built around Intel's 450MHz processor, the Power Pro is the fastest system in this group test with a SYSmark test score of 181. The heart of a games PC is the graphics card. The Power Pro delivers its knockout punch through the Diamond Viper V550, *Editor's Choice* in our November '98 graphics card group test. Built around nVidia's new Riva TNT chipset and boasting a fill rate of 180 million pixels/sec, the V550 is faster even than a dedicated 3D accelerator like the Voodoo2. The Riva TNT

(Twin Texel), as its name



implies, is able to read two pixels in a single clock cycle. This gives it an advantage in games, now coming on to the market, which utilise multi-texturing. The high fill rate also gives the V550 the ability to deliver smooth frame rates. A graphics card with such brute power requires a CPU which can keep pace with it. The 450MHz Pentium II is the fastest on the market and is an excellent companion to the Diamond card. Gamers who want even more processing power might consider overclocking the CPU, although this is a risky operation. The Carrera system also has the most powerful sound card on the market. Equipped with a RISC processor as powerful as a Pentium 133, the SoundBlaster Live! is a gamer's dream. The Power Pro comes with four surround speakers and a subwoofer, and Carrera has included a driving wheel with force feedback.

The 17in LG77T monitor is able to support a refresh rate of 75Hz at 1280x1024. Built using shadow



mask technology, the LG monitor has a 0.28mm dot pitch. Although the screen was consistently bright and the images sharp at all resolutions, some of the colours in the blue region of the visible spectrum were washed out. The pushbutton controls are easy to access and manipulate.

### PCW DETAILS

**Price** £1,550 (£1,319 ex VAT)

**Contact** Carrera 0171 830 0486

[www.carrera.co.uk](http://www.carrera.co.uk)

**Good Points** Excellent graphics and sound.

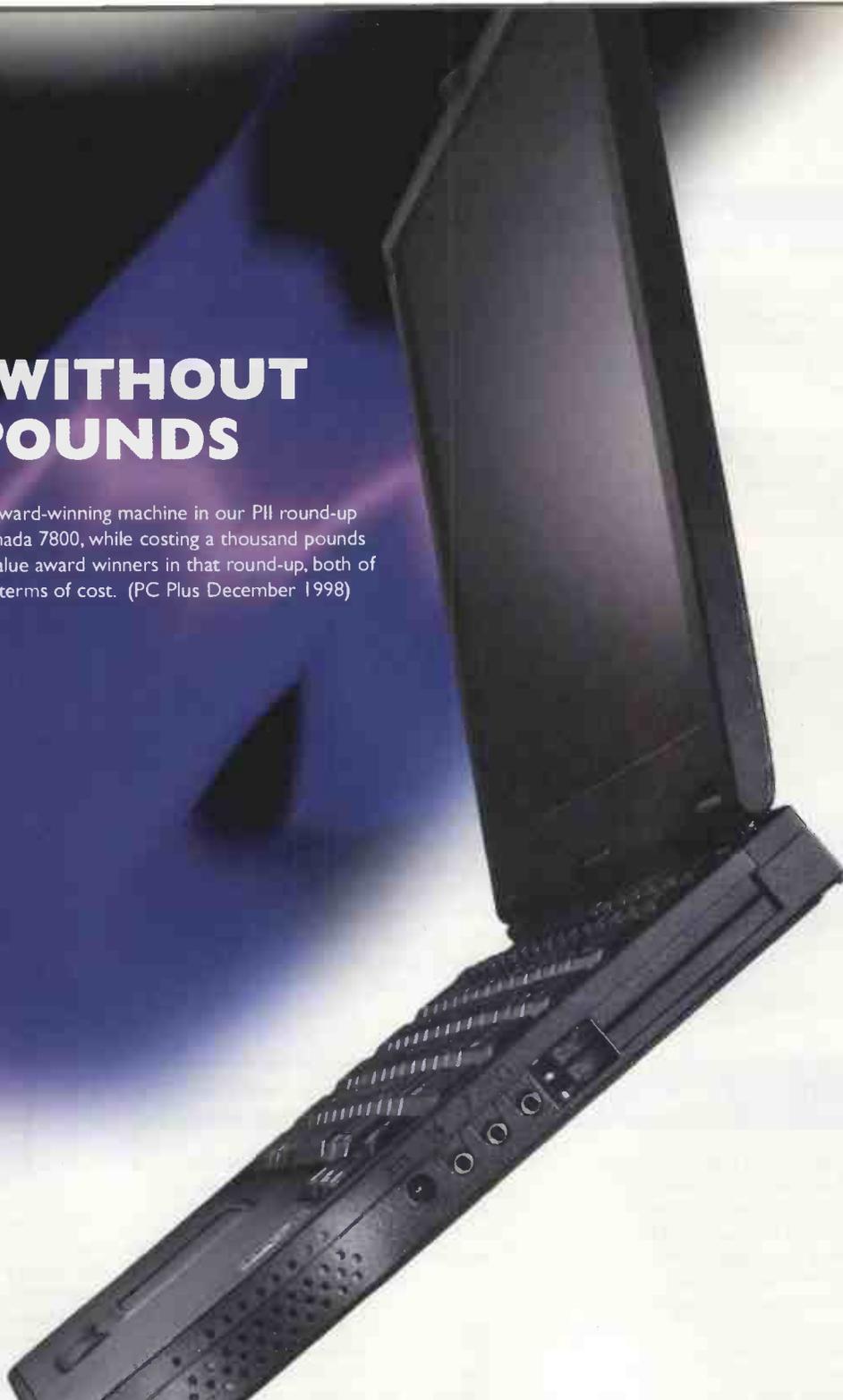
**Bad Points** None.

**Conclusion** A true gaming system.

<b>Build Quality</b>	★★★★
<b>Performance</b>	★★★★★
<b>Value for Money</b>	★★★
<b>Overall Rating</b>	★★★★

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"Overall, the TII came close to the award-winning machine in our PII round-up published in issue 143, Compaq's Armada 7800, while costing a thousand pounds less. It also out-performed our two value award winners in that round-up, both of which are comparable to the TII in terms of cost. (PC Plus December 1998)



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**PC Direct** "The Dell, Viglen & Powercom models all posted high results, however, the Powercom's extra 16Mb of memory helped it come top in the Business Winstone 97 test...the Powercom also undercuts the other two by a substantial margin and when you consider that it comes with a spare battery, a massive hard disk and MS Office 97 Small Business Edition, it looks like an attractive package." PC Direct January 1998

 "Power by name and powerful by nature, it offers great performance at a price just a whisker away from being the lowest in this group test. Although the Powercom and the Toshiba are very different, we recommend them both." "This is the first 266MHz notebook to be available in the UK, just beating Dell & Gateways offerings. The processor is the latest in Intel's timetook range of low power consumption chips, designed specifically for notebook PCs." What PC? Review March 98

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- Lithium Ion 45W battery
- 16bit Wavetable Audio Chip with SRS 3D Stereo Sound with Stereo Speakers & MIDI
- 86/87 Key Keyboard with MS Windows 95 keys
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- Executive carry case

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- Toshiba 6.4Gb ATA-33 hard disk
- Lithium ION Battery
- 16bit Crystal Wavetable Audio Chip with SRS 3D Stereo Sound & Speaker
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## Gateway G6-350

• Games system

The first gaming system Gateway sent us had a faulty motherboard. The replacement came with an Intel Tolstoy BX motherboard with a 350MHz PII processor. To provide 3D acceleration for games, an STB Blackmagic Voodoo2 card was included. Although it's a good 3D accelerator with support for single-pass multitexturing, it's not quite as powerful as the Viper V550.



Also, the Voodoo2 chipset does not support advanced features like specular lighting and bump mapping. A SoundBlaster 64 provides audio via a pair of Altec Lansing speakers. Although it's a PCI sound card, the SB 64 is not as impressive as the SB Live!. Its positional 3D sound output from the two speakers is a feeble attempt at true surround sound.

The Gateway system has a DVD-ROM but no MPEG-2 decoder card. Even with the power of the 350MHz CPU, software DVD playback results in dropped frames. One reason for this is that the main STB Velocity display card does not support motion compensation. The PC has a large 10.2Gb hard drive, big enough to keep the most avid application-hoarder happy for a while, and an Iomega Zip drive. The G6-350 was the only system that came in a desktop case. Smaller than the tower models, the interior was slightly cramped. With two free PCI slots and a single ISA slot, the Gateway system is not as easily upgradeable as others in the group.

The 17in Gateway monitor is not as good as the LG77T nor the ADI 5GT. Its refresh rate of 1024x768 is an acceptable 85Hz but this falls to a poor 60Hz at 1280x1024. Its colour fidelity and image sharpness are on a par with others, though.

### PCW DETAILS

**Price** £1,397 (£1,189 ex VAT)  
**Contact** Gateway 0800 552000  
[www.gateway.com/uk](http://www.gateway.com/uk)  
**Good Points** Powerful. Dedicated 3D graphics card. DVD-ROM.  
**Bad Points** Average sound card. No hardware MPEG-2 decoder.  
**Conclusion** Some good components, but not the most powerful gaming PC.

<b>Build Quality</b>	★★★★
<b>Performance</b>	★★★★
<b>Value for Money</b>	★★★★
<b>Overall Rating</b>	★★★★

## Mesh Elite Terminator 350

• Games system

Unlike Armari, Carrera and Gateway, Mesh supplied a PC with an AMD processor. Running at 350MHz, the K6-2 is an excellent choice for a gaming system. This is because its 27 3D Now! instructions speed up floating-point calculations, giving it an edge over a Pentium II of the same speed. The Hercules

Terminator Beast graphics card, although fearsome in name, is not as powerful as the Diamond



Viper V550, but in games which do not use multitexturing it is still faster than a dedicated 3D accelerator like the Voodoo2. The Savage 3D chipset on which it is built is also the only one that supports texture compression, part of Microsoft's new DirectX 6 API.

The Teac PowerMax multimedia system is another impressive part of the Mesh PC. Consisting of five speakers and a dedicated subwoofer, the PowerMax is capable of reproducing true Dolby Pro Logic surround sound. Unfortunately, it lacks support for superior Dolby AC-3, so users will not be able to hear DVD movie soundtracks in their full glory. The AWE 64 Gold, although one of the best ISA sound cards ever produced, is not as powerful as its successor, the SoundBlaster Live!. It also lacks support for surround sound.

The Mesh system is well built. All the wires and IDE cables are kept well out of the way and the components are easily accessible.

It has three PCI slots and one free ISA slot.

The 17in ADI 5GT monitor is built using Sony's Trinitron technology. With a 0.26mm dot pitch, this monitor supported the highest refresh rates in this group test. Its picture quality and colour fidelity are among the best.

### PCW DETAILS

**Price** £1,500 (£1,275 ex VAT)  
**Contact** Mesh 0181 208 4700  
[www.meshplc.co.uk](http://www.meshplc.co.uk)  
**Good Points** Powerful graphics card. DVD-ROM with MPEG-2 decoder. Excellent speakers.  
**Bad Points** Average sound card.  
**Conclusion** A powerful gaming system that deserves consideration.

<b>Build Quality</b>	★★★★★
<b>Performance</b>	★★★★★
<b>Value for Money</b>	★★★★★
<b>Overall Rating</b>	★★★★★

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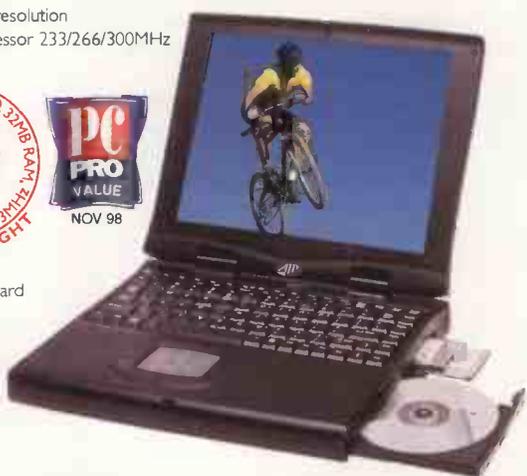
AJP 1100

## AJP 1100 & AJP 1100M Specification

- 14.1" / 13.3" TFT Active LCD XGA 1024x768 resolution or 12.1" TFT Active LCD SVGA 800x600 resolution
- 1100M: Intel Mobile Pentium processor 200/233/266MHz upgradeable to Intel Mobile Pentium II processor 233/266/300MHz
- 1100: Intel Pentium MMX processor 233MHz
- Intel 430TX/440BX Chipset on motherboard
- 4MB Video RAM, 64 bit, S3 Virge 2D/3D graphics accelerator
- 32MB SDRAM upgradeable to 128MB
- 2.1GB HDD upgradeable to 6.4GB. Supports Ultra DMA, ATA-33
- 512KB secondary cache pipeline burst synchronous RAM
- 24 Speed CD ROM Drive
- 3.5" 1.44MB floppy disk drive
- 1 x Type III or 2 x Type II PCMCIA slots. Supports ZV card
- 3-D sound, 16 bit stereo, full duplex sound card, stereo speakers, microphone
- Ports: IrDA, Universal Serial Bus (USB), Serial, Parallel, Monitor, Docking Station, Ext. Mouse and Keyboard
- NiMH battery delivers approximately 2hrs continuous use
- Windows 98 supplied as standard preloaded with CD's and manual. (or Windows 95)
- Software MPEG supplied as standard
- Kensington Lock
- 24 speed CD ROM Drive interchangeable with optional DVD Drive (only for 1100M)
- Ports: Video In and Video Out (only for 1100M)
- Supports optional MPEG II hardware accelerator card (only for 1100M)
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	Exc.VAT	Inc.VAT	Exc.VAT	Inc.VAT	Exc.VAT	Inc.VAT	Exc.VAT	Inc.VAT	Exc.VAT	Inc.VAT	Exc.VAT	Inc.VAT	Exc.VAT	Inc.VAT
12.1" TFT Active	£849.00	£997.58	£875.00	£1028.13	£925.00	£1086.88	£975.00	£1145.63	£1025.00	£1204.38	£1125.00	£1321.88	£1299.00	£1526.33
13.3" TFT Active	£925.00	£1086.88	£949.00	£1115.08	£999.00	£1173.83	£1049.00	£1232.58	£1099.00	£1291.33	£1199.00	£1408.83	£1375.00	£1615.63
14.1" TFT Active	£999.00	£1173.83	£1025.00	£1204.38	£1075.00	£1263.13	£1125.00	£1321.88	£1175.00	£1380.63	£1275.00	£1498.13	£1449.00	£1702.58

AJP 979

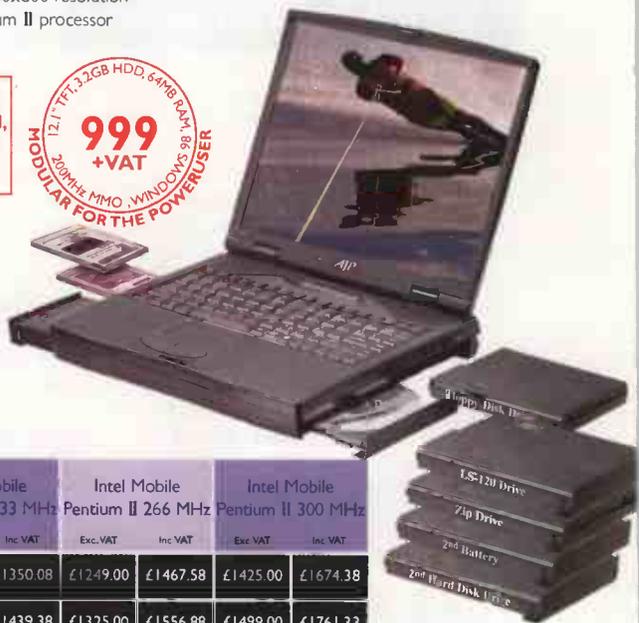
## AJP 979 Specification

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- Intel Mobile Module Pentium processor 200/233/266MHz upgradeable to Intel Mobile Pentium II processor 233/266/300MHz
- Intel 430TX/440BX Chipset on motherboard
- 64MB SDRAM upgradeable to 128MB
- 3.2GB HDD upgradeable to 6.4GB. Supports Ultra DMA, ATA-33
- 4MB Video RAM, 64 bit video adapter, 2D/3D graphics accelerator
- 512KB secondary cache pipeline burst synchronous RAM
- 24 Speed CD ROM Drive interchangeable with optional DVD Drive
- User removable 3.5" 1.44MB FDD supplied as standard, interchangeable with optional: Iomega Zip Drive, LS-120 Drive, 2nd Battery, 2nd Hard Disk Drive
- 1 x Type III and 1 x Type II PCMCIA slots. Supports ZV card
- 3-D sound, 16 bit stereo, full duplex sound card, stereo speakers, microphone
- Ports: 2 Universal Serial Bus (USB), Video-In (Video Capture), Video-Out (TV Output), Serial, Parallel, Monitor, Port Replicator, PS/2 Mouse and Keyboard, Game Port, IrDA
- Li-Ion battery delivers approximately 2hrs continuous use
- Windows 98 supplied as standard preloaded with CD's and manual. (or Windows 95)
- Software MPEG supplied as standard
- Dimensions: 316mm (W) x 259mm (D) x 55mm (H) Weight: 3.5Kg

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	Exc.VAT	Inc.VAT	Exc.VAT	Inc.VAT	Exc.VAT	Inc.VAT	Exc.VAT	Inc.VAT	Exc.VAT	Inc.VAT	Exc.VAT	Inc.VAT
12.1" TFT Active SVGA	£999.00	£1173.83	£1049.00	£1232.58	£1099.00	£1291.33	£1149.00	£1350.08	£1249.00	£1467.58	£1425.00	£1674.38
13.3" TFT Active XGA	£1075.00	£1263.13	£1125.00	£1321.88	£1175.00	£1380.63	£1225.00	£1439.38	£1325.00	£1556.88	£1499.00	£1761.33
14.1" TFT Active XGA	£1149.00	£1350.08	£1199.00	£1408.83	£1249.00	£1467.58	£1299.00	£1526.33	£1399.00	£1643.83	£1575.00	£1850.63

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Additional NiMH Battery	49.00	57.58	DVD Drive	199.00	233.83
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YEAR 2000 HARDWARE COMPLIANT

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64MB SDRAM 3.2GB HDD Windows 98	Pentium MMX 233 MHz		Intel Mobile Pentium 200 MHz		Intel Mobile Pentium 233 MHz		Intel Mobile Pentium 266 MHz		Intel Mobile Pentium II 233 MHz		Intel Mobile Pentium II 266 MHz		Intel Mobile Pentium II 300 MHz	
	Exc. VAT	Inc. VAT	Exc. VAT	Inc. VAT	Exc. VAT	Inc. VAT	Exc. VAT	Inc. VAT	Exc. VAT	Inc. VAT	Exc. VAT	Inc. VAT	Exc. VAT	Inc. VAT
15.1" TFT Active	£1375.00	£1615.63	£1399.00	£1643.83	£1449.00	£1702.58	£1499.00	£1761.33	£1549.00	£1820.08	£1649.00	£1937.58	£1825.00	£2144.38

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## Atlantic Pro 98

• Mid-range system

The Atlantic Pro 98, like the Tiny Family Bonus system [p148], houses the 333MHz Celeron processor with 128Kb of L2 cache and comes with a BX motherboard. With its capacity to handle bus speeds of up to 100MHz, this motherboard can hold processors faster than 500MHz. Atlantic has included 64Mb of PC 100 SDRAM. This memory runs at a maximum speed of 100MHz although it will clock down to 66MHz when used with the Celeron. Upgrading the processor at a later date will be



easy, as the motherboard and RAM are ready to run faster and so give a big performance boost. The 6.4Gb hard drive in the Pro 98 is larger than the one in Tiny's system and is adequate for a family PC. There are three PCI slots free.

The ATi Xpert 98 graphics card is based on the 64-bit Rage Pro Turbo chipset. Even though the card in the Atlantic system has only 4Mb of memory, it is upgradeable to 8Mb for a little more money. The Xpert 98, in addition to being a good 2D/3D card, also supports motion compensation for DVD playback. Although Pro 98 does not have a DVD-ROM, users who intend to upgrade can mobilise the help of the graphics card for software playback, provided the processor is powerful enough to support it. The Terratec Xlerate is a PCI sound card which supports Aureal's A3D API. This enables it to reproduce surround sound through just two speakers. Due to its support for 64 voices, the Xlerate can also function as a MIDI card.

The 17in Hansol 700 monitor supports resolutions up to 1280x1024 but its refresh rate at that resolution is a flickery 60Hz. At lower resolutions the refresh rate rises to 85Hz. Its screen is not as bright and clear as the ADI and Iiyama monitors in this group test.

### PCW DETAILS

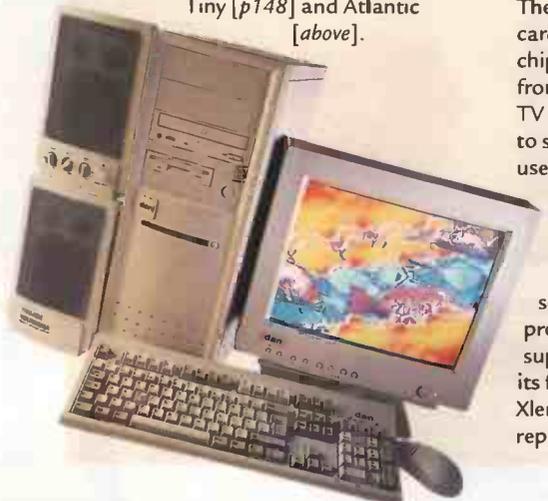
**Price** £997 (£899 ex VAT)  
**Contact** Atlantic 0990 134725  
[www.atlanticsystems.com](http://www.atlanticsystems.com)  
**Good Points** Easily upgradeable. Well constructed.  
**Bad Points** Average monitor.  
**Conclusion** An easily upgradeable system with some good components.

<b>Build Quality</b>	★★★★
<b>Performance</b>	★★★★
<b>Value for Money</b>	★★★★
<b>Overall Rating</b>	★★★★

## Dan Xplora II Plus

• Mid-range system

When Intel released the original Celeron processor, it was heavily criticised for its lack of L2 cache and consequent poor performance in office applications. However, its successor, the 333MHz processor with 128Kb L2 cache, is proving popular with system vendors. The Dan Xplora, like four other systems in this group test, comes with this CPU. It has a motherboard based on the BX chipset, as do the systems from Tiny [p148] and Atlantic [above].



Currently running at 66MHz, the speed of the frontside bus can be increased to 100MHz if a faster processor, such as a Pentium II 350, is inserted. Its ability to accommodate CPUs beyond 500MHz makes it the ideal platform for upgrading.

This Dan system is well built, with ample ventilation. Its two free DIMM slots, four PCI slots and two 5.25in bays make it easy to upgrade. The ATi All-in-Wonder Pro graphics card is built on the Rage Pro Turbo chipset. What differentiates this from the Xpert 98 is a high-quality TV tuner: in addition to being able to see a TV display on the monitor, users can capture the images as AVI or BMP files. However, the TV tuner does need a boosted signal to work properly.

The AWE 64 Value is an ISA sound card using the EMU1000 processor. Although it is able to support 64 voices simultaneously, its fidelity is not as high as the PCI Xlerate sound card. Also, it cannot reproduce surround sound through

two speakers. The Dan Hi-Fi speakers are very good quality.

The 15in CTX monitor handles refresh rates up to 85Hz at 1024x768 but this falls to a flickery 60Hz at its highest resolution of 1280x1024. Overall, this CTX monitor is not quite as good as the ADI Microscan 4P.

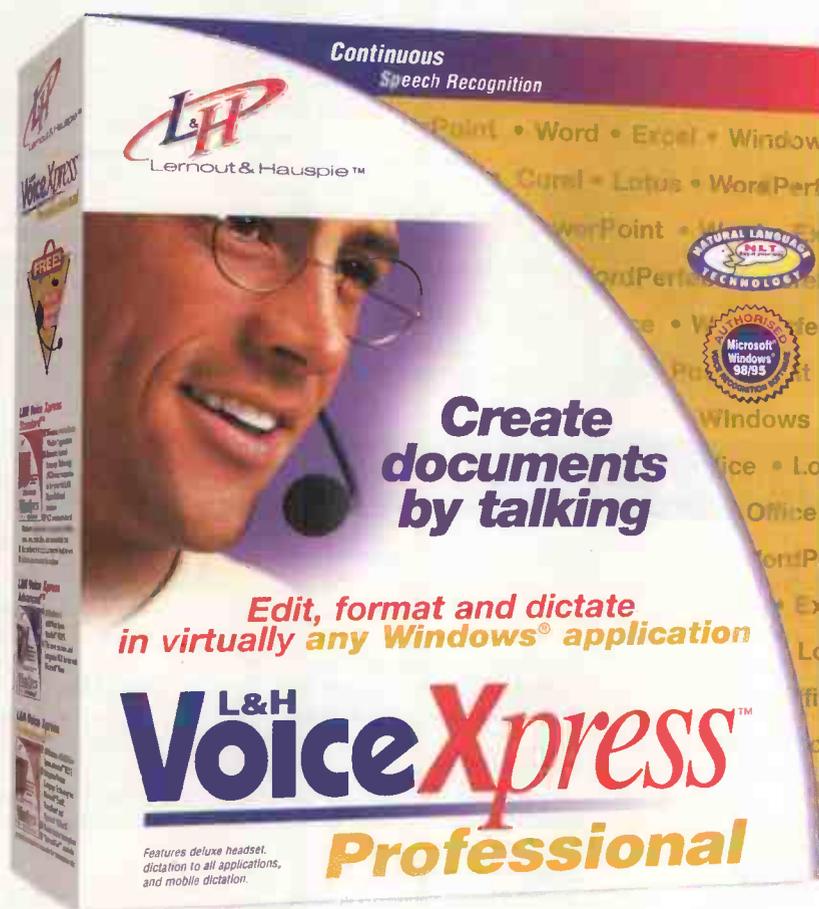
### PCW DETAILS

**Price** £1,018 (£866 ex VAT)  
**Contact** Dan 0181 830 1100  
[www.dan.co.uk](http://www.dan.co.uk)  
**Good Points** Well constructed. Good graphics card.  
**Bad Points** Average sound card.  
**Conclusion** An easily upgradeable system, slightly let down by an average monitor.

<b>Build Quality</b>	★★★★
<b>Performance</b>	★★★★
<b>Value for Money</b>	★★★★
<b>Overall Rating</b>	★★★★

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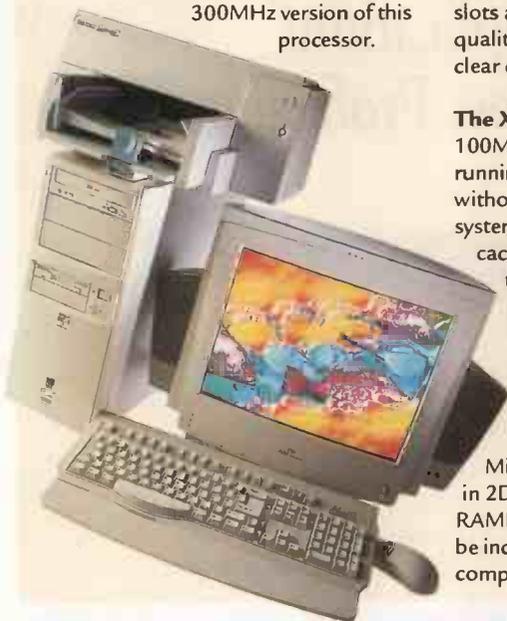
[WWW.LHS.COM](http://WWW.LHS.COM)

## Mertec XM300-K2

Mid-range system

Although Intel has an overall market share of 85 percent, the budget PC market rests firmly in the hands of AMD. Its new K6-2 processor, with 27 hard-coded MMX-style instructions that speed up floating-point calculations, has been well received by system vendors.

Mertec's XM300 uses the 300MHz version of this processor.



The AMD processor comes on a Super Socket 7 motherboard. Like the BX motherboard used for Intel's processors, the Super 7 is capable of running at 100MHz and can support K6-2 processors faster than 500MHz. The Mertec system can be easily upgraded by virtue of its two free DIMM slots and three PCI slots. The build quality is excellent, with cables kept clear of any critical components.

The XM300 has 64Mb of RAM, of the 100MHz variety, which is enough for running Windows 98 applications without any major hiccups. The Mertec system additionally comes with 1Mb of cache on the motherboard. Although this is supposed to boost performance, it was not reflected in the system's SYSmark test score. The Millennium G200 graphics card is one of the most powerful around. Based on the Matrox 128-bit G200 chipset, the 8Mb Millennium is an excellent performer in 2D and 3D applications. It has a high RAMDAC of 250Hz and its memory can be increased to 16Mb. It also has motion compensation for DVD playback.

The 17in ADI 5P monitor is not as good as the costlier ADI 5GT. With a 0.28mm dot pitch, this shadow mask monitor supports a resolution of 1280x1024 at a flickery 60Hz. Its refresh rate increases to 85Hz at lower resolutions.

### PCW DETAILS

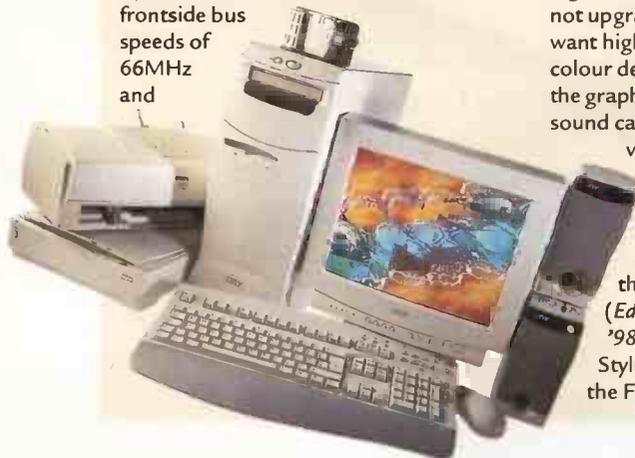
**Price** £999 (£850 ex VAT)  
**Contact** Mertec 01792 473700,  
[www.mertec.co.uk](http://www.mertec.co.uk)  
**Good Points** Well constructed.  
 Good graphics and sound.  
**Bad Points** Average performance.  
**Conclusion** An easily upgradeable system.

<b>Build Quality</b>	★★★★
<b>Performance</b>	★★★
<b>Value for Money</b>	★★★★
<b>Overall Rating</b>	★★★

## Tiny Family Bonus

Mid-range system

The Family Bonus system has Intel's latest 333MHz processor from the low-cost Celeron series. Unlike the original Celeron, which had no cache, the new processor has 128Kb of L2 cache running at the same clock speed as the processor. This makes it a good choice for running routine office applications like Word and Excel. Even though the Celeron has its own EX motherboard, Tiny has chosen a superior BX model, making the system easily upgradeable. The Microstar motherboard can handle frontside bus speeds of 66MHz and



100MHz, which means the buyer can upgrade to a faster PII processor. But to get a real performance kick, the RAM will also have to be upgraded, to PC100 SDRAM. The motherboard has three PCI and two ISA slots free.

The ATI 3D Charger graphics card uses an older Rage II chipset and has 4Mb of SDRAM. It's not as powerful as ATI's own next-generation cards, based on the Rage Pro chipset, but the 3D Charger is good enough for regular work. The 4Mb of memory is not upgradeable, though. Users who want high resolutions at better colour depths will have to replace the graphics card. The Yamaha sound card pushes sound out of two very stylish speakers and its fidelity is above average.

Living up to its name, the Family Bonus comes with three PC peripherals: the Umax Astra 610P scanner (Editor's Choice in our September '98 group test), the Epson Stylus Color 300 printer and the Fuji DX-5 digital camera with



4Mb of Flash memory. The Tiny system is certainly value for money.

The 15in Tiny monitor does not support resolutions beyond 1024x768, and at that resolution its refresh rate falls to 65Hz. The images have good clarity, though, and the controls are easy to access.

### PCW DETAILS

**Price** £1,056 (£899 ex VAT)  
**Contact** Tiny 0800 821333  
[www.tiny.com](http://www.tiny.com)  
**Good Points** Easily upgradeable.  
 Free scanner, printer and digital camera.  
**Bad Points** Average monitor.  
**Conclusion** A well built system that is excellent value for money.

<b>Build Quality</b>	★★★★
<b>Performance</b>	★★★
<b>Value for Money</b>	★★★★
<b>Overall Rating</b>	★★★★

# No one can judge a computer supplier better than the user!

The computer press asked the readers for their experiences with computers and computer suppliers.

## How does your supplier rank?

For the sixth year running, we've been voted "Best for Service and Reliability" in PC Magazine's 1998 survey, beating the biggest names in the business. The results speak for themselves:

### OVERALL WINNER: Desktop systems

Supplier	Score
Dan	82.40
Dell	81.78
HP	78.94
Fujitsu	75.30
IBM	75.23
Gateway	74.93
Viglen	74.62
Compaq	74.47
AST	74.44
Simply	73.97
Evesham	73.55
Elonex	72.29
Packard Bell	68.58
Tiny	67.8
Colossus	64.47

### WINNER: Overall satisfaction with service and reliability

Supplier	Score
Dan	4.34
Evesham	3.99
Simply	3.98
Dell	3.96
Gateway	3.99
Viglen	3.80
Fujitsu	3.76
HP	3.75
Elonex	3.74
IBM	3.68
Compaq	3.60
AST	3.58
Packard Bell	3.51
Colossus	3.44
Tiny	3.22

### WINNER: Satisfaction with technical support

Supplier	Score
Dan	4.31
Evesham	3.78
Gateway	3.75
Fujitsu	3.72
Elonex	3.72
Simply	3.68
Viglen	3.51
Dell	3.50
IBM	3.50
HP	3.42
Compaq	3.27
Packard Bell	3.27
Colossus	3.19
AST	3.10
Tiny	2.93

### WINNER: Satisfaction with reliability

Supplier	Score
Dan	4.53
Dell	4.43
AST	4.31
Simply	4.30
Gateway	4.28
Evesham	4.28
HP	4.27
IBM	4.21
Viglen	4.16
Fujitsu	4.17
Compaq	4.16
Elonex	4.00
Tiny	3.94
Packard Bell	3.93
Colossus	3.86

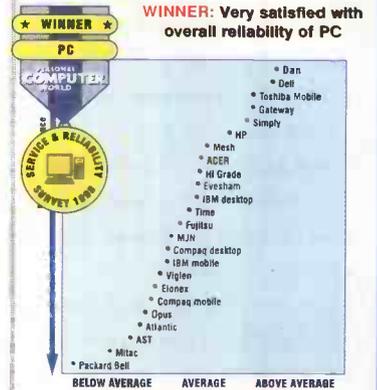
### WINNER: Satisfaction with repairs

Supplier	Score
Dan	4.18
Simply	4.02
Evesham	3.98
Viglen	3.82
Gateway	3.79
Dell	3.78
Elonex	3.78
Fujitsu	3.68
AST	3.62
IBM	3.57
Packard Bell	3.54
HP	3.51
Compaq	3.49
Colossus	3.38
Tiny	3.27

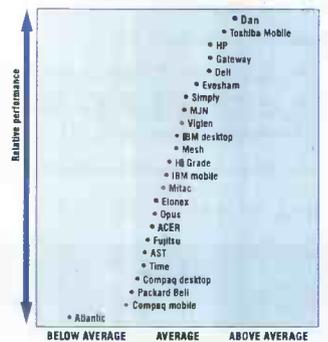
### WINNER: Likelihood of repurchasing from the same vendor

Supplier	Score
Dan	4.33
Dell	4.06
Gateway	3.99
Evesham	3.91
Simply	3.84
HP	3.74
Viglen	3.64
Fujitsu	3.47
Compaq	3.46
IBM	3.43
Elonex	3.42
Tiny	3.40
Packard Bell	3.38
AST	3.37

... and Personal Computer World readers agreed.



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- 14/32 X CD-ROM Drive
- Turtle Beach Montego A3D 64 Voice PCI Sound Card and Altec Lansing ACS 295 Speakers with Subwoofer
- Mini Tower Chassis
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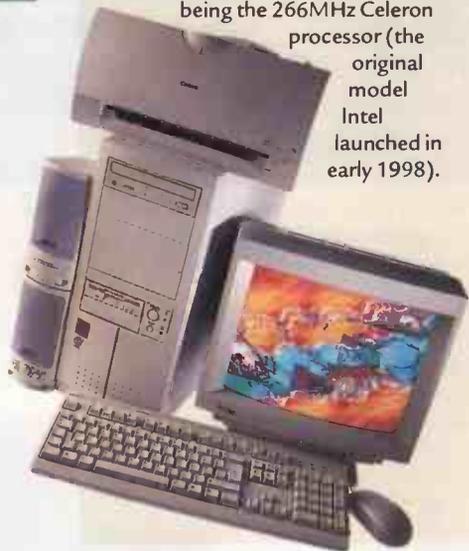
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## Dabs Direct Atlantis Home Value • Budget system

**A**s the Dabs Direct system emerged from its box, we heard a metallic clang inside the ATX case. Opening up the system, there were unidentifiable bits of metal at the bottom of the case which could have damaged the components.

The Atlantis Home Value is not such good value for money as the others in this group, the main reason being the 266MHz Celeron processor (the original Intel launched in early 1998).



With no L2 cache and a slower clock speed than the 300MHz version, this CPU performs poorly in business applications (see its low SYSmark score, p162). Dabs has chosen an Abit 440LX motherboard for the Celeron. These motherboards have a reputation for being stable platforms for over-clocking, and due to the absence of L2 cache, the original Celeron is quite tolerant to this. The Atlantis system has only a tiny 2.1Gb hard drive and this limited storage could easily become filled.

The construction of the Dabs system is not as tidy as the Elonex PC [below]. The wires and IDE cables are a tangled web, preventing easy access to the components, but at least it is well ventilated. And, in addition to the free DIMM slot, there are three 5.25in bays free.

The graphics card is based on the S3 Virge chipset. Although a good performer in 2D applications, it is far less powerful than the ATI Rage Pro and Riva 128 processors. This chipset also has some well-known compatibility problems with a few popular PC components.

The 14in Belinea monitor has a poor refresh rate of 60Hz at 1024x768. Even at lower resolutions, the refresh rate does not rise beyond 75Hz. Image sharpness also suffers at its highest resolution.

### PCW DETAILS

**Price** £699 (£595 ex VAT)

**Contact** Dabs Direct  
0800 558866 [www.dabs.com](http://www.dabs.com)

**Good Points** Free bays for expansion. Easy to over-clock.

**Bad Points** Poor construction. Mediocre performance. Old components.

**Conclusion** A budget system worth consideration if no other can be found.

<b>Build Quality</b>	★★★
<b>Performance</b>	★★
<b>Value for Money</b>	★★
<b>Overall Rating</b>	★★

## Elonex MLX-6333/1 • Budget system

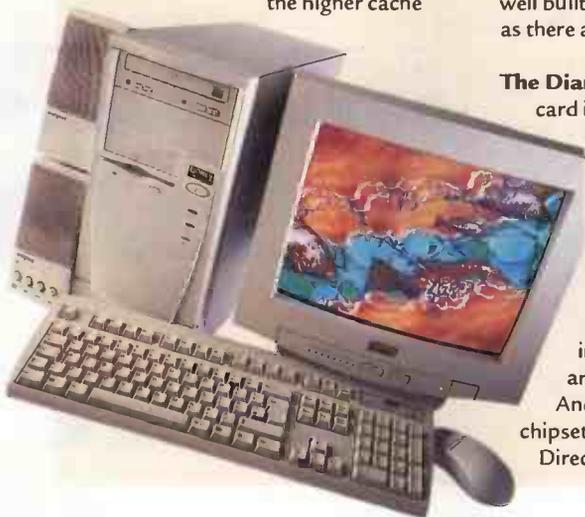
**T**he original Celeron processor failed to make an impression but its successor, with 128Kb cache, has fared better. The Elonex system comes with the 300MHz version of this processor. With its L2 cache running at the same core speed as the processor, the new Celeron is only slightly slower in office applications than a PII of the same speed. Its floating-point engine is identical to that of a PII and, with the higher cache

speed, it is a slightly better choice than PII's clocked at the same speed for running games and multimedia applications. The Celeron comes on an EX motherboard. The EX chipset was specially designed as a low-cost solution to hold the Celeron and has a frontside bus speed of 66MHz. Although adequate for running the Celeron, the PC is not as easily upgradeable as those with BX motherboards. The system is very well built and is easily upgradeable as there are three free slots.

**The Diamond Viper V330** graphics card is based on the 128-bit Riva 128ZX chipset. It has 8Mb of SDRAM and is a good performer in 2D and 3D applications. The V330 supports DirectX and OpenGL APIs.

Unlike the other systems in this group, the MLX has an on-board sound card.

And, the Yamaha YMF 715 chipset fully supports the DirectSound API, so with



high-quality audio output it's a good component to be included with this budget PC.

The 14in Elonex monitor is the best small monitor in this group test. It has excellent colour fidelity and image sharpness, and sustains a high refresh rate of 120Hz at 1024x768.

### PCW DETAILS

**Price** £699 (£595 ex VAT)

**Contact** Elonex 0181 452 4444  
[www.elonex.co.uk](http://www.elonex.co.uk)

**Good Points** High-quality construction. Excellent monitor.

**Bad Points** Motherboard cannot take Pentium II processors.

**Conclusion** A well-built budget PC with all important components.

<b>Build Quality</b>	★★★★
<b>Performance</b>	★★★★
<b>Value for Money</b>	★★★★
<b>Overall Rating</b>	★★★★



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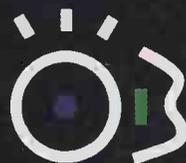
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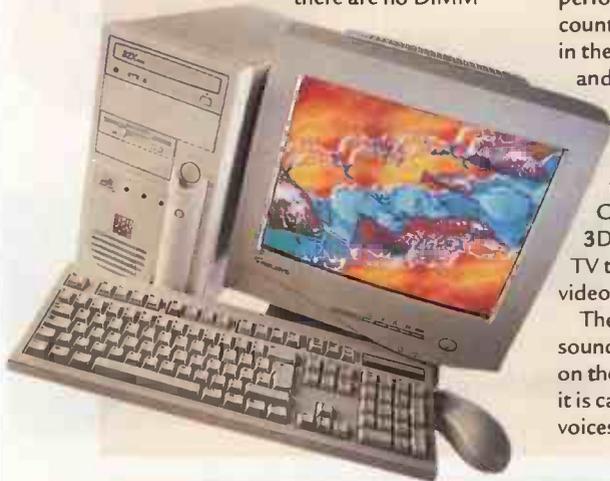
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## Linear Vantage XL

• Budget system

**P**roving the value of Intel's low-cost processor yet again, Linear's Vantage XL system comes with the 300MHz version of the new Celeron. With 128Kb cache on the processor itself, it is an excellent choice for a budget PC. With performance on office applications only slightly less than a Pentium II of the same speed, the new CPU is good value for money. The Vantage system's 64Mb RAM comes in two modules, which is unfortunate as there are no DIMM



slots free for upgrading. The ATX tower case is rather small, making the interior feel crowded. The XL has a 32X CD ROM drive and a 4.3Gb hard drive. The latter is good enough for a low-priced system and is capable of coping with most routine storage needs.

The PCI version of the ATI All-in-Wonder Pro is included in Linear's system. Although the card has 8Mb of RAM, performance trails behind its AGP counterpart. This is partly reflected in the Linear system's low SYSmark and Final Reality scores. The All-in-Wonder Pro uses the 64-bit Rage Pro chipset. With the help of the powerful floating-point unit in the Celeron, the card provides good 3D acceleration. It has a built-in TV tuner and the ability to capture video in AVI format.

The Creative Labs Vibra 16S sound card is not the most vibrant on the market. Being an ISA model, it is capable of handling only 16 voices simultaneously and is

therefore not as good as the next-generation AWE 32 and AWE 64 models.

The 15in Relisys monitor has a 0.28mm dot pitch and supports resolutions as high as 1024x768 at a respectable 75Hz. Its controls are easy to access and image quality is excellent.

### PCW DETAILS

**Price** £699 (£595 ex VAT)  
**Contact** Linear Direct 0181 408 9888 (no URL)  
**Good Points** Excellent monitor.  
**Bad Points** Crowded interior. Mediocre performance. No free DIMM slots.  
**Conclusion** A budget system with no special components.

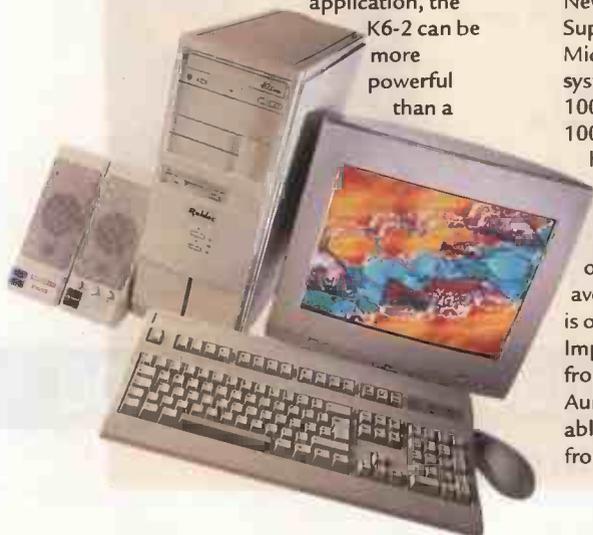
<b>Build Quality</b>	★★★
<b>Performance</b>	★★
<b>Value for Money</b>	★★★
<b>Overall Rating</b>	★★★

## Roldec Puma

• Budget system

**A**dvanced Micro Devices (AMD) processors appear in over 50 percent of budget PCs, so it is not surprising to find a powerful AMD processor at the heart of such a system as this. The Roldec Puma sports the 333MHz version of AMD's new K6-2 processor. The K6-2 has 27 3D Now! instructions on it which help to speed up floating-point calculations.

If properly supported by the application, the K6-2 can be more powerful than a



Pentium II of the same speed, which makes the Puma a good system for running office applications as well as multimedia programs.

The Diamond Viper V330 graphics card, with 4Mb of memory, uses the Riva 128 chipset. It is one of the few cards with optimised drivers to take advantage of the new 3D Now! instructions. Hence, it is a good companion to the AMD processor. New AMD and Cyrix CPUs run on Super Socket 7 motherboards. The Microstar motherboard in the Puma system has a frontside bus speed of 100MHz so Roldec had fitted 100MHz SDRAM, and it is able to handle processors faster than 500MHz. The Roldec Puma has a 4.5Gb hard drive and a claimed 40X CD-ROM. However, our tests show that the actual average speed of the Asus CD-ROM is only around 24X. The Sonic Impact S90 sound card is the latest from Diamond Multimedia. Using Aureal's Vortex chipset, the S90 is able to reproduce surround sound from two speakers.

The 15in ADI monitor, although smaller than the SP and 5GT, has the same 0.28mm dot pitch and high image quality. It has a maximum resolution of 1024x768 at a respectable refresh rate of 75Hz.

### PCW DETAILS

**Price** £699 (£595 ex VAT)  
**Contact** Roldec Systems 01902 456464  
[www.roldec.com](http://www.roldec.com)  
**Good Points** Powerful processor. Good graphics card and sound card.  
**Bad Points** None.  
**Conclusion** A budget system that is good value for money.

<b>Build Quality</b>	★★★★
<b>Performance</b>	★★★
<b>Value for Money</b>	★★★★
<b>Overall Rating</b>	★★★★

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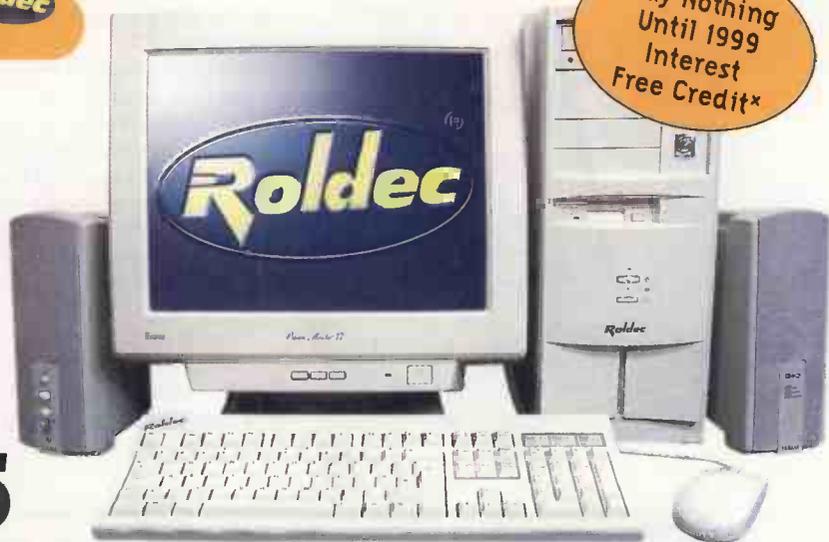
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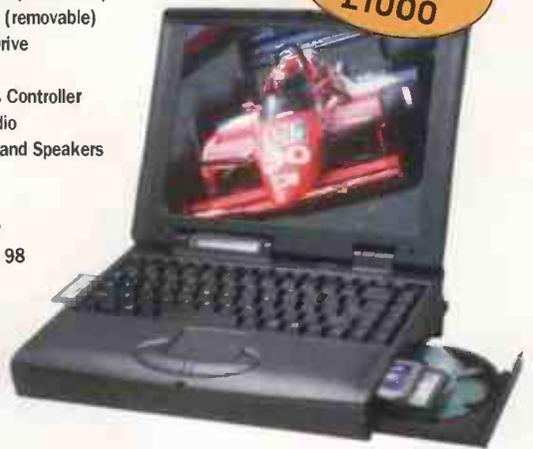


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- 16Bit Sound Card
- 4Mb VRAM Graphics Controller
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Predator 333MHz System, PC Magazine August 1998 Volume 7 Issue 8

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RAM Upgrade 64-128Mb SDRAM	£55	£64.63	Monitor Upgrade 17" - 19"	£180	£211.50	Yamaha YS-MS5 Speakers and subwoofer	£46	£54.05
100MHz RAM Upgrade 64-128Mb SDRAM	£65	£76.38	Monitor Upgrade 19" - 21"	£180	£211.50			
16Bit Combo Network Card	£12	£14.10	Microsoft Natural Ergonomic Keyboard	£46	£54.05			



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## Table of features



MANUFACTURER	ARMARI	CARRERA	GATEWAY	MESH COMPUTERS	ATLANTIC	DAN TECHNOLOGY
MODEL NAME	NBX-350 9S	POWER PRO 2-450	G6-350	ELITE TERMINATOR 350	PRO 98	DAN XPLORA II PLUS
Price (ex VAT)	£1,275	£1,319	£1,189	£1,275	£899	£866
Price (inc VAT)	£1,498	£1,550	£1,397	£1,500	£997	£1,018
Telephone	0181 810 7441	0171 830 0486	0800 552000	0181 208 4700	0990 134725	0181 830 1100
Web address	www.armari.com	www.carrera.co.uk	www.gateway.com/uk	www.meshplc.co.uk	www.atlanticsystems.com	www.dan.co.uk
Processor	Intel Pentium II 350	Intel Pentium II 450	Intel Pentium II 350	AMD K6-2 350	Intel Celeron A 333	Intel Celeron A 333
RAM supplied	128Mb	64Mb	64Mb	128Mb	64Mb	64Mb
RAM type	PC 100 SDRAM	PC 100 SDRAM	PC 100 SDRAM	PC 100 SDRAM	PC100 SDRAM	66MHz SDRAM
DIMMs occ/free	1/2	1/2	1/2	2/1	1/2	1/2
HD size	9.1Gb	10.1Gb	10.2Gb	10Gb	6.4Gb	4.3Gb
HD access time	9.5ms	9ms	10ms	9ms	9ms	12ms
HD interface	Ultra DMA	Ultra DMA	Ultra DMA	Ultra DMA	Ultra DMA	Ultra DMA
Motherboard	Asus P2B	Super Micro P6 SBA	Intel Tolstoy	EPOX Socket 7	Intel SE440BX NA	Asustek P2B
Chipset	Intel 440BX	Intel 440BX	Intel 440BX	ETEQ 82c 66 38	Intel 440BX	Intel 440BX
L2 cache/max	512Kb/512Kb	512Kb/1Mb	512Kb/512Kb	1Mb/1Mb	512Kb/512Kb	128Kb/128Kb
Free 3.5/5.25in bays	2/2	1/2	2/1	2/1	1/2	1/2
PCI/ISA/shared slots	4/2/1	4/3/1	3/1/1	4/2/1	3/1/2	4/3/1
USB/ser/par/PS/2	2/2/1/2	2/1/1/2	2/1/1/2	2/2/1/2	2/2/1/2	2/2/1/2
CD-ROM manuf.	Creative Labs	LG Electronics	Toshiba	Creative Labs	Samsung	Teac
CD-ROM model	PC-DVD-ROM 2240E	DRD-820B DVD-ROM	DVD-ROM	PC-DVD	CD ROM	CDS32E
CD-ROM speed	2X DVD/20X CD	2X DVD/20X CD	2X DVD/24X CD	2X DVD/20X CD	32X	32X
CD-ROM interface	EIDE	EIDE	EIDE	EIDE	Ultra DMA	EIDE
Sound card manuf.	Diamond	Creative Labs	Creative Labs	Creative Labs	Terratec	Creative
Sound card model	Sonic Impact S90	SoundBlaster Live!	SoundBlaster 64	AWE64 Gold	Xlerate PCI A3D	AWE 64 Value
Speakers	Yamaha YST-MS25	Cambridge PC Works	Altec Lansing GCS100	Teac Powermax 1000	Atlantic 160W (PMPO)	Dan Hi-Fi Speakers
Graphics card manuf.	Diamond	Diamond	STB	Hercules	ATI	ATI
Graphics card model	Viper V550	Viper V550	Velocity	Terminator	Xpert98	All-in-Wonder Pro
Graphics interface	AGP	AGP	AGP	AGP	AGP	AGP
Graphics RAM/Max	16Mb/16Mb	16Mb/16Mb	8Mb/8Mb	8Mb/8Mb	4Mb/8Mb	4Mb/8Mb
Monitor	Iiyama S7029T	LG 77T	Gateway rebadge	ADI 5GT	Hansol 700	CTX FST
Monitor size (ins)	17in	17in	17in	17in	17in	15in
Refresh - 800 x 600	120Hz	120Hz	85Hz	120Hz	85Hz	85Hz
Refresh - 1024x768	90Hz	85Hz	85Hz	120Hz	85Hz	85Hz
Refresh - 1280x1024	80Hz	75Hz	60Hz	90Hz	60Hz	60Hz
Refresh - 1600x1200	70Hz	Not supported	Not supported	75Hz	Not supported	Not supported
Modem manuf.	Diamond	Diamond	GUC	Generic 56K	Generic 56K	Pace
Modem model	Supra Express 56K	Supra Express 56K	x	x	x	56K
Modem standard	K56flex	K56flex	V.90	V.90	V.90	K56flex
Other hardware	-	Steering wheel	STB Blackmagic Voodoo2, joystick	Microsoft Sidewinder	Noise cancelled headset microphone	Microphone
Other software	-	-	Gateway games bundle, MS Home Essentials	Games bundle	Lotus SmartSuite, Corel Draw 7, IBM ViaVoice, IBM Antivirus	Quicken 6.0 SE, MS Works, Encarta 98
Standard warranty	1 yr on-site	1 yr RTB	1 yr on-site	1 yr RTB, parts & labour	1 yr collect & rtn with parts & labour	1 yr on-site
Warranty options	Two more years at 8% of PC's cost	1 yr on-site for £39	3 yrs on-site	-	Up to 5 yrs collect & rtn with parts & labour	3 yrs on-site
Technical support	0181 810 7441	0171 830 0486	0800 802000	0181 208 4700	0990 134725	0181 830 1100

# Table of features



MANUFACTURER	MERTEC COMPUTERS	TINY COMPUTERS	DABS DIRECT	ELONEX	LINEAR DIRECT	ROLDEC SYSTEMS
MODEL NAME	XM300-k2	FAMILY BONUS	ATLANTIS HOME VALUE	MLX-6333/1	LINEAR VANTAGE XL	PUMA
Price (ex VAT)	£850	£899	£595	£595	£595	£595
Price (inc VAT)	£999	£1,056	£699	£699	£699	£699
Telephone	01792 473700	0800 821333	0800 558866	0181 452 4444	0181 408 9888	01902 456464
Web address	<a href="http://www.mertec.co.uk">www.mertec.co.uk</a>	<a href="http://www.tiny.com">www.tiny.com</a>	<a href="http://www.dabs.com">www.dabs.com</a>	<a href="http://www.elonex.co.uk">www.elonex.co.uk</a>	None	<a href="http://www.roldec.com">www.roldec.com</a>
Processor	AMD K6-2 300	Intel Celeron A 333	Intel Celeron 266	Intel Celeron A 300	Intel Celeron A 300	AMD K6-2 333
RAM supplied	64Mb	32Mb	32Mb	64Mb	64Mb	64Mb
RAM type	PC100 SDRAM	66MHz SDRAM	66MHz SDRAM	66MHz SDRAM	66MHz SDRAM	PC 100 SDRAM
DIMMs occ/free	1/2	1/2	1/1	1/2	2/0	1/2
HD size	6.4Gb	4.3Gb	2.1Gb	6.4Gb	4.3Gb	4.5Gb
HD access time	9ms	10ms	11ms	9ms	10ms	9ms
HD interface	Ultra DMA	Ultra DMA	Ultra DMA	Ultra DMA	Ultra DMA	Ultra DMA
Motherboard	Soyo SY-SEMA	Microstar MS 6119	Abit AH6	Microstar MS 612B	KTX M59TC	Microstar
Chipset	ETEQ 82c 66 38	Intel 440BX	Intel 440LX	Intel 440EX	ALI M1531 B1	ETEQ 82c 66 38
L2 cache/max	1Mb/1Mb	128Kb/128Kb	None	128Kb/128Kb	512Kb/512Kb	512Kb/512Kb
Free 3.5/5.25in bays	1/2	1/1	1/3	1/1	1/1	2/1
PCI/ISA/shared slots	5/2/1	4/3/1	3/2/0	2/1/1	4/3/0	4/3/1
USB/ser/par/PS/2	2/2/1/1	2/2/1/2	2/2/1/2	2/2/1/1	0/2/1/1	2/2/1/2
CD-ROM manuf.	LG Electronics	Panasonic	Mitsumi	Vuego	Cyberdrive	Asus
CD-ROM model	CRD-8320B	CR-588-B	FX3200	CD 632A	Cyberdrive 32	CD-S400
CD-ROM speed	32X	32X	32X	32X	32X	40X
CD-ROM interface	EIDE	Ultra DMA	EIDE	EIDE	EIDE	EIDE
Sound card manuf.	Creative Labs	Yamaha	Pine	Yamaha	Creative Labs	Diamond
Sound card model	SoundBlaster 128 PCI	XE-32	Schubert 3D Max	YMF 715	Vibra 16S	Sonic Impact S90
Speakers	ADI SP2000	Tiny CPR 50	Logic 3 Maxim 60W	Creative CSW20	Creative Labs	Arowana
Graphics card manuf.	Matrox	ATI	S3	Diamond	ATI	Diamond
Graphics card model	Millennium G200	3D Charger AGP	Virge GX2	Viper V330	All-in-Wonder Pro	Viper V330
Graphics interface	AGP	AGP	AGP	AGP	PCI	AGP
Graphics RAM/Max	8Mb/16Mb	4Mb/4Mb	4Mb/4Mb	8Mb/8Mb	8Mb/8Mb	4Mb/4Mb
Monitor	ADI SP	Tiny rebadge	Belinea 10-40-10	Elonex rebadge	Relisys RE5188	ADI 4P
Monitor size (in)	17in	15in	14in	14in	15in	15in
Refresh - 800x600	85Hz	75Hz	75Hz	120Hz	85Hz	85Hz
Refresh - 1024x768	75Hz	65Hz	60Hz	120Hz	75Hz	75Hz
Refresh - 1280x1024	60Hz	Not supported	Not supported	100Hz	Not supported	Not supported
Refresh - 1600x1200	Not supported	Not supported	Not supported	85Hz	Not supported	Not supported
Modem manuf.	Generic 56K	E-tech	Dabs	E-tech	LT	Generic 56K
Modem model		56K Fax Modem	56K voice	56K Fax Modem	PCI 56K	56K Fax Modem
Modem standard	V.90	K56flex	V.90	K56flex	V.90	V.90
Other hardware	HP Deskjet 670C	Umax 610P	Logic 3 joystick			
		Fuji digital camera, Epson Stylus 300				
Other software	Encarta 98, Scenes, 3D Movie Maker, MS Golf, MS Works 4, Corel Draw 4, Cinemania 97			MS Works	Lotus SmartSuite	Lotus SmartSuite, Screamer2, PC Check
Standard warranty	5 yr RTB, 2 yrs parts & labour, 3 yrs labour	1 yr RTB	1 yr on-site, 4 yrs labour	1 yr RTB	1 yr RTB	5 yrs RTB, 2 yrs pts & lab
Warranty options	1 yr on site	5 yrs on-site, from £79	3 yrs on site	5 yrs RTB	2 more yrs labour only	2 yrs parts only
Technical support	01792 473700	0800 821333	0800 558866	0181 452 6666	0181 408 9888	01902 456464

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- 3D Wavetable Surround Sound Onboard
- 160w Speakers
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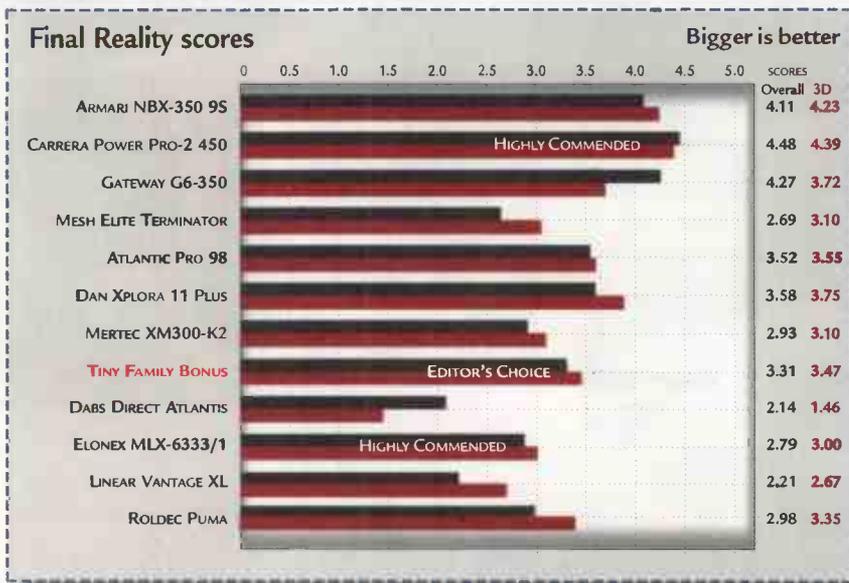


# PCW Labs Report



These results show, more than anything else, the need for a good processor when running 2D office applications. This is most clearly seen in the Armari and Carrera machines. Both have the same graphics card (a Diamond Viper V550 with 16Mb of graphics RAM) but the Armari had a slower processor (PII 350) and more system RAM (128Mb), while the Carrera had a PII 450 and just 64Mb of RAM. However, the processing power of the Carrera won through, suggesting that you do not need 128Mb of RAM to run Word and should instead go for the fastest processor you can. We were also disappointed to see the AMD processors doing so badly in comparison to both the PIIs and the Celerons.

In these tests, a good processor seems to have been secondary to the graphics card and RAM. The Armari and Carrera were very close both in 3D and overall scores. Not surprisingly, they both have the same graphics card with the same amount of graphics RAM. We can see the clear advantage of having 16Mb of graphics RAM compared to the 8Mb included in most of these systems. However, the extra RAM in the Armari seems to have made more of an impression in this test than in the 2D tests, almost catching the Carrera with its faster processor.



■ Overall score ■ 3D score



## How we did the tests

We ran two sets of tests on the machines: **Final Reality** to test graphics capabilities, and **SYSmark 98** to test the speed of the machines when running 2D office applications. The SYSmark test measures the speed of the PC running eight common office applications and the time it takes to perform a variety of tasks in each application. Each test is run three times to ensure consistent results. Performance depends on processor speed, RAM, graphics card and disk I/O. As the tests are based on business software packages, SYSmark scores accurately reflect how the

machine will perform in a real-world situation. Final Reality is a suite of tests designed to gauge the processing power of the 3D accelerator on your graphics card, 2D image processing and AGP. It runs under Windows 95/98 and DirectX 5 and uses a 3D engine developed by Remedy. It supports Direct3D and looks at how the graphics accelerator handles the kind of data it would have to process when you are playing a game. The visual appearance factors are weighted in importance and combined with the overall processing speed to produce an overall mark.

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**Practical IT**

# Editor's Choice

A Christmas **stocking-full** of PCs for all budgets.

**A**part from a couple of exceptions, there are some factors common to all the systems in this group test. The quality of construction of these PCs is excellent. They have high-quality components and most are easily upgradeable. For instance, we were pleasantly surprised to find powerful 333MHz processors inside PCs costing less than £700. And, the vendors have included large hard drives, powerful graphics cards and good sound cards. Many of these systems would keep you happy for a long time to come.

➔ **In the games system category, the Carrera Power Pro 2-450 stands out.** In addition to being a speed monster, the quality of its internal components far outstrips others. The SoundBlaster Live! audio card is a good example. With its four-speaker surround-sound output it is a perfect gamer's card, and its impressive MIDI synthesis and so turns the Carrera PC into a miniature home studio. Similarly, the fast 450MHz Pentium II processor is a good companion to the powerful Diamond Viper V550 graphics card. Carrera has also thoughtfully included a steering wheel with force feedback to cap a well-equipped gaming system.

➔ **In the £1,000 price bracket, the Tiny Family Bonus system caught our eye.** Tiny claims to be the UK's largest PC retailer and this system is representative of the company's dedication to the mainstream consumer market. While not lacking in quality components, as shown by the inclusion of the 333MHz processor and upgradeable motherboard, the Tiny PC has no less than three useful peripherals bundled free with it. The Umax 610P scanner is one of the best in its price range and came top in our scanners group test in the September '98 issue. The Epson Stylus Color 300 printer, although not that fast, produces decent-quality colour

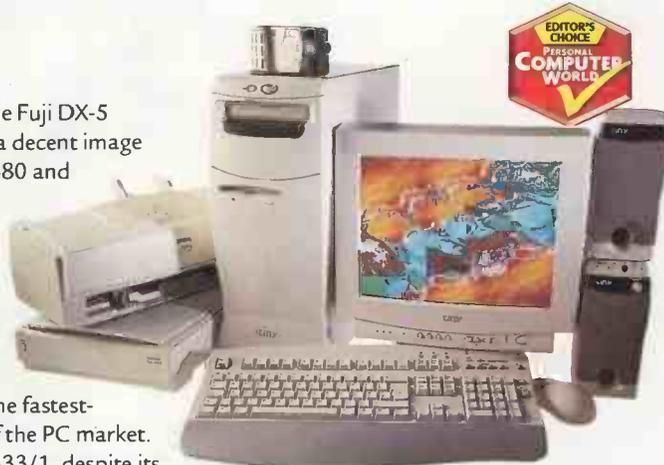
*The quality of construction of these PCs is excellent*

images and text. The Fuji DX-5 digital camera has a decent image resolution of 640x480 and comes with a 4Mb flash memory cartridge.

➔ **The sub £700 budget PC** segment is one of the fastest-growing sections of the PC market. The Elonex MLX-6333/1, despite its rock-bottom price, does not skimp on any necessary component. With its 300MHz processor and a large 6.4Gb hard drive, this system's performance is actually better than that of many others costing far more.

**Christmas** is a time when buyers look for bargains. In the realm of PC sales, there is no better bargain than the **Tiny Family Bonus** system. Its build quality is as good as the best in this group test, and with three high-quality bundled peripherals, the Family Bonus system is excellent value for money. These factors, along with the Tiny's high upgradeability, make it a fitting choice for our **Editor's Choice** award. The Tiny PC, more than any other system, would be the ideal Christmas gift.

**The Carrera and Elonex systems** also deserve an honourable mention. While the former is a speed demon and a gamer's dream, the latter delivers high performance at an enticing price. For these reasons, the **Carrera Power Pro-2 450** and the **Elonex MLX-6333/1** are worthy winners of our Highly Commended awards.



▲ **TOP TINY FAMILY BONUS**  
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**BOTTOM ELONEX MLX-6333/1**

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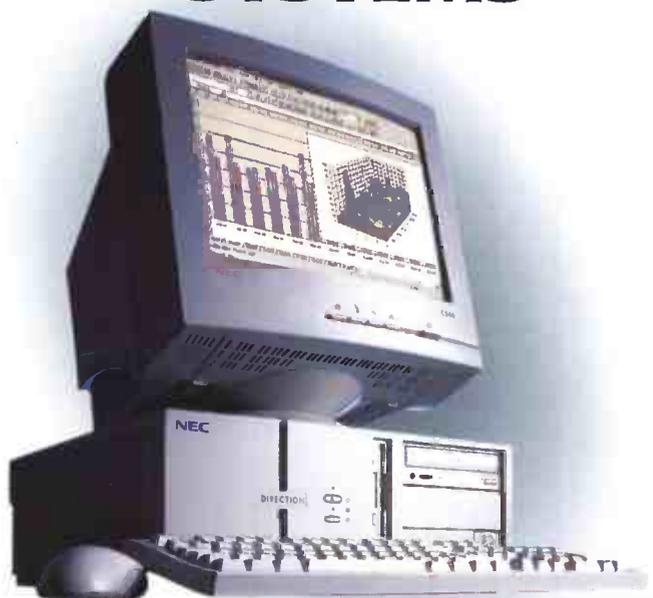
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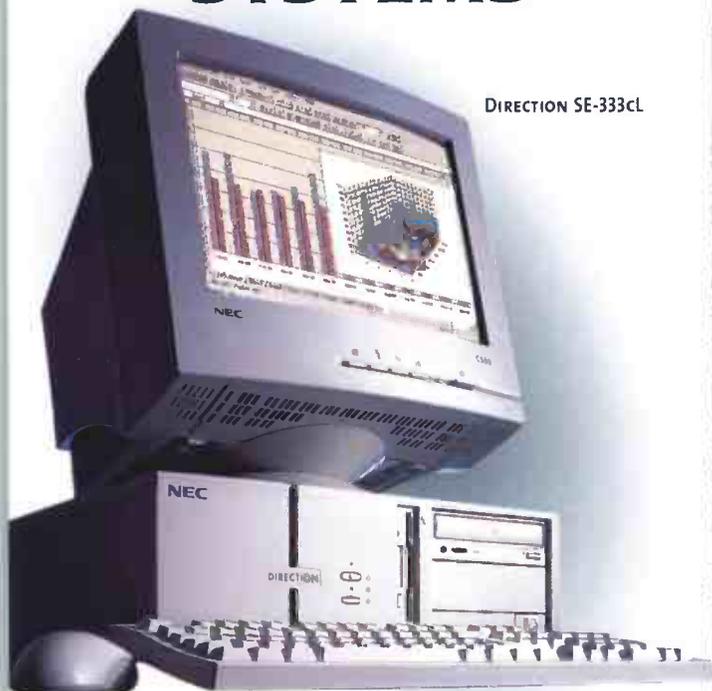
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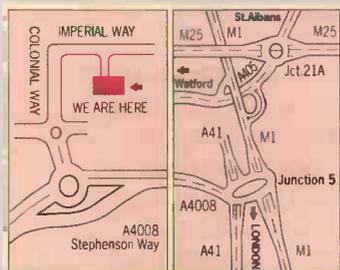
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THE GOVERNMENT MAY BE OPTING TO **WAIT AND SEE** HOW THE EURO AFFECTS US, BUT AS JAMES TAYLOR POINTS OUT, BUSINESS CANNOT ALLOW ITSELF THAT LUXURY.

# European horizon

**W**hether you welcome it or wish it would just go away, the euro looks like it's here to stay. Its official debut is 1st January 1999, when it becomes the currency of the participating Member States of the European Monetary Union (EMU). Its exchange rate will be determined by the European Council with the participation of the

During a transitional period running from 1st January 1999 to 31st December 2001, the euro will also be divided into "temporary national currency units" – deutschmarks, francs, lire and so on, according to their conversion rates. On 31st December 2001, the participating national currencies will cease to exist and the euro will be used throughout the EMU.

The EMU is made up of those European Union (EU) member states that meet the complicated convergence criteria for changing to the single currency and are likely to include Austria, Belgium, Finland, France, Germany, Ireland, Italy, Luxembourg, the Netherlands, Portugal and Spain. Those countries will therefore each introduce a dual-currency system on 1st January 1999, phasing out the use of their local currency over the subsequent three years.

The UK is not among those adopting the euro, at least for the time being, and although the present Government is in favour of joining, it has promised a national referendum first, the outcome of which is still not certain. Denmark and Sweden have also decided not to join immediately. Greece did not meet the economic criteria (anyway, in Greek, *euros* means "urine"). In the UK, then, 1st January 1999 merely sees the introduction of a new foreign currency.

#### ■ How will it affect your small business?

Well, if you currently do no overseas business, you will not be affected at all. If you handle a relatively small number of transactions in participating members' currencies and find yourself being asked to deal in euros instead, you can convert each transaction individually. Making a payment will typically mean completing a standard bank form specifying the euro as the paying currency. The debit will appear on your (present) sterling account as usual.



European System of Central Banks (ESCB) and the European Commission. Interest rates will be set by the European Central Bank (ECB).

**Like the pound** or dollar, the euro is not normally capitalised. Its symbol is a stylised letter "e" (illustrated, above) used in front of amounts, just like £ or \$ signs. One euro will be divided into one hundred cents. The Government seems not to have made up its mind whether its plural is *euros*, like pounds, or *euro*, like sterling, because it's using both.

# THE ART OF EUROGLYPHICS

The problem with a brand-new, made-up currency is that its symbol also has to be brand-new and made-up. Consequently, it does not appear in any previous computer font or on any keyboard.

**Windows 98, NT 5.0 and CE** (later versions) users will find the euro currency symbol supported in Times New Roman, Arial and Courier New. **Windows 95 or NT 4.0** users can download a fix from Microsoft's web page. All of these allocate the euro symbol to ALT Gr+4 in the UK.

Alternatively, insert the euro symbol via Insert/Symbol from the menu, looking under Font "normal text" and subset "currency symbols".

**Office 95 and Office 97** can both recognise the euro character. To print it, though, Office 95 needs either updated printer fonts (talk to your printer manufacturer) or to be set to print fonts as graphics by changing the Printer Options box, which considerably slows down printing. In Office 97, Word 97 can handle the euro symbol automatically. Excel 97 needs its registry settings to be changed, while PowerPoint, Access and Outlook behave

like Office 95. Microsoft has no plans to provide updates for Windows 3.x, Windows for Workgroups 3.x and prior versions, Windows CE before version 2.1, nor for the MS-DOS operating system. If you're using those, you need to look elsewhere.

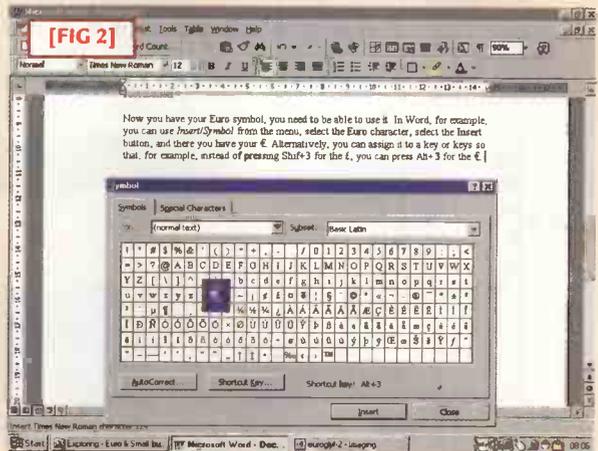
## Euro solution

One company offering a solution is EuroType, whose EuroGlyph software will add the euro symbol to any TrueType font. EuroGlyph has to add the euro symbol separately to every font you want to modify [Fig 1] including styles like bold and italic. Having chosen your font, the software selects a default character to be replaced by the euro, showing it in the top right-hand box.

Or, you can pick your own if you prefer. You might, for instance, dedicate a font you don't normally use and replace its pound sign. You have the

choice of the official "standard" character, or a scaleable option which adjusts the character to match the font in use and ensures correct tabulation.

This is important where figures appear in columns and tables and accurate vertical alignment is essential. It is easiest to let the software add the euro symbol to the selected font and install it automatically,



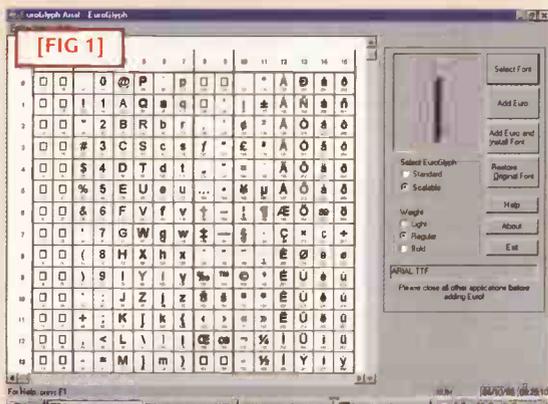
ready for use. After rebooting your computer, you can see the substitution.

Now you have your euro symbol, you want to be able to use it. In Word97 you can use Insert/Symbol from the menu, select the euro character, select the Insert button, and there you have it. Alternatively, you can assign it to a key, or keys, so that instead of pressing SHIFT+3 for the £, say, you can press ALT+3 for the symbol [Fig 2]. Finally, you can enter it by typing in its code, in this case holding down ALT while typing 124 on the numeric keypad, which then also gives you the euro.

• **Neither the Microsoft updates nor the EuroGlyph changes are transportable.** Trying to view or print any resultant files on another machine won't work unless it has the same font changes installed.

## PCW CONTACTS

EuroGlyph costs £54.95 (inc P&P). Available direct from EuroType 01442 824130 [www.eurotype.com](http://www.eurotype.com) Microsoft update freely downloadable from [www.microsoft.com/technet/topics/euro](http://www.microsoft.com/technet/topics/euro)



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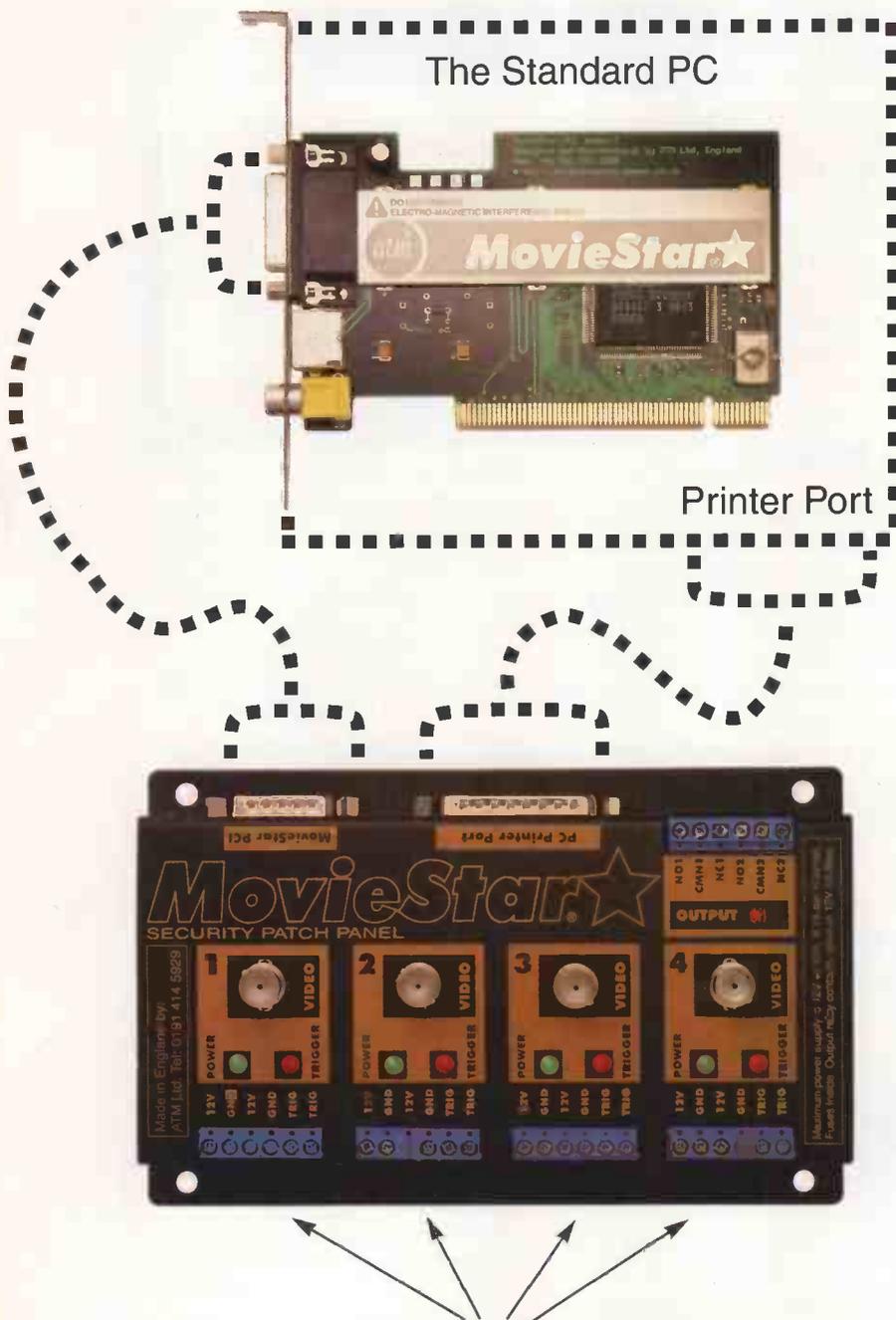
If you make or receive a large number of euro payments, you can open a euro account in addition to your sterling account. An incidental benefit is that you can then combine all the balances of your "transitional" currency accounts to simplify account reconciliation. Due to rounding effects, converting national currency into the euro, then later back into national currency (or vice-versa), may in some cases result

in a difference between the initial and final amounts. It is better to leave conversions, during the transitional period, to your bank. Some UK-based firms, including Philips, IBM, Siemens and the Rover Group, have announced that they will start to use the euro for invoices and payments.

If, or perhaps when, the UK commits itself to monetary union, all businesses, whatever their size, will have to change their budgetary, accounting and fiscal systems, including salaries, prices, social security contributions, VAT payments, charges, benefits... the list goes on.

# THIEF CAPTURED BY PC

## WORLD FIRST



Connect standard alarm sensors to these screw terminals in order to trigger AVI movie recording to hard disc. Devices such as PIR (Passive Infra Red) detectors, invisible beams, pressure mats and door & window contacts are suitable.

We think the MovieStar Security Patch Panel is the only product available that allows you to trigger AVI movie capturing using standard alarm sensors.

The system gives you four camera channels each with a sensor input, for PIR's, pressure mats, invisible beams or door contacts. Upon each trigger event the software switches the MovieStar card to the correct camera input and starts recording an AVI to disk for a pre-determined length of time. This AVI file is time and date stamped, so you know who was doing what and when.

And unlike timelapse VCR's you will get a full resolution digital PAL image of 768x576 pixels without degradation and a response time of 0.1 of a second.

The Security Patch Panel has a programmable output relay so that any of the channel triggers can cause the output to be activated. When wired to another alarm panel this can raise the alarm as a simple alarm sensor would. Alternatively it can be linked to a phone dialler to allow remote site monitoring.

There is a full manual covering PCI card installation, Security Patch Panel wiring diagrams and a users guide for the security software.

Although designed specifically for a security role the MovieStar SPP pack can be used for a wide range of applications including industrial quality control, wildlife observation (using the new low cost, low-light black and white cameras) and of course recording-on-demand using a simple switch.

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**Model**  
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### ■ Accounting and the euro

Implementing the systems necessary for both the transitional, dual-currency phase and for the complete changeover to the new currency, will need a considerable amount of time. The principal problem is technical: most UK-specific accounting and management software is currently unable to handle full euro accounting as laid down by the European Commission.

The EC's regulations cover two major considerations: how conversion between currencies will be calculated, and how rounding should be handled. Both will have a significant impact on your accounting software.

Participating currencies can only be exchanged using strict rules, known as triangulation, enforced by publishing conversion rates for the euro against EMU countries' national rates. Thus, there will be no exchange rate for the franc against the deutschmark. There will be a conversion from the franc to the euro and from the euro to the deutschmark. After the final conversion from the euro to the EMU national currency, you can round to two decimal places (0.00499 down to 0.00, or 0.005 up to 0.01).

**The conversion rules** are quite specific, including expressing the euro in terms of each of the national currencies to six significant figures (counted from the left and starting with the first non-zero figure) and neither rounding nor truncating during conversions. You cannot use inverse rates derived from the conversion rates.

The conversion and rounding rules do not specifically describe the conversion from a participating national currency to a third currency (one that is not taking part in EMU). However, it seems to be accepted that they will follow the same triangulation rules, so that to exchange the pound against the franc you would first convert pounds to euros, and then convert euros to francs.

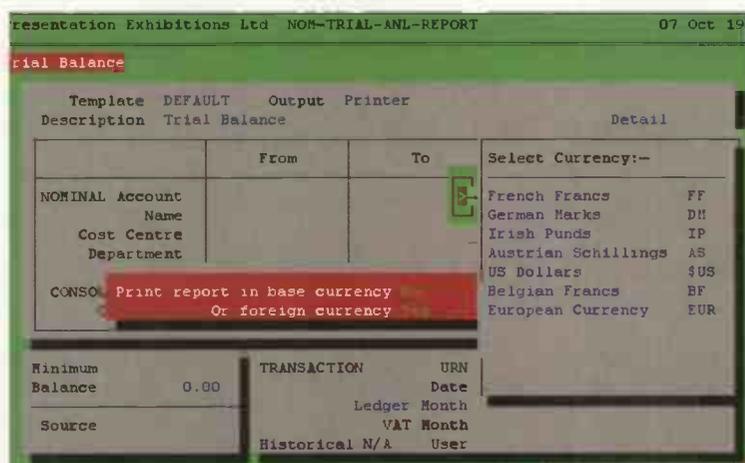
Clearly, during the transitional stage, your accounting software must be multi-currency and able to operate in at least sterling and euro simultaneously. You can then use euros for particular order, invoice and payment transactions and let your software process them entirely in euros at the same time as other transactions are being handled, in a separate account, in sterling. Of course, you would have to convert from one to the other for reports such as profit and loss, and balances. If the UK goes into full monetary union, or you do a lot of business with EMU countries, your software must be able to handle full triangulation.

**If you think** you are going to get caught up in euro transactions, you need to change your account currency at an appropriate year-end. Once the old year has been closed, all the balances

to be carried forward will just need to be converted, paying special attention to items still open. Long-term budgets and forecasts are probably best done from scratch, in euros. All your previous years' results will also need to be converted if you use them for comparison. That just leaves you to decide when to convert to using euros internally. For most small businesses, it's unlikely to be before the UK joins, if ever. That will have the advantage of letting others wrestle with clarifying the regulations and sorting the bugs out of the software. It will also not distract you from any Year 2000 problems that might be lurking.

### ■ Soft solutions

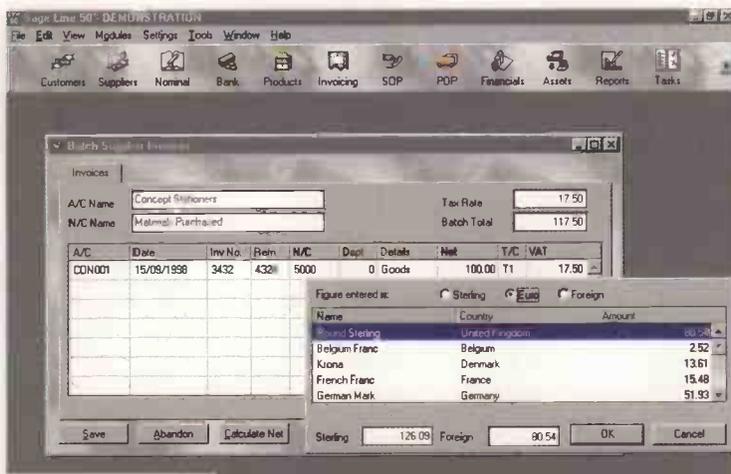
It is unlikely that personal or very small business software, such as the likes of Quicken, Money or Solo, will ever be able to handle full triangulation conversions although you will be able to use those for the single euro currency if the UK joins the EMU, of course. Some publishers of accounting software for small- to medium-sized businesses will not have their software ready for full triangulation by 1st January 1999 either, although those which are already multi-currency will be able to manage euro accounts, leaving you to convert manually.



▲ **Fig 3** SAGE'S LINE 100 RANGE CAN PRODUCE REPORTS IN EITHER YOUR BASE CURRENCY OR A CHOSEN FOREIGN CURRENCY

Looking at individual software publishers shows varying states of readiness, although all the big names are planning new versions for 1st January 1999 or before. No firm has final prices yet, so perhaps they're waiting to price in euros?

➔ **Sage** already has a multi-currency application (formerly called Sovereign) in its **Line 100** product [Fig 3] with extra euro-compatible features promised. These include storing all currency exchange rates to six significant figures, converting between the euro and EMU member states' currencies, calculated using triangulation rules, applying exchange rate and rounding differences according to EU legislation, and producing financial statements in euros. And, payments in one currency will be matched



▲ FIG 4 SAGE'S LINE 50 RANGE HAS A EURO CALCULATOR

against invoices in another. Also, existing individual customer and supplier accounts will be converted to euro-based accounts and the program can handle euro exchange gains and losses. Sage's view is that currency conversions will follow triangulation rules when either one or both of the currencies involved are euro zone currencies. Exchange loss and gain is posted to the nominal ledger. Rounding discrepancies are accounted for separately from exchange loss or gain.

Although Sage's Line 50 for Windows version 5 (formerly Sterling) is not a multi-currency product, it will include a euro calculator [Fig 4] which will allow you to convert values between your base currency and the euro. You can then print euro totals on a sales invoice which has been entered in your base currency, or convert a euro payment to your base currency, before allocation against the relevant invoice.

## THE ACCOUNTANTS' VIEWPOINT

Voice of the industry, BASDA (Business and Accounting Software Developers Association), representing the UK's leading accounting software developers, has produced its own "White Paper" on the implications of the changeover to the euro for UK businesses. Included is an update of the effect on banking, by the British Bankers Association;

implications for accounting, by the Institute of Chartered Accountants in England and Wales; and how EMU will impact on an organisation, by IBM. The "White Paper" also includes the latest version (2.2) of the *BASDA EMU Specification and Accreditation Standard*. The "White Paper" costs £50. BASDA is also lobbying HM

Customs & Excise for a change in the rules which insist that while UK companies can account in euros and submit their returns in euros to Companies House, the UK VAT authorities require all of their information to be in sterling. BASDA has also developed triangulation test data to help users test the compliance of their financial and accounting software systems.

Access Accounting also has existing multi-currency products that can be used to accommodate some of the demands of accounting for the euro. It includes the ability to handle multiple exchange rates per currency, clear foreign currency invoices with a payment in a different currency, and allocate payments against invoices in a foreign currency. Extra functionality planned includes reporting in euros in the three main ledgers, historical and comparison reporting in euros, and the ability to retain and revert to your local trading currencies while trading and reporting in euros, just in case European Monetary Union does not hold.

MAP Pastel is designing a euro version of its **Pastel Partner** software, which is already multi-currency, with some EU processing in terms of EU sales and purchase reports, as well as automatically exempting EU sales and purchases from tax. To this will be added the ability to include tax on foreign currency transactions. But not all EU members subscribe to EMU. Pastel's philosophy is to shield users from extraneous features where possible and it will be necessary to "opt in" to Pastel's EU processing menu — you are not obliged to enable multi-currency processing. If your customers, suppliers, bank accounts, and your own company, trade only in euros, multi-currency processing is unnecessary.

TAS is planning new euro-compliant products, including an entry-level system with a conversion calculator. Also included is a reissue of **TAS Books for Windows**, with multi-currency and triangulation capability, and **TAS Business Controller**. Later, we can expect to see a much-extended version which is likely to encompass dual-base currency.

*This article reflects the facts as well as the conjecture which was current at the time of writing (mid-October, 1998). Such are the current uncertainties surrounding the global economy that the situation may have changed by the date of publication.*

## PCW CONTACTS

Access Accounting 01206 322575  
[www.access-accounts.com](http://www.access-accounts.com)

Association for the Monetary Union of Europe  
+ 33 1 44 70 60 30 (Paris)  
[amue.lf.net/amueindx.htm](http://amue.lf.net/amueindx.htm)

BASDA 0171 878 1750 [europa.eu.int/euro/](http://europa.eu.int/euro/)  
HM Treasury general information  
0171 270 4558 [www.hm-treasury.gov.uk](http://www.hm-treasury.gov.uk)

EMU — *Practical Information for Business and The Pros and Cons of EMU* (HM Treasury booklets published July 1997). Contact the Public Enquiries Unit of HM Treasury 0171 270 4860.

Exchequer Software 01202 298008  
[www.exchequer.com](http://www.exchequer.com)

MAP Pastel 0161 630 7000 [www.pastel.co.uk](http://www.pastel.co.uk)  
Sage 0191 255 3000 [www.sage.com](http://www.sage.com)

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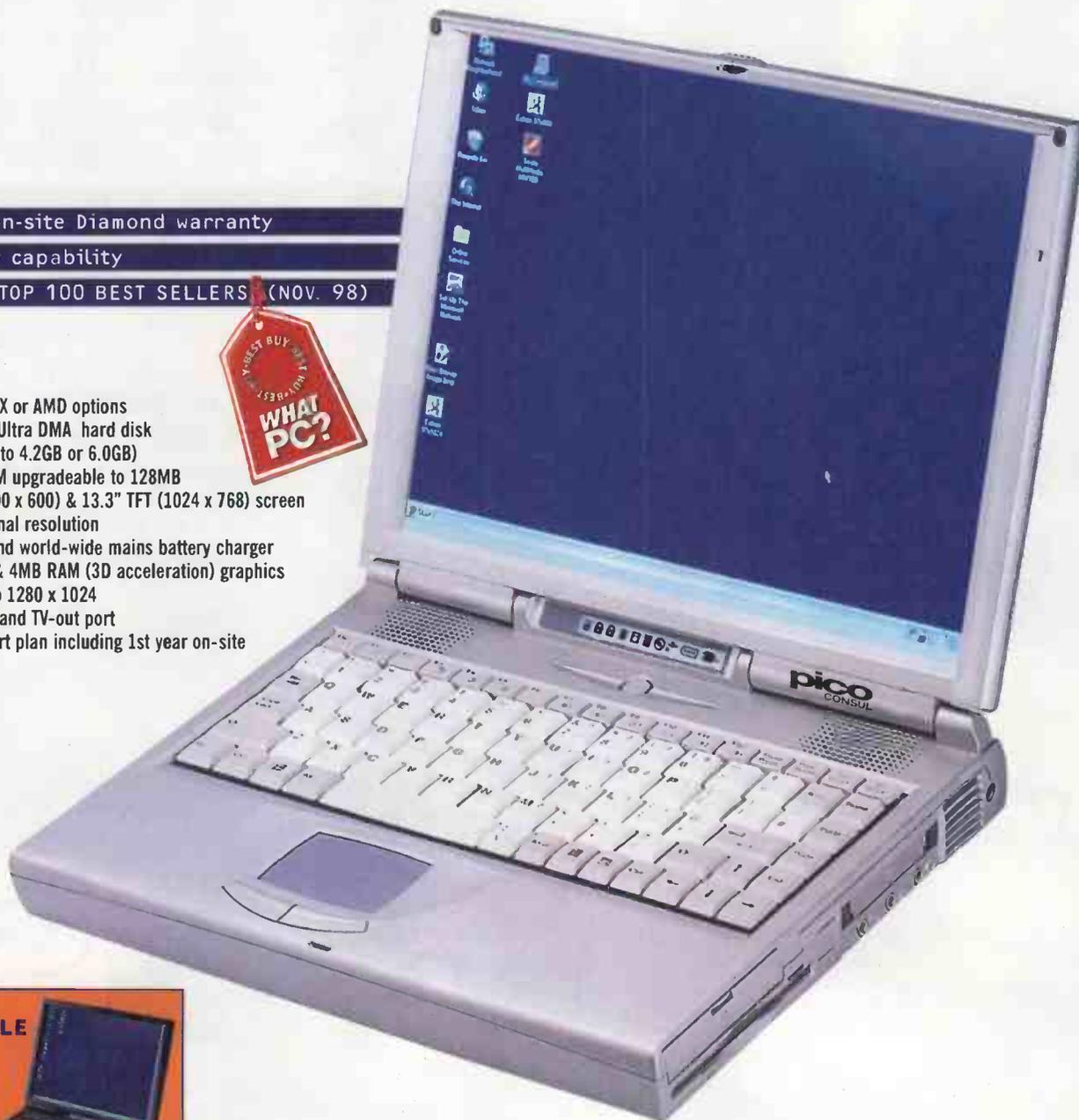


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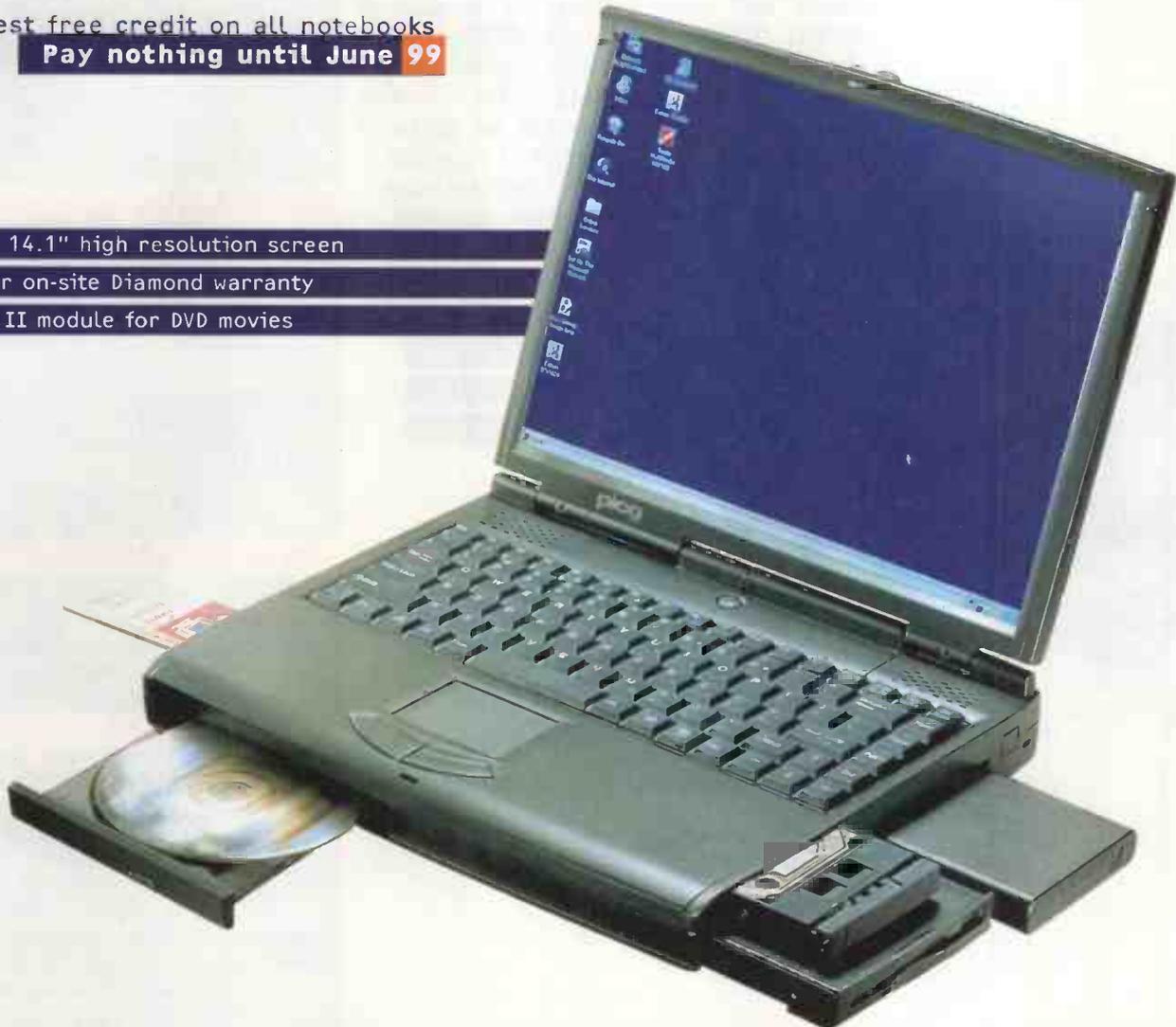
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66-PII-233	Intel PII 233	£1140	£1210
66-PII-266	Intel PII 266	£1240	£1310
66-PII-300	Intel PII 300	£1340	£1410
665-PII-266M	Intel PII 266	£1599	£1669
665-PII-300M	Intel PII 300	£1699	£1769
665-PII-333M	Intel PII 333	£1799	£1869

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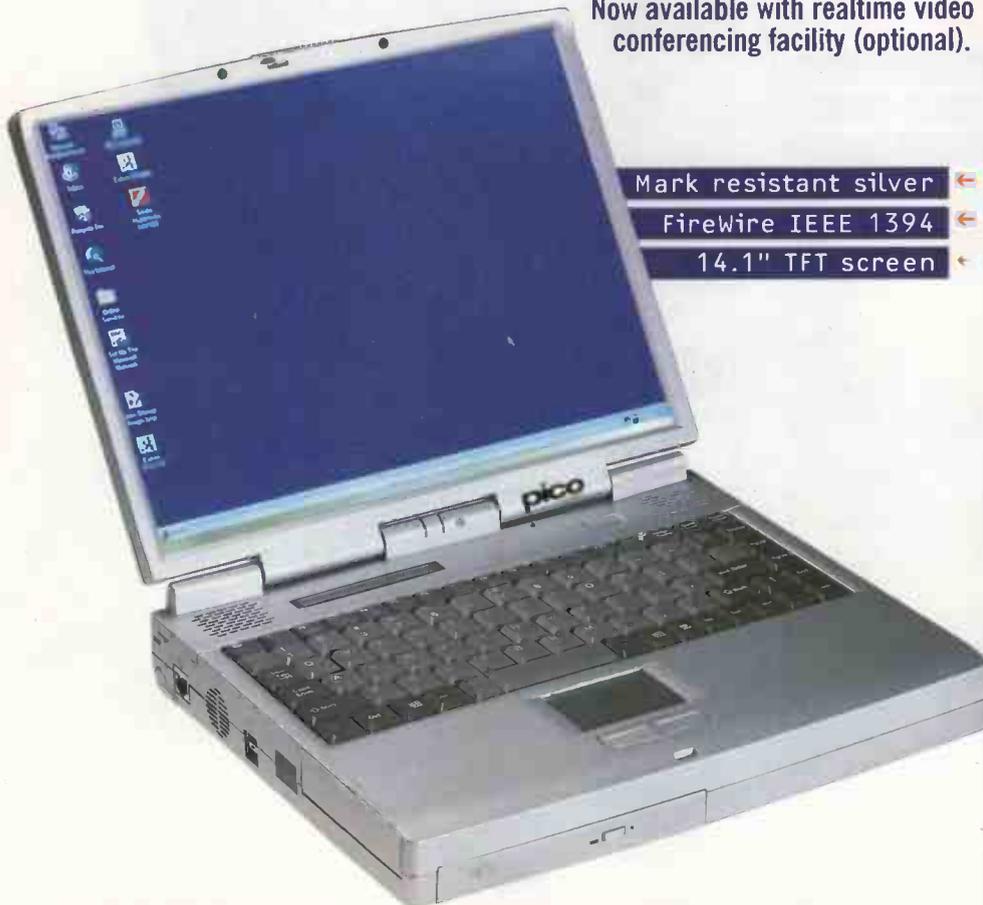
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9800 PII 300	Intel PII 300	£1449	£1519

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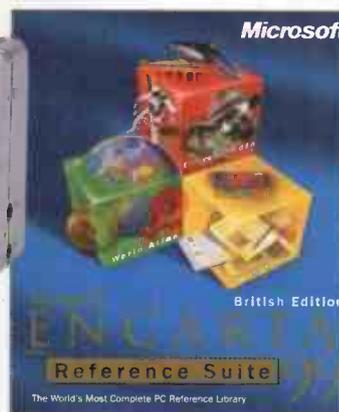
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# PCW Christmas Quiz

As the long winter nights draw in, there's nothing better than a fun festive quiz to test the old grey matter. Of course, being a computer magazine we're going to have to ask you a load of technology questions instead, but you get the general idea.

In the tradition of all good competitions, we've got a great incentive for trawling through our festive 50 brainteasers. Our first prize is nothing less than a superb Canon Powershot A5 digital camera worth £500, while 20 lucky runners-up will each receive a copy of Microsoft Encarta 1999 Reference Suite, price £99 apiece. To stand a chance of winning, all you need to do is answer as many of the following 50 questions as possible.

The entry with the most correct answers wins the camera, and the next 20 get the reference suites. Good luck!



## HOW TO ENTER

Please mark your answers directly on these pages or a photocopy, and, remembering to include your name and address, pop them in an envelope and then send them to:

Gordon "Santa" Laing  
PCW Christmas Quiz  
VNU House  
32-34 Broadwick Street  
London W1A 2HG  
*Last entry day: 4th January 1999*

## RULES OF ENTRY

This competition is open to readers of PCW, except for employees (and their families) of VNU Business Publications. The Editor is the sole judge of the quiz and his decision is final. No cash alternative is available in lieu of competition prizes.

## Section 1: Famous faces

You know the name and have heard the gossip, but what do they actually look like? Identify the following five people from their photo and an industry clue. Choose your answers from the list of names below:



1. This man has been called (notably by his own publicists) the Bill Gates of the East.



2. This co-founder of a US giant says paranoia is the basis of his business philosophy.



3. This man popularised the term "pervasive computing" — but not enough to save his job, in 1995.



4. This Englishman should profit from the trend to mobile devices.



5. F...F...F...F... er, find the man who recently pulled off one the biggest ever company takeovers.

Choose from the following names:

**A:** Yoshinori Kobe of Matsushita **B:** Andy Grove of Intel **C:** The late Gary Kildall of Digital Research **D:** Hermann Hauser of Acorn and Advanced RISC Machines **E:** Tsutomu Kanai of Hitachi **F:** Lee Kun-Hee of Samsung **G:** Robin Saxby of Advanced RISC Machines **H:** Eckhard Pfeiffer of Compaq **I:** Stan Shih of Acer **J:** Ray Noorda of Novell **K:** Michael Cowpland of Corel **L:** Bob Frankenberg of Novell **M:** David Potter of Psion UK **N:** Larry Ellison of Oracle **O:** Jim Clarke of Netscape.

## Section 2: True or false?

It's very simple: tell us which of the following statements are true, and which are false.

- |   |                          |                          |
|---|--------------------------|--------------------------|
| 6. There is a vacuum in a hard disk.  | True                     | False                    |
| 7. The anode in a CRT monitor runs at 5000V.  | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Each USB device requires 100mA of power to be configured.                                | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. L2 cache speed on a Celeron is faster than that on a PIII of an equivalent clock rating. | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. To be sold legally in this country, all PCs have to pass CE testing.                    | <input type="checkbox"/> | <input type="checkbox"/> |

**Section 3: History**

In the first of our historic sections, rack your brains or search the library for clues on the following:

11. What, or rather who, is the link between a reputedly incestuous Romantic poet and a military programming language?

\_\_\_\_\_



Science and Society Picture Library

12. William Gibson named a novel after this mechanical precursor to the computer (left). What was the latter called?

\_\_\_\_\_

13. In which year was the IBM PC launched? \_\_\_\_\_

14. Microsoft's new PC operating system was remarkably similar to the then market-leading OS, written by Digital Research. What was this called?

\_\_\_\_\_

15. Attending this year's 50th anniversary of the first stored-program computer, built at Manchester University, was the first modern programmer. What is his name?

\_\_\_\_\_

**Section 4: Game on!**

This is a quick quiz for all you game-gurus out there. Below are the names and pictures of five characters that have starred in top PC games this year. All you have to do is match them up with the game titles listed:



16. Red Lotus



17. Gex



18. Edmond Lucy Fentile



19. Max Damage



20. Adam Crowley

Choose from the following games:

**A:** Starship Titanic **B:** Deathtrap Dungeon **C:** Nightmare Creatures **D:** Enter the Gecko **E:** Carmageddon II

**Section 5: Industry news**

It's not just politics that has a penchant for surprise movers and shakers, scandal and dirty deeds. All that can be had in the IT industry too! So we thought it would be fun, as part of this quiz, to test your knowledge on industry news. Here are five questions based on events in the IT sector over the last year:

21. In the Microsoft anti-trust trial, David Boies, aka the "antitrust wizard", has been brought in as special prosecutor. What other famous anti-trust trial did Boies take part in? We want to know which company he defended and how long the trial lasted for. And one more little teaser on the Microsoft front: what's the link between the Microsoft trial and President Clinton?

\_\_\_\_\_

22. Which networking company has recently been scooped up by giant chipmaker Intel, and what is that networking company's link to Scotland?

\_\_\_\_\_

23. The "new" millennium problem is having to cope with a new phone numbering system. What is the exact date the numbering system is due to come in to effect?

\_\_\_\_\_

24. Where can you fill your trolley with PCs and an ISP connection?

\_\_\_\_\_

25. We all know about the new iMac from Apple. But what does the "i" in iMac stand for? Is it:

a) Intranet, b) Internet, c) Innovative, or d) Incomplete? Sorry, I mean e) Ideal? \_\_\_\_\_



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Video

**Section 6: Acronyms**

We all use acronyms every day, but how many of us know what they really stand for?

26. ACPI \_\_\_\_\_ 27. ATAPI \_\_\_\_\_  
 28. CMOS \_\_\_\_\_ 29. LVDS \_\_\_\_\_  
 30. RADSL \_\_\_\_\_

**Section 7: Name that font**

There's more to fonts than just Arial and Times New Roman. Try to name the following examples to see if you're our type.

Take your pick from the list below:

31. Merry Christmas  32. *Merry Christmas*  33. Merry Christmas   
 34. MERRY CHRISTMAS  35. Merry Christmas

Choose from the following fonts:

A: Palatino B: Courier C: Zapf Chancery D: Meta E: Futura F: Dolce Vita G: Mekanik H: Garamond I: Elli J: Helvetica

**Section 8: Who did what, and when?**

Everyone's heard of Bill Gates and Larry Ellison, but how much PC history do you have at your fingertips?

36. Who missed an important meeting with IBM in 1980 and changed the course of William Gates's life? \_\_\_\_\_  
 37. Who invented the mouse, and which Palo Alto research facility did they go on to work for? \_\_\_\_\_

38.  + ? = Java. Name the person and Java's previous incarnation. \_\_\_\_\_

39. Who invented the Apple II with this man?  \_\_\_\_\_

40. Who is the father of the original 1979 "killer app" and what was it called? \_\_\_\_\_

**Section 9: Bandwidths**

One for the true winter anorak wearers. If you thought the acronyms were too easy, try telling us what the bandwidth or throughputs of the following standards are — and make sure you get your units right!

41. USB \_\_\_\_\_ 42. Bluetooth \_\_\_\_\_ 43. SCSI U2W \_\_\_\_\_  
 44. Dolby Digital 5.1 on DVD or LD \_\_\_\_\_ 45. ISDN D channel \_\_\_\_\_

**Section 10: Robots and computers in the movies**

Finally, no computer quiz would be complete without a few questions on famous computers and robots on the small and silver screens.

46. What was wrong with the R2 unit whose demise allowed R2-D2 to join C-3PO and work for Luke Skywalker's uncle?  
 \_\_\_\_\_  
 47. John Connor uses a handheld computer to steal cash from ATMs in Terminator 2. What is the make and model?  
 \_\_\_\_\_  
 48. (i) What does the indestructible car KITT's name stand for? (ii) Name his prototype.  
 \_\_\_\_\_  
 49. What is the name of Commander Data's brother?  
 \_\_\_\_\_  
 50. Who were the makers of Gromit's Techno Trousers?  
 \_\_\_\_\_



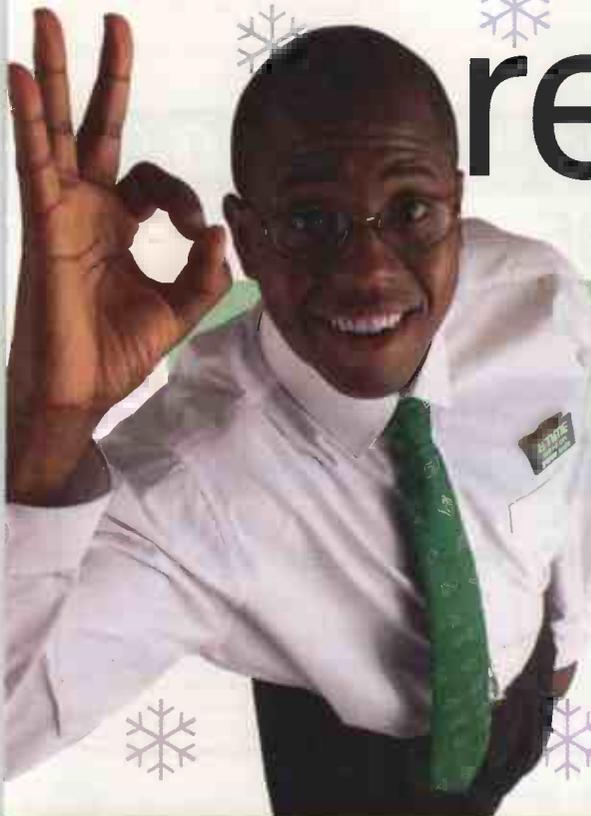


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- Stereo premium speaker system
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- Creative Labs SoundBlast 64v 3D PCI wavetable stereo sound
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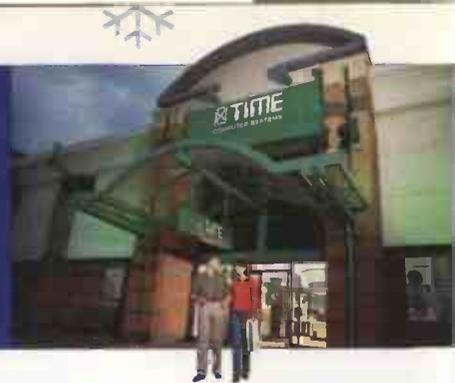
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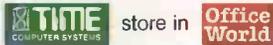
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 Tel: 01823 443003

**SOUTH & SOUTH EAST**

**Aylesbury**  
 Vale Retail Park, Vale Park Drive  
 Tel: 01296 421 116

**Banbury**  
 Southam Road  
 Tel: 01295 263 588

**Basildon**  
 Great Oaks  
 Tel: 01268 273 733

**Basingstoke**  
 Brighton Hill Retail Park  
 01256 331 324

**Bedford**  
 The Interchange Retail Park, Amphill Road  
 Tel: 01234 840 881

**Cambridge**  
 393/395 New Market Road  
 Tel: 01223 361 266

**Charlton**  
 Charlton Pensular Retail Park, Bugsby Way  
 Tel: 0181 305 2123

**Chelmsford**  
 The Meadows, 36-40 Springfield Road  
 Tel: 01245 268 401

**Colchester**  
 The Tollgate Centre  
 Tel: 01206 561 806

**Harlow**  
 St James Centre, Edinburgh Way  
 Tel: 01279 410 711

**Hayes**  
 Hayes Bridge Retail Park, Uxbridge Road  
 Tel: 0181 573 1655

**Horsham**  
 42-46 Worthing Road  
 Tel: 01403 256 682

**Luton**  
 10/20 Castle Street  
 Tel: 01582 432 126

**Milton Keynes**  
 Grampion Gates  
 Tel: 01908 394 473

**Northampton**  
 67/83 Bridge Street  
 Tel: 01604 636 277

**Newbury**  
 Greenham Road  
 Tel: 01635 32633

**Oxford**  
 14-16 Park End Street  
 Tel: 01865 245 653

**Peterborough**  
 Boulevard Retail Park, Maskew Avenue  
 Tel: 01733 315 810

**Portsmouth**  
 Victoria Retail Park, Fiathouse Road  
 Tel: 01705 755 295

**Reading**  
 65 Caversham Road  
 Tel: 0118 950 2662

**Slough**  
 105 Farnham Road  
 Tel: 01753 526 602

**Solihull**  
 Stratford Road, Shirley  
 Tel: 0121 744 3177

**Southampton**  
 Western Esplanade  
 Tel: 01703 631 383

**Watford**  
 114 St Albans Road  
 Tel: 01923 248 688

**LONDON (M25) AREA**

**Colindale**  
 339 The Hyde, Edgware Road  
 Tel: 0181 200 8938

**Epsom**  
 31-37 East Street  
 Tel: 01372 739 668

**Old Kent Road**  
 651/657 Old Kent Road, Southwark  
 Tel: 0171 277 8144

**Park Royal**  
 North Circular Road, Hanger Lane  
 Tel: 0181 838 1975

**Tottenham**  
 Tottenham Retail Park, Broad Lane  
 Tel: 0181 801 5243

**Western Avenue**  
 Tel: 0181 752 0789

**WALES**

**Cardiff Bay**  
 Unit 1G, Ferry Road, Cardiff Bay Retail Park  
 Tel: 01222 232 453 (near ASDA)

**Cardiff Newport Rd**  
 Unit B, Segal Retail Park, Newport Road  
 Tel: 01222 461 714 (near Allied Carpets)

**Newport** - opens 2nd November  
 Tel: 01633 817169

**MIDLANDS**

**Cannock**  
 Unit 10, Orbital Retail Centre  
 Tel: 01543 468 869 (near Sainsburys)

**Coventry**  
 Unit 3, Gallagher Retail Park, Stoney Stanton Rd.  
 Tel: 01203 663 588 (near Comet)

**Derby**  
 Unit 2 The Kingsway Retail Park  
 Tel: 01332 349443 (near Comet)

**Huntingdon**  
 Unit B Huntingdon Retail Park, St Peters Road  
 Tel: 01480 459 392

**Solihull**  
 Unit 3 Sears Retail Park, Marshall Lake Road  
 Tel: 0121 733 1936 (near Comet)

**Birmingham/Stechnford**  
 Unit H, Flaxley Parkway, Stechford Retail Park  
 Tel: 0121 783 6517

**Stoke**  
 Festival Park, Etruria, Stoke on Trent  
 Tel: 01782 279 895

**Tamworth**  
 Unit H, Ventura Retail Centre, Bitterscotte  
 Tel: 01827 63963

**Telford**  
 Unit 3, Telford Forge Retail Park, Colliers Way  
 Tel: 01952 291 372 (near PC World)

**WEST AND SOUTH WEST**

**Bristol**  
 Unit 2 Block C Lysander Road,  
 Patchway, Cribbs Causeway  
 Tel: 0117 950 2076 (near PC World)

**Bristol (3)** - opens November 12th

**Swindon**  
 Unit 4 Greenbridge Retail Park, Drakes Way  
 Tel: 01793 434 112 (near PC World)

**Worcester**  
 Unit C Elgar Retail Park, Blackpole  
 Tel: 01905 757 947 (near Sainsbury's)

**ANGLIA**

**Ipswich**  
 Unit 3 The Sandling Retail Park, Ransomes Way  
 Tel: 01473 729 308 (near Harvey's)

**Kings Lynn**  
 Unit 1A Peerpoint Retail Park  
 Tel: 01553 661347

**Norwich**  
 Unit 1 Blackberry Court, Sweetbriar Road  
 Tel: 01603 484 752 (near Allied Carpets)

**SOUTH & SOUTH WEST**

**Aylesbury**  
 Unit 2, Cambridge Retail Park, Cambridge Close.  
 Tel: 01296 436 767 (near Argos)

**Banbury**  
 2 Lockhead Close, Banbury Retail Park  
 Tel: 01295 279 585 (near MFI)

**Basildon**  
 Unit 6B Mayflower Retail Park, Arterial Road  
 Tel: 01268 282 526 (near Pizza Hut)

**Bedford** - opens November 18th  
 Unit C, Interchange Retail Park  
 Tel: 01234 346031

**Bracknell**  
 The Peel Centre, Unit 5B Skimpedhill Lane Retail Park  
 Tel: 01344 486 353 (near Safeway)

**Cambridge**  
 The Bee Hive Centre, Coldhams Lane  
 Tel: 01223 360 899 (near Curry's)

**Chingford** - opens November 16th  
 Unit 1A, Corktree Retail Park, Corktree Way, Hall Ln.  
 Tel: 0181 524 4526

**Chippenham**  
 Unit 3B Hathaway Retail Park, Foundry Lane  
 Tel: 01249 461 230 (near the railway station)

**Guildford**  
 Ladymead Retail Park, Europa Park Road  
 Tel: 01483 562 448 (near PC World)

**Hedge End**  
 Unit 1, 27 Hedge End Retail Park, Tollbar Way  
 Tel: 01489 795 975 (near Safeway)

**Kettering**  
 Unit 5 Kettering Retail Park, Carina Road  
 Tel: 01536 519 813 (near Carpet Right)

**Northampton**  
 Riverside Retail Park  
 Tel: 01604 415 018 (near Halfords)

**Northampton (2)** - Opens November 2nd  
 Pole  
 Manning Heath Retail Park, Unit 3 Yarrow Road  
 Tel: 01202 743 138 (near Great Mills)

**Reading** - opens November 26th  
 Unit A2, Forbury Retail Park, Forbury Road  
 Tel: 0118 959 5175

**Slough**  
 300 Bath Road  
 Tel: 01753 534 636 (near Comet)

**Southampton**  
 Unit 4 Nursing Industrial Park  
 Tel: 01703 740 693 (near B&Q Depot)

**Stevenage**  
 Roaring Meg Retail Park, Monks Wood Way  
 Tel: 01438 741 435 (near Toys R Us)

**LONDON (M25) AREA**

**Brentwood**  
 81/85 High Street, Brentwood  
 Tel: 01277 263 541 (near Nationwide) Not open Sunday

**Dagenham**  
 Unit 3 Mernlands Retail Park, Ripple Road  
 Tel: 0181 517 2765 (near Wimpy)

**Hayes**  
 Unit 4 Lombardy Retail Park, Cold Harbour Lane  
 Tel: 0181 573 1531 (near Safeways)



**Wales**  
**Cardiff Bay**  
 Unit 1G, Ferry Road, Cardiff Bay Retail Park  
 Tel: 01222 232 453 (near ASDA)

**Cardiff Newport Rd**  
 Unit B, Segal Retail Park, Newport Road  
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 Tel: 0121 733 1936 (near Comet)

**Birmingham/Stechnford**  
 Unit H, Flaxley Parkway, Stechford Retail Park  
 Tel: 0121 783 6517

stores open Sundays  
 For store details

Freephone 0800 316 2 317



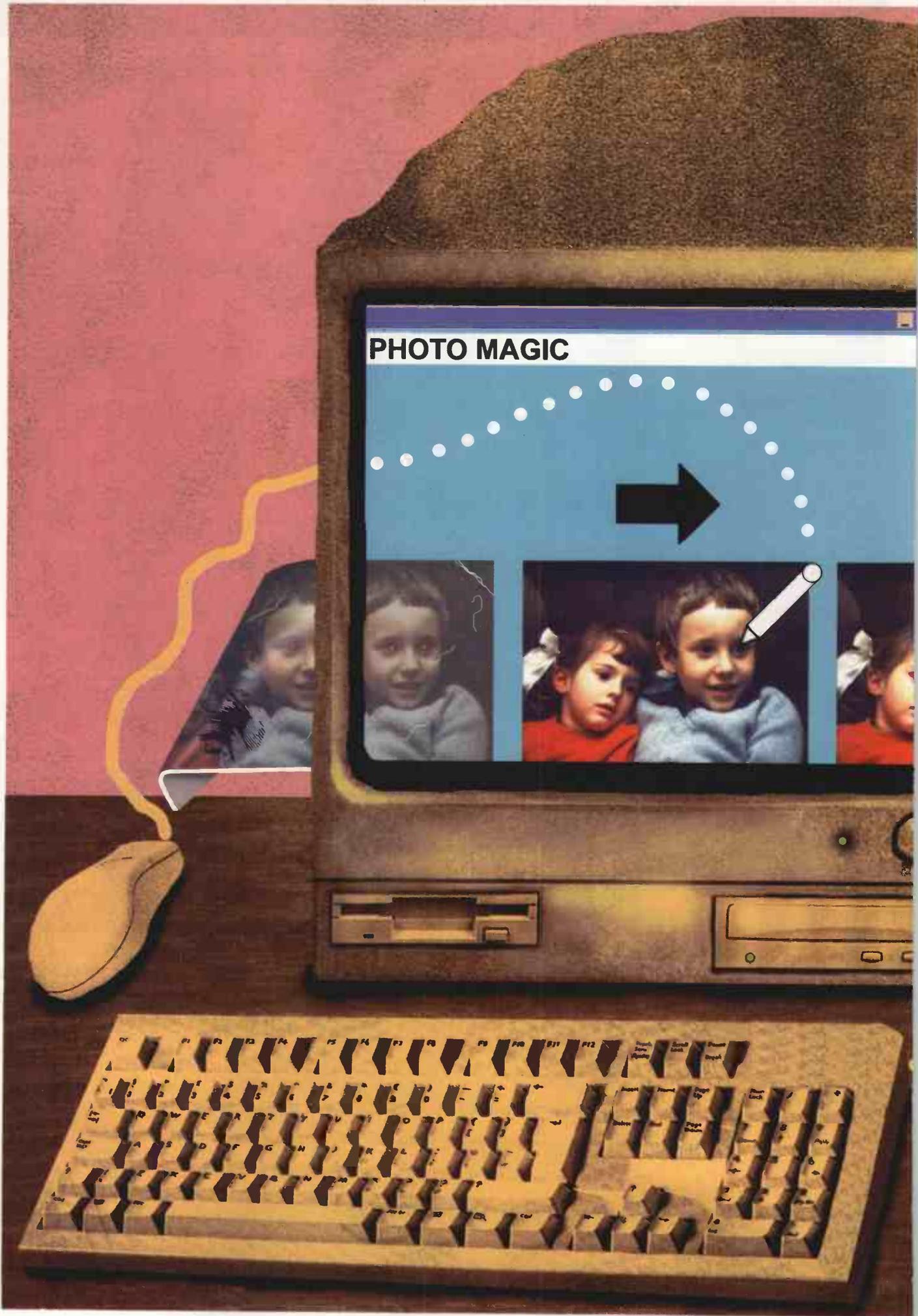


Illustration by Matthew Kenyon



# Picture perfect

What you see in your photos need not be what you get: you can change it with **image editing software**. Ken McMahon checks out ten packages within the reach of most people's pockets.

**T**he days of taking your film to the high-street chemist for processing are numbered – the digital revolution has caught up with your photo album. As with all revolutions, this one has slowly been creeping up on us unnoticed and there are a number of protagonists. Cheaper, better scanners, bigger hard drives, faster CPUs, cheaper RAM and the proliferation of CD as an inexpensive mass-storage medium have all played their part. But the big breakthrough has been with colour inkjet printer technology; only recently has photo-quality reproduction on affordable inkjet printers become a reality. Once, digital photo editing was the preserve of professionals. Now you can view your photos on your PC and make inexpensive hard copies as often as you like.

**The software industry** has not been slow to recognise an emerging market, and over the past two years consumers have been able to choose from an expanding range of products aimed squarely at the home user. Rather than aiming at the professional or even the enthusiast, these packages are targetted at those whose knowledge of photography is limited to point-and-shoot cameras. The focus is on simplicity and ease of use rather than power features, and they mostly cost less than half a dozen rolls of film, including processing.

**It's a fair bet** that within a few years, conventional film photography will be all but obsolete and everyone from Kodak to Microsoft will want to be at the front of the queue with the products that are going to replace it. Those companies which succeed will be the ones which make it easiest to get the pictures from your camera to your printer with the best possible reproduction quality. Consumers also want added value: to be able to play with their pictures and incorporate the results in anything from a Christmas card to an email. Here, we look at sub-£100 packages designed to do just that. Next month, we'll concentrate on packages designed for professionals and enthusiasts. These are not cheap, but provide the power and versatility to make virtually anything possible.

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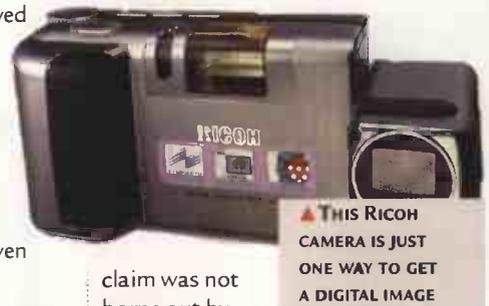
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# Digital pictures for all

Even if you take **simple pictures** on a box Brownie, you can still get them into digital format.

Image editing is only for those photographers who can afford digital cameras costing more than £500. Right? Wrong. Even if you are still using a box Brownie, you can easily get your pictures into digital format. If you have overflowing shoeboxes full of prints, you need a scanner (approximate cost, £100. Check out the budget scanners group test in the September 1998 issue of *PCW*, p168). If you want your future photography to be digital, you need not necessarily invest in a digital camera. Kodak's Image Magic service provides a means of getting your photos into digital format without the expense of a digital camera — and you can still have your glossy prints. Kodak provides two options. Either you can have all of your images recorded onto a CD-ROM in

FlashPix format, or they can be saved as JPEG images on floppy disk. You can have up to 300 images stored on one CD at a cost of £18.99 for a film of 36 shots, plus £4.99 for the CD. It is a multi-session version, so you can take it back later and have another film added if you want, or you could even turn up with your shoebox-full of pictures and have some old images added to a CD-ROM. For the JPEG images on floppy disk you will have to pay £12.49 for a film of 36 shots, over and above your normal processing costs. Another advantage of the FlashPix format is that if you are using a FlashPix-based editor such as LivePix [p194] or PictureIt! [p199] some editing functions are supposedly faster, although this



claim was not borne out by our experience with LivePix. The maximum resolution of FlashPix images supplied by Kodak is 1536x1024 pixels. The JPEG images supplied on floppy are a mere 600x400 pixels, which is fine for viewing print-sized on a monitor and you will get reasonably good quality prints on your printer, but you can forget about enlarging them.

## Colour management

Vibrant colour pictures can turn out as **wishy-washy prints**. Here's how to prevent it happening.

You scan-in your favourite shot: there is a turquoise sea, sand the colour of Demerara sugar and a beautiful azure sky. On your monitor, the sea looks good despite the fact that it may look a little more green than before. The sky has gone paler, though, and the sand is almost white. Oh well, not to worry, it will probably look acceptable when it has been printed out. Won't it? Don't count on it.

Colour management software attempts to correct this nightmare and make your scanner, display and printer all talk the same colour-language. Physically this is something of an impossibility, because your monitor creates

colour using *transmitted* light from red, green and blue phosphors, whereas your printer makes use of *reflected* light from a combination of yellow, magenta, cyan and black inks. Nonetheless, by careful adjustment of your monitor and by

using colour management software, it is possible to get a much better colour match between various input and output devices.

**The first thing** to be certain of is that your monitor is properly adjusted.

- Make sure it has been switched on for at least an hour before making any adjustments.
- Check out your image editing package to discover whether or not it includes a calibration strip or an image which you can use to optimise the brightness and contrast levels. If one is not supplied, you should be able to find one, as well as plenty of advice on calibrating your monitor, at [www.csf.org.uk](http://www.csf.org.uk).

➤ Most displays have an adjustment which allows you to alter the white-point colour temperature. Usually the factory default is set to around 9,000K which is much too blue, so try adjusting it downwards to around 5,500K.

Or, using a test image, make trial-and-error adjustments until you get the best match with your printer.

**If you are still dissatisfied** with the results, you need colour management software. This works by producing a profile for each device, comparing the device profile with a reference and adjusting the output to compensate for the variation.

Many applications now provide colour management support. If you have CorelDraw 7, take a look at our *Hands On Workshop* [p214] in the September 1998 issue for an explanation and advice on how to use it.

**Agfa's web site** at [www.agfahome.com](http://www.agfahome.com) contains information about colour management generally as well as the company's Fototune and Colortune products. You can get ICC device profiles for printers, monitors and scanners from most manufacturers' web sites. Mac users can find out about Apple's Colorsync system by visiting the Apple web site at [www.apple.com](http://www.apple.com).

# Get the best out of both Worlds with this exclusive limited offer from Black Widow Scanners

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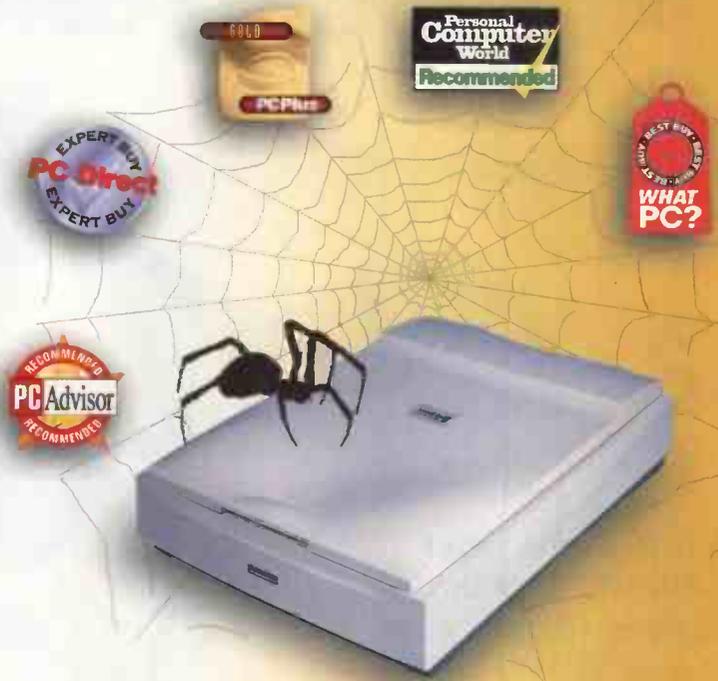
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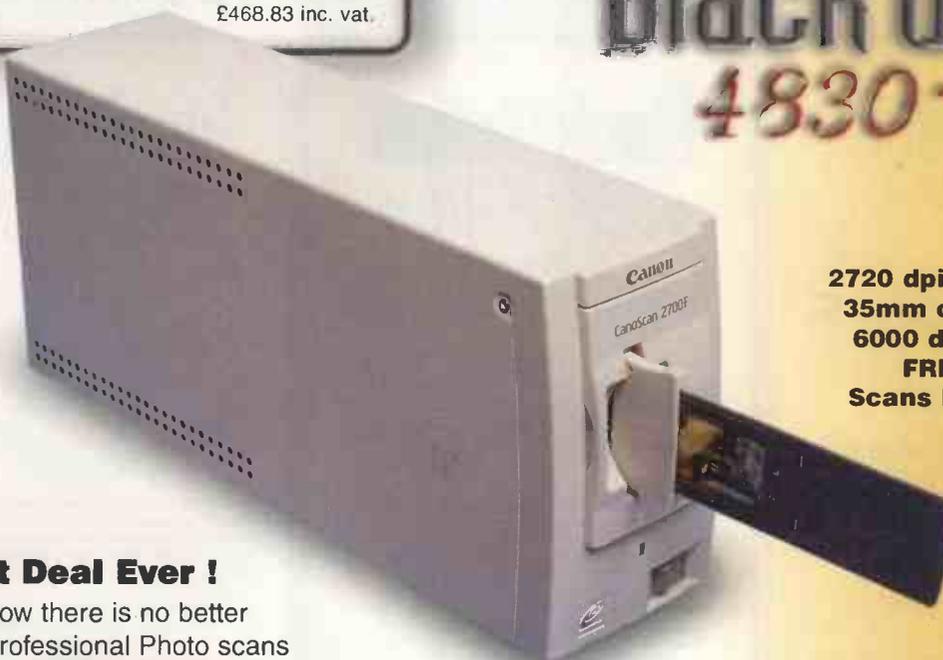
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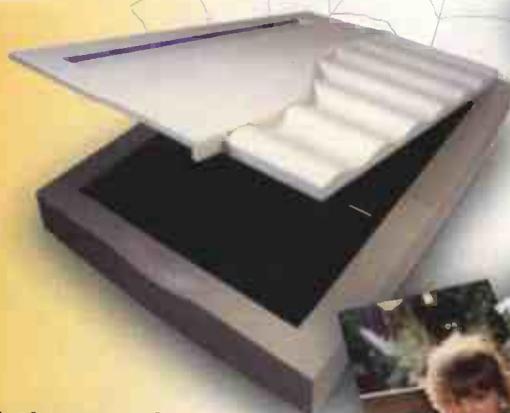
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Ultra-Fast motor for rapid text scanning.  
Optical scan resolution 600 x 1200dpi.  
Dynamic range 3.0D+ suitable for repro applications.  
Calibrated to repro standard for photo scanning.  
3-D and 2-D scanning capability.  
EPP parallel port interface, cable supplied.  
FREE ! PhotoShop (LE4) & TextBridge PRO 98 (Full)

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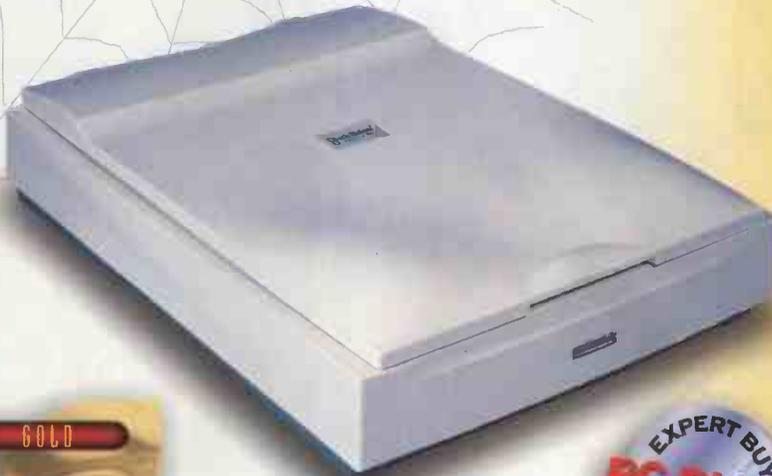
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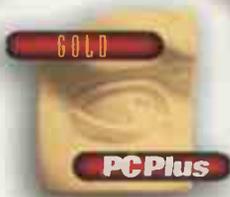
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A3 model Scan



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## Adobe PhotoDeluxe 2

Adobe is a recognised master of interface design and developer of the industry-standard image editing application, Photoshop 5. PhotoDeluxe 2 also combines a top-rate interface with powerful image-processing muscle. Adobe has taken all the common photo-editing tasks and presented them as step-by-step projects which are accessed from a selection of tabbed palettes.

**First stop** is the Get Photo palette. Most applications assume you know enough about Windows to accomplish something as simple as opening a file. In PhotoDeluxe 2, even this procedure is guided and various buttons give you the option of opening a file, a library, sample pictures and clipart from the CD, or selecting one of several input devices. Having obtained your picture, the next two tabs provide an armoury of retouching projects including cropping and rotating, red-eye removal and colour balancing. For lazy types, an instant fix button does the necessary while you sit back and watch. If you want to get more involved, you could try your hand at colour balancing.

**The size orientation button** provides a good example of PhotoDeluxe's guided approach. On pressing the button, a palette with five tabs appears. Each describes the next stage of the operation and provides the tools you need to carry it out. First, an intro tab explains how cropping works and provides a couple of small graphics as illustration. In case you're wondering what to do next, a red arrow with the words Start Here points to the next tab, which is labelled Adjust. This explains rotation and provides two buttons for clockwise and anti-clockwise rotation. Trim Size and Done tabs follow

**BASIC TOUCHING-UP IN PHOTODELUXE 2. THE TABBED PANELS GUIDE YOU STEP-BY-STEP THROUGH THE PROCESS, PROVIDING ONLY THE TOOLS YOU NEED**



in the same fashion, each with a straightforward explanation of what's going on, and the tools to do the job.

**Beyond basic image** enhancement and retouching there's a special effects category which holds five palettes: art, fun, collage, cool and cooler. Each of these contains around half-a-dozen projects. The art projects concentrate on turning your photos into something that look more like they were created with a pencil or brush than film and flash. You can choose from sketch, old-fashioned, posterise, impression, hand colour, tint, and glowing edges. Fun has a multitude of distortion and perspective tricks based on special effects filters. Collage projects include switching backgrounds, elementary "transplant surgery" (putting your head on someone else's body), trick scaling ("Honey, I shrunk the kids/dog") and a disguise section which lets you attach clipart moustaches to your least favourite aunts.

**The special effects** projects work in the same step-by-step fashion. Old-fashioned lets you turn your sharp,

colourful, pristine pictures into tatty faded brown things that look like they've been in your grandad's back pocket for the past half-century. It's a three-step project. First, you convert the image to black and white. The tint tab provides a colour picker for you to select your favourite shade of sepia, and then the age panel provides a noise and blur button. It would be nice if there was some way of adjusting the amount of noise as the button applies it by the bucketload. Conversely, the blur button undercooks it, but you can overcome this by pressing it more than once. In fairness, I believe Adobe has got the balance between control and ease of use just right.

**If you want to break** the bonds of handheld image editing you can always take a deep breath and press the Advanced button. You then have access to tools and commands in a more conventional menu-driven environment. You can disable the one-document-window-at-a-time limitation and display the layers palette. In truth, you are unlikely to need the advanced option other than where you can't get quite the effect you want, or want to use third-party plug-ins.

## PHOTODELUXE 3.0

As we went to press, Adobe released PhotoDeluxe 3.0 Home Edition. It features a new-look interface in which round-cornered palettes are a big feature, and access to the many guided projects is via a more direct menu system.

Other new features include digital camera direct access software, basic colour management, Extensis instant-fix filters and a panorama facility for stitching together side-by-side photos. There's also Photoparade, a slideshow which plays themed picture albums. Web content has been extended via the Adobe Connectables web site, although it is not possible to use a guided activity directly over the web, as with the previous version.

The verdict? This new version is not a radical revamp of version 2.0, but more of the same-quality Adobe product we have come to expect.

### PCW DETAILS



Price £45.83 (£39 ex VAT)

Contact Adobe 0131 458 6842

[www.adobe.co.uk](http://www.adobe.co.uk)

**Good Points** Ease of use. Lots of guided projects.

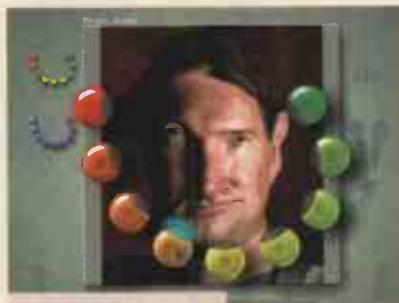
**Bad Points** None — it does what it says on the box.

**Conclusion** If you're not sure what you're doing, this is the one to go for.

## Kai's SuperGoo

**S**uperGoo is something out of the ordinary. It lets you stretch, twist, pinch, pull, twirl and otherwise distort your photos. You can elongate chins, make eyes bulge, extend foreheads and turn pictures of ordinary people into grotesque caricatures.

**In the Goo room** your picture takes centre stage, with two palettes to the left: one contains nine Goo brushes, the other has Goo effects which work on the entire image. With a Goo brush selected you can adjust the size and fluidity. Then, it's really a case of experimental dragging. When you click and drag, the part of the image under the brush is dragged in the direction of the stroke. The most effective brushes are pinch/bulge, twirl, smear, smudge and nudge. There's a very useful Ungoo brush (you just paint over goo'd bits to progressively ungoo the damage) as well as a global ungoo slider. At the bottom of the screen a filmstrip palette provides storage for up to 64 frames



▶ **IF YOU DON'T LOOK LIKE THIS ALREADY, SUPERGOO HAS ALL YOU NEED TO PRODUCE THAT MELTED LOOK**

which can be played in sequence as a movie (or "Goovie").

The transition from one frame to the next is slick as Goo creates intermediate frames to produce smooth animation. You can export Goovies as AVI or QuickTime files. The Effects palette is a set of eight distortion filters from zig-zag, to squeeze, to spike and wave. There are three settings available from sliders on the right. When you select an effect, all three sliders cycle through

their values to give you an idea of the possibilities. Used in conjunction with the filmstrip, it's a great way to produce quick, easy, fluid animations.

In the Fusion room you can mix facial features. A library of parts is supplied for you to mix and match, and the dedicated can make their own bits from the family photo album. However, fancy tricks like the gender slider and the mutate button do little to diminish the gimmicky feel of this.

### PCW DETAILS



**Price** £49.95 (£42.51 ex VAT)

**Contact** Computers Unlimited  
0181 358 5858

[www.metacreations.com](http://www.metacreations.com)

**Good Points** Highly-flexible distortion. Good animation feature.

**Bad Points** A dog that knows only one trick.

**Conclusion** One for the specialist or as a complement to an existing package.

## Kai's Photo Soap

**P**hoto Soap's interface looks so stunning, it's easy to get carried away as ribbed and rubberised drawers slide smoothly open and shut, panels slide out to reveal 16-slider graphic equaliser-style panels, and tools give off an eerie glow as your pointer hovers over them. Tools look like the real thing. Brushes have visible bristles and long, pointed, wooden handles that might take your eye out if you don't watch it. Erasers are made of chunky, thick rubber, and pencils are yellow with a rubber attached to the end by a thin strip of tin.

**Soap uses a room metaphor** to give your photo-editing a structured approach. You start in the In room and end in the Out room, passing through the prep, tone, colour, detail and finish rooms in between. You don't have to do it in that order or include every room, as any of them can be entered at any time via a map button at the top of the screen. Right from the start in the prep



▶ **UNIQUE INTERFACE. BEFORE AND AFTER VIEWS, LEFT AND RIGHT; THE TOOLBOX IS ON THE LEFT; THE 'MEMORY DOTS' ON THE RIGHT STORE THUMBNAIL VIEWS**

room you get a chance to make big improvements. As well as cropping and rotating

there's an enhance button which samples an area of the image and makes improvements to exposure, tone and colour balance. The other rooms require more judgement on your part. In the colour room you control hue, saturation and lightness via a three-slider control, or you can have a crack at the 12-band colour equaliser. The detail room holds a comprehensive

array of retouching tools including red-eye removal, a heal tool for spots, wrinkles, dust and scratches, and smooth, sharpen and clone brushes. In the finish room you can add backgrounds, edge textures and other clipart objects to your pictures.

**Soap won't be** to everyone's taste. The interface can slow things down considerably and the hardware-challenged will need to turn off some features to avoid gridlock. But the tools and features are first rate.

### PCW DETAILS



**Price** £46.95 (£39.96 ex VAT)

**Contact** Computers Unlimited 0181 358 5858 [www.metacreations.com](http://www.metacreations.com)

**Good Points** Gorgeous interface. First-rate tools. Unconventional.

**Bad Points** Slow. Unconventional.

**Conclusion** As good as anything else, the interface is a love or hate thing. I love it.

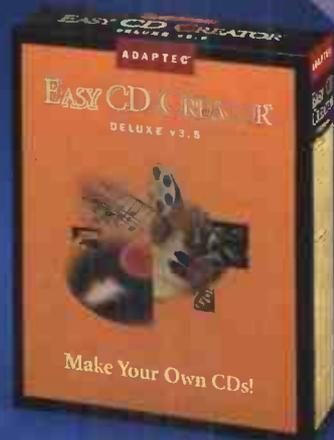
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## LivePix 2.0

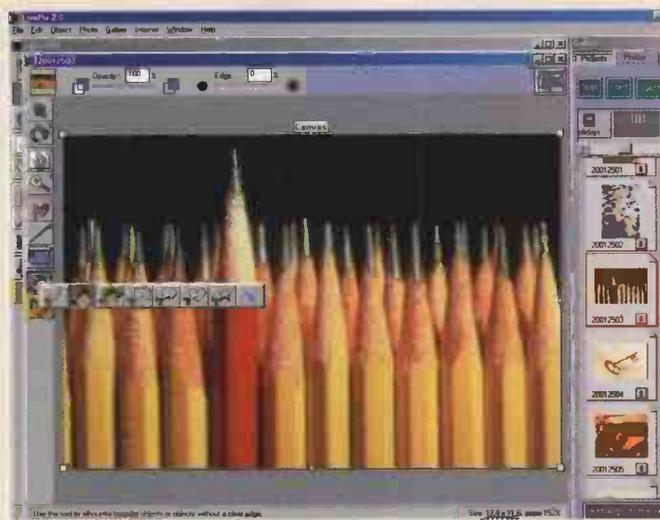
**B**ig pictures make big files in conventional, pixel-based editing. Each pixel needs a byte to represent all the colour information, so an A4 photo at sufficient resolution for good-quality output to an inkjet printer will occupy around 15Mb on your hard drive and up to five times that when pulled into memory by your application (additional space is needed to store previous versions for undo, layer information, alpha channels and so on). LivePix uses an image format called FlashPix which stores the image in several resolutions. This speeds up display and editing because the image is never displayed at a higher resolution than is required. Some editing operations, like resizing and colour adjustments, are stored as scripted "viewing parameters" and are applied to the original image data each time you view or print, rather than as a destructive edit changing the actual image pixels.

**The LivePix interface** is basic. To the left of the main picture window is a tool palette which holds nine tools, some with flyout options. At the top there's a thumbnail which you click to resize or crop, an opacity slider and an edge softener. To the right, the gallery window displays albums of photos and projects. Most of the tools actually do basic things: there is move, rotate, pan/zoom, type, outline, filled shapes, cutout and effects. Text, outline and filled objects are non-destructive.

**The problem** with pixel-based image editors is that any changes you make permanently alter the image. If you place text or an object over a picture, the pixels underneath are wiped out. Applications like PhotoDeluxe and Paint Shop Pro overcome this drawback by using independent layers; LivePix and others use independent editable objects. The object approach works particularly well with text because you can edit it at any time. Applying special effects like drop shadows is similarly straightforward and the effect is also an editable object, so if you later decide you don't like it, you can change or remove it. It's really only when you get to the bottom end of the toolbox, however, that LivePix does anything beyond the ordinary. There are eight

▶ **LIVEPIX DROP SHADOW IS ONE OF THE EASIEST TO USE. THUMBNAIL IMAGES ARE DISPLAYED IN THE GALLERY ON THE RIGHT**

▼ **LIVEPIX OFFERS A GENEROUS RANGE OF CUTOUT TOOLS INCLUDING TWO EDGE-HUGGING VARIANTS FOR JOBS LIKE THESE PENCILS**



cutout tools — surely more than any other application can boast. Three of these are quite useful. There's a standard freehand cutout tool, an edge highlighter and an edge detector, which is a more accurate version of the highlighter. Besides a cutout edit tool, the remaining four are "cookie cutters" (preset shape cutouts). Leaving the best for last, the fx tool flyout contains a red-eye corrector, distort, colour correction, drop shadow and clone tool.

**The gallery** is an advanced browser which allows you to organise pictures and projects into albums and drag and drop images between them. There are a number of sample albums provided on the CD and you can create your own. Additionally there is a range of quite well-designed project templates for things like calendars and greetings cards into which you can substitute your own pictures, making extensive use of the many cutout tools provided.

Performance was a little disappointing. I opened a FlashPix-format file in LivePix and Adobe Photoshop 4 and cropped, rotated and zoomed. LivePix opened the document in half the time it took Photoshop, but in all other operations Photoshop was considerably faster.

Magnifying the image on-screen, where you would expect LivePix to have a significant edge, was virtually instantaneous in Photoshop but in LivePix it took nearly ten seconds.

FlashPix or not, LivePix is in need of a major injection of excitement if it is to have a hope of competing successfully. Although a big improvement on version 1.0, the general impression is of a dull experience in need of livening up with more sophisticated editing tools and more interesting projects.

### PCW DETAILS



**Price** £39.95 (£34 ex VAT)

**Contact** LivePix 01429 855048

[www.livepix.com](http://www.livepix.com)

**Good Points** Good collection of projects. Flashpix compatible.

**Bad Points** Slow. Poor feature set.

**Conclusion** A lacklustre performer.

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## Metacreations Art Dabbler 2.0

**D**abbler is a different kettle of fish to the other packages here, in that it has more in common with paint and canvas than film. In most image editors you work on a page at a time. If you need a new page, you start a new document. Dabbler uses a multi-page approach. The sketchpad is exactly that — a book full of blank pages awaiting your inspired doodling. You can use the sketchpad browser to flip backwards and forwards and to rearrange the page order.

**The Dabbler interface** looks worryingly bare as initially there are no toolbars or palettes to be seen anywhere: everything is tucked away in drawers just under the menu bar at the top of the screen. The drawers display the most commonly used tools on the front where you can get at them instantly. All the others are neatly tucked away inside. When you grab a drawer handle to open it, you can select from any of the remainder and the newly selected tool replaces one of those on the front. Closing the drawers provides more viewing space for your work, but if you're anything like the artists I know, you'll leave them all open. In this respect, Dabbler's interface is a little dated. Context-sensitive floating palettes would bring it up to date.

**The tools drawer** contains a good selection of drawing and painting tools, each available in five different sizes. An ink bottle, oil brush, crayon, chalk, pencil, spray can and liquid brush are included. In addition there are tools for rotating and magnifying, an eyedropper for selecting colour from the image, a hand grabber and a selection of stencils. The stencils work in exactly the same way as real-life ones. Looked at from a software perspective they are, of course, just selection masks available in a variety of shapes. The default selection includes a few geometric shapes but the CD is packed with stencil libraries containing anything from farm animals to fried eggs. Next along is the colour drawer where you can choose from a selection of palettes or use a colour wheel to select a specific hue/saturation/brightness combination. An insignificant-looking little button in the top right-hand



◀ YOU NEED TO GET INSIDE DABBLER'S DRAWERS TO DISCOVER WHAT'S AVAILABLE

▼ CREATING FLIPBOOK ANIMATIONS WITH THE HELP OF TRACING PAPER

corner allows you to clone from the preceding page in the sketchbook. Using the painting and drawing tools as modifiers, you can achieve some interesting effects this way. Another drawer is full of paper textures. Again there's a good choice, and each texture is illustrated by a little swatch. If you can't find what you're looking for, there are additional libraries on the CD.

**Dabbler's multi-page** capabilities combined with its tracing-paper feature make it an excellent animation tool. The tracing-paper command makes the top drawing layer transparent so you can view the preceding page beneath it. In fact, you can make up to three preceding or subsequent pages visible in addition to the current one. Using Dabbler's flipbook feature you can build up animations frame by frame and play back and edit using a viewer applet. Completed animations can be exported as QuickTime or Video for Windows movies. Flipbook animations are put to good use as a series of tutors. As well as How To Use Dabbler there are two other excellent tutors: Drawing Cartoons, and Cartoon Animation. Additional bits and pieces include a small stock-photography library and



three KPT plug-ins — Gradient Designer, Page Curl and Planar Tiling.

It's one thing to scan a photo and apply a few filters. Creating your own illustrations and animations from scratch is in a different creative league. If you feel more at home with a few felt tip pens, poster paint, bits of paper and PVA glue, or fancy yourself as the next Tex Avery, then Dabbler is the way to go.

### PCW DETAILS



**Price** £46.95 (£39.96 ex VAT)

**Contact** Computers Unlimited  
0181 358 5858

[www.metacreations.com](http://www.metacreations.com)

**Good Points** Natural media tools. Multi-page sketchbooks. Animation features.

**Bad Points** Interface looks a little dated.

**Conclusion** Great fun. A must for budding cartoon animators.

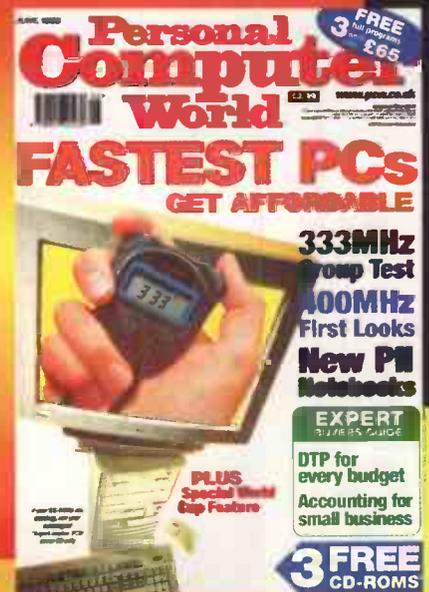
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## MGI PhotoSuite II

**M**GI has responded to the changing market by restarting from scratch. PhotoSuite II bears no resemblance to its predecessor (version 8.05). Tools and menus have been replaced by a graphical interface organised around six modes and selected via a button panel. Areas of activity are: Photos, Projects, Albums, Slide Shows and Guides.

A selection of these activities, based on the current mode, appears beneath the mode panel. In photo mode you can edit, rotate, crop, touch-up and transform or save, print and send. As well as the standard toolbar, you are provided with tools to do the job. A control panel at the foot of the window displays fine tuning adjustments for the selected tool. It may sound complicated but is simple in practice: select a mode, then an activity, then a tool.

The edit photo activity is equipped with a good set of easy-to-use tools including a cloner, filled and unfilled



shapes, an eye-dropper colour selector and an undo eraser. Touch up and transform has four options: remove red-eye, touch-up, special effects and warp. Touch-up provides a pull-down menu of image enhancement options including one-touch enhance, colour balancing, scratch removal and soften and sharpen filters. Warp provides Goo-style image distortions. But the special effects option has a disappointingly thin selection of filters.

The remaining five modes leave plenty to do. Albums provides a way of organising your digital picture

**PHOTOSUITE II OFFERS A RANGE OF GUIDED ACTIVITIES WITH THE RIGHT TOOLS TO HAND WHEN YOU NEED THEM**

collection. Projects lets you create cards, collages and so on. The quality of the template collection is nothing to shout about but you can at least edit object layers (not possible in photo mode). The internet mode provides seamless web access to browse online picture resources.

### PCW DETAILS



**Price** £49 (£41.70 ex VAT)

**Contact** MGI software 01628 680227

[www.mgisoft.com](http://www.mgisoft.com)

**Good Points** Well structured. Lots of features in an accessible format.

**Bad Points** Poor-quality templates. Few filters.

**Conclusion** Comprehensive. Nicely presented package.

## Microsoft PictureIt! 2

**T**he PictureIt! interface has a familiar look. A central picture window is flanked on the left by a workbench and projects tabs. There's an object stack to the right and a filmstrip at the bottom for storing and retrieving open picture files.

The interface divides editing tasks into two groups. The workbench tab provides a set of tools for photo retouching and you can add text to pictures, make cut-outs, crop, size and position images, remove red-eye and scratches, apply special effects, save and print. Click on the adjacent projects tab and you can choose from a selection of guided activities such as collages, invitations, frames and others. Workbench tools are straightforward to operate and step-by-step guidance is provided. Most operations are completed in just a couple of steps.

Performance was rather slow. PictureIt! needs to redraw the screen almost every time: when you click to select the crop tool or a new shape,



and when you click to enter precise dimensions, and when you click to cancel. Each redraw takes about five seconds and it all gets rather tedious. The slow speed may have been partly due to the multi-layered nature of the test document which was one of the excellent project templates supplied.

One of the good things about PictureIt! is the way that it handles object layers. These are available in workbench and project views and are displayed in the object stack. You just drag objects to a new position in the stack to reorder them, or right-click to get a menu from which you can delete,

**PICTUREIT! HAS EXCELLENT PROJECT TEMPLATES AND CLEAR GUIDANCE**

promote and relegate layer objects, or view a movie tutorial.

Although it's looking a little dated and will shortly be replaced by PictureIt! 99, PictureIt! 2.0 is still a pleasure to

use. The help facilities are bettered only by Adobe's PhotoDeluxe 2.0 (see p191). But PictureIt! is slow, and more recent releases of image editing software have the edge in terms of features.

### PCW DETAILS



**Price** £49.99 (£42.54 ex VAT)

**Contact** Microsoft 0800 002000

[www.microsoft.com/pictureit](http://www.microsoft.com/pictureit)

**Good Points** Clear uncluttered interface. Good guidance and collection of project templates.

**Bad Points** Slow. A little dated.

**Conclusion** Nice, but just past its sell-by date.

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Tim Woodward, PC Plus, April 1998

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# Paint Shop Pro 5

One of the many things Paint Shop Pro has going for it is that it is shareware. You can download it from the web or get it from our PCW cover-mounted disc and play with it for 30 days before shelling out. If you decide it's not worth it, you can send it to the recycle bin but, given what this modestly-priced program can do, it's unlikely.

Paint Shop Pro has evolved from a one-trick file conversion utility to one of the most able image editing packages around. Most of its new features have been introduced with version 5, so if you're still plugging away with version 4.14, an upgrade is in order. New features include support for Adobe-compatible third-party plug-in filters, layers, alpha channels, Bezier-curve drawing, picture tubes, multiple undo and CMYK separations. If all that means little to you, don't fret. While it doesn't provide the kind of guidance you get with PhotoDeluxe 2, with a little knowledge of how digital images work you can get Paint Shop Pro to do almost anything the "professional" packages can manage.

The editing window is uncluttered, so even on a 14in monitor you get a clear view of what you're doing. There's a toolbar with the standard file and edit buttons, as well as some toggle buttons for things like full-screen preview, control, colour, layer and histogram palettes. The bulk of the remaining tools live on the left of the main image window. A status bar shows short descriptions of each tool as you point to it and, if you hover, a hint panel appears with a one- or two-word description.

Layers have become the must-have feature for image editors and Paint Shop Pro's implementation is comprehensive and versatile. The layers palette displays the layer name together with toggle buttons for visibility, grouping, transparency protect and layer mask functions, and an opacity slider. With transparency protect selected you can only edit non-transparent areas of a layer. You can assign layers to different groups simply by clicking on the toggle button which then displays the number of the group to which it belongs. There's also a pull-down list of blend options. These define how pixels in the layer will interact with those below it.



The retouch tool is a versatile brush which lets you selectively apply special effects. Used in combination with the control panel, you can select from a variety of retouch modes including dodge and burn, emboss, smudge, push and a variety of colour modifications. You can also select from dozens of paper textures which give the effect of painting onto marble, canvas, fruit peel, nail clippings or whatever.

Version 5 now provides web animation facilities in the form of Animation Shop. This separate application creates animated gifs using a filmstrip approach and dropping in images one frame at a time. An animation wizard takes you through the process of adding the frames and setting the frame rate, then you can play the sequence and make edits. There's an excellent optimisation wizard which ensures that your file is small enough and fast enough to play over a slow-speed internet connection. In combination with Paint Shop Pro 5's layer capabilities, Animation Shop provides as good an environment as any (with the exception of specialised tools like Debabelizer) in which to create GIF animations for the web.

If you see yourself using Photoshop, but can't afford it or perhaps you are not quite ready for it, Paint Shop Pro is the next best thing. It provides the same kind



PAINT SHOP PRO'S LAYER CONTROLS MAKE THIS KIND OF THING EASY, IF A LITTLE SLOW

A GOOD BROWSER GOES A LONG WAY TO HELPING FIND THE RIGHT IMAGE

of power and versatility and it's disappointments are few. The undo history, for example displays all your recent actions but will only undo them in reverse order, so you cannot be selective. Furthermore, if you make several brush strokes with one tool, undo undoes them all — not just the last one. This is criminal. The whole point of an undo is that it lets you correct a slip without having to go back to the beginning.

## PCW DETAILS



Price £69.95 (£59.53 ex VAT)  
Shareware. Full working version on 30-day trial.

Contact Digital Workshop 01295 258335, [www.jasc.com](http://www.jasc.com)

Good Points Great layer control. Excellent retouch tool. Nice image browser. Animation shop.

Bad Points Slow under pressure. Poor undo.

Conclusion Power without the price tag to match.

BUDGET PCS >>  
group test

## Professor Franklin's Instant Photo Effects

Instant Photo Effects is a relative newcomer to the digital photo-editing scene. It's aimed at home users who are substituting a roll of film and a trip to the chemist for a digital camera and colour inkjet printer.

Its interface is cute and not intimidating. Beneath the picture window there are six film canisters labelled Photography, Artistic, Edges, Frames, Darkroom and Accents. Click on any of them and it unravels a menu that looks like a length of film, based around half-a-dozen options. Selecting one of these presents a further level of choices. So, if you start with the artistic canister, the film unravels to reveal impressionism, painting, drawing, lithographic, etching and embossing. Selecting one provides a further half-dozen effects.

Drawing effects include charcoal, pen and ink, pencil, colour and black and white chalk, and marker. Accents includes lighting effects, texture filters



and drop shadows. Many of these are like mini macros: one-touch buttons which build up complex effects by automatically applying a number of processes. The Antique option from the photography canister, for example, removes colour, adds a sepia tone, fades and scratches the image, produces a torn-edge effect and adds antique-style photo corners.

The greetings card templates are high calibre and there is a nice collection of frames, with styles ranging from traditional to modern, to just bizarre.

◀ A GREAT SELECTION OF FRAMES AS WELL AS EFFECTS IN DEPTH, ALL WRAPPED UP IN A FUN INTERFACE

Some of the touch-up tools leave much to be desired, though. Red-eye removal and the dust and scratches filters in

particular are rather poor. That aside, Professor Franklin's is an enjoyable image-editing experience. It lacks the guidance and flexibility of PhotoDeluxe 2 but makes up for it with an in-depth selection of good effects.

### PCW DETAILS



Price £29.95 (£25.89 ex VAT)

Contact Guildsoft 01752 895100

[www.swsoftware.com](http://www.swsoftware.com)

**Good Points** Good range of effects. Few duds. Lots of fun.

**Bad Points** Little to offer besides prepackaged effects and processes.

**Conclusion** Fun, but you could quickly outgrow it.

## Ulead Photo Express 2

Photo Express 2 sports a brand-new interface built around a central workspace which holds your image. There is a command panel with five buttons: get, edit, print, share and express. A context-sensitive toolbar provides appropriate tools, depending on which of the command panel buttons you press. The toolbar provides six sources from which to pull-in pictures: from a digital camera to a plain-old file on your hard drive.

If your own collection of digital snaps is a bit sparse, there are albums of Ulead ones for you to play with. Clicking on a category displays the first four images. Then a slide show starts. The show can be controlled using VCR-style buttons, which looks impressive but is not a practical way of choosing pictures. When you have found the picture you want, you can go to edit mode. The global viewer then comes into play: whenever you open a file a thumbnail view is added, making it a quick and easy way to switch between images.



▲ EDITABLE TEXT EFFECTS ARE SIMPLE. A PREVIEW, AND CONTROLS FOR COLOUR, POSITION, TRANSPARENCY AND SOFT EDGE ARE ON THE RIGHT

A wide selection of editing tools is supplied: rotate, trim and size, sharpness, lighting, colour balance and retouching are shown on the top

toolbar when the Adjust sub-mode is selected. Options for each are available on the options panel so when you click, say, colour balance the panel displays eight preset thumbnail showing colour variations.

The toolbar-options panel combination works a treat. To apply text, press the text button, select add/edit from the toolbar and key the text into the window in the options panel choosing font, colour and other attributes (but oddly, not size). Then you can click any of the modifier tools, such as shape effects, 3D or shadow and go to work using the options displayed — usually a two-tab affair offering presets or variable control.

### PCW DETAILS



Price 34.95 (£29.74 ex VAT)

Contact BIT 01420 83811

[www.ulead.com](http://www.ulead.com)

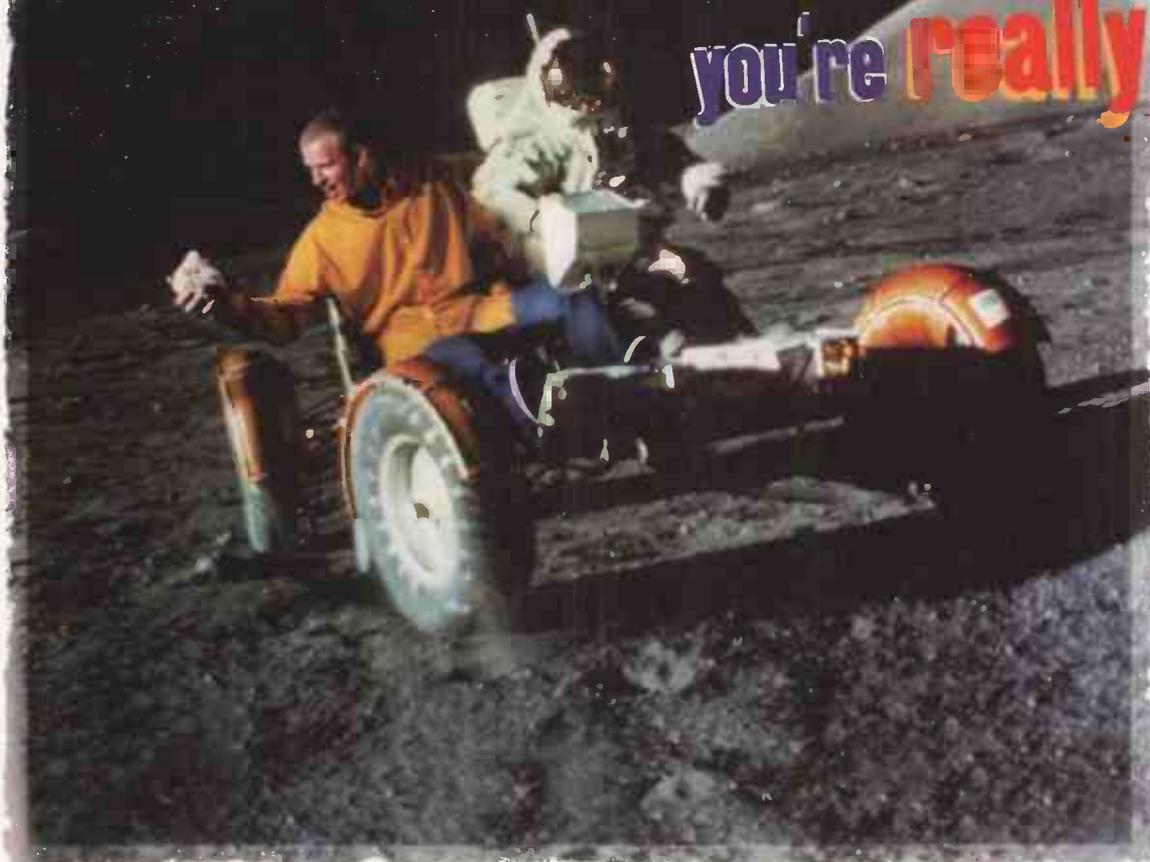
**Good Points** Great interface. Fast, in-depth tools.

**Bad Points** Cheesy project art.

**Conclusion** Straightforward, no-nonsense image editing that works.



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## Table of features



PRODUCT	PHOTODELUXE 2	KAI'S SUPER GOO	KAI'S PHOTO SOAP	LIVEPIX 2	ART DABBLER 2
MANUFACTURER	ADOBE	METACREATIONS	METACREATIONS	LIVEPIX INC	METACREATIONS
Contact	Adobe	Computers Unlimited	Computers Unlimited	LivePix Inc	Computers Unlimited
Tel	0181 606 4001	0181 358 5858	0181 358 5858	01429 855048	0181 358 5858
Web URL	www.adobe.co.uk	www.metacreations.com	www.metacreations.com	www.livepix.com	www.metacreations.com
Price ex VAT	£39.00	£42.51	£39.96	£34.00	£34.00
Price incl. VAT	£45.83	£49.95	£46.95	£39.95	£39.95
Layers/objects	3	2	X	3	X
Special effects	4	4	4	2	3
Colour correction	3	X	4	2	X
Web support	3	2	X	3	X
Animation	✓	3	X	X	✓
Cloning	3	2	3	3	3
PS Tablet support	X	X	X	X	Y
Multiple/Selective undo	X	X	X	X	X
Flashpix support	✓	✓	✓	✓	X
Projects	✓	X	✓	X	X
Text	1	2	1	2	2
Album	✓	X	X	✓	X
Selection tools	3	1	1	2	2

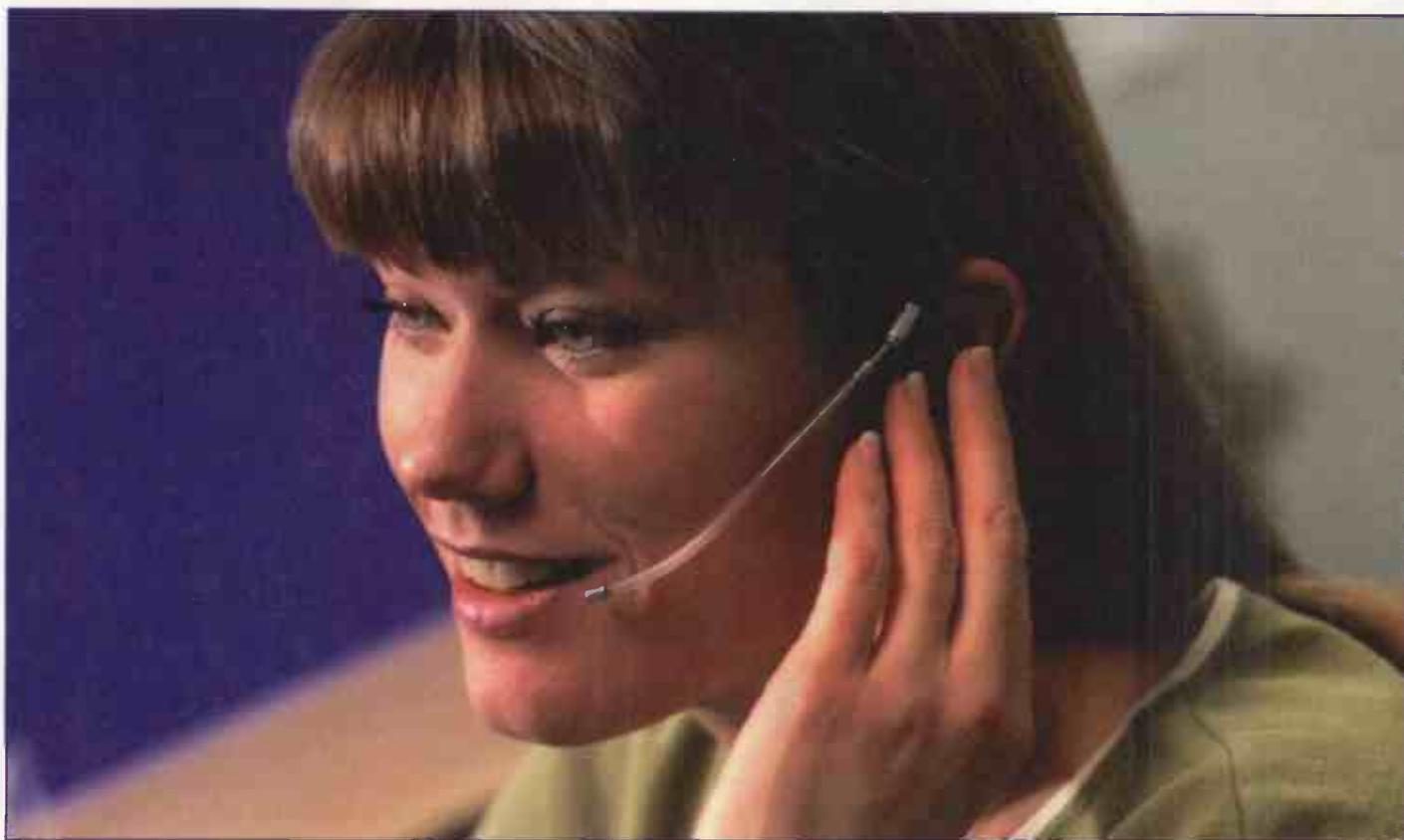
## Table of features



PRODUCT	PHOTOSUITE II	PICTURE IT! 2	PAINT SHOP PRO 5	PROFESSOR FRANKLIN'S INSTANT PHOTO EFFECTS	PHOTO EXPRESS 2
MANUFACTURER	MGI SOFTWARE	MICROSOFT	JASC	STREETWISE SOFTWARE	ULEAD
contact No	MGI software	Microsoft	Digital Workshop	Guildsoft	BIT
Tel	01628 680227	0800 002000	01295 258335	01752 201706/8	01420 83811
Web	www.mgisoft.com	www.microsoft.com	www.jasc.com	www.guildsoft.co.uk	www.ulead.com
Price ex VAT	£ 41.70	£ 42.54	£ 59.93	£ 25.89	£ 29.74
Price inc vat	£ 49.00	£ 49.99	£ 69.95	£ 29.95	£ 34.95
Layers/objects	2	2	4	N	3
Special effects	1	2	3	3	3
Colour correction	1	1	2	3	4
Web support	2	X	3	3	3
Animation	X	X	✓	X	✓
Cloning	X	X	3	X	3
PS Tablet support	X	X	X	X	X
Multiple/ Selective undo	M	X	S	M	X
Flashpix support	✓	✓	✓	✓	✓
Projects	✓	✓	X	✓	✓
Text	2	2	2	2	3
Album	✓	X	X	X	✓
Selection Tools	3	1	3	✓	4

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# Editor's Choice

Home photo-editing is easy. Here is our summary of **snappy photo-editing** software to suit you.

Photo editing is becoming the consumer killer app for the late nineties. There are few, if any, home applications where the PC has so comprehensively taken on an existing technology (film) and made it quicker, simpler, and cheaper than it was previously. This is a relatively new development, though, and the software industry is only just catching up with products that are truly consumer orientated.

Until recently, image editing packages looked and worked like any other windows package; all lengthy menus and impenetrable dialogue boxes. You needed to be both an expert in digital imaging and well acquainted with the software to attempt even the most straightforward operations. In this



▲ ULEAD PHOTO EXPRESS 2



market, developers competed on features, adding more effects and tools with every new version. But as home photo editing becomes a reality, it is interface design rather than features that separates the top packages from the merely adequate. Those which succeed have focused from the outset on what consumers want, rather than on what the technology can provide.

The first to try this approach was Adobe. With PhotoDeluxe 1, the company successfully provided many of Photoshop's sophisticated tools and features in an intuitive, easy-to-use format. When Adobe released

PhotoDeluxe 2, rather than add a raft of new features, it further improved the interface by, for instance, reducing the number of steps required to complete projects. Where Adobe has led, others have followed, and a loose-knit standard seems to be emerging.

Ulead's PhotoExpress, MGI PhotoSuite II, and Microsoft PictureIt! all opt for a dual photo-editing/project approach. First, you retouch and edit your pictures, then incorporate them in a publishing project. Another thing these applications have in common is that they provide space on-screen for project and photo libraries, or albums. And one thing all are attempting, some with more success than others, is to limit what's displayed on-screen, be it editing tools or other information, to only what you need for the task in hand.

**PhotoDeluxe** has held top spot among the consumer titles for a long time. Although much of the competition has caught up, few have surpassed it, so it is **Highly Commended**.

It has an excellent range of guided projects combined with powerful tools. Its tabbed, panel-guided, project approach remains one of the most accessible methods for achieving results quickly and easily.

**Paint Shop Pro 5** is also **Highly Commended**. This may seem a strange choice because, in terms of interface design, it has none of the new consumer features mentioned above and belongs to what you might call the unreconstructed school of image editing. It does, however, offer a remarkable range of features and the kind of flexibility and power you'll find only in professional packages. It's shareware, too, and it includes one of the best little animation applications around in the form of Animation Shop.



▲ ADOBE PHOTODELUXE 2



**Ulead Photo Express** is our **Editor's Choice**.

It includes everything that's best about the other packages. In photo mode you have the option of pre-set editing modes or custom adjustments for each function. So, in addition to the simple fast-track route, there's more power and control available for those who want it. And the custom options are almost as easy to use as the pre-set ones.



▲ PAINT SHOP PRO 5



Its interface is clearly structured and every aspect has been considered. The command panel, toolbar and options panel work together to provide the resources you need at the appropriate level for the task in hand. Ulead has succeeded superbly in removing the frustration factor involved in getting to grips with digital pictures: PhotoExpress II is a pleasure to use.

• See our group test next month of professional-level photo-editing packages.

# Christmas Feast

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November 98

### PC Home

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DIGITAL VIDEO>>

# group test



# Straight to video

**Videoconferencing, digital camcorders: digital video promises much, but you need to know just what it can deliver, and when. We round up the facts and press play.**

**Y**ou've heard the hype and seen the ads, but there is much, much more to the digital-video revolution than Sky Digital and BBC Choice. Digital camcorders, DVD, video capture and video conferencing are all opening up a world of possibilities undreamt of a few years ago. The advantage of digital video over analogue is immediately apparent to anyone who has tried to work with either. Digital offers crisper, cleaner images, and, of course, for the PC user it is much more exciting. Video recording and editing has been opened up to anyone with a reasonably up-to-date PC and is no longer the preserve of the professional. For anyone who has tried to edit home movies using their VCR, the latest digital camcorders and video capture cards come as a welcome relief. In this group test we line up and review the products that would be a boon to any amateur film maker. You will doubtless have been tempted by a DVD drive. Before you hand over your credit card, do your bank balance a favour: read our expert guide to all the issues involved, and check out our tests on the best drives available. And whether it's for business or just to stay in touch with friends and family over Christmas, videoconferencing is the solution. We look at systems aimed at power users and at the home market — there is even one which does not need a PC.

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*Contributors: Adele Dyer, Gordon Laing, Paul Trueman, Nik Rawlinson and Andy Shaw*

*Illustration by Daniel Mackie*

# DVD

DVD is the **future of software delivery** and a neat way to watch your favourite movie. Here's how...

Wherever you go, someone's talking about playing DVD movies on your PC. Well, the marketing people are anyway. But what if you want to watch the movies on your TV? Can you get around regional coding and confidently import US titles? What sort of hardware and software will you need? As usual, many questions; as you'd expect, we have all the answers.

First a quick word on the DVD format itself. DVD discs look just like CDs, but thanks to finer tracks and pits, they can squeeze on at least seven times as much information. DVD's standard capacity may be an ample 4.7Gb, but this can be immediately doubled to 9.4Gb by using both sides of the disc. Yet more cunning is the ability for the laser to refocus onto a second layer of information, increasing the capacity of a single-sided disc to 8.5Gb, or a double-sided disc to a whopping 17Gb. The possibilities offered by this sort of capacity have resulted in DVD being nicknamed the Digital Versatile Disc.

The best known application for DVD is for watching movies at home. Even using a single-sided, single-layer disc, it's possible to store a full two-hour movie at a quality much higher than VHS or, better still, Laserdisc. With all that space on a disc, it's also possible to store an album of uncompressed music at 24-bit/96kHz, which hi-fi enthusiasts claim sounds much better than conventional 16-bit/44.1kHz CDs. With between seven and 24 times the capacity of a CD-ROM, imagine the possibilities for encyclopaedias and games: even the



CorelDraw suite could once again be sold on a single disc!

So what do you need to play DVD discs? In the home, most people will opt for a domestic player, which looks just like a CD player and costs around £500. This will play movie DVDs on your TV, audio CDs through your hi-fi, and most can support the forthcoming super-fidelity audio discs.

On your PC, you'll need a DVD-ROM drive. These look just like conventional CD-ROM drives, can read both DVD and CD discs, and cost around £100. Like CD-ROM drives they also come in ATAPI and SCSI versions, although the latter are much less common.

Already, some DVD-ROM drives are being described as double-speed or even faster still. Like CD-ROM drives before them, the faster you spin the disc, the quicker you can get the information off it. This is of particular benefit when running computer applications off a DVD disc or installing software, although some manufacturers have recently claimed that for smooth DVD movie playback on your PC, you should be using at least a double-speed DVD-ROM drive.

Most recent drives are capable of this or faster — Pioneer's latest model boasts six-speed for DVD and 32-speed for CD. It's certainly worth considering a brand-new model of DVD-ROM drive, since these are also more compatible with the variety of rewritable DVD formats available now or under development.

## Video

DVD movies compress their video using the MPEG-2 system and hence require some kind of MPEG-2 decompression or decoding before they can be viewed. This decoding is traditionally done by hardware fitted in DVD players or on an optional PC expansion card bundled with most DVD-ROM upgrade kits. Don't, however, assume that all PCs

◀ **VIDEOLOGIC'S DVD PLAYER OFFERS HARDWARE DECODING OF MOVIES: NOTE THE VGA PASS-THROUGH PLUG**

fitted with DVD-ROM drives will come with hardware decoders as standard. Normally, your existing graphics

card is connected to the decoder card which is then connected to your monitor, so that both the standard Windows desktop, along with the decoded video, can be viewed on the same screen. Most decoder cards employ external analogue VGA pass-through cables to your graphics card, but whatever the manufacturers tell you, there is a very slight drop in image quality of your standard Windows desktop when passed through another card.

Most MPEG decoder cards also feature standard composite and sometimes superior S-Video plugs to connect directly to a TV set. You won't see the Windows desktop, but you will see full-screen decoded video. If you only ever want to play DVD movies on your TV, then you could reason that the VGA pass-through cable is unnecessary and leave your monitor directly connected to your graphics card. While this works with Creative Labs' DVD Encore bundle, VideoLogic claims it won't with its recent DVD Player, which relies on your graphics card for sync signals [see "Reviews", p99].

## Audio

The vast majority of DVD movies feature a Dolby Digital soundtrack. While Dolby Digital (also known as AC-3, after its compression algorithm) can supply plain-old stereo, it is most exciting when delivering digital surround sound. It does so using six separate channels: three for

D I G I T A L  
**dts**  
S O U N D

the front, two on the rear, and one for a dedicated sub-woofer. Since this is in effect five full-range channels and one narrow-range for sub-bass only, it is known as a 5.1 system. Decoder cards can take this 5.1

▲ **DTS BOASTS BETTER SOUND QUALITY THAN DOLBY DIGITAL, BUT THE FIRST DTS DVD TITLES HAVE BEEN DELAYED UNTIL EARLY 1999**

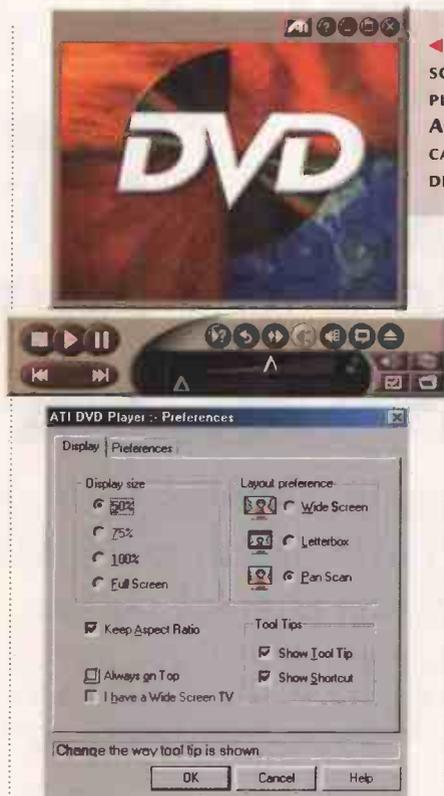
soundtrack and down-mix it into two-channel analogue stereo which can be passed through your sound card, on its way to your PC speakers or hi-fi. Most decoder cards can also supply the raw Dolby Digital information through a phono socket to an external home cinema processor to access the full 5.1 channels, although you will of course need the required speakers and amplification to hear it.

**Dolby Digital** isn't the only 5.1 surround format. The same people who developed MPEG-2 for video encoding have a 5.1 audio system which was originally going to be standard on all European movies until Dolby got its foot in the door. There's also DTS from Digital Theatre Systems, which uses less compression to provide superior sound quality but therefore also requires around four times the space as Dolby Digital. Both MPEG 5.1 and DTS are optional extras for DVD movies and, like Dolby Digital, you'll need an external processor to decode their full 5.1 channels. There are a handful of European titles from Polygram with MPEG 5.1 audio, but sadly the initial US roll-out of DTS DVDs continues to be delayed.

## Software

All PC decoder cards come with software utilities for playing the movies, which allow you to navigate the disc and its options such as choosing the desired subtitles or soundtrack. However, given a powerful enough processor, it is in fact possible to decode the video and audio through software alone. Zoran was first on the scene with its SoftDVD player which could perform full-screen full-motion decoding using a fast Pentium II processor — anything over 350MHz should do. More recently, some graphics cards have featured motion compensation in hardware to help the software decoding along. ATI was the first to implement this with its Rage Pro AGP products in conjunction with Zoran, and claims a 20 to 30% performance increase over using just software decoding alone. Software decoding is great for viewing movies on your PC monitor, but what if you want to connect your TV? Without the suitable plugs you'd have found on a hardware decoder card, you're stuck. Your graphics

▶ **CAN'T FIND ANY DVD TITLES IN YOUR LOCAL STORE? THEN HOW ABOUT BUYING REGION 1 US MOVIES OVER THE WEB**



◀ **ZORAN'S SOFTWARE DVD PLAYER FOR ATI AGP GRAPHICS CARDS: NOTE THE DISPLAY OPTIONS**

card may feature composite or S-Video outputs you could use, and you'll be able to hear down-mixed stereo from your sound card, but the chances of having a socket through which the 5.1 audio can be routed, is fairly unlikely.

## Regional coding

To prevent pesky importers messing up Hollywood's global distribution schedule, almost every DVD movie has regional coding. The world is divided up into six regions (North America is Region 1, while we're in Region 2 with the rest of Europe and also Japan). Domestic DVD players are forced to play titles from their



native region only, unless sneakily modified by a third party. When playing DVD movies on your PC, the regional coding is checked out

by your software player, which normally asks you what region you're in during installation. Most players allow you to change the region up to five times, which means you could install your desired regions on separate Windows hardware profiles and effectively choose your region when starting your PC.

## Picture quality

Anyone who's watched video playback on a PC monitor knows it looks quite different to the TV, due to different types of resolutions, phosphors and shadow masks. It tends to look sharper and with more contrast — not necessarily wrong, but different, unfamiliar, and usually, as a consequence, less preferable. Most decoders also offer some kind of interpolation to scale the picture to fill your screen regardless of your resolution. This too can look strange, with many people preferring to set up a hardware profile running at 640x480 pixels just for playing movies. The good news is that when plugged in to your TV, the picture can be pretty much as good as a domestic DVD player. Where possible, always use the S-Video connection, then sit back and enjoy a picture far superior to VHS.

## Conclusion

While undeniably neat, you have to ask yourself why you'd want to play DVD movies on your PC. Starting up your computer is not quite as convenient as switching on a domestic player, and they do tend to whirr annoyingly in the background. For the best picture and sound you'll want to connect your DVD player to your TV and hi-fi, but how many people have their PC in the same room? And once you've settled down to watch the film, what happens when the phone rings? Very few PCs come with remote controls. So saying, DVD is the future of software delivery and will become as ubiquitous as the CD-ROM drive is today. When buying a new PC, it's worth specifying a DVD-ROM drive; and those living with CD-ROM drives today should consider upgrading in the near future.

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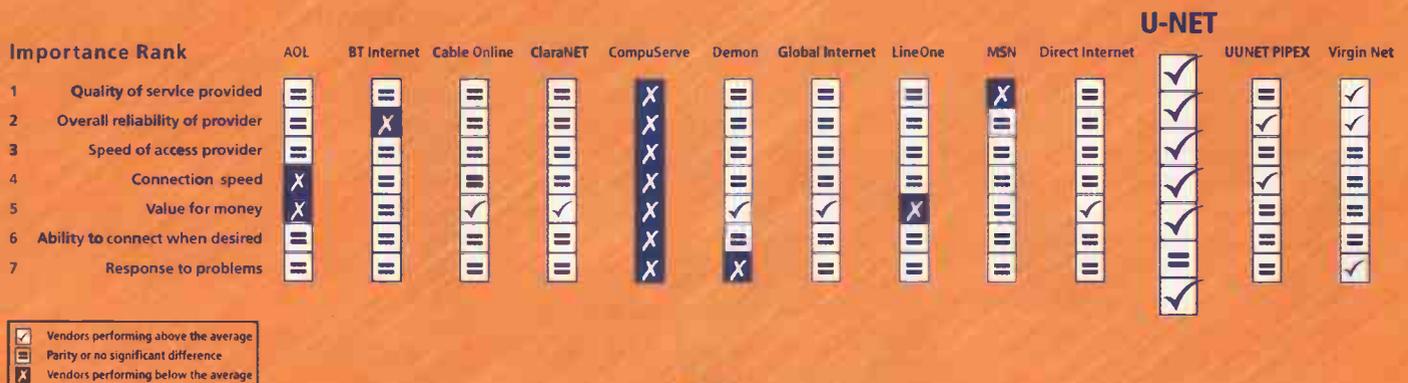
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## Sony DDU220E

Sony has entered the DVD fray with a third-generation 5X drive that can also read CD, CD-R and CD-RW. The DDU220E is the first DVD to employ CAV (constant angular velocity) technology, first used in 32X CD-ROMs, which reduces the amount of heat at the spindle motor.

Sony is claiming transfer rates of between 2.7 and 6.9Mb/sec, an impressive increase over the 2X drives. Like the drives currently on the market from Hitachi and Philips, the Sony unit is bundled with the RealMagic



Hollywood Plus MPEG-2 decoder card — unlike the Creative Labs DVD fully integrated solution which uses the company's own decoder, the DXR-2. The RealMagic card was easy to install and functioned perfectly once the driver diskettes were loaded up. An impressive decoder aimed at the home user who wants to convert their PC into a DVD player, the Hollywood Plus has S/PDIF output for Dolby Surround Sound, with its six channels available through a suitable amplifier. The Sony drive was recognised immediately, and we

were viewing a DVD movie within seconds of rebooting the PC.

To begin with we were running the movies on a powerful PIII350 PC, so it wasn't surprising that the images were clean and ran flawlessly. When we disabled the MPEG-2 card in the hardware profile and ran the film using the popular Zoran software supplied, the processor couldn't quite cope with the extra

workload of decoding the MPEG files through software, and the film began to drop frames and lose fluidity. Bearing in mind that the processor was a PIII350, the poor soft-DVD performance makes the point quite succinctly that a 5X DVD drive won't make much impact on performance. The bottleneck in the system occurs with the CPU being unable to perform the processing task without hiccups.

### PCW DETAILS



**Price** £249 (£212 ex VAT)

**Contact** Sony 01932 816660

[www.sony.co.uk](http://www.sony.co.uk)

**Good Points** Excellent picture quality and sound.

**Bad Points** Sony hasn't come up with its own decoder yet.

**Conclusion** An impressive way to turn your PC into a DVD player.

## Panasonic SR8582 DVD-ROM

Keeping up with new technology needn't cost the earth and can sometimes even make sense. With the DVD revolution seemingly around the next corner, it would be a short-sighted individual who replaced an ageing or ailing CD-ROM drive with a new model that lacked the ability to play this next-generation media. Panasonic's drive-only option is a cost-effective way of preparing for the DVD revolution. Straight out of the box it's a simple upgrade, slotting neatly into the 5.25in gap left by a retiring IDE CD-ROM drive:

hide the DVD logo, and it would be hard to tell



what kind of discs it accepted. In terms of CD-ROM performance, tests placed it in an equivalent position to mid-range drives, peaking out at 25X performance. Added to this, of course, is the ability to run DVD-based software at double the standard speed when it becomes more readily available.

One area that is lacking is MPEG-2 capability, which would allow the playback of movies on DVD Video. As our tests on the Sony drive [above] show, you should not depend on your CPU alone to play

back DVD movies satisfactorily through software. However, many modern graphics cards come with this capability built in, so movie buffs should check their PC before writing off this drive on that count. Movies will probably be a key consideration when purchasing the drive,

though, since the majority of currently available DVD software is still restricted to video.

Third-generation models from other manufacturers are waiting in the wings, although these are likely to be priced at a real premium while the early adopters take first pickings. For those of us willing to accept less for a more reasonable price, this second-generation drive balances a significantly lower price with a creditable performance.

### PCW DETAILS



**Price** £147 (£125 ex VAT)

**Contact** Panasonic 0800 444220

[www.panasonic.com](http://www.panasonic.com)

**Good Points** Good balance between price and performance.

**Bad Points** No MPEG-2 capability for running available DVD software.

**Conclusion** A convenient path into DVD without premium pricing.

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# Digital Camcorders

Your modest attempts at filming family and friends could **benefit greatly** from a switch to digital.

**W**ith the advent of digital TV, film and TV programme makers are switching to digital as the ideal way of recording. But it is not just the professionals who get to use the best equipment. Since the first digital camcorders appeared back in 1997, they have become increasingly popular for two fundamental reasons: they produce better-quality video and audio, and the images they capture can be copied without degradation in quality.

**Digital camcorders** work in much the same way as digital cameras in that the image is captured using a CCD (charged coupled device), then the signal produced is converted into a digital format and saved onto a storage medium. Unlike photographic film, however, video is relatively low resolution: PAL displays images at 768x576 at just 25 frames (or 50 fields, i.e. interlaced frames) per second.

Digital video offers definite advantages over analogue, giving crisper edges and finer details, and as there is no signal interference you won't get those

annoying white lines across the picture. In addition, the audio track is recorded in 16-bit, which gives CD-quality sound.

But the most compelling reason to opt for digital over analogue is that the quality is not reduced when you copy it. Each time you copy an analogue signal, "generational loss" occurs, meaning that the image quality is degraded. The more times you copy, the more degradation that occurs, which can cause problems when you need to edit film more than once. Digital images, on the other hand, can be copied as many times as you like without fear of degradation, which again has a knock-on effect with degradation-free editing.

On the downside, digital video requires a fair amount of room on whatever storage medium to record just a few seconds of video. For each pixel of a single frame of PAL video, three bytes of data are required to store its red, green and blue colour components. So, one frame needs 768x576 x 3 bytes, making 1.266Mb before compression. Multiply this by the 25 frames needed each second for the eye to see continuous movement,

and you have a massive 31.64Gb requirement for just one second of video. And this is not even using the high resolutions and refresh rates of HDTV. The obvious answer is to compress the data, and there are numerous ways of doing this, notably DV and MPEG.

## Digital Video (DV)

The most common format used by digital camcorders is DV (digital video). Panasonic and Sony were the first to use this standard on their camcorders, although Panasonic did not use the DV output facilities included as part of the DV standard. Both companies have announced their own extensions to the standard — Panasonic with PVCPRO in '95, and Sony with DVCAM in '96, although for their consumer digital camcorders both manufacturers have stuck to a more basic form of DV, in common with just about every other maker of digital camcorders.

DV uses a three-stage process to compress data. The first stage uses discrete cosine transform (DCT)

### Canon DM-MV1

**You could be** forgiven for thinking that the DM-MV1 is actually a stills camera. It has been designed specifically to look like an SLR, which has its good and bad sides. It has easy-to-use buttons, all placed where you can easily feel for them as you operate the camera. It has a viewfinder, but only a very small LCD screen that tilts backwards, making it hard to use in sunlight. However, while the design suits an SLR where you need to hold the camera still, it works less well for video where you want to move the camcorder around. Added to this, the DM-MV1 is quite heavy at 930g (just over 2lbs) and while there is optical image stabilisation built in, this reviewer found it all too easy

to get wobbly shots. The quality of the video was high, however, helped by the progressive scanning technique of the CCD, which takes a full frame 50 times a second, instead of 25 frames a second from 50 interlaced fields.

**Price** £1,500 (£1,277 ex VAT)  
**Contact** 0121 680 8062

[www.canon.co.uk](http://www.canon.co.uk)



### Panasonic NV-DS77

**Cute, very, very cute**, is the only way you can describe this adorable camera. At just 590g (1.31lbs) it is light, you can easily hold it in one hand, and there is a stabilising function to reduce camera shake. Your fingers are automatically positioned over the relevant buttons, such as the wide and telephoto control. Again this control is smooth, and gives you 10X optical zoom. The flip-out screen is a huge 3.8in across. This makes a big difference when trying to line up your shots, but it will eat your Lithium Ion batteries for breakfast. To compensate, Panasonic has included a good viewfinder and

a battery recharger which can hold two batteries at a time. The 680,000 pixel CCD gives an excellent picture.

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**Sharp VL-PD1**

The most noteworthy feature on this camcorder is the 4in flip-back, touch-screen LCD. The screen folds flat back against the body of the unit so you can play back your recorded video with the screen at a comfortable angle. It will also turn around so you can film yourself, although as you will more than likely be looking to one side at the screen, rather than at the lens, this can be less successful than it seems. The functionality is controlled by touching the on-screen menus, but this quickly covers the screen in sticky fingerprints. The viewfinder is fixed in place so you cannot choose the most comfortable viewing angle. The focusing is sluggish in poor

light, and the telephoto (40X digital but no optical zoom) has a horrible habit of sliding back to the default setting. Still, at 635g (1.4lbs) it is light and it does have a larger than normal

Li-Ion battery to give a claimed two hour battery life.

**Price** £1,200 (£1,021 ex VAT)

**Contact**  
0800 262958  
[www.sharp.co.uk](http://www.sharp.co.uk)

**Hitachi MP-EG1A**

While not new, this camcorder does stand out from the crowd. It is the only one we saw which does not use MiniDV cassettes, instead recording in MPEG-1 straight on to a PC Card hard disk, and so feels like a camcorder intended for use with a PC. There is no viewfinder, just an LCD screen, and no optical zoom although it does have 6X digital zoom. The head swivels round 180 degrees to capture video at any angle, and all the buttons for operation are on the back panel. The unit is extremely

easy to get to grips with, as everything is self-explanatory.

Through MPEG-1 video is recorded at a very low resolution, just 352x240, but still images can be captured at 704x480. The hard disk supplied is 260Mb, which should store 20 minutes of video.

**Price** £1,000 (£851 ex VAT)  
**Contact** 0181 849 2000

[www.hitachi.co.uk](http://www.hitachi.co.uk)



compression, which strips away information that cannot be seen by the human eye. It separates the information from each pixel into brightness and colour and then samples this, favouring colour over brightness, which gives a highly accurate colour representation but cuts down the data by a third. It is compressed further by bunching colour information in adjacent pixels, and finally, hardware compression and an algorithm similar to that used by M-JPEG scrunches the information down even further.

The DV standard also supports PCM (pulse code modulation) stereo, a marking you might find stamped on the speakers of your digital camcorder. PCM refers to a system for digitising analogue sound. Using it, you can either record 16-bit audio — i.e. CD-quality audio — or in 12-bit mode you can record two pairs of audio tracks, one for stereo sound recorded at the time of the video and one for music or narration added later. Probably of most relevance for PC users is that it supports IEEE 1394 as a means of transferring the digital video from the camcorder to a PC. We'll look at 1394 a little further on [p223].

DV is recorded onto MiniDV cassettes. These are tiny things, but can hold a whole hour of video. They also have the advantage of having very low drop-out rates, unlike Hi8 which readily loses information, no matter how new the tape.

Not all manufacturers have adopted DV. Two years ago Hitachi released a digital camcorder based around the MPEG standard. Although this camera is relatively old, it is still one of the better cameras for PC users.

**MPEG**

MPEG comes in three flavours:

- the original MPEG-1 used as an alternative to QuickTime and the like;
- the widely supported MPEG-2; and
- the up-and-coming MPEG-4, intended for use in interactive set-top boxes.

The MPEG-2 standard is becoming ubiquitous since it has been adopted as the compression standard for DVD. It achieves a high compression rate by using the JPEG algorithm, a "lossy" compression standard, meaning that data is stripped away to reduce file sizes although the reduction cannot usually be seen by the human eye. It then stores only the changes between one frame and the next, so any data which stays the same for each frame is automatically dumped. This results in variable compression rates.

MPEG-2 allows for various resolutions and frame rates, supporting everything from PAL and NTSC through to HDTV and CD-quality audio.

However, on all but the most powerful systems, decoding MPEG-2 for playback will require dedicated hardware. Coding MPEG-2 requires considerable processing power and it is probably this stumbling block that has prevented the standard from being more widely adopted on camcorders.

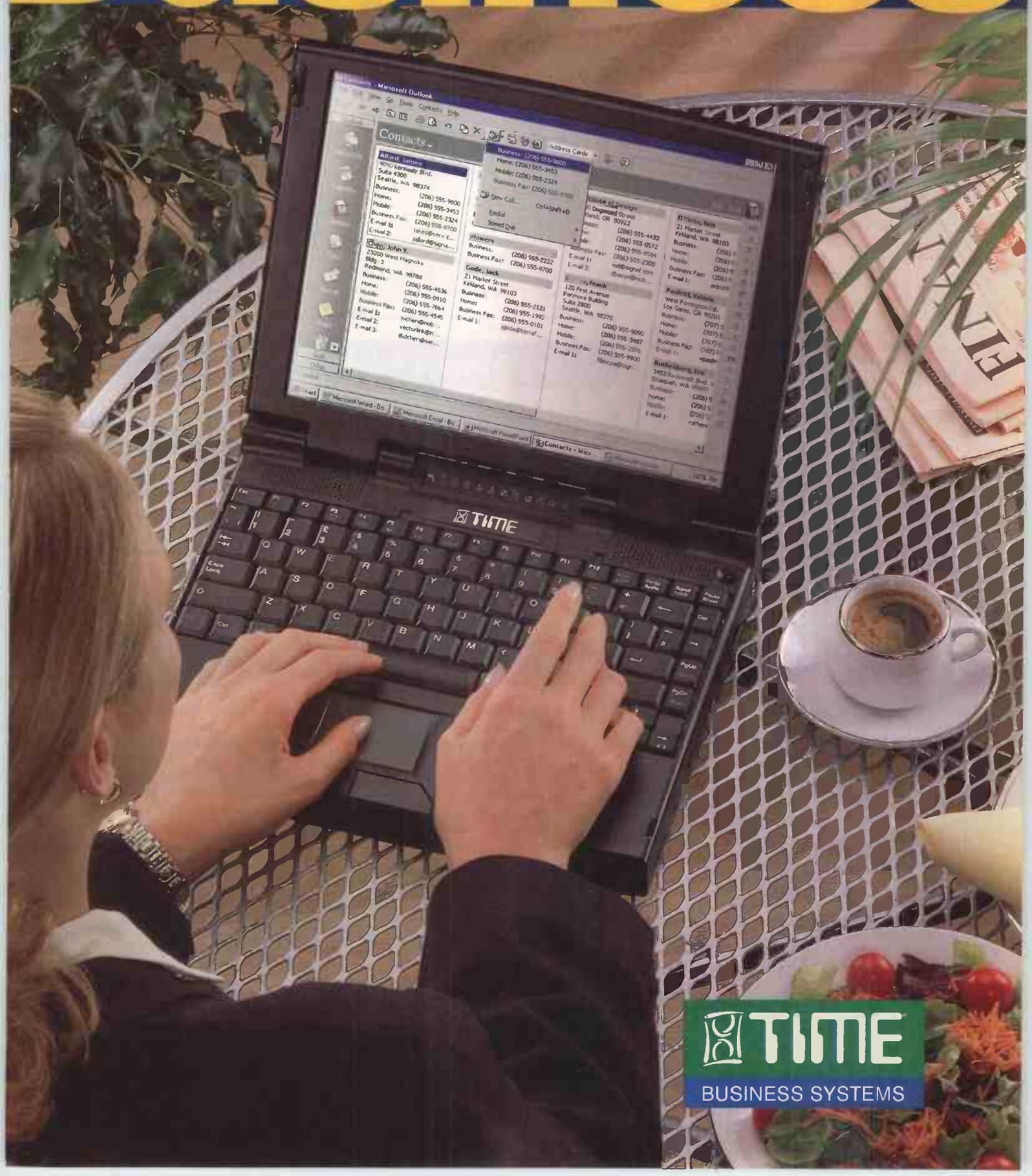
As MPEG-2 is the default standard used by DVD, all digital TVs will be able to display MPEG in the future. It should be pointed out, however, that DV and MPEG are not compatible: if you want to input an MPEG file into a DV camcorder,

## **MPEG-2 supports everything from PAL and NTSC to HDTV and CD-quality audio**

you will have to first convert it to analogue and then reconvert it into DV format. Of the cameras we looked at for this group test, only the Hitachi MP-EG1A used MPEG-1 as its compression format. As a result, it was the only one to record its data not onto DV tape, but onto a PC Card hard disk. For the PC user this is perhaps more convenient than having video held on DV tapes, as the data on the PC Card disk can be quickly downloaded directly onto a notebook, so overcoming the problems associated with the other connections offered on digital

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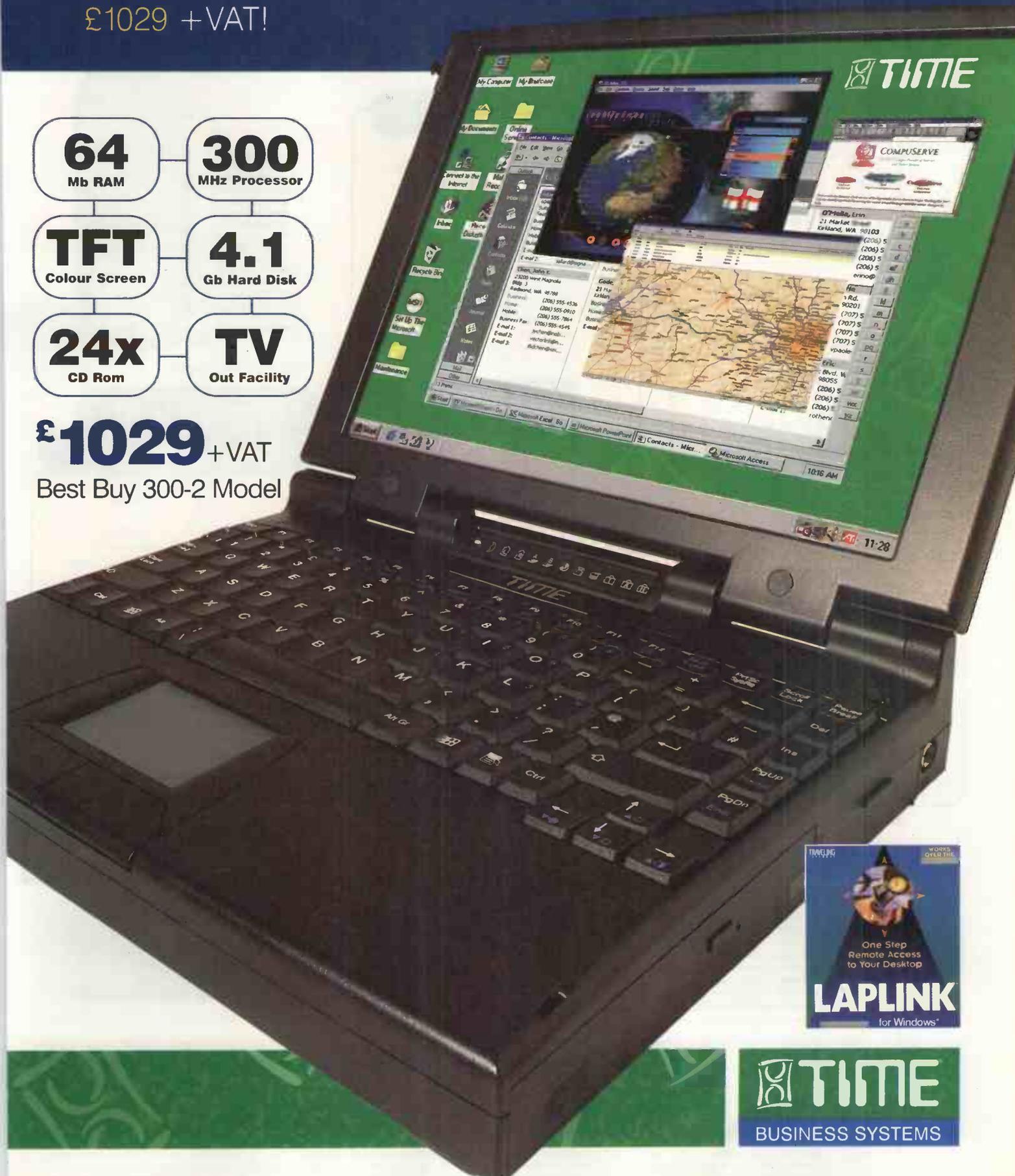
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- **RAID:** supports in PCI slot 2 for AMI Raid controller
- **Wake-Up:** System supports modem and wake-up
- **Graphics:** Cirrius Logic 2Mb Integrated Graphics Card.
- **Server Mechanics:** two 3.5" exposed, Eleven 5.25" exposed drive bays. Dual ATX power supply. Dimensions in mm 376 (W) x 583 (D) x 580 (H)
- **Motherboard:** Full size Intel N440BX ATX motherboard with Dual Pentium II support. Six expansion slots (2 ISA, 4 PCI, 1 shared), Intel 440 BX chipset, Phoenix BIOS. All standard ports including parallel EPP/ECP and two 16550 high speed serial ports.
- **Standard Features:** 105 Keyboard, PS/2 mouse, 3.5" 1.44Mb floppy disk drive
- **Software:** Microsoft Windows NT Server (full version) with 5 client licences. Intel LanDesk, Server Manager, NAI Antivirus and WebScanX

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### Options

for Business Range Only

- Intel PCI 100/10 Ethernet card .... £49 +VAT = £57.58 inc VAT
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- 10m cable PC to hub ..... £5 +VAT = £5.88 inc VAT
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- Headset microphone ..... £9 +VAT = £10.58 inc VAT
- Sound Force 525 speakers ..... £15 +VAT = £17.63 inc VAT
- Screen upgrade 15" to 17" .... £129 +VAT = £151.58 inc VAT

## MainStation 333M-2

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- 56k Flex fax/data modem
- 512k Pipeline burst cache
- 32 Speed MAX CD ROM drive
- 3D wavetable sound (speakers optional)
- 4Mb SIS Advanced Graphics using 4Mb system RAM with MPEG & Microsoft direct 3D
- 15" SVGA NI 0.28dp colour screen
- ATX PC97 motherboard year 2000 compliant with all standard ports
- IBM AntiVirus • Lotus SmartSuite
- Midi-tower system case • Microsoft® Windows 98

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- 32 Speed MAX CD-ROM drive
- 3D wavetable sound (speakers optional)
- 4Mb SIS Advanced Graphics using 4Mb system RAM with MPEG & Microsoft direct 3D
- 15" SVGA NI 0.28dp colour screen
- ATX PC97 motherboard year 2000 compliant with all standard ports
- IBM AntiVirus • Lotus SmartSuite
- Microsoft® Windows 98

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## Intel InBusiness™ Internet Station

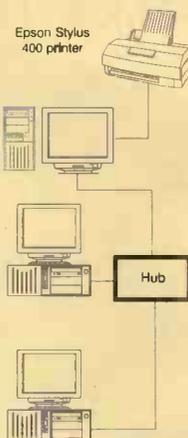
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FS 450-2 server shown

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## Sony DCR-PC1

Sony was the first manufacturer to produce a digital camcorder and, like in so many areas, its products are considered some of the best around. We first looked at the DCR-PC10 (pictured); this has now been replaced by the DCR-PC1. The PC1 looks very similar and has similar features to the PC10, but is 25 percent smaller, making it around the size of a conventional compact film camera. Its small size, light weight and well-placed buttons make it very easy to use. Both camcorders have optical and digital zoom, 12X and 150X respectively on the PC10 and 10X and 120X on the PC1. Both have good-quality lenses, LCD screens and viewfinders, and Super SteadyShot image stabilisation. However, the small size of the PC1 makes it the most desirable of the two, while its excellent lens makes it one of the best small digital camcorders.

**Price (PC1)**  
£1,400 (£1,191 ex VAT)  
**Contact** Sony 0990 424424  
[www.sony.co.uk](http://www.sony.co.uk)



camcorders. However, using MPEG-1 the Hitachi camera captures images at 352x240 pixels only.

## Connections

The ability to capture clear, sharp images is nothing if you cannot download those images to another source for editing and playback. For PC users, the best thing about digital video is that it is in the right format for them to download direct to

shame, as this would give good-quality playback on a TV. S-Video and composite are standard on camcorders, TVs and video capture cards. S-Video gives a far superior picture to composite, as it separates colour information from brightness and transmits them in two separate channels over the cable. It favours brightness over colour, just as TV signals do, because the human eye detects brightness better than colour. Composite just takes everything and

the PC without analogue-to-digital conversion. With the exception of the Hitachi, all the cameras we looked at had three connections: composite, S-Video and DV-out. Some also provided a SCART socket for connection to a VCR, although the ones we saw only took a composite feed, not RGB. In fact, none of the cameras provided a direct RGB connection, which was a

squidges it all down one video channel. However, both these connections are analogue and will convert the digital signal to analogue before squirting it down the cable, so your crisp, clear digital video will be marred at this point.

For high speed and the best quality, you need to look for DV-out, or iLink as some of the camcorder manufacturers call it, or 1394 as everyone else knows it. It is the perfect bus for digital editing because it can transfer data at 100, 200 or 400Mbps — much faster than USB and, at the higher speeds, faster than 100BaseT Ethernet networks.

## IEEE 1394

You can set up peer-to-peer networks using any IEEE 1394 devices. This means you don't have to use a PC at all, but can simply connect one 1394 device directly to another. However, 1394 is expensive to deploy as it needs two chips per device — one to handle the physical layer and one to handle the link layer in the connection protocol. Therefore, it is over-specified to handle the low bit rates needed for devices such as scanners and keyboards, but is perfect for devices needing high bandwidth.

At present, few PCs come with 1394 as standard, although it could easily be put on to motherboards in the future, together with USB, and many hard-disk manufacturers are considering adopting it in the future rather than SCSI. Adaptec has had a SCSI/1394 combo card, the AHA-8945, for over a year although it still costs £376 (£320 ex VAT). The much cheaper Adaptec AHA-8940 card only copes with still images over 1394.

## Taking stills on your camcorder

If you have a digital camcorder which lets you take still shots, why would you need a separate digital camera? Canon even tries to convince you of the convergence of these two mediums by making the DM-MV1 look and feel like an SLR camera. But mixing the two does not always make sense. Firstly, the resolution of video is low, and so the CCD used in most of these camcorders is correspondingly low. Typically, the stills images will be just 640x480 pixels, which is low compared to most of the latest crop of digital cameras. Printing an image of this size will give you a photo 2.1in by 1.6in at 300dpi or 4.3in by 3.2in at 150dpi. If you simply want images

to put on a web site, this should be fine, but if you want to make high-quality prints, invest in a separate digital camera. Pulling images off the camera isn't easy, either. Canon provides a serial link to a PC and the Hitachi's images can be pulled off using the PC Card, but otherwise it's a fiddly job. Searching for the right image on a DV tape which can hold 500 still images is time-consuming and difficult unless you use special software.

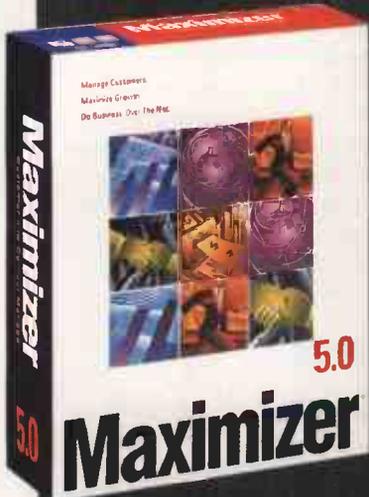
Digital camcorders do not come with some of the extras which are needed on a stills camera: there is no flash as standard on any of the cameras we saw, and only the Canon has an optional flash attachment.

**Most digital camcorders** come with a 1394/DV connection, not so they can be connected to PCs, but so that they are ready for the new wave of digital VCRs which are now appearing. Looking through the manuals that accompany these digital camcorders, you could be forgiven for thinking that no camcorder was ever meant to be connected to a PC. The only manual that even made mention of a PC was for the Canon, and then it was only to mention that still digital images could be downloaded over the serial port. However, most camcorder manufacturers do provide cables for 1394, so if you have the right connections on your PC or video, pat yourself on the back for having made some excellent purchasing decisions.

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# Video Capture

Everything you need to know about **capturing and saving** full-motion video.

**T**V tuner cards and video capture cards are not exactly new kids on the block, but they have been dropping sharply in price and even appearing on multi-purpose graphics cards. Saving moving video like this is resource-intensive. A 320x240 image, which is far from full-screen size, will occupy, on average, 2 bytes per frame. At 25 frames a second, and with a 3:1 compression ratio, you'll find yourself eating up your hard disk at a rate of 1.2Mb per second. A 30-minute clip of this size would therefore occupy a staggering 2.1Gb. But there is light at the end of the tunnel in the form of Digital VCR 2.0 from ATi. By reducing the quality and almost halving the size to 176x144, it squeezes 5.5 hours onto a 2Gb drive.

**If you still want** to capture full-motion video, disk space should not be your only consideration. Translating the analogue

signal into digital form and writing it to disk makes heavy demands on your processor. If you're running a 90MHz Pentium, you are unlikely to be able to capture anything more impressive than around 15fps, even at less than 320x240 resolution. Some cards, specifically the Matrox Marvel G200 [p226], include utilities to tailor video capture rates to your hard drive. Older drives are slower and unable to keep up with the high data transfer rates necessary. With over 3Mb of information being sent to it each second, anything more than a couple of years old is likely to start dropping frames and produce in a jerky result when you try to record full-screen PAL input.

Because of the difference in the way a computer monitor and a television are constructed, further distortion can occur. This is particularly evident when

the camera or a subject in the frame makes a swift movement. Because video images are interlaced, with every odd line being drawn before the even lines are even considered, the picture can have changed between line one (the first odd line) and line two (the first even line) being drawn. This sometimes results in

***If you want to capture full-motion video, disk space should not be your only consideration***

horizontal black lines across the image. This is less evident on a TV because the screen is coated with "slow phosphor". This takes longer to cool than the coating on a computer monitor and so the image on the odd lines is still visible while the even lines are being drawn.

## ATi All-In-Wonder Pro

**The All-In-Wonder Pro** has made a few appearances in high-end home PCs submitted for PCW group tests, and it's easy to see why. Available in both PCI and AGP versions, this graphics card incorporates TV and Teletext support and is supremely easy to install. All the necessary drivers can be found on the Windows 98 installation CD and need be supplemented only by the tuner

software on the bundled CD. The Teletext decoder incorporates TV Online, which gives a web-like slant to the rather primitive Teletext. The only channel we could find broadcasting to a UK audience and using this technology was German station ZDF, on the Astra satellite. When set to "multimedia mode", the traditional Teletext layout is lost and instead the pages are presented in Windows Terminal typeface. Users can click on red page numbers to be taken to the page without having

to type in the number. For traditional users, it offers the option of retaining Teletext's original look and feel. Images can be captured as either full-motion video, a series of stills or a one-off snapshot from the same interface that is used for viewing TV or video input, while the bundling of MGI VideoWave allows users to refine their captured clips and construct attractive presentations or home videos.



### PCW DETAILS



**Price** £129 (£109.79 ex VAT)

**Contact** ATi Technologies  
01628 533115

[www.atitech.com](http://www.atitech.com)

**Good Points** A well established, easy setup.

**Bad Points** None to speak of.

**Conclusion** A good all-rounder for the home power user.

Computer monitors, being built for accuracy rather than brightness, cannot enjoy this luxury.

Manufacturers attempt to combat this in one of two ways. The most obvious method is to de-interlace by keeping the odd lines on the screen while drawing the even lines between them. An alternative is what is known as vertical interpolation. Here, the even lines are ignored and only the odd lines are drawn. The card leaves enough space between each line to allow it to compare

one odd line of pixels with the next (5 with 7 or 29 with 31) and use a row of "average" pixels to fill up the gap. Specific TV commands, in the form of Intel's Intercast, are incorporated into Windows 98. This allows broadcasters to combine their programmes with HTML elements that provide interactive programming and online TV guides. Although Intercast was

used extensively during the 1996 Olympics in Atlanta, it is now in short supply.

On these pages we look at a small selection of cards catering for those interested in the merging of TV and PC technologies. Not all suit every need. The Studio 400 from



◀ WHEN YOUR MOVIE IS COMPLETE, IT'S TIME TO RECORD IT TO VIDEO



◀ THE MINIMUM OF BUTTONS MAKE MIROVIDEO'S VIDEO CAPTURE PACKAGE SIMPLE TO USE

Pinnacle excels at video editing but cannot tune into a TV broadcast. The Hauppauge WinTV, which can, supplements your graphics card, while the Marvel G200 from Matrox replaces it and touches most other bases at the same time.

In short, it is up to the individual to select the most appropriate product to meet their needs.

NIK RAWLINSON

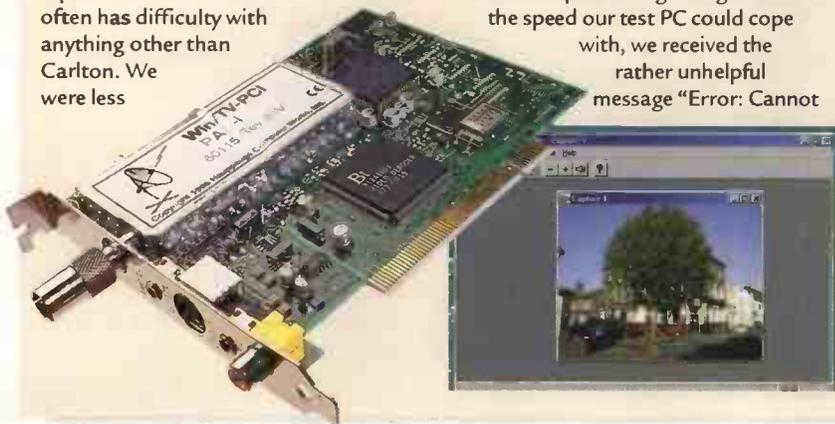
## Hauppauge WinTV

Installation of this card was simplicity itself. After it was popped into a spare PCI slot, Windows detected the new hardware and installed the relevant drivers from CD. We told it in which country we would be using it to watch television and it then performed a scan of all available channels within its frequency range. Using a standard roof-mounted aerial it managed to tune in to far more channels than any standard TV using the same connection. Picture quality was exceptional, even when resized to 800x600, with both Carlton and Anglia flavours of ITV (from London and Norwich respectively) flawlessly reproduced in an area that often has difficulty with anything other than Carlton. We were less

impressed after increasing our screen resolution to 1024x768, when vertical interference started to appear. Downloading Teletext pages was easy, although we were unable to display both Teletext and television on the same screen — it caused a lot of interference and made both indecipherable. A supplied lead allowed us to connect the line-out channel to the line-in channel of our sound card. This tuner does not replace the graphics card.

The video capture facility is very basic with "About" being the only option on the Help menu. When we tried to capture images larger than the speed our test PC could cope with, we received the rather unhelpful message "Error: Cannot

open the video input device" and had to work out how to solve this ourselves — even the manual didn't help. When we finally managed to capture video it performed well with small frame sizes, but it got so carried away that the icon turned into a permanent hourglass and the only way we could stop recording was to hit Ctrl-Alt-Del. This is in spite of the fact that the software limits captured frame sizes to 320x240.



## PCW DETAILS



Price £79 (£67 ex VAT)

Contact Hauppauge 0171 378 1997

[www.hauppauge.co.uk](http://www.hauppauge.co.uk)

**Good Points** Great TV picture at 800x600 resolution. Strong reception. Easy to install.

**Bad Points** Cryptic errors. Interference in some conditions. Could not display TV and Teletext together. Difficulty with video capture.

**Conclusion** Cheap and cheerful, and would suit most needs.

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CPU Rating	300 MMX	333 MMX	350 MMX
Price	£550	£575	£600
	Inc VAT	Inc VAT	Inc VAT

64MB SDRAM Add £32, 6.4GB HDD Add £30, Monster 2 3DFX Add £125 (With Games)  
15" Monitor Add £25, 17" Monitor Add £125, 56k Diamond Supra Pro Modem Add £45

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- 128MB SDRAM PC100
- 12.7GB Ultra DMA Hard Disk
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- DVD ROM / **CREATIVE** SoundBlaster Live!
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- PS/2 Keyboard & Mouse
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- 56k V.90 PCI Modem
- Windows 98, MS Works V4.5a

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## Matrox Marvel G200

The **Marvel** is a shapely blue box that sits on top of your PC case and connects your external video and other equipment to the card that sits inside your PC. This AGP card replaces the standard graphics card, leaving you with no less free PCI slots than you had before installation. Setting it up was simplicity itself and we needed to change only one default setting to tell it the country in which we would be watching TV. An analysis of the hard drives in our machine followed to determine

which had the best data transfer rate to support live video capture. When the tests had completed, we were able to capture full screen PAL (704x576) video at 25fps. The optional TV tuner has an impressive word-search function to scan subtitles and activate the recording function when it comes across a particular keyword, making it suitable for recording specific news stories.

**Recording**, it can take advantage of the MJPEG format, a Windows AVI (Audio/Video Interleave) format with extra compression used only by Matrox cards. A wide selection of complementary software ranges from games



and conferencing to image- and video-editing applications. The only minor difficulty we experienced was in having to remove previously resident video drivers from our test machine before installing the Marvel, although this is unlikely to affect home users who will not be regularly swapping a number of graphics cards in a single machine.

### PCW DETAILS

★★★★★

**Price** £199 (£169 ex VAT), TV tuner upgrade £75 (£64 ex VAT), DVD Video £58 (£49 ex VAT)

**Contact** Matrox 01753 665544  
[www.matrox.com/mga](http://www.matrox.com/mga)

**Good Points** 16-bit colour TV reception at 1024x768. Graphics-card replacement. Subtitle word search. Ease of configuration.

**Bad Points** None to speak of.

**Conclusion** Those who want to spend this much money won't find better than a Marvel G200.

## Pinnacle miroVideo PCTV

We were disappointed that we were unable to install this card under Windows 98 and so were forced to revert to using either Windows 95 or Windows NT. Once working, it was simple to use. The picture wasn't nearly as good as that produced by the Hauppauge WinTV [p226] but we were able to view Teletext and broadcasts at the same time, making subtitles a practicality even if they were in a separate window. Full-screen 768x576 resolution avoids scaling the image and maintains a 1:1 ratio to the original broadcast. An interface on the open end of the card allows a radio tuner card to be bolted on to increase the product's range of features. The bundled VidCon32 software catered for video capture. Users have the choice of capturing a series of stills to make up their AVI files or can simply hit the Record button for full-motion video. Kai's Power Goo SE allows users to manipulate captured images. Quick data transfer is ensured through the implementation of PCI bus mastering technology, while virtually any domestic video source can be connected with the incorporation of VHS and S-VHS ports. The miroVideo may not be the most feature-packed card in this grouping, but at this price you can't complain.



**Price** £59 (£50 ex VAT)  
**Contact** Pinnacle 01895 424228 [www.pinnaclesys.com](http://www.pinnaclesys.com)

★★★★

## Pinnacle Studio 400

The Studio 400 is slightly different to the other products reviewed here in that it is not a TV tuner or a graphics card but a dedicated video editor. The smart, purple box connects your PC to a video and camcorder, while the software makes it easy to import your video clips as a series of scenes that are displayed on the pages of a virtual on-screen book. These scenes can then be dragged and dropped on to the film strip at the bottom of the interface in the appropriate order. You don't need to preview your tapes to mark where the scenes begin and end. By playing them through the hardware, the purple centrepiece will recognise and mark where scenes begin, representing each new scene with a further thumbnail in the virtual book. On-screen titles and special effects are applied by dragging them on to the film strip. To save on rapid hard-drive consumption, the Studio 400 leaves the original footage exactly where it is. The only thing written to disk is a low-quality, highly compressed copy of the scenes that are not used in the completed production. When you have finished assembling your previews, the Studio 400's infra-red attachment lets you control your video and reassemble the film directly from the recorded originals.



**Price** £199 (£169 ex VAT)  
**Contact** Pinnacle 01895 424228  
[www.pinnaclesys.com](http://www.pinnaclesys.com)

★★★★★

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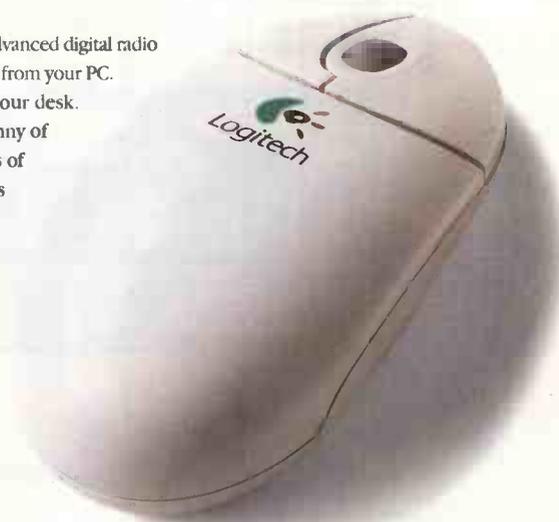


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# Videoconferencing

The last time PCW took a look at videoconferencing, it was clear that the big players like PictureTel and VideoLogic dominated, and the technology hadn't wholly migrated down to the lower end of the market. That has now changed. Of the five products we have reviewed this time around, there are two high-end packages but three desktop video solutions, including one that doesn't require a PC.

There is now a gamut of products under £100 that have made budget videoconferencing a reality using a variety of media, from the internet through normal telephone lines, to LANs and on to high-speed ISDN lines. This is not to say, however, that videoconferencing is about to be possible from wristwatches. One day, maybe...

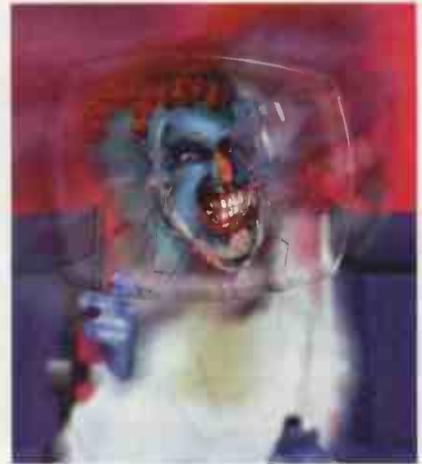
Grainy, murky images are still quite common when working with low-end cameras. Frame rates of between 5-15fps are common over a telephone link,

which appears jerky to the human eye used to a typical video rate of 30fps. But as our experience with the Kodak DVC 323 shows [opposite], it is possible to get a good-quality picture that isn't at the expense of frame rate. More of the work of compressing and decompressing the images to get them through narrow bandwidths can be handled through software by increasingly powerful processors.

Low-end cameras usually fall into one or two camps: those that use expansion cards, and those that connect straight into the parallel or USB ports.

## The professional view

In the professional solutions that hook up over LANs/WANs and/or ISDN lines, the quality of video camera is usually streets ahead of that available from the poorer cousins, and the picture benefits from the higher bandwidth available. Corporate videoconferencing is still the



Next Big Thing rather than a current phenomenon, but with Microsoft and Intel renewing and pushing their high-end videoconferencing with NetMeeting and Team Server respectively, and IBM/Lotus acquiring two specialist companies, DataBeam and Ubique, this can only be good news for high-end users.

## Intel ProShare Conferencing

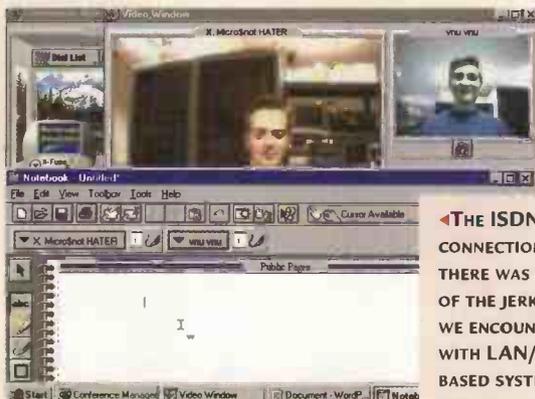
Intel's ProShare system is a well established product, aimed at the corporate market for whom data transfer is as important as visual communication. The 200 was about to be superseded by the 500 at the time of going to press, a cheaper, superior option that uses the PII processor for decoding, rather than the ISA cards in the 200.

The ProShare can be set up to work with a modem or LAN, although using a modem means you work on data only, not audio and video.

However, the system is really aimed at ISDN users. Other users will need the same connection of course, and the ProShare uses the H.120 data conferencing and H.320 video conferencing standards.

We set up the system to run over an ISDN line in the labs and it went relatively smoothly apart from installing the drivers. The hardware wizard couldn't detect the drivers from the CD automatically, as it said in the manual, so we had to browse through the disk to find them ourselves. Once we had done this, the rest of the setup was easy, and then we moved on to calibrating the camera. Connecting to another

PC is relatively easy: type in the number of the person you want to call, and they are informed by a pop-up graphic.



◀THE ISDN CONNECTION MEANT THERE WAS LITTLE OF THE JERKINESS WE ENCOUNTERED WITH LAN/MODEM BASED SYSTEMS

The ProShare system also allows multipoint conferencing between three or more users, application sharing, and the option to work on shared data during the call. Using the Notebook function, the file is copied by the ProShare application, allowing users to work on the one file simultaneously.

## PCW DETAILS



**Price** £1,327 (£1,129 ex VAT). ProShare 500 will be available for £586 (£499 ex VAT). A 500 upgrade kit is available for £370 (£315 ex VAT).

**Contact** Intel 01793 403000

[www.intel.com](http://www.intel.com)

**Good Points** Does everything you could want.

**Bad Points** A little troublesome setting up. Uses up two ISA slots.

**Conclusion** A classy videoconferencing solution.

## Kodak DVC 323

The grumbles around the office have been going on for over a year now; when, oh when, were manufacturers going to take up the USB (Universal Serial Bus) cause? With the market's acceptance of USB-friendly Windows 98, we are only now starting to see a notable number of products on the market.

The **DVC 323** is Kodak's update to the DVC 300, one of the very first USB



devices, and is an impressive piece of kit. Providing you have USB on your PC, and that it works, the installation is trouble-free. We wrestled with the camera for two hours on the first PC we tried, but to no avail. The drivers had to be updated from the Kodak web site, we were told. The PC finally recognised the hardware, but the new driver didn't fix the problem.

As if to thoroughly confuse us, the camera and software installed like a dream on the next PC we tried, and we were pleasantly surprised by what we saw. Kodak is using its own lens in the camera, and a 640x480 pixel CCD capable of taking video or stills, in up to 24-bit colour resolutions. It can manage 28fps in Wide Angle mode, and 30fps in Normal and Telephoto modes. The picture was sharper than most of the other cameras in this budget

range, and even recording at 640x480 the frame rate remains high. The basic software was PictureWorks Live, which was a joy to use: instantly comprehensible, with lots of well thought out drag-and-drop. There is also fun to be had with Kai's Power Goo, included in the pack along with Microsoft's NetMeeting and CU-SeeMe.

### PCW DETAILS



**Price** £160 (£136 ex VAT)  
**Contact** Kodak 0800 281487  
[www.kodak.co.uk](http://www.kodak.co.uk)

**Good Points** User-friendly software and excellent-quality video, and it looks like a Star Trek phaser.

**Bad Points** USB can be a little temperamental.

**Conclusion** A great toy that's a joy to use.

## Pace Colour Video Camera PCI

Unlike some of the other low-end videoconferencing cameras around just now, the Pace Colour Video Camera PCI works, as the quicker-witted among you will have picked up from its title, in tandem with the PCI video capture card that comes with the camera. The digital CMOS camera is one of the more unusual-looking cameras on the market, with its rubber-cased lens looking like an eyeball trapped inside the small, cylindrical design. It can sit on top of the monitor or be screwed into a camera tripod for more stability. The installation of the camera and card is simplicity itself, first fixing the card in a spare

PCI slot and then attaching the camera to the port on the card. When we rebooted the PC, it recognised the card and camera and we loaded the drivers in from the CD. We were pleased to see additional ports on the PCI card for Composite and S-VHS inputs, enabling film from camcorders and VCRs to be captured on the PC, as well as a tuner card for watching TV.

**This is a budget camera**, a fact reflected by the picture; at best murky, at worst poor. With a maximum resolution of 320x240, the Colour Video Camera isn't

about to produce film-quality video. Although this camera seems to be aimed at the home user who likes the idea of emailing videos of him/herself and doesn't care too much

about perfect pictures, there was a wide range of accompanying software. The camera comes with two "video mail" packages, a full version of VideoLink, and a cut-down version of VDOPhone. With business in mind there are several software solutions for live videoconferencing, and there is the option to install software that makes the camera motion-sensitive, turning it into a surveillance device.



### PCW DETAILS



**Price** £89 (£76 ex VAT). USB version also available at same price.

**Contact** Pace 0990 561001  
[www.pacecom.co.uk](http://www.pacecom.co.uk)

**Good Points** Cheap. Easy to set up.

**Bad Points** You are made to suffer in terms of picture quality.

**Conclusion** You get what you pay for.

## ViaTV Phone

The idea behind the ViaTV is simplicity itself; to take the PC out of videoconferencing. The ViaTV Phone sits on top of the television, and sends the pictures directly down the phone line through its own internal modem to another videophone. As well as being able to hook up to other ViaTV Phones, the camera can also make videocalls to any other videophones that use the H.324 standard for modem-to-modem connections over a PSTN (Public Switched Telephone Network).



The ViaTV Phone was a breeze to set up. The camera doesn't have to be placed on top of the TV, but this is really the most practical place to put it due to the length of the leads between camera and TV. The camera connects to the TV via the SCART socket on the back of the TV, and to the existing phone line via a two-way socket into which you plug the line from your telephone.

It took us about five minutes to set up ready for our first attempt at PC-less videoconferencing, and most of that time was spent dragging the TV close enough to the phone socket: a longer line would have been much appreciated. Once you have rung the recipient of your call, you can then initiate the video-connection. It took around 20 seconds for the link

to establish, with a connection speed of around 31Kb/sec. Using the buttons on the phone, you can bring up menus that can alter picture quality as well as frame rate. The picture at its "fine" setting was impressively sharp, but its frame rate dropped dramatically and any sense of continuous movement was lost. At the "fast" setting, the frame rate was very impressive although the picture was pretty awful.

### PCW DETAILS



**Price** £399 (£340 ex VAT)  
**Contact** ViaTv 0800 980 8889  
[www.viatv.com](http://www.viatv.com)

**Good Points** Simplicity itself to set up.  
**Bad Points** You must sacrifice frame rate for picture quality.  
**Conclusion** A neat idea that might catch on with a faster modem.

## Vtel SmartStation

Vtel is one of the key players in what is known in videoconferencing circles as "room" conferencing, where clients pay anything up to £20,000 for a set-up that allows whole boardrooms to communicate with each other. Rather than selling over the counter, its key market is corporates to whom money isn't a problem. Unlikely though it is that a small-business user is going to shell out the requisite readies, we thought it would nonetheless be interesting to

see how the other half lives. We reviewed Vtel's Executive package that includes the same excellent 12X zoom camera the company bundles with its £20,000 set-ups. Not for the faint-hearted, the SmartStation comes with two hulking codec cards, one PCI, one ISA. It is relatively easy to set up, but you will need at least a P133 processor as part of a robust system. The video is excellent quality, but in spite of the two codec cards it still makes certain demands on the processor. Once it was up

and running, we were knocked out by the quality of the video — until we realised it was a local image and hadn't been

compressed for transit. Even when we were hooked up to another user, the picture was



◀ WHILE IT COMES AT A PRICE, THE SMARTSTATION PROVIDES A VERY IMPRESSIVE PICTURE FOR VIDEO-CONFERENCEING

still impressive over an ISDN line, although it can be configured to run over LANs and modems. The package includes Microsoft's NetMeeting software that allows multiple users to share applications.

The SmartStation has a particularly intuitive user interface, an icon-driven menu that sits on the edge of the SmartStation window and can be customised depending on your needs.

### PCW DETAILS



**Price** The SmartStation is sold in varying configurations from £1,600 - £20,000.  
**Contact** Vtel 0118 955 3208  
[www.vtel.com](http://www.vtel.com)

**Good Points** Excellent camera and software.  
**Bad Points** Class kit comes at a price.  
**Conclusion** The business.

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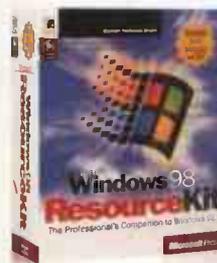
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The technology to recognise fingerprints is here. Nik Rawlinson investigates the case in hand.

# Pointing the finger

It may all sound like something taken from the pages of Orwell's *1984*, but governments and the military have been developing an efficient means of singling out a person based on bodily characteristics. Recognition of this type is called Biometrics, a technique for measuring a physical human attribute and comparing it to a database of registered characteristics for identification purposes.

**Biometrics incorporates** everything, from hand geometry and vein pattern recognition to retinal and iris scans, and the analysis of voice patterns. Perhaps the most useful aspect, though, is fingerprint analysis. It has been used worldwide for many years in tracking criminals, but the technology is now beginning to pay dividends for the ordinary bod on the street as a way of bolstering currently inadequate PIN or password-based security systems. In Spain, the government is currently extending an extensive trial of smart card technology. Initially rolled out across a sample of a million citizens, the card, bearing a fingerprint, provides access to social security and healthcare benefits. In the States, the military is constructing a similar system at its base at Fort Still. A smart card, access to which is controlled through print recognition, will give recruits access to a maximum of \$250 spending money a week.

**The BioAPI consortium** (Compaq, IBM, Microsoft, Identicator, Miros and Novell) have set out to develop a standardised way of analysing fingerprints so that the technology can be built into everything from network log-ons to protecting documents in applications like Microsoft Word. When Digital TV takes off, manufacturers see biometrics as a way of protecting the set-top box — particularly useful for barring adult channels from children.

Two products, from Compaq and Shuttle Technology, will bring this type of fingerprint recognition to the desktop. Their smart, small devices hook up to the PC's parallel port, scan the skin surface pressed to the lens and reduce the complicated tangle of creased skin to a mere template of key points. These are the points where the lines change direction, merge or end. Around 40 of these points are marked, and the rest of the image is discarded. Forty may not sound like much, but it should be remembered that in most countries only 12 matching points are necessary



▲ QUICKER THAN A KEYBOARD, PASS FIRST TIME WITH A NIFTY FINGERPRINT READER LIKE THIS ONE FROM COMPAQ

for a fingerprint to convict a criminal in a police investigation. These points are encrypted and passed to the domain server that then compares the points to a database of registered users, only granting access to matching prints.

**But how accurate** is such a system? Compaq's setup process allows the system administrator to select the level of accuracy, ranging from one mistake in 1,000 (i.e. a valid user is rejected or someone without authority gains access) to one in 100,000. The fact that no user will ever place their finger in exactly the same place twice has also been taken into consideration. Shuttle Technology claims its

**Al Capone tried to evade capture by DIPPING HIS FINGERS IN ACID to destroy his prints. They grew back with exactly the same pattern as before**

product will allow for a 30-degree alteration in angle between the finger and the comparison pattern. Ah, you say, but what about fingers changing with age? Sorry, they've beaten you there, too. Your fingerprints just don't change. Al Capone tried to evade capture by dipping his fingers in acid to destroy his prints. It worked... for a while. Little did he know they would grow back with exactly the same pattern as before.

Toby Howard reports on how a net user can have a **physical presence** at a web site.

## Remote control

**B**eing there is not an experience we normally associate with browsing the web. Although we speak of "visiting" a web site, it's actually the other way around: we stay exactly where we are — it's the data that comes to visit us. But two researchers at the University of California want to change all this. They're experimenting with what they call "tele-embodiment" — giving a surfer a real physical presence at a remote web site, in the shape of a remote-controlled mobile robot. John Canny and Eric Paulos call their robots "Personal Roving Presences", or PROPs <[www.prop.org](http://www.prop.org)>. The idea developed from previous experiments with robots they called "space browsers", or blimps, small helium-filled

PROPs will bring a new dimension to global comms ... **THE 'OUT-OF-BODY' EXPERIENCE** may soon become a technological reality

remote-controlled balloons. An operator, controlling the blimp using a radio link and a Java applet in a web browser, would "pilot" it around a roomful of people, engaging them in conversation using the camera, microphone and speakers attached to the blimp. The idea was perfect for "happenings" at Electronic Art festivals, but the weight of the batteries and the instability of the balloons made them impractical. Next, Canny and Paulos came down to earth, experimenting with "surface cruisers", small-scale mobile robots again with a wireless connection to the web. Their

latest PROProp looks a bit like a high-tech version of the dancing broomstick from Disney's *Fantasia*. The base is a small motorised cart with steerable wheels. On the cart is a battery pack and a PC with a wireless link. The cart supports the PROProp's "body", a thin vertical shaft 1.5m tall. At the top is the "head", comprising a video camera, microphone and speaker, and an LCD screen. There's also a small, motorised arm intended not for manipulating objects, but for

"gesturing". The operator controls the PROProp via a simple web interface, moving and steering it with the help of real-time images from the PROProp's "eye". A video camera pointed at the operator's face sends the image to the LCD panel on the PROProp's head. The idea is that the operator, embodied as the PROProp, wanders around the remote scene, meeting people and chatting with them, or just "hanging out", as the Americans say.

**Canny and Paulos believe** that the future lies with very simple robots with a few basic behaviours: moving, watching, listening, speaking, and displaying a video image of their web operator. The future, they say, is "telepresence for the masses". And they're not alone in wanting to go beyond the passive browsing that mostly characterises the web. Several tele-robots already attached to the web let you experiment with telepresence. Try to pick up some blocks with the simple robot at University of Western Australia <[telerobot.questacon.edu.au](http://telerobot.questacon.edu.au)>, for example; then zoom across to the opposite side of the planet, to the Carnegie Science Center's Online Telerobot <[csc.clpgh.org/telerobot/](http://csc.clpgh.org/telerobot/)>. You can even paint with a robot at "Puma paint" <[yugo.mme.wilkes.edu/~villanov/](http://yugo.mme.wilkes.edu/~villanov/)>. The robot at this site holds a paintbrush which it can dip into one of four different pots: you choose the colour, tell the arm how to move and even how much pressure to apply to the canvas. Closer to home is the Bradford Robotic Telescope, high on the West Yorkshire moors <[www.telescope.org](http://www.telescope.org)>

Much of the cutting-edge research is coming from NASA <[ranier.oact.hq.nasa.gov/telerobotics.html](http://ranier.oact.hq.nasa.gov/telerobotics.html)>, where the goal is to develop efficient telerobotic interfaces to control landers on future space missions. NASA demonstrated with the Sojourner Mars lander that telerobotics is essential for space exploration, and its future plans rely heavily on the "Interplanetary Internet" project (see "Futures", PCW November 1998). There's even a project coordinated by Carnegie Mellon University to allow public control of a lunar rover <[www.ri.cmu.edu/lri/](http://www.ri.cmu.edu/lri/)>

**PROProps and telerobotics** will bring a new dimension to global communications, and instead of being a New Age myth, the "out-of-body experience" may soon become a technological reality.



▲ NASA'S SOJOURNER MARS LANDER HAS DEMONSTRATED THAT TELEROBOTICS IS ESSENTIAL FOR SPACE EXPLORATION

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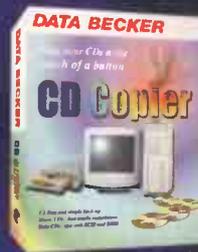


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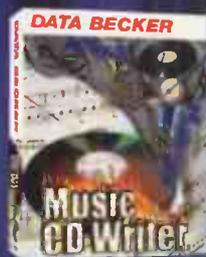
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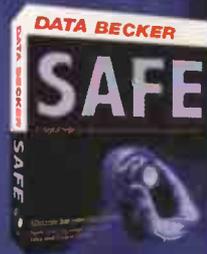
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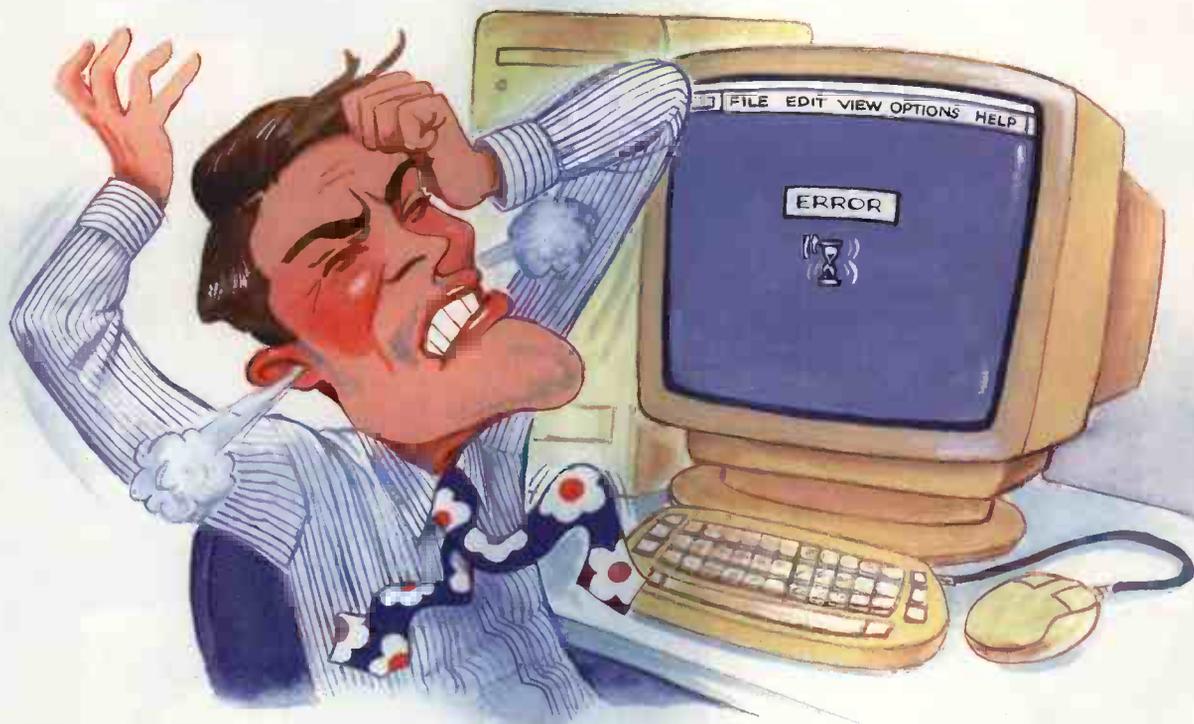
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# hands on

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**A**re you looking for that next great operating system? It could be coming sooner than you think — that's if you reckon **NT 5.0** is going to be the answer to your prayers. In *Networks*, Bob Walder takes a look at Microsoft's latest timetable for releasing this much-hyped upgrade and examines some of the **main features** of the pre-release copies. On the other hand, perhaps you're quite happy with Windows 95 or 98 but have been following Chris Bidmead's *Unix* column. If you've always wanted to try out the "free" **Linux operating system** for yourself but didn't want to sacrifice your Microsoft installation, follow the first instalment of our three-part workshop on running it alongside Windows. Even Cliff Joseph gets in on the OS swapping act this month, **emulating the PCs** we know and love on his Mac. With Christmas on the horizon, many *Hands On* writers hint at what they would like to find in their stockings, while Mark Whitehorn thinks about all of those **festive photos** — and the headache he's going to have trying to file them in a database.

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## PCW Hands On on CD-ROM

Now it's easy to find that *Hands On* tip, trick, advice or review again — there's a whole year's worth of columns on our monthly PCW CD-ROM. So if that handy hint is on the tip of your tongue, don't sit and sweat: the answer is at your fingertips with our cover CD.



# Loading up Linux

Chris Bidmead hears the call of all those readers longing to use the **Linux operating system** and, in the first of this three-part series, shows you how to make a start.

**T**he email received file for my *Hands On Unix* column is bulging with queries from readers who would like to install the popular, free, Unix-like operating system called Linux, but, in approximately this order of priority: they're fearful that they'll mess up their existing (usually Windows) installation; or, they shy away from an operating system that seems to demand a lot of technical knowledge; or, they haven't a clue how to get started.

## Fact of life

This three-part workshop is aimed to help Windows users who want to get started with Linux. Let me make it clear from the outset — I'm not a guru. I'm just this guy who happens to have been kicking around Linux, and other Unix flavours, for several years. You don't need to be a guru to run Linux, but if you want guru-type help, there's plenty of it about. The good news for you (and me) is that there's a lot of documentation out there. The bad news is that much of it is out of date — well, not really bad news, just a fact of life. When technology moves as fast as Linux, everything on which you lay your hands is automatically out of date to some degree. For Linux documentation, as for web pages in general, you need to learn to read like a good history researcher, critical of the content and conscious of the context.

If you turn to *Hands On Unix* (on page 269) you'll find some suggestions about where and how to start. Here, I am tackling the kind of real-life problems likely to arise with your own installation, but I cannot cover all eventualities. Contact me if you hit snags that I have not mentioned in these pages and we'll try to hack it out together [*"PCW Contacts"*, p244].

**You don't need to be a guru to run Linux**

My mate Marcus runs a Windows machine which he put together himself six months ago for less than £500. He picked up the motherboard with 32Mb of RAM and a Cyrix 200 processor from a UK company called Big Red at [www.bigred.co.uk](http://www.bigred.co.uk) for £125. He added an old Mitsumi four-speed CD-ROM and a 515Mb Western Digital hard drive filleted from a defunct PC, plugged in an NE 2000-compatible Genius 2000 network card and an antique Western Digital/Paradise 90C31-based video card, then connected the whole thing up to a 14in monitor he picked up for £100.

I've picked Marcus' machine for a variety of reasons. I like its oddness: installing Linux on a standard machine can

be too easy to be interesting. This one has a non-Intel processor clocked at 150MHz: hardly

state-of-the-art, and therefore a chance for Linux to demonstrate its spriteliness at the cheaper end of the market. (Several readers of the *Hands On Unix* column have reported going up to the attic to retrieve an old 386 machine and loading up Linux to bring it back to useful life.)

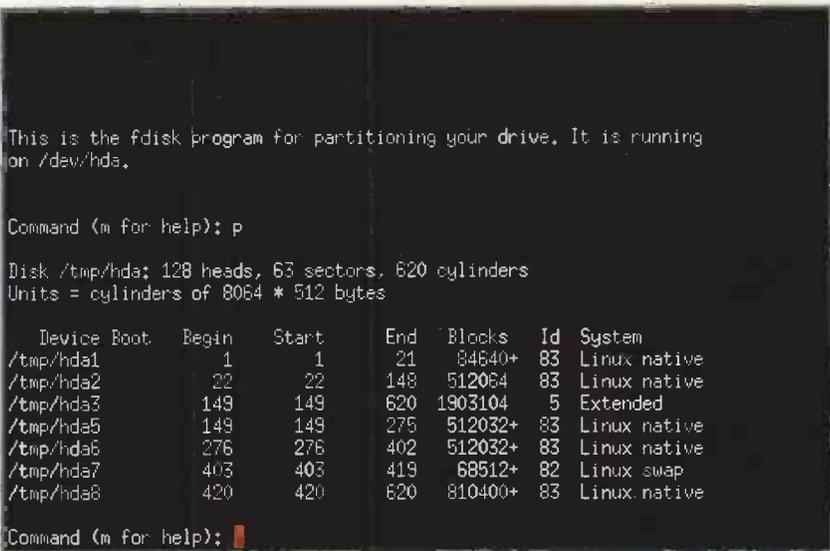
**The other thing that** appealed to me about Marcus's machine was that I could get Marcus to do most of the work. The first question was: where were we going to put Linux? The Western Digital IDE hard

drive was dedicated to Windows 95. In theory we could shrink the Windows partition to make room, but this would be a squeeze

for both Windows and Linux. We decided to put in a second hard drive.

Marcus cannibalised a four-year-old 520Mb Seagate ST3660A from another machine. "The hard disk install was very easy," he says. "There was a spare connector on the IDE cable and I established the new drive as a slave on the primary IDE interface, setting the switches according to the details printed on the drive cover itself." Many older drives may not have this key information handy, in which case it's worth quizzing the relevant web page — [www.quantum.com](http://www.quantum.com) or [www.westerndigital.com](http://www.westerndigital.com), for example. If you can't find your drive there, check out the marvellous hard drive database maintained at [www.mm.mtu.edu/drives/](http://www.mm.mtu.edu/drives/) by Chris Hooper.

**The Linux distribution** we chose was the Official version of RedHat 5.1. "Official" in this context means that you get some extra proprietary software, a nice manual and 30 days' free installation support. You can buy it from many places, including ordering it direct from [www.redhat.com](http://www.redhat.com). Another option is the Linux Emporium here in the UK at [www.polo.demon.co](http://www.polo.demon.co).



**▲ FIG 1 THE TRADITIONAL WAY TO DO THIS IS WITH FDISK. IT'S MORE FLEXIBLE BUT, AS YOU CAN SEE, LESS USER-FRIENDLY**

uk/emporium.html, where you can also pick up the GPL version (no manual, no support) for a couple of quid.

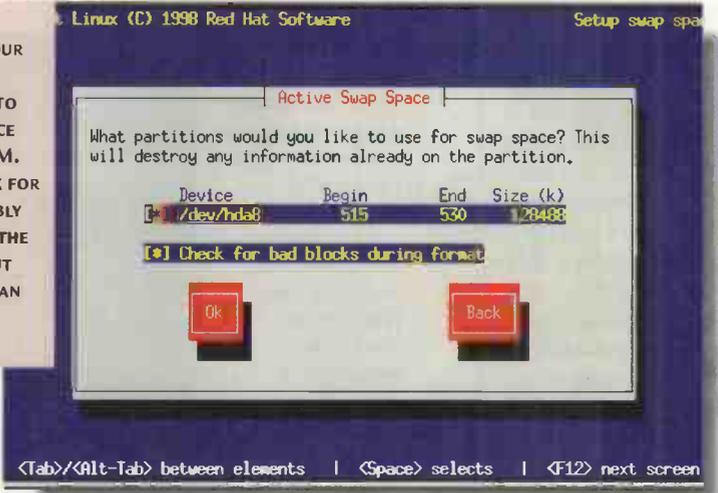
The Official RedHat distribution comes with a boot floppy (with the GPL version you need to manufacture your own from the CD) but we didn't have to use it because, like many recent PCs, the AmiBIOS v2.4 in Marcus' machine knows how to boot from a CD. This means you just have to insert the RedHat CD in the drive, switch on the machine, and after a moment or two you're looking at a character-based screen with a prompt that just reads "boot:".

### Enter lilo

What do you do next? Well, actually, nothing. This boot prompt is being offered by lilo, the Linux boot loader program. The prompt is there so you can take advantage of the flexibility of lilo, but at this point all you need to do is wait a few seconds (or hit carriage return) and lilo will begin to load a copy of the Linux kernel (the core of the operating system) into the machine's memory from the CD and then automatically start running the installation program.

During this stage you'll see a number of messages sprinting up the screen as various parts of your hardware are detected. If they don't mean anything to you, just ignore them, although they're useful for diagnostics if things go wrong. The opening screen puts up a welcome message and then trots you through some simple questions, like which language you want to use and what your keyboard type is. You're also given a choice of installation methods: you can even install over the network from a

► **FIG 2** SETTING UP YOUR SWAP PARTITION. THE RECOMMENDATION IS TO MAKE IT AT LEAST TWICE THE SIZE OF YOUR RAM. THE OPTION TO CHECK FOR BAD BLOCKS IS PROBABLY NOT NECESSARY WITH THE NEWER HARD DISKS BUT WE'RE INSTALLING ON AN OLDER DISK



shared Windows drive. We settled for "Local CD-ROM".

The next screen asks if you want to install a new Linux system or upgrade an old one. We chose "Install" and were then presented with a choice of using Disk Druid or fdisk [Fig 1] to create our partitions. Both do the same job of allocating areas of the disk and preparing them for the new operating system, but

fdisk is the techie tool and Disk Druid the (not much) simpler partitioner for beginners. Whichever you use, by default the installation procedure won't overwrite your existing Windows partition (or partitions). We were extra safe because the Windows stuff was on a different drive. However, partitioning software is potentially dangerous, so tread carefully.

### Installing Linux on a standard machine can be too easy to be interesting

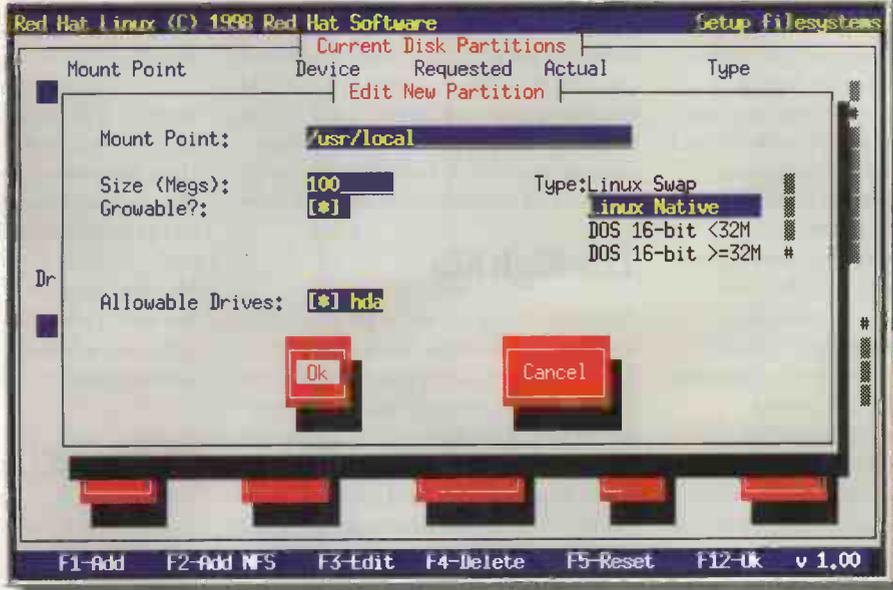
(But of course, you did back everything up first, didn't you?)

Disk Druid doesn't offer much in the way of help screens. If you're new to partitioning I strongly recommend spending £35 to get the documented Official RedHat. Even so, Marcus and I poured over the manual for about five minutes before finding what we were looking for: suggestions on how best to use our relatively meagre 500Mb for Linux.

### Swap shop

Guided by suggestions on page 26 of the RedHat 5.1 manual we settled for four partitions: a 40Mb swap partition, a 100Mb (growable) root partition, a /home partition of 50Mb, and a 100Mb partition (growable) for /usr. The swap partition [Fig 2] is used for virtual memory (equivalent to Windows' swap file but

more efficient), while /home is the directory under which individual users' home directories are stored. So, 50Mb should be fine on a



◀ **FIG 3** DISK DRUID IS REDHAT'S EASY (WELL, EASIER) WAY OF ALLOCATING PARTITIONS



single-user machine — /usr is, broadly speaking, the location for applications, utilities and libraries associated with the local machine, and the root partition is for general system files and the rest. The thinking behind this way of dividing the disk takes us into intermediate-to-

advanced territory which I will not cover here. Until recently I had always just created a root partition and a swap partition, as you might prefer to do. Actually, you don't even need a swap partition: Linux will happily swap to a file in the same way as Windows. But you'll get better performance if you dedicate a partition to swapping. By the way, the "growable" option that Disk Druid offers you for partitions [Fig 3, p243] is not as dynamic as it sounds. If you know IBM's AIX implementation of Unix you might think this means a partition which can get bigger on-the-fly. In the RedHat context it just means that Disk Druid will allocate larger space than you designate if more turns out to be available by the time you've finished your allocation, and before you

commit your partition table to disk. We ended up with root and /usr as 214Mb each. Partitioning under Disk

Druid may strike the seasoned techie as a little weird because it creates logical partitions by default, even if (as now) you only want to put no more than the allowed four partitions on a drive — a situation where I would recommend sticking with primary partitions. (If you don't understand what I'm talking about, ignore this bit — or, better still, read the Linux Partition HowTo at [sunsite.unc.edu/mdw/HOWTO/mini/Partition.html](http://sunsite.unc.edu/mdw/HOWTO/mini/Partition.html).)

You are then moved on to the selection of a choice of packages — or rather, groups of packages — to install. You will need to transfer the Linux kernel from the CD-ROM to the hard disk, of course, so this and other essentials like the X Window System, which handles the graphical front-end, are already marked for installation.

► **FIG 4 THE DEFAULT AFTERSTEP SCREEN IS WHAT WE'RE AIMING FOR WITH THE INSTALLATION ON MARCUS' MACHINE. IT'S AUSTERE AND SIMPLE BUT TOTALLY CONFIGURABLE IF YOU WANT MORE BELLS AND WHISTLES**



Amongst others, we chose to tick additional boxes for printer support, DOS/Windows connectivity, graphics manipulation, X games, X multimedia support, Print Server, NFS Server, SMB connectivity, anonymous FTP, a web server and more.

**Are you still** with me? From my email intray I know that many readers get confused at this stage about what to install or not to install. It really doesn't matter too much — everything you need to make the system

work at the basic level will be installed anyway, and the package installation can easily be changed later. For example, if you're not a programmer you may shy away from the option to install the C and C++ development system and

libraries. That's OK, as it's easy to add what you need later. When you get to know Linux better, you may want them on your system, because a lot of applications and utilities come as source code and you really don't need to be a programmer to compile them.

### The high life

At this point, the partitions are created and turned into usable filesystems with a high-level format utility that Unix calls mkfs (don't worry — the installation procedure automates all this for you). With Marcus' machine this took about five minutes. The install procedure then told us that 276Mb-worth of packages needed installing and began the job, displaying the estimated time to install everything as soon as the

system got familiar with the speed at which things were moving (7mins 45secs). So, pleased with our work so far, we decided to reward ourselves with a coffee break. But then — uh-oh...

**The screen read:** "RPM install of tix failed: unpacking of archive failed on file /usr/lib/tix4.1/ListNBk.tcl". Several other failure messages followed. The installation was becoming horribly unravelled. RPM is the RedHat package manager, a Linux standard for application installation and removal, and the RPM packages were failing to unpack on the /usr partition. We both spotted the reason at the same time: at 214Mb, we'd made the /usr partition too small and had run out of space.

### Fancy that

We were going to have to start the installation all over again. We had two choices: either be less ambitious about the number of packages we installed, or find some more disk space. We decided to give Linux more room, and this meant downsizing the existing Windows partition on the first hard disk. There are some fancy packages for doing this (see the Partition Manager review in *Hands On Unix*, p272). But there's also good-old fips, the free software partitioner, so fips is what we'll start with next month.

### PCW CONTACTS

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**workshop: image editing**

# Picture perfect

With some **simple retouching**, your photos could really sparkle. Ken McMahon shows you how.

**T**here can be few things as disappointing as getting sub-standard pictures back from the photo processors. Dull interior shots, demonic red-eye poses, fingers over the lens and lampposts sticking out of people's heads all combine to put a dampener on the excitement of seeing your photos for the first time. But now, thanks to digital image editing, such blemishes can be banished forever. Whether you use a digital camera or get your images digitised by a photoprocessor, or scan them in yourself, get into the habit of giving them a makeover in an editing application before filing them in an album or printing them out. In this workshop, we'll show you how to "clean up" your pictures by selective cropping and sharpening, improving the colour balance and making the colours more vivid. We'll also look at some retouching techniques and special effects.

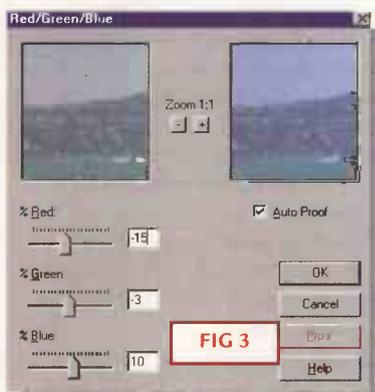
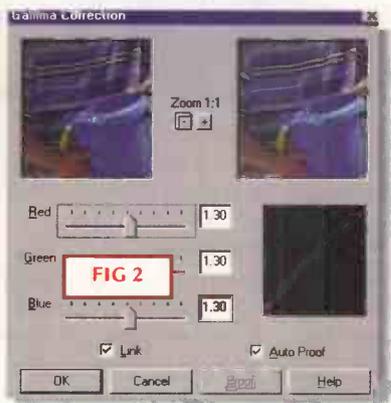
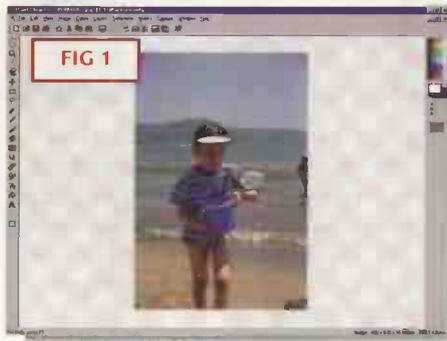
## Image enhancement

Here's a typical holiday snap which will benefit handsomely from a little digital manipulation [Figs 1-4].

➔ **The first thing** to consider with almost any picture is whether it wouldn't look better if there were a little less of it. The answer is nearly always "yes", so get cracking with that cropping tool. It's always best to make cropping the first operation because it makes your image smaller, and with fewer pixels to process, everything will move along much more quickly.

➔ **Next, we need to** pay some attention to the brightness and contrast while avoiding those particular controls if possible: they can be crude, and can sometimes introduce new problems while correcting existing ones. Most packages provide a means of adjusting the overall tonal curve of an image. Some, like PaintShop Pro, call it Gamma. Photoshop users make this adjustment using the Curves command.

The shadows are represented by the bottom-left portion of the curve, moving through the mid-tones in the middle, to the



highlights at the top right. By adjusting the shape of the curve it's possible to make changes in, say, the shadows and mid-tones without affecting the highlights — which is exactly what we want to do here.

➔ **Make sure the link box** is checked, so the gamma of all three channels — red, blue and green — is changed simultaneously by the same amount [Fig 2]. Moving the slider right, to 1.3, bends the curve upwards slightly. By checking the autoproof box, you can get a live preview of the result in the image window, or you can refer to the before-and-after thumbnails.

Notice how the sea looks an unpleasant shade of green and the sky looks washed out [Fig 1]? Well, I can assure you it wasn't like that on the day, so let's attempt to restore some of the colour.

**1 First, we need to** select the sea and sky [Fig 3]. It won't hurt to include those background hills because a blue tinge will look like the natural effect of haze. Use the magic wand tool and shift-click to select as much as you can. You can also use modify and grow (or similar)

from the Selections menu, but this doesn't always work out as expected.

**2 Now pick up** any stray areas by using the marquee tool on the freehand setting.

**3 Select** Colors-Adjust-red/green/blue, or just press Shift-U. Once again, this is one of those visual "er... that looks about right" kind of adjustments. I've got the sea and sky looking the way I want them by subtracting red and adding blue.

The only steadfast rule about colour adjustments is that you generally need to make very small changes if you want to keep things looking natural.

➔ **Now, we're going to** remove those distracting swimmers in the background by using the clone tool.

**1 Select** the clone tool, and in the control palette select Aligned mode and no paper.

**2 In the brush-tip tab,** select a suitably-sized brush with a slightly soft edge [Fig 4]. The other settings



(opacity, hardness, density and step) will depend on what you're cloning, but for this job, leave them all on the default settings.

**3** You need to select a source area from which to clone by right-clicking on the image (I selected an area of sea, adjacent to the bathers). Zoom in close, and if you're retouching to a new layer remember to select the source from the original layer then switch to your retouching layer to clone. As the bathers are small, one dab of the brush is enough to obliterate them.

When cloning larger areas use small dabs to build up the cloned area and pick a source area that blends in with the new surroundings.

### Removing red-eye

Can there be any photographer who hasn't suffered from the red-eye plague? Fig 5 shows what it looks like: it is caused by the flash reflecting from your subject's retina. There are two ways to eliminate it. One option is to buy a camera with a specially-adapted flash, which flashes rapidly a few times before the picture is taken. Apart from being hugely irritating and a little uncomfortable, the strobe effect causes the



pupils to contract so the light can't pass through and bounce back so easily. But if you're reading this, the chances are it's too late for this remedy so you'll have to resort to a second option; editing out the red bits and replacing them with something more natural-looking.

As a precaution, before you start retouching it's a good idea to create a new layer. Then, if anything goes wrong it's often easier to put right. At worst, you can delete the entire layer and start again.

➔ **To do this**, press Ctrl-A to select all, copy. Then select paste as the new layer from the Edit menu.

**1** The first step is to select the offending redness. In PaintShop Pro 5 this is most easily achieved using the magic wand tool.

**2** Zoom in (by pressing + on the numeric keypad) as far as possible so you can see what you're doing. The pupil won't be that big so you will need to go in a long way.

**3** With the magic wand tool selected, set the tolerance in the control palette to around 30. If you can't see the control palette, select Toolbars from the View menu and check the control palette box.



**4** Click on the centre of the red pupil area and the magic wand will do the rest, selecting only the red pixels [Fig 6]. If you didn't get them all, just continue to Shift-click with the magic wand, although you may need to reduce the tolerance to avoid picking up stray pixels at the edge. Do the same for the other eye, again holding down the Shift key to add to the selection.

**5** Select Colorize from the Colours menu and drag the saturation slider to zero. This takes all the red colour out of the pupils, leaving grey pixels [Fig 7].

➔ **Should we be** putting colour into the pupils rather than taking it out? No, we shouldn't. Your pupils are not coloured, they're black — it's the iris surrounding the pupil that is the coloured part and we are

## Ten tips for better pix

**1** Do experiment — you can always Undo. If your application doesn't support multiple Undo, save first, then revert if it doesn't work out. Or, try again in a new layer.

**2** Add plug-in filters to extend your application's range of effects.

**3** Consider cropping before you do anything

else. It will probably result in a better composition and it will speed-up editing.

**4** If your application is responding too slowly, add more RAM or free-up space on your hard drive and run a disc optimisation program.

**5** Install colour management software, so what you print more

closely resembles what you see on-screen.

**6** Make sure your monitor is properly adjusted before you start. Advice is available from [www.csf.org](http://www.csf.org).

**7** Experiment with different papers and make sure your printer driver is correctly configured for them.

**8** If you have to clean up a lot of images, consider

automating the process using Extensis Intellihance (see *Hands On Graphics & DTP*, p288)

**9** If your application supports layers, use them. They make undoing your mistakes a lot easier.

**10** Save frequently, then if you really make a mess of things you won't have lost everything.

going to deal with that next. Unless your shot is a tight close-up it is unlikely that you will actually be able to see the iris, which is the part surrounding the pupil that has colour and texture (a bit like the inside of a glass marble). So, we are going to make a selection of a ring around the pupils where the iris would be.

**1** Use the magic wand tool as before to select the entire central grey area of the eyes.

**2** Then select the rectangle marquee tool and select Circle from the pull-down menu in the tool controls tab of the control palette.

**3** Holding down the Ctrl key to subtract from the existing selection, draw a small circle in the centre of each eye. Once again select Colourize from the Colours menu and adjust the hue and saturation sliders [Fig 8] until the colour of the eyes looks about right. I've chosen a striking blue which matches our subject's dressing gown quite nicely.

Incidentally, if you do as I suggest and perform all your retouching on a new layer, you will be able to use Paint Shop Pro's Animation Shop to make a two-frame animated gif with flashing demonic eyes!

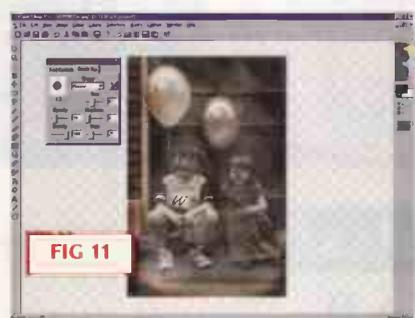
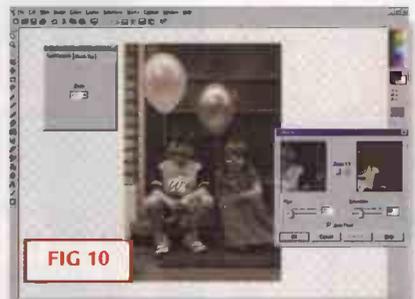
### Special effects

Some of the better home darkroom packages (for instance, PhotoDeluxe 2, Livepix 2 and Professor Franklin's Instant Photo Effects) provide custom filters or walk-throughs for creating effects such as duotones, adding frames, or producing an antique photo effect. If your image editor does not provide such filters, you can easily create these effects yourself; and even if you do have a one-step filter, it is more fun this way and you have more control over the result.

➔ We are going to produce an antique effect by sepia-toning a colour picture, adding grain, producing a patchy, fading effect and finally creating an oval vignette of the kind popular with Victorian portrait photographers.

First, we will add the grainy effect, because if we do not do this at the beginning it will produce some unwanted colour in the final image. Fig 9 shows our not-very-old-looking original with the grain already added. To do this, simply select image-noise-add and add around 20 percent with the uniform button checked.

Now we need to lose all the colour. Convert the image to a greyscale by



selecting Greyscale from the Colour menu. Then convert it back to RGB by selecting — again from the Colour menu — Increase Colour Depth-24bit. This will not bring all your colours back, but it will make it possible to tint the picture any colour you like, which is what we are going to do next.

**In the bad old days**, to get an effect like this you had to put up with chemicals which stank of rotten eggs — but not now! Select the Colourize palette once again and adjust the hue and saturation sliders until you

achieve a rich brown tint [Fig 10]. You may need to lighten things up a little at this stage using the gamma control — nearly there. Now, we're going to help give the illusion of age by simulating fading, so it's time to get acquainted with the retouch tool. This offers a whole box of retouching tricks including dodge, burn, darken, lighten, soften, sharpen and even the astoundingly-named "hue up". The most effective tools for ageing are Dodge and Burn which you can use to selectively lighten and darken parts of the image. The key to the retouch tool is to find the right combination of brush settings [Fig 11] so you should experiment with brush size, shape, hardness and opacity to achieve the best effect.

➔ All that remains now is to add the vignette [Fig 12].

**1** Select the rectangle marquee and change the selection type to Ellipse in the controls palette.

**2** Enter a feather value of around 20 (the higher the value, the softer the edge) and draw an oval around the central picture area, stopping just short of the edges.

**3** Press Shift-Ctrl-I to invert the selection, then hit the delete key. I've used the Soften filter to take off the hard edges and re-applied Colourize to put back some of the sepia lost through over-zealous use of the retouch tool.

### The antique picture show

All the examples here have been produced in Paint Shop Pro but you can reproduce them using virtually any package on the market. If you cannot find a particular tool or menu command, look for another way to achieve the same effect.

For example, you may need to use an airbrush, or a smudge tool to produce antique fading effects. Some packages even have burnt-edge filters which you can use for this sort of thing. Have a good look through your toolbox and effects filters and experiment with different ways of achieving the same thing.

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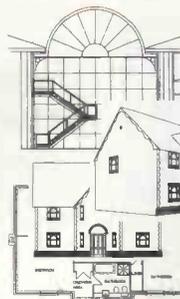
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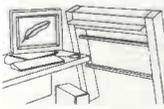
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# Culture club

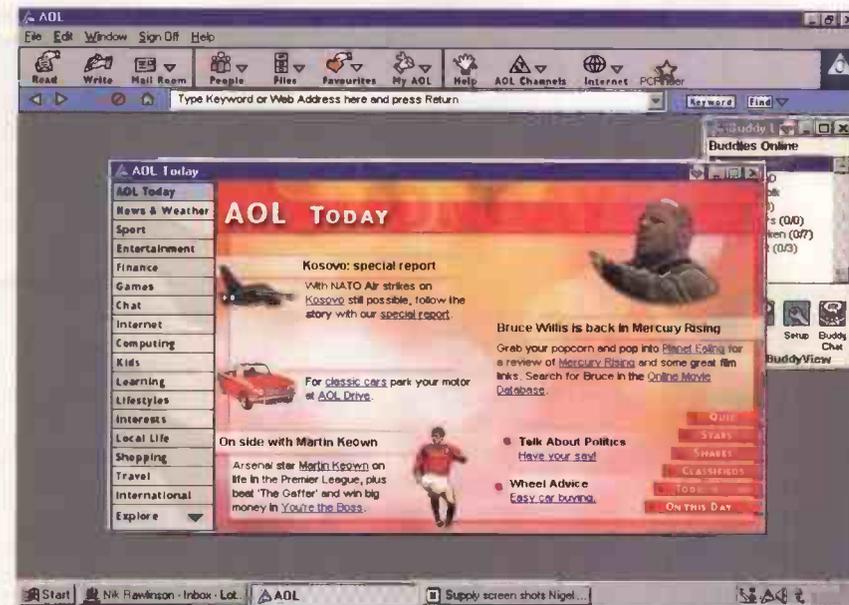
Being a newcomer to the net is awkward enough without having to suffer the slings and arrows of snobbery. 'Internet elite, your time is up' says Nigel Whitfield. And, a basic guide to forms.

**H**ow long have you been using the internet? Chances are that many people who read this column have come to it fairly recently. It was, after all, only in 1994 that Demon Internet launched, providing low-cost access for many users. Prior to that, people who used the net tended to be in universities or networking companies and although access in the US was more widespread, it was still very much a tool for the educated elite. Much of that changed when AOL, still the world's largest online service, gave its users access to the net.

## Paradise for some

Culture clash is just one phrase to describe the result. Yes, of course there were teething troubles: you'd expect little else when a culture that has developed over years suddenly meets a newer one, with different conventions. Of course, not everyone thought it was a good idea. Many of those who'd waxed lyrical about utopian ideas of cyberspace suddenly revealed that what they really meant was a utopia that didn't include the ordinary people who paid for access via systems like AOL. Some of this was doubtless due to the stupid doings of some AOL users, but it's a fact of life that if you have a service that anyone can join, a proportion of users will be daft (unlike a university, for instance).

What is amazing to see, however, is that despite the passage of time and the work that people like AOL have put into educating their users, the old attitudes persist. Lurk around in most newsgroups or discussion forums and you'll still see sarcastic or abusive comments about people who use particular service providers, or who are simply newcomers to the net. It was unpalatable enough when the real, old-time internet users started doing it, trying to keep their



utopia as exclusive as Aldous Huxley's; and it's no less so when people who are relative newcomers themselves do it.

The point of the history lesson? There's no doubt that the internet can be a useful tool, and the current crop of dialup services have done a lot to make it more accessible. Yet next time you're sitting there thinking "It's only £10 a month", remember that there are many people for whom "only" and "£10" are not often used together. Many of those will undoubtedly be tempted to try out the net through the latest crop of

inducements, including those from BT and Cable & Wireless which promise a rate of around a penny a minute on top of

the cost of the phone call, or the completely free Dixon's Freeserve.

Whether or not those cheap services pose a real threat to the established players is something time will tell. But what's already apparent is the extent to which a number of ordinary net users don't like it, judging by the protestations in some newsgroups. And, it doesn't take much to imagine that many users will

▲ AS TIME GOES ON, THE OLD PRECONCEPTIONS ABOUT AOL USERS ARE THANKFULLY STARTING TO WANE

readily tar all those with a Freeserve address or a BT Click email account in the same way as they've done to AOL users in the past.

## Available to all

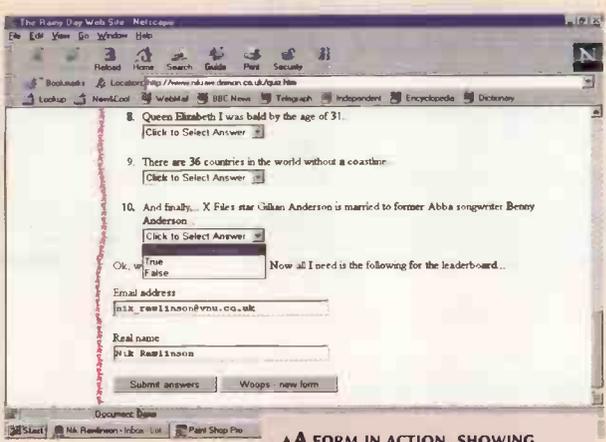
Before you join the bandwagon and rush, sneering, to point out the spelling mistakes of "people who can't even afford a decent ISP", stop and think. What do you want the internet to be? Should it be a resource for all, welcoming people for what they say rather than criticising them for where they post from, or would you rather cast your vote with some of the old-timers.

There will certainly be turbulent times ahead as the market reacts to cheap or free inducements, but it's best to wait and see what happens rather than proclaiming that "Dixons must not be allowed to get away with it", as some have already done. In the rush to judge, it may pay to remember that there were once people who thought you didn't deserve to have access to the net.

**There were once people who thought you didn't deserve to have access to the net**



## FORMS: A BASIC GUIDE



**▲ A FORM IN ACTION, SHOWING DROP-DOWN MENUS, TEXT BOXES AND BUTTONS FOR SUBMITTING AND RESETTING THE PAGE**

If you want to use forms, you need to understand a little about how HTML tags

work. There are many good sites, and a previous article I wrote for PCW is on the web at [www.stonewall.demon.co.uk/tutor/html](http://www.stonewall.demon.co.uk/tutor/html) which, while not very up to date, will explain the basics.

**An HTML form** is made up of HTML code between a `<FORM>` and a `</FORM>` tag. You can use any code within it, and each field is created with the `<INPUT>` tag. One of the biggest problems is that people do not correctly specify what they want to happen in the `<FORM>` tag. This should look like:

```
<FORM METHOD="POST" ACTION="somescript">
```

The "method" tells the browser how to send information. Use POST whenever you can. The alternative is GET, but there is a limit to how much information can be sent and it varies from system to system (it could be as little as 256 characters).

**The POST action** specifies the name of a script or program that will be run on the web server when the form is submitted, and this is where most people go wrong. Only a few browsers allow you to put `mailto:me@myaddress.com` as the action. You need to find out from your provider what scripts are supported as it will often have some for common tasks like sending mail. Don't assume that because your web design program has filled in the name of a script for the action, it's correct. It's more likely not to be. If you haven't written and uploaded a script, or your provider has not said it has one, then it won't be there.

**Each field** on your form is defined by an INPUT tag. For example:

```
<INPUT TYPE="TEXT" NAME="username">
```

A field could be TEXT, or PASSWORD, or CHECKBOX. You can also put `VALUE="default text"` to fill in a field with information that can be typed over, or to say what value should be assigned when a box is checked. NAME is the name of the variable to which you can refer in your script. Some, such as mail scripts written by your provider, will need specific variables named for things like the destination address and subject of the mail; these are often fields with the type set to "HIDDEN", which means they're not displayed on the page.

➔ **Adding "radio buttons"** is easy. Where only one of a series of choices can be selected, you simply use the same NAME for each one, like this:

```
<INPUT TYPE="radio" NAME="confirm" VALUE="yes" CHECKED>
<INPUT TYPE="radio" NAME="confirm" VALUE="no">
```

➔ **There are a few types** of field which work differently, though. First is the text area, a box into which you can type information. You add one of these to your page with code like this:

```
<TEXTAREA NAME="comments" ROWS="10" COLS="50">
Enter your comments here
</TEXTAREA>
```

➔ **To add a drop-down list** to your page, use the SELECT tag:

```
<SELECT NAME="myList">
<OPTION VALUE="choice1">First entry
<OPTION VALUE="choice2">Second entry
<OPTION VALUE="choice3" SELECTED>Third entry
</SELECT>
```

You don't have to have an option already selected. If you don't, the drop-down list will appear to be blank when the page is first displayed.

➔ **Submit and reset** are two important types of field. These fields don't need a name: you could just enter

```
<INPUT TYPE="submit"><INPUT TYPE="reset">
```

and they'll work. The submit field creates a button that sends the form back to the web server, while the reset button clears the form as if you'd just loaded the page in your browser. You *must* have a submit button, but you don't *need* a reset one. Specifying a VALUE for either will use the text you give to label the button, so

```
<INPUT TYPE="submit" VALUE="Send in your order">
```

would create a button labelled "Send in your order".

➔ **A picture** can be used instead of a simple button. Most graphical browsers will let you do this. Here's how:

```
<INPUT TYPE="image" SRC="gifs/button.gif">
```

An image used like this is always assumed to be a submit button. The browser will, however, return two extra variables, X and Y, which indicate where in the picture the user clicked, so with a clever script you could use a button bar to select different options.

**Remember, you can design** the most beautiful form in the world but it will come to nothing if you don't have the action set to a script that's valid on the web server where your form is hosted. Whatever design program you are using, check the code for your forms afterwards, make sure that the action is right, and that all the fields are properly named.

**These are the most common problems**, and if you crack those, the rest is simple. For a more detailed tutorial on forms, go to [www.ncsa.uiuc.edu/SDG/Software/Mosaic/Docs/fill-out-forms/overview.html](http://www.ncsa.uiuc.edu/SDG/Software/Mosaic/Docs/fill-out-forms/overview.html)

### PCW CONTACTS

Nigel Whitfield can be contacted by post via PCW (address, p10) or email [internet@pcw.co.uk](mailto:internet@pcw.co.uk)

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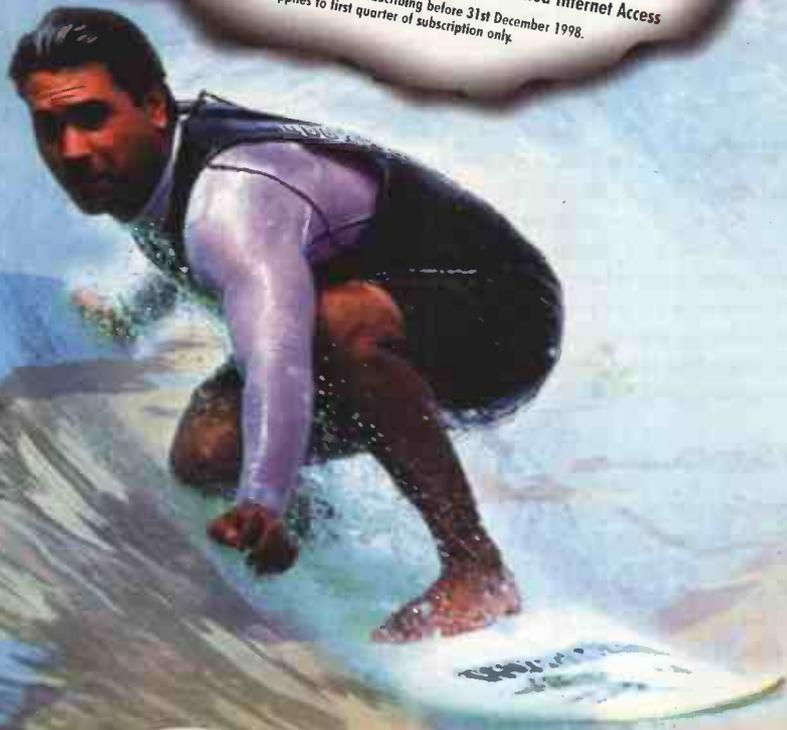
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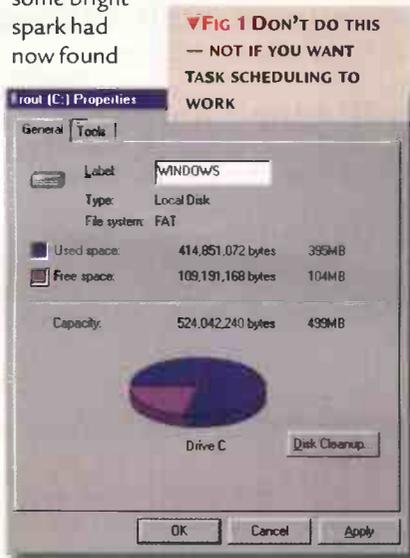
# Task master

You've loaded up Windows 98 but the **Task Scheduler** doesn't work — even tech support can't help. Tim Nott has a way to get things moving again. Plus, a 'can't be done' problem is solved.

**A**ndrew Hawkins celebrated the launch of Windows 98 by buying and installing it. And everything went smoothly except that the Task Scheduler wouldn't work. Having drawn a blank at the MS Knowledgebase, he turned to the newsgroups and made the remarkable discovery that not only is there a newsgroup dedicated to the Task Scheduler, but that other members were having the same problem. No solution had been found. So Andrew bit the bullet, wiped the C: drive and did a clean reinstall, but... same problem. He then dipped into his free 90 days' technical

*... he made the remarkable discovery that other newsgroup members had the same problem*

support from Microsoft. It gave him lots of helpful tips about altering startup items, none of which helped. So, back to the Task Scheduler newsgroup, and lo, some bright spark had now found



the answer. Like many people, Andrew had separate disk partitions (drive letters) for Windows, applications and data (you can give a drive or partition a name, or "volume label", which he had done). And here lies the bug: if you label the partition or

drive on which Windows resides as "Windows", then guess what? Yup, the Task Scheduler won't work [Fig 1]. But there's a happy ending. When Andrew changed the label, the Task Scheduler sprang to life.

## Dear Santa...

Traditionally, this is the issue where we *Hands On* columnists write our "Dear Santa" wish list. This year, I'm not going to be greedy. Well, actually, I'm going to be greedier than last year, when I forgot to do it at all, but I'm going to confine my list to just one item I'd like to see addressed in the next release of Windows.

First, Microsoft has made great efforts to protect us from the goblins on the internet. We can filter out "unsuitable content" such as pornography, reject "unsigned" content that may damage our PCs, be warned when entering the "internet zone", be

warned when sending information or downloading programs, and so on. In fact, it often becomes impossible to see the screen for the warning messages, and the Internet Explorer Options comprise a wealth of security features, most of which are incomprehensible.

But what of the enemy within? Let's have a better way of protecting family PCs from the ravages of small children than the hideously unfriendly Poledit. Let's have a way of password-protecting drives or folders on family PCs, so that parents can keep their personal and work files out of the reach of children, and elder brothers can keep their collections of "unsuitable content" away from the eyes of younger siblings.

**On an equally topical** but brighter note, two years ago I wished for a screensaver of a waterfall. Syntrillium, which brought us the very wonderful Windchimes and the equally splendid Cooledit, has come up trumps with Snoqualmie [Fig 2], named after the falls in Washington. This does much more than waterfalls: like all Syntrillium products there's a rich source of displacement activity to be had in configuring it, or using the pre-set schemes which include fountains, fireworks and a huge range of kaleidoscopic or random patterns. You can get a trial version from [www.syntrillium.com](http://www.syntrillium.com)

➔ **Following last month's** venture into the impossible, here's another long-standing "can't be done" which has now been solved. This one comes from Deepu Chandy Thomas, a 19-year-old engineering student in India. It is for either Windows 95 or 98 with IE4. You can give any folder a custom icon and tooltip text. Use Notepad to create a file containing the following, in the desired folder:

```
[.ShellClassInfo]
IconFile=Path to the icon file
InfoTip=Any text you want
Save this as DESKTOP.INI, then set the folder's system attribute from a DOS box by navigating to the folder and using the attrib command. For example:
CD C:\WINDOWS\DESKTOP
ATTRIB +S MYFOLDER
Note that if the path to your folder
```

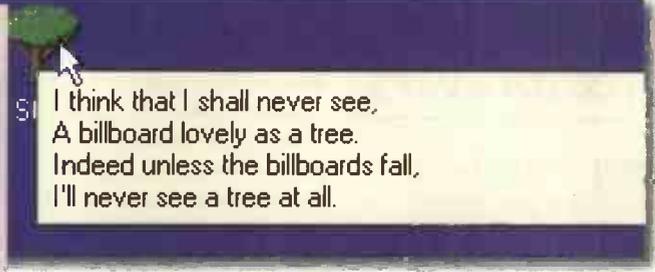
**[FIG 5]**

```
[.ShellClassInfo]
IconFile=c:\windows\system\shell32.dll
IconIndex=41
InfoTip = Your text here
```

contains a long folder name, or names with spaces, you need to enclose it in double quotes, for example:  
 CD "C:\WINDOWS\DESKTOP\MY NEW FOLDER"  
 Switch focus to the folder containing the desired folder (or in this case, the desktop) by clicking on it, then hit F5 to refresh it. You should see the icon change, and hovering the pointer over it will produce a tooltip containing the chosen text [Fig 3]. But things get more complicated if you want to pick an icon from a file containing several, as I found out after a glorious time-wasting afternoon.

**First you have to** catch the icon number. You can do this by creating a shortcut (to anything) and then right-clicking it, Properties, Change Icon. Hit the browse button and select the file from which you want to extract the icon: in the example [Fig 4] it's SHELL32.DLL which contains 80 icons. They are numbered, starting at 0 and working down, then across, so that the tree icon is number 41. Then change the desktop.ini file to read as shown in Fig 5. You might find that the icon does not change, even having refreshed the desktop several

**➔ FIG 3**  
**CUSTOMISE FOLDER ICONS AND TOOLTIPS WITH A DESKTOP.INI FILE...**



times. If this is the case, use the Tweakui "Repair Icons" tool, or go to Display Properties, Appearance and change the icon size by a few pixels. Hit the Apply button, then change the size back and OK out.

➔ **Here's a quick addition** to the long-running "Shutdown blues" saga, where the PC never gets beyond the "Please wait..." screen. Mark Lomas suffered this problem and

cured it by using the Windows 98 System Configuration utility mentioned in the October *Hands On Windows* column. You can get at this from Start, Programs, Accessories, System Tools, System Information and then go to the

**... the pre-set schemes include fountains, fireworks and a huge range of random patterns**

Tools menu, although it is probably quicker to Start, Run... MSCONFIG. On the General tab, click the Advanced button and you will find a checkbox to Disable Fast Shutdown. Mark did so, and his problem disappeared.



**▲ FIG 4 ...BUT FIRST CATCH YOUR ICON**

➔ **Here's a funny thing.** Robert Trzebiatowski

found that some of his Start Menus were too long to fit the screen and showed little scroll arrows at the top and bottom. Well, that's a "feature" of Windows 98; on 95, the menu used to break into multiple panels. I get around it by organising my menus so that no single level is too long for the screen. However, when Robert tried this, the menus shrank but the arrows stayed put, and with only one item on a menu, the arrows obscure it. I can't reproduce this, because the arrows go away politely on my PC. So, has anyone else experienced this, or better still, found a cure?

**QUICKIES**

- ➔ **To select all** but a few files in a folder or Find results, first select the ones you don't want, then Edit, Invert selection.
- ➔ **When modifying** an item (such as the Active Title bar) in Display Properties, Appearance, clicking on it in the picture is quicker than scrolling down the list.



## Questions & answers

**Q** I would like to archive large quantities of data from a server onto CD-R and wish to do this on a time basis (e.g. all files prior to 31st December 1995). Find file on Windows 95 and NT allows the files to be selected but loses the directory structure, which I need to make sense of the data copied to CD. Is there a method or utility available which will allow me to carry out this process?

TONY DAWSON

**a** You can manage this with DOS XCOPY, Windows Find, some spare disk space and a little ingenuity. Let's take an example. Say I want to copy all the files in my Hands On 95 folder and subfolders modified between 25/09/96 and 24/09/97. First, I create a temporary store for the files at F:\TEMP. Then I open a DOS box and type: `xcopy "e:\words\pcw\Hands On 95" f:\temp /D:25/09/1996 /s` The quotes are needed because of the long folder name. The date form must match that shown on the screen when you type DATE from DOS, and the /s switch copies their subdirectories and their contents. The snag is that the date filter only works one way (i.e. it selects files modified on or since the date given) so my next step is to run a Windows Find on F:\TEMP to get all the files modified between 25/09/1997 and the present, with "Search subfolders" ticked. Now I have to be a little careful, as the copied subfolders, unlike the files therein, will bear the current date and if I delete those I'll

delete all their contents regardless of date. So, I click on the "Type" heading to group all the folders together and then delete everything but those folders (see "Quickies", p255), leaving just the new folders and any files they contain dated before 25/09/97, ready to be transferred.

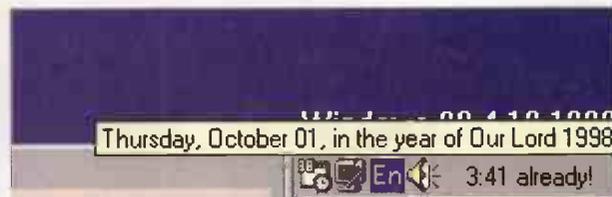
You can find out more about the XCOPY command by typing HELP XCOPY from the DOS prompt. If you haven't got the DOS help files installed, you'll find them in the OLDMSDOS folder on the CD-ROM (HELP.COM and HELP.HLP). With Windows 98 you may also need to copy the XCOPY files (XCOPY.EXE, XCOPY32.EXE and XCOPY.MOD) to the WINDOWS\COMMAND folder.

**Q** On my computer and on my dad's laptop, the time is displayed in 24-hour format. On my mate's PC, his clock is 12-hour and has PM after it. I cannot find anything about it in Windows Help, the time settings in Control Panel or even the registry.

GRAHAM

(SURNAME NOT SUPPLIED)

**a** It is in Control Panel, but under Regional Settings rather than Date/Time, where one might expect. You need to go to the Time tab and look in the Time Style box where you'll see something like hh:mm:ss tt. You can choose a different format from the drop list, or have more fun typing in your own [Fig 6], doing excitingly futile things such as putting the minutes before the hour. The salient points are as follows. Upper or lower-case H switches between 24- and



**▲ FIG 6 HOURS OF FUN**  
CUSTOMISING THE TIME  
AND DATE

12-hour formats, and a double letter forces a leading zero. The tt suffix appends AM/PM, but you can change these as well in the boxes below. Unfortunately, you only get eight letters, which rather stymied my intention to have "Far too early to get up" and "Time for a siesta" on the system tray clock. Similar tricks apply to the Date tab: d and dd give the day number, with or without a leading zero, while ddd and dddd give the short or full weekday name. One to four Ms work

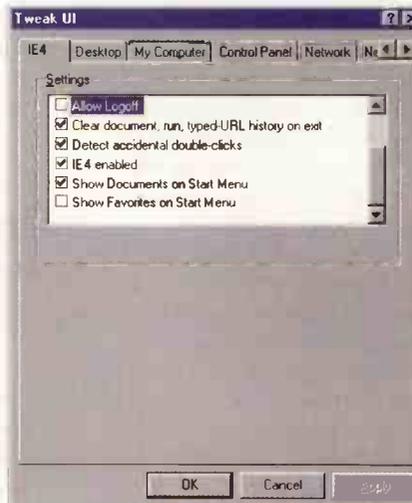
similarly for the month, and two or four Ys give the long or short year. Keeping the best for last, you can add text anywhere in the date or time by enclosing it in single quotes, but beware that more than a few characters kills the system tray clock. These settings affect not just the clock, but the way dates appear in Explorer and in applications.

**Q** I have recently upgraded to Windows 98 and have succeeded in removing most of the desktop enhancements because I do not like the new look. But two items remain:

on my Start menu, there is a rather nasty "Log Off USER", and also the "Favorites" folder. Can I get rid of these? Especially the Log Off one because I do not have multiple users installed.

TOM GREK

**a** Yes, you can kill both of these from the IE4 tab of TweakUI [Fig 7] which now comes with Windows 98. If you have not yet installed it, you will find it in the Tools\Reskit\PowerToys folder on the Windows 98 CD. Open the readme.txt file in Notepad for details of how to install TweakUI.



**▲ FIG 7 GETTING RID OF**  
THOSE UNWANTED START  
MENU ITEMS

### PCW CONTACTS

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# Putting the boot in

With a dual boot system, you can easily switch between operating systems. Roger Gann shows you how to do it in Windows 9x.

**W**indows 9x introduced the concept of dual booting. This lets you choose, at boot time, which operating system you wish to load; normally the choice is between Windows 9x and an earlier version of MS-DOS. The dual boot option is automatically installed if you upgrade to Windows 9x and you choose to install the new Windows in a directory other than that where the old version resides.

**Here's an example.** Windows 3.1x is installed in C:\Windows and you opt to install Windows 9x in C:\Win9x. This is not the default option so it involves extra hassle; you'll have to reinstall all your old applications, as they won't automatically be upgraded to Windows 9x.

**So why would you want to retain that old clunker, MS-DOS?** A number of reasons spring to mind, but the main one would be to play old DOS games like Myst or Seventh Guest. Games developers are notorious for taking outrageous liberties with their coding in order to squeeze every last drop of speed

from a PC, and old games just don't run well on a multitasking operating system like Windows 9x. They know nothing of peaceful co-existence with other programs and expect to have the run of the place — that is, have exclusive access to all your hardware. I think the best way to do this is to run them from MS-DOS. OK, you could create a boot floppy, but where's the fun in that? A much more elegant solution is to dual boot from your hard disk.

With dual boot installed, there are two ways to select the old operating system to load. At boot time, if you press F8 when you see "Loading Windows 95" or hit the Control key when you see the Windows 98 splash screen, you'll see a menu of options, one of which is "load previous operating system". Or, instead of hitting F8, you simply hit F4 to directly load the old OS.

**One link that Windows 9x keeps with the dark past** is that it uses the same or similar filenames for its system and startup files. With dual boot, this would ordinarily mean that you'd wind up with two sets of almost identically named files in the root directory of your boot drive — an impossible situation. Windows 9x gets around this by dynamically renaming these files, depending on what operating system you choose to boot with. During Setup, Windows 95 preserves the following MS-DOS files by renaming them [Fig 1]. When you press F4 at system startup and select Previous Operating System to start MS-DOS, these files [Fig 1] are renamed as their original MS-DOS filenames and the Windows 95 version files are renamed as shown in Fig 2.

**How to add dual boot**  
What if you want to add dual boot at a later stage? Maybe you've gone and done what most people do when they install Windows 95 and accepted the



← USING MS-DOS TO RESTORE DUAL-BOOT CAPABILITY TO WINDOWS 95

defaults and installed it over Windows 3.1x, thus losing the dual boot option? Or maybe you've bought a new PC with Windows 9x cleanly installed on it. This isn't the end of the dual boot issue: it is possible to manually reinstate this useful feature. Bear in mind that *Ye Olde* MS-DOS cannot see partitions larger than 2.1Gb, so dual boot isn't going to work on multigigabyte FAT32 drives.

**Here's how to restore the dual-boot capability when Windows 95 was installed without this capability** having been configured. The easiest way is if you upgraded an existing DOS/Windows 3.1 installation. In this latter case, we have a head start because as we've already seen, Windows 95 leaves the old DOS system files in place but renamed.

- 1 Using a text editor** add a line to the [Options] section of the MSDOS.SYS file.
- 2 This is a protected system file** so right-click it, select Properties and uncheck the Read Only box first. Then add this line to it:  
BOOTMULTI=1
- 3 Save the file** and don't forget to restore the file's Read Only status.
- 4 Reboot** — and this time when you press F8 you'll see an extra entry on the Boot menu, "Previous version of MS-DOS". See p258 for details of how to edit this file.

**If there is no "previous operating system",** it's not quite as easy. First you have to find a bootable system floppy disk that has MS-DOS 5.0 or better. Remove the system attributes from its system files, IO.SYS and MSDOS.SYS, otherwise you won't be able to perform this trick. This is done with the ATTRIB utility (you'll find it in the \Windows\

[FIG 1]

Original MS-DOS filename	Renamed file
COMMAND.COM	COMMAND.DOS
CONFIG.SYS	CONFIG.DOS
AUTOEXEC.BAT	AUTOEXEC.DOS

[FIG 2]

Windows 95 filename	Renamed file
COMMAND.COM	COMMAND.W40
CONFIG.SYS	CONFIG.W40
AUTOEXEC.BAT	AUTOEXEC.W40



Command folder). The files in question will be marked with the Hidden, System, and Read Only attributes, so to clear them from IO.SYS you'd type:

```
ATTRIB -H -S -R IO.SYS
```

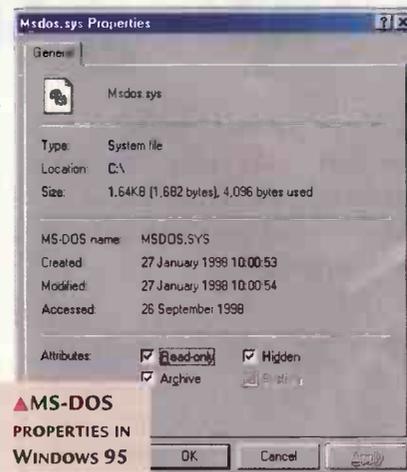
Having done this, you can rename the IO.SYS and MSDOS.SYS files on the floppy to IO.DOS and MSDOS.DOS.

## ALLOWED ENTRIES IN MSDOS.SYS

Windows 95 Setup creates a hidden, Read Only system file in the root of the computer's boot drive, named MSDOS.SYS. Confusingly, this is the same name as the key MS-DOS system file but that was a binary, program file, not a text file as is the Windows 95 MSDOS.SYS. If anything, MSDOS.SYS is more related to another Startup file of yore, C.SYS. The [Options] section allows you to tailor the startup process to your specific needs.

Here's a list of some of the allowed entries in MSDOS.SYS. The default value for each of the above options is 1 — that is, enabled. So set the entry to 0 to disable it.

Entry	Description
BootGUI=0	Disables the automatic graphical startup. This has an effect similar to adding shell=/D /K autoexec.bat to CONFIG.SYS, and is easier to use.
BootKeys=0	This prevents any of the special startup option keys (that is, F5, F6, and F8) from functioning. Use this setting to prevent users "tinkering".
BootMenu=1	Displays the Windows Startup menu by default, eliminating the need to press F8 to see the menu.
BootMenuDefault=#	Sets the default menu item on the Windows Startup menu; the default is 1 or 4, as appropriate.
BootMenuDelay=#	Sets the number of seconds to display the Windows Startup menu before running the default menu item.
BootMulti=0	Disables dual-boot capabilities (for example, the ability to start MS-DOS by pressing F4).
BootWin=0	Disables Windows 9x as the default operating system; useful only with a version of MS-DOS 5 or 6.x on the computer — similar to pressing F4 at system startup.
LoadTop=0	Specifies not to load COMMAND.COM or DRVSPACE.BIN at the top of conventional memory. Set to 0 if you have compatibility problems with some DOS software.
Logo=0	Prevents the animated logo from being displayed and, as a consequence, avoids hooking a variety of interrupts that can create incompatibilities with certain third-party memory managers. You can also temporarily kill the "clouds" splash screen by hitting the ESC key.



**1 Copy both files** to the root directory of your boot drive (usually drive C).

There are no restrictions on where these files should be placed as long as they are from MS-DOS version 5.0 or later.

**2 If you're using** disk compression software such as DoubleSpace or Stacker, don't forget to copy IO.DOS, MSDOS.DOS, COMMAND.DOS, CONFIG.DOS and AUTOEXEC.BAT to your host drive, as well. Do the renaming before copying the files across to the hard disk, otherwise you'll overwrite the Windows 95 versions of these files.

**3 Copy** the COMMAND.COM file from the MS-DOS floppy disk to the root directory of your boot drive (usually drive C) and rename it COMMAND.DOS. Do it in one go, thus (*all on one line*):  

```
COPY A:\COMMAND.COM C:\COMMAND.DOS
```

**4 Create** CONFIG.DOS and AUTOEXEC.DOS files which are appropriate for the MS-DOS version you are using. You can start by looking at your old CONFIG.SYS and AUTOEXEC.BAT files and renaming them. For gaming, make sure that you have your real mode drivers for the CD-ROM and sound card loaded. Also, check that MSDOS.SYS has the required MultiBoot=1 entry and if it hasn't, add it.

**Dual boot is** now restored and you can start the computer using Windows 9x or the earlier version of MS-DOS.

### PCW CONTACTS

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# What a performance

Andrew Ward wonders whether NT's new **routing capabilities** can cut the mustard.

In the old days, when networks were simply there to save having to walk from one machine to another with a floppy disk, it was common to route between two IP networks using any old 286-based DOS machine, a couple of obsolete 8-bit network cards and freely-available routing software. Now, network performance is more critical than the speed of individual desktop systems and extremely high-performance dedicated network devices are essential for routing, bridging and switching functions.

Microsoft, however, would have us believe otherwise and continues to enhance the routing capabilities of Windows NT in the expectation that we will start to use NT machines instead of dedicated routers. But I've had so much trouble with NT's operation in a routed IP environment recently that I'm doubtful of its true abilities in this area.

Specifically, I have continual trouble with the NT machines on this network producing some sort of IP traffic that makes an off-network access, causing the ISDN router (which is not an NT box) to dial my ISP. It's long been necessary for manufacturers of such devices to have to ignore much of the network traffic generated in ever increasing volumes by each new version of network operating systems, but Microsoft and other PC software vendors appear to be able to continually outwit them.

I spotted long ago that the Remote Access Autodial Manager service causes a spurious access each time a user logs on, but that's easily solved by disabling the service (or rather, changing the startup mode from Automatic to Manual) within the Services control panel. The trouble is, I did that some time ago, and when the installation of Windows CE Services reinstalled RAS the other day, the service was of course re-enabled. I chose the same day to install the Freeserve Internet software on another system, which also causes an RAS installation. Coincidentally, another user installed RealNetworks' RealPlayer on yet a third machine on the network —

## NETWORK SOUND AND VISION

The new Windows Media Player for Windows NT 4.0 supports a huge range of different media types, including Windows Media formats (formerly known as NetShow), RealNetworks RealAudio and RealVideo (version 4.0 or less), AVI and Mpeg. Also included is Musical Instrument Digital Interface (MIDI), Apple QuickTime, Macintosh AIFF Resource, Sun Microsystems and NeXT .au and .snd files, as well as basic .wav files.



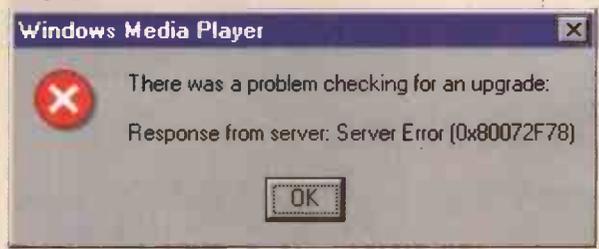
◀ Fig 1  
WINDOWS MEDIA PLAYER WILL PLAY QUICKTIME FILES UNDER WINDOWS NT

play a file which uses a codec you don't have, it will be automatically downloaded. There's another feature on the

Windows Media Player [www.microsoft.com/windows/mediaplayer/download](http://www.microsoft.com/windows/mediaplayer/download) has a couple of nice features. Playlist allows authors to create entire shows of different pieces of content, and the codec auto-download feature does pretty much what it says: if you need to

help menu which is supposed to check for a later version of the Media Player itself: as you can see from Fig 2, this doesn't necessarily work. With the Windows Media Player, the video window can be resized as desired, even to as large as full-screen. Of course, this won't increase image resolution, and your hardware almost certainly won't be able to play a video at this size and at full speed.

▼ Fig 2 IN THEORY, YOU CAN CARRY OUT AN ONLINE CHECK FOR A LATER VERSION OF THE WINDOWS MEDIA PLAYER



and this causes 12 spurious network accesses an hour. It took several hours of head-scratching and network monitoring to eliminate all these separate causes, after swelling BT's coffers considerably.

If you have a similar configuration, don't use RealPlayer at all (Microsoft has now released the Windows Media Player for Windows NT which will handle most multimedia data types you're likely to



# hands on windows nt

come across — see panel, above) and whenever installing or re-installing RAS, go to the Services control panel and disable the Remote Access Autodial Manager. I am currently investigating the possibility that the Windows CE services themselves also generate off-network traffic, and I will report back in due course.

## ■ Changing drives

Linda Davies has asked what ought to be an easy question. How does she go about changing the hard drive on her system? It sounds easy, but there's no obvious way to go about this procedure under Windows NT.

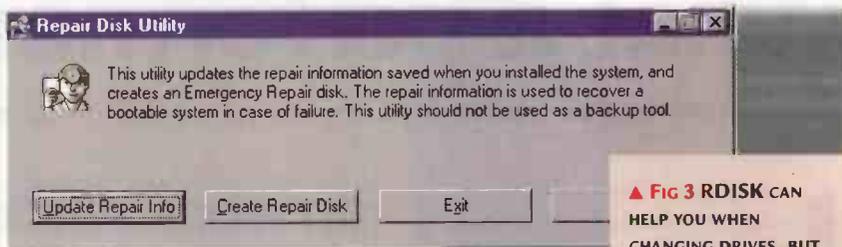
The most obvious answer seems to be to remove the old drive, insert the new one, install Windows NT and recover all data and applications from backup. There are two problems with this.

Firstly, it means having the system out of action for a considerable period of time while Windows NT is reinstalled; and secondly, the system is not equipped with a tape drive. Why is that important?

Megabytes of system, user and application configuration information are stored in the registry, so it is vital to recover the system registry as well as the other disk files. The NTBackup program supplied with Windows NT

will only copy the registry to and from the local machine. Here, Linda's machine is backed up across the network by a system elsewhere on the network, which has a SCSI tape drive.

When attempting to backup or recover the registry from tape using NTBackup, note that you have to also



backup or restore at least one file from or to the system drive (the drive where the registry files are stored by Windows NT). Otherwise, NTBackup doesn't even show the dialog box where you get the chance to restore the registry. Seagate Backup Exec leads you to believe that it is possible to back up the registry, and it says nothing about not being able to carry out this operation across the network. But of course, it can't, so neither is that a solution.

By the way, if you ever do need to reinstall Windows NT before recovering from backup, make sure you also install the latest service pack, too. There have been instances in the past where changes

*If you ever need to reinstall Windows NT before recovering from backup, make sure you also install the latest service pack*

made in a service pack have rendered tapes written after the service pack was installed (that is, when you took the backup) unreadable by

a system without the service pack (that is, when you have just reinstalled NT on the new hard drive). If you use a third-party product like Seagate Backup Exec, that may well require a minimum service pack level, anyway. So, while the restore operation obviously will bring you up to the latest service-pack level, you almost

certainly need to apply it first in order for the restore to happen successfully. There are a few ways to back up the registry across the network. The first uses RDISK [Fig 3]. When you run the RDISK utility, which is intended for creating emergency repair disks, one of the options backs up your registry information to the hard drive. Select Update Repair Info, and RDISK will store compressed copies of your registry in the \repair folder in your Windows directory. These can then be copied across the network onto another drive, just like any other files, or backed up across the network onto a tape. Indeed, a normal full tape backup operation would copy these files automatically.

**Alternatively, you can** actually make an emergency repair disk, boot from the Setup disks, select the Repair option and then choose the menu option to restore the registry. This only works if your registry is actually small enough to fit on a floppy disk (mine certainly isn't). The first step, whichever approach you take, is to ensure that the repair files are up to date, by running RDISK. This operation should be part of your regular system maintenance anyway. Note that RDISK does not, by default, back up user account information. If you want this backed up, you need to run RDISK with the undocumented /s option. However, if you use the command RDISK /s then RDISK runs immediately.

**But using this technique,** you still face the problem of recovering the registry from the files that RDISK saved. There's no easy way to do this. Expanding the files requires the use of the program EXPNDW32.EXE, which only comes with the Resource Kit. Once expanded, you will need to copy the files to where Windows stores the registry files, which is in the folder: %systemroot%\system32\config And in any case, you cannot do that

## SUMMERTIME BLUES

**G**ary Powell poses an interesting question. When does Windows NT actually implement British Summer Time? Does it follow the rules, and actually change at 0200 in the morning? If so, Gary wonders what happens if you have set the scheduler to run a task at exactly that time. Does it run twice when the clocks go back? Does it get omitted altogether?

A very interesting question, Gary, but I'm not sure I want to stay up until 2am at the end of October to find out the answer. Does anyone else know what happens? What beats me, incidentally, is how citizens of the USA manage to use the scheduler at all, since it uses the 24-hour clock.

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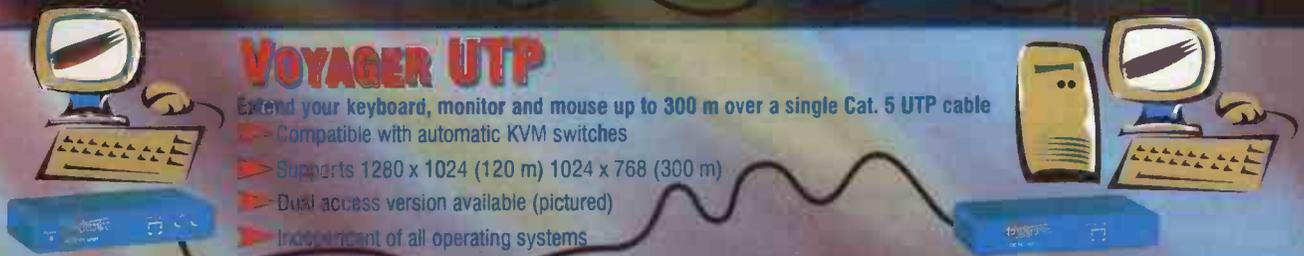
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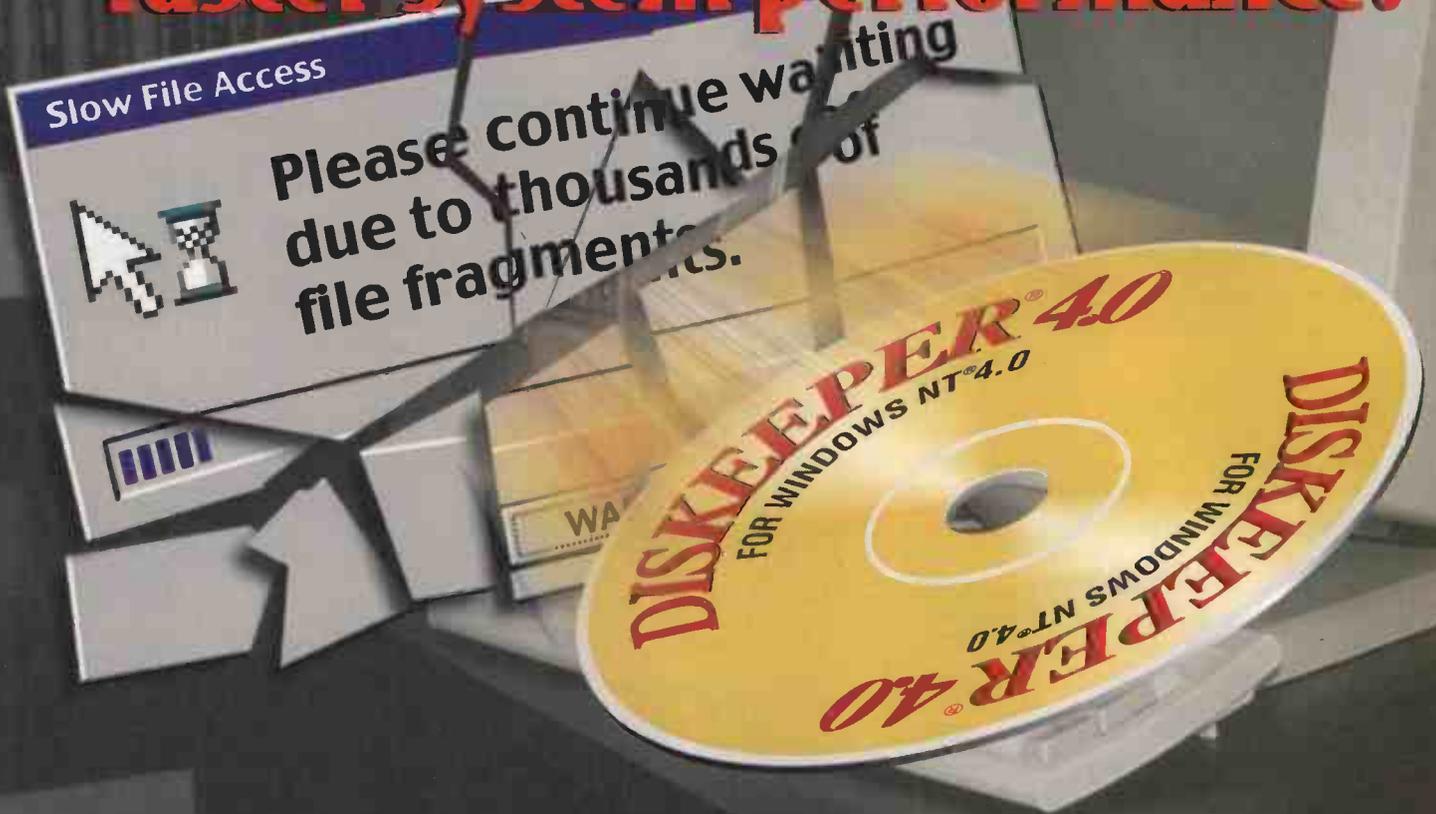
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*"Disk fragmentation can cause performance problems. You should consider running a defragmentation program on a regular basis."*

— Microsoft Windows NT Server Resource Guide\*



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[FIG 4]

## Output for creating NT users

```

NET USER triley password01 /ADD /COMMENT:"Information Services" /COUNTRYCODE:0-
/EXPIRES:NEVER /FULLNAME:"Toby Riley" /HOMEDIR:\\SERVER\TRILEY$ /PASSWORDCHG:YES-
/SCRIPTPATH:NETLOGON_FILE.BAT
NET USER ajones password01 /ADD /COMMENT:"Collections" /COUNTRYCODE:0 /EXPIRES:NEVER-
/FULLNAME:"Andy Jones" /HOMEDIR:\\SERVER\AJONES$ /PASSWORDCHG:YES /SCRIPTPATH:-
NETLOGON_FILE.BAT
NET USER jbloggs password01 /ADD /COMMENT:"Underwriting" /COUNTRYCODE:0 /EXPIRES:-
NEVER /FULLNAME:"Joe Bloggs" /HOMEDIR:\\SERVER\JBLOGGS$ /PASSWORDCHG:YES-
/SCRIPTPATH:NETLOGON_FILE.BAT
NET LOCALGROUP "Information Services" triley /ADD
NET LOCALGROUP "Collections" ajones /ADD
NET LOCALGROUP "Underwriting" jbloggs /ADD
MD D:\HOME\Triley
MD D:\HOME\Ajones
MD D:\HOME\Jbloggs
NET SHARE triley$=D:\HOME\TRILEY /UNLIMITED /REMARK:"Toby Riley's Home Directory" /Y
NET SHARE ajones$=D:\HOME\AJONES /UNLIMITED /REMARK:"Andy Jones's Home Directory" /Y
NET SHARE jbloggs$=D:\HOME\JBLOGGS /UNLIMITED /REMARK:"Joe Bloggs's Home Directory" /Y
CACLS D:\HOME\TRILEY /E /R EVERYONE
CACLS D:\HOME\AJONES /E /R EVERYONE
CACLS D:\HOME\JBLOGGS /E /R EVERYONE
CACLS D:\HOME\TRILEY /E /G ADMINISTRATORS:F
CACLS D:\HOME\AJONES /E /G ADMINISTRATORS:F
CACLS D:\HOME\JBLOGGS /E /G ADMINISTRATORS:F
CACLS D:\HOME\TRILEY /E /G TRILEY:C
CACLS D:\HOME\AJONES /E /G AJONES:C
CACLS D:\HOME\JBLOGGS /E /G JBLOGGS:C
COPY "D:\HOME\LOGINSCRIPTS\Information Services\*.*" "D:\HOME\Triley"
COPY "D:\HOME\LOGINSCRIPTS\Collections\*.*" "D:\HOME\Ajones"
COPY "D:\HOME\LOGINSCRIPTS\Underwriting\*.*" "D:\HOME\Jbloggs"

```

- Denotes that the line of code continues

▲ FIG 4 SAMPLE SCRIPT CREATED BY TOBY RILEY'S EXCEL MACRO

while Windows NT is running: you have to install a second copy of NT, boot from that and restore the files. Indeed, another way of backing up the registry is by installing a second copy of Windows NT on the same drive but in a different directory. When you boot from the second copy, the registry files of the first copy are accessible just like any other files. This is probably the easiest solution and the least likely to go wrong, although it might not be the quickest.

In summary, our procedure will look like this:

- 1** Install a second copy of Windows NT to the hard drive.
- 2** Backup the entire system (including the registry files but excluding the second copy of Windows NT) across the network to a tape drive or hard drive.
- 3** Fit the new hard drive. Install a copy of Windows NT but to a different directory name than was used previously.

**4** Then use this copy of Windows NT to restore from the backup that you took earlier.

### ■ Automating new users

Toby Riley has very kindly sent me an Excel macro which he uses to automatically generate all the commands you need in a script to set up a new-user account. This greatly simplifies the work needed to set up new accounts. I have put the spreadsheet on our cover-mounted CD-ROM this month and you will find it under "Create NT Users.xls". An example of what the output looks like is shown above [Fig 4]. You can, of course, tune this to your own requirements.

This spreadsheet may well be what P. McLaughlin is looking for. He (or she) wants to know whether there is a utility to export and import the user account information from the SAM (Security

Accounts Manager), so it can check the names against an existing database of users. Well, not as far as I know, although someone might have written a third-party add-on. However, using a macro such as this, the existing database can be used to populate a spreadsheet and hence a script file.

All you have to do when adding a new user is to type in the user's name and department and the Excel table is then automatically populated with the individual script lines. In Toby's version, clicking on a button drives a macro which then copies all these lines into a spare Excel sheet in a format ready for cutting and pasting into a script file.

### PCW CONTACTS

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# Connection correction

**Without connectivity, the mobility of PDAs is limited. Mark Whitehorn shows you the way to get around this. Plus, the new Psion 3MX.**

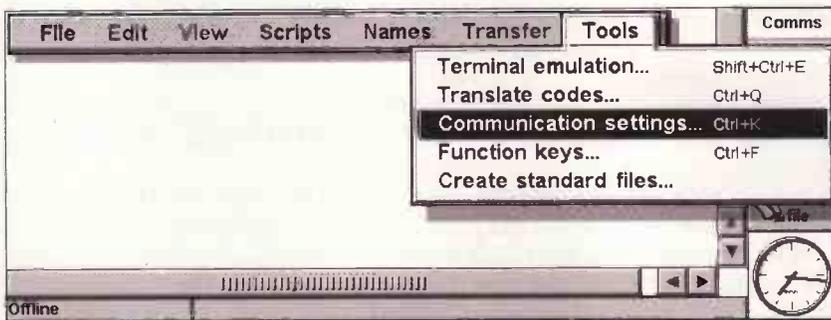
**P**eople want to move data between a PDA and a PC or a LAN for several reasons; it all depends on the use to which they put their PDA. Many people produce work (documents, worksheets) on a PDA and want to move it wholesale to the PC for further editing, printing and dispatch across the internet. This is a two-way process because partially-completed work can be moved to the PDA for editing while on the move.

**People also use PDAs** primarily as an address-list-cum-organiser. Such users are not really concerned with moving specific documents; instead, they want to synchronise data held in applications on both machines. Such people typically use proprietary applications like Microsoft Outlook and Psion Agenda, or Lotus Organizer and Outlook on a WinCE machine. Corporate users maintain a database at work. Typically, it has a proprietary back end such as Oracle and a custom front-end application. These users are keen to move the application to a PDA. A number of interesting problems accompany this, not least of which is maintaining data integrity with a disconnected device.

All these functions can be performed from PDA to PC via a bit of wire and a serial connector on the PC. However, for some PDAs and some applications, the same can also be done via a network connection. This is usually more expensive but offers the promise of a much greater transfer rate.

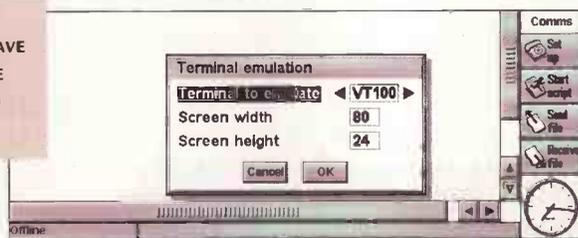
## Net connectivity

The two easiest ways of connecting to the internet are via a service provider or through the LAN at work. There are several PDAs out there — Pilots, Psions, WinCE machines (of various flavours). We cannot



**FIGS 1 & 2 SOME PDAs HAVE BUILT-IN COMMS SOFTWARE LIKE THIS (IN THE PSION 5)**

possibly cover them all, so I'll try to be as general as possible while describing the most likely options. Let us assume that you want to connect via an internet service provider (ISP). You'll also need a modem. But before you rush off and lay out money on either, you need to know some of the background to all of this comms stuff. Why? Because most ISPs will expect you to be using a PC or a Mac to connect to their service and that is what you haven't got. It's going to make a major difference.



**A network connection is more expensive but offers a much greater transfer rate**

**A tiny slice of history** is relevant here. In the good-old days when I was a boy, PCs used DOS. No GUI, just a good old-fashioned text-based interface. When companies like CompuServe and CIX started up, they weren't really ISPs because the internet was still in its infancy. They were Bulletin Boards (BBs) where you could send messages to other users of the same service, read primitive news groups and so on. You used a modem to reach the bulletin board and ran a piece of software on the PC that was known as a terminal emulator. This effectively dumbed-down your PC so that it became a device for sending and receiving text characters. Whatever you typed on the keyboard appeared on the screen and was

sent via the modem to the BB. If and when the BB deigned to send characters back, they appeared on-screen. You could issue special commands to send and receive files, but basically the entire exchange with the BB was text-based.

Nowadays, all that has changed. Not only does your PC run some flavour of Windows, but the ISP will provide special "front-end" software which runs on your PC. This software is by no means dumb. In fact, a great deal of the art of providing a good ISP service lies in the cleverness of this software. The smarter it is, the less data has to be transferred down the phone line to you and the faster the service appears to run. So, you plug in and configure the modem, load the front-end software and connect to the ISP. (Yawn... no-one likes history lessons, but the relevance of this one is, hopefully, becoming clear.)

You have a PDA, but a PDA will not run the special software provided by the ISP — not even if it is a WinCE machine. So, unless the ISP happens to provide a special front-end for your particular PDA, you cannot connect to the ISP via the normal route. Even if you could get a connection, you would want to surf the web, for which you would need an internet browser; but neither Netscape nor IE will run on your PDA.

**There is a solution**, however, otherwise we wouldn't be going through all of this. The first, and potentially easiest, remedy is

to go in via the historical route. Most PDAs either have a terminal emulator built in [Figs 1 & 2] or you can find one on the internet. (Yes, I realise there is a "Catch 22" built in to that statement, but we'll work on it.) If your chosen ISP still provides a text-based interface then you can enter via that. Terminal emulators can be a pain, but their saving grace is that they dumb everything down to the lowest common denominator: the ISP software cannot tell if your machine is a PC or a PDA and neither will it care. It will simply send and receive text characters. This still won't get you to the stage of surfing the web, however, because HTML demands that your machine is running some form of browser.

**The second approach** is to find some form of software that will run on your PDA and which provides a GUI interface to an ISP and includes a browser. And here we reach another potential stumbling block. Web browsers are, theoretically, very simple. They receive a string of data in HTML format and turn it into text and pictures on your screen.

In practice, modern browsers are large, complex bits of software. The most recent version of Netscape takes so much processing power that it totally socks a 486/25 with 8Mb of RAM. I know — I've just dragged out an old machine and tried it. Now look at your PDA: if it's a Psion 3c, then as much as I dearly love that machine, it lacks the horsepower to run a fully-featured browser at anything like "normal" speed. (*I wonder about the 3MX though? — see pariel, below.*) The end result is that browsing from a PDA is usually slow and/or the browser offers a reduced feature set.

## Off and on

All this must sound like I'm trying to put you off the whole idea. Well, I most certainly am not. I love playing with these machines and there is oodles of fun to be had in connecting to the internet. But if or when you finally get there, it would be a shame if you were disappointed with the result. A PDA is nothing without software and there has been an explosion of applications

## PSION SENSE

### ➔ The PsiSync alternative

I had a go at PsiWin in a recent column, only to discover that Bob Walder, who writes *Hands On Networks*, had done the same in the August '98 issue. Bob kindly forwarded this email to me from reader Jake McMurchie jakemc@netcomuk.co.uk:

**"I read your article in the August issue of PCW and have to agree with Bob Walder's opinion of PsiWin. Fortunately, Psion pointed me to PsiSync,**

**an item of shareware written by Brian Cadge and available from [www.kerswell.demon.co.uk](http://www.kerswell.demon.co.uk)."**

This software allows full and easy transfer of information between Outlook Contacts, Calendar and Notes files, and Psion agenda and database files, neatly setting up the notes as entries in a database on the Psion. It won't translate Word files to your PC, but since you have to shell out for PsiWin if you want the connector cable, you can use the Psion software for that.

And the best thing about it? It's yours for £14. So, if you are unhappy with PsiWin, try this.

### ➔ Psion tip of the month

If you are performing any spreadsheet calculations, zoom in as far as possible if you need to perform a major recalc — it really does seem to make a significant difference to the speed. This applies particularly to the 5, but also to the other models.

appearing in the past six months. All seem to be of interest so, for the next few instalments of this column, I'll try to touch on all these topics in one way or another.

## Love story

I think I'm in love (*sigh...*). I've got it bad. There you are, thinking that you are happy in a stable relationship, when suddenly, across a crowded room, your eyes meet. OK, so that was three eyes in total, because the current object of my affections has only one eye (and, yes, technically, that eye does see in infra-red) but hey, love is blind.

The Psion 3MX is my new love. Oddly, it looks and feels more like a 3a than a 3c because the rubbery coating of the Psion 3c has been dropped. According to Psion, that was because it looked rather "nineties" and the 3MX is a machine for the new millennium. According to the scuttlebutt on the newsgroups, it's because the rubber coating tended to peel off and

make the Psion look old and tatty before its time. Nevertheless, the change has a delightful side effect. I used to carry my 3a in a custom case that I was forced to abandon when the coefficient of friction of the 3c's surface rendered insertion and extraction impossible. I dug out the case and the new Psion nestles comfortably inside — safe (or at least safer) from the effects of careless handling. However, if this had been the only difference I could have achieved the same effect with a potato peeler.

**Another reason for pensioning off the 3c in favour of a Psion 5** was that I craved speed. The 3c stored my full list of names and addresses but the search time was too sluggish. In addition, I found that I was giving the 3c increasingly difficult spreadsheets to calculate and they were becoming slow. Oddly, the migration to the 5 never felt as if it produced the speed gains I was expecting, although I never actually performed any tests (*but see time trials and results, this page and next*).

**The great selling point** of the 3MX is that it is substantially faster than the 3c. Rising to the challenge, I decided to move the data back but this time to take some measurements. The results were surprising.

How Fast?	Find record	Paste	Recalc 1	Recalc 2
Psion 3c	2	9	6	10
<b>Psion 3MX</b>	<b>1</b>	<b>3.5</b>	<b>2.5</b>	<b>4</b>
Psion 5	3.5	6	7	43
HP 620LX	1	2	1.5	2.5



## TIPS AND TRICKS FOR WIN CE

Reader Jon Whiten [whiten@usa.net](mailto:whiten@usa.net) recommends a great freeware site at [www.2r.biglobe.ne.jp/~tascal/english/index.htm](http://www.2r.biglobe.ne.jp/~tascal/english/index.htm).

It includes such items as:

**TascalLha** (compression software)

**HexDump** (hex file viewer)

**TascalSearch** (file searcher)

**Daughter in the box** (a simple board game)

**TascalFiler** (file manager)

**TascalExplorer** (file manager)

**TascalWPC** (a utility for changing windows wallpaper)

**Bmp2bp** (bitmap file converter)

**TascalRegedit** (registry editor)

I have looked at this site before (see the screenshots, below) and it appears to be run by a real enthusiast who seems happy to write really good shareware.

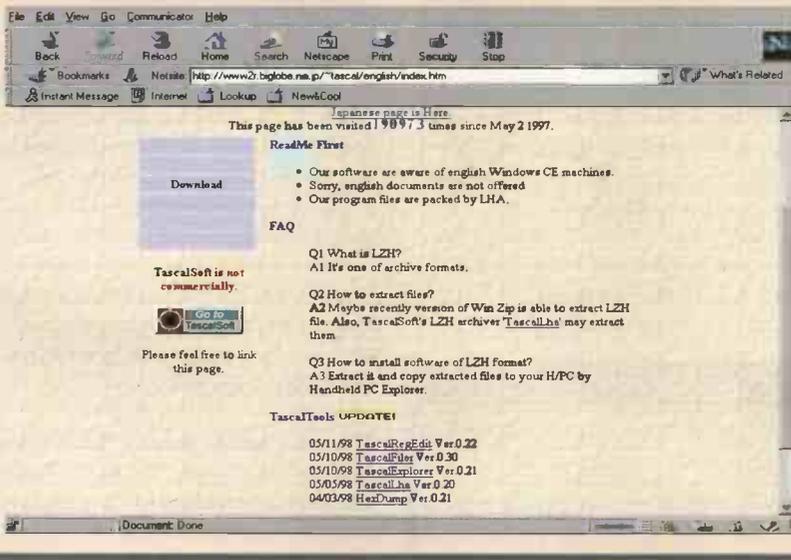
• If you have access to a network (or a Network Interface Card in your PC) and have Windows CE 2.0, go and buy a PCMCIA network card and you will find that Backup, Active Sync and program installation are much faster.



◀ FROM THE TASCAL SITE, AN INTRIGUING GAME. YOU HAVE TO "TAKE OUT AN INNOCENT GIRL WHO KNOWS NOTHING OF THE WORLD?" ...

▶ ...AND FROM THE SAME SITE, IMAGES FOR YOUR WINCE MACHINE

▼ THE TASCAL WEB SITE POINTS OUT THAT ITS "SOFTWARE ARE [sic] AWARE OF ENGLISH WINDOWS CE MACHINES"



## Time trials

I carried out four tests: one in the database and three in the spreadsheet.

▶ **Find record.** The time, in seconds, to find the 466th database record out of 469.

▶ **Paste.** The time, in seconds, to paste the formula =RAND to 1,000 cells with the screen fully zoomed-in (i.e. large cells, few visible).

▶ **Recalc 1.** The time, in seconds, to recalculate =RAND in 1,000 cells with the screen fully zoomed-in (i.e. large cells, few visible).

▶ **Recalc 2.** The time, in seconds, to recalculate =RAND in 1,000 cells with the screen fully zoomed-out (i.e. small cells, many visible).

**Psion is right:** the 3MX is considerably faster than the 3c (see the table, "How Fast?", p265). Fair enough, it is essentially the same machine with a faster processor. Interestingly, the 3MX is also faster than the 5. Indeed, the results for the 5 suggest that it is not significantly faster than the 3c at processing data (I'd always had my suspicions after I swapped). The main speed hit on the 5 seems to be screen redraw.

Once I started speed-testing, I couldn't resist doing the same tests on a WinCE machine, the trusty HP 620LX. This was just under twice as fast as the fastest Psion, which is what you might hope considering the price difference between the two machines.

## The speed factor

The take home message about speed is that if it is your number one priority, try out a WinCE machine. (Remember, though, that not all WinCE machines are created equal, so other makes may differ from the HP620.) If speed is an important but not overriding consideration, think about the 3MX because, for the price, it really does scream along. But of course, speed isn't everything, so all the other factors — keyboard, screen and so on — which make up a PDA are still likely to be more important to most people.

## PCW CONTACTS

Mark Whitehorn welcomes readers' correspondence and ideas for the Hands On PDA's column. Contact him via the PCW editorial office (address, p10) or email [pda@pcw.co.uk](mailto:pda@pcw.co.uk).

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# Linux: is it the one for you?

Chris Bidmead asks why users should convert to using Linux instead of Windows. Plus, details on Primergy, the new server from Siemens-Nixdorf.

**M**y postbag suggests that there are some people out there who think Microsoft Windows defines computing, and they expect Linux to fit that definition. It doesn't. The problem seems to have got worse now that *The Economist*, *Forbes Magazine*, *The Sunday Times* and other pillars of the establishment have started promoting Linux as "the next Windows" or some such nonsense. This month and for a couple of months after that, I'm running a separate workshop [see page 242] for existing Windows users who want to get started with Linux. I thought I'd turn over some space in this column to the more general question: why Linux? If you're about to plunge in, or even if you're an existing Linux user who hasn't asked yourself this question yet, it's worth taking time to come up with some useful answers.

Here are some of my reasons. Firstly, I think Linux is a very good operating system — more robust and more versatile than Windows or Windows NT. I also appreciate the fact that it's open source (see [www.opensource.org](http://www.opensource.org)) and all that implies — robust, versatile and much more. I like the fact that it's based on the design of Unix, in many ways the ultimate (intelligent) end-user operating system, built like clockwork in a way that makes it understandable from the ground up — if you're prepared to invest the time and trouble getting to know it. That's why I use Linux, as my main production operating system in fact. Your answers may be different, but if you're installing Linux for the first time, you do need to sort out what they are before you get started.

## PARTITION IT FOR FREE

The following tip has come in from Andrew Aylett <[the.idiot@mindless.com](mailto:the.idiot@mindless.com)>, whose problem was trying to resize a FAT32 partition to make room for his new copy of Suse Linux. Fips, the traditional DOS-based partition shifter, comes with most Linux distributions but I believe it doesn't (yet) handle FAT32. I have an

alternative suggestion which could prove rather useful: get Partition Resizer from Zeleps <<http://members.xoom.com/Zeleps>>. It supports both FAT16 and FAT32! I think that it should get a little more exposure, as most people still think Partition Magic is the only way to go without just wiping everything with fdisk.

OK, this message from Andrew has literally popped up on my desktop while I'm writing this month's column, so I haven't had a chance to try it out. If you give it a go, do write in and let me know how you get on [*PCW Contacts*, p271]. The author, Zeleps, or John Lagonikas, says the software is free, but asks you to send him a postcard if you like it.

## Leaving the world of Microsoft

If you're coming to Linux from Windows, there are important differences to be on the lookout for:

### ➔ Varieties

There are a number of different free Unix-like operating systems, known as Unices. Linux is the one I get the most questions about in my email for this column. But the choice doesn't end there. Although they all use the same kernel (albeit with different release numbers), there are also several rather different Linux distributions, each with its own philosophy, file-system layout, library set and so on. There are multiple

***I think Linux is a very good operating system — more robust and versatile than Windows or Windows NT***

different versions of Windows, too (3.x, 95, 98, NT and CE) and actually these differ in essentials much more than Linux distributions. But without the comfort of costly marketing to "position" its various distributions, the wide choice of different Linuxes can be confusing to the beginner.

### ➔ The GUI

Compounding this confusion is the fact that there's no "standard" graphical user interface for Linux. This has really baffled some contributors to my mailbag, who are accustomed to think of the GUI as an integral part of the operating system. Like Unix in general, Linux separates out the front-end from the core operating system and runs it more or less as just another application. Actually, the connection is even looser than this description implies, because the GUI is a "network" application — you can run the GUI on one machine and the operating system on another.

The "glue" that binds the GUI to the operating system is called "The X Window System", or just "X". You'll frequently see this referred to as "X-Windows", which is wrong. But I seem to be fighting a losing battle over this. More worrying than the misnomer is the common confusion between X and the GUI itself. They're not the same thing, which is why, although X is standard across all Linux distributions (and most Unices), the GUIs can be very different indeed.

### ➔ Installation

These days Linux is probably easier to install from scratch than Windows. But most users don't install Windows from



## NOW THAT'S MAGIC!

**D**aniel Power runs POW!, which distributes PowerQuest's software here in the UK. Probably its best-known package is Partition Magic, a handy way to shift around and resize your existing Windows and DOS partition to make room for other operating systems. However, the new version goes even further because it now knows how to handle Linux partitions.

I used my new Partition Magic on the Windows 95/Linux dual-boot installation on my Scenic Mobile 500 portable. As a test I tried snipping 2Mb off the Linux swap disk and adding this to the Linux ext2 partition. Setting up the layout for the new partitions took only moments. Once you're happy with the new arrangement, you apply the changes, or you can back off, with no harm done. The various careful batch processes for shifting around the data took about ten minutes. Partition Magic's graphical user interface (running under Windows 95) has always allowed you to resize and move Windows partitions

around with the tip of your mouse pointer, but now it can do the same thing with Linux and Linux swap partitions. Very impressive.

The program comes with several wizards for performing routine tasks.

I ran one of these, called Analyze and Recommend, and it offered to optimise my hard-disk space. I was sceptical: the Mobile 500 only has a 1Gb hard disk, and the three partitions — Windows 95, Linux, and Linux swap — cram it to the limits. Yet the Wizard saw the opportunity to reduce the cluster size in the FAT partition and offered to reclaim a massive 159.5Mb. Curiously, it spoke of creating a "new



▲ THIS ONE ACTUALLY IS WINDOWS, RUNNING ON MY SCENIC 500 PORTABLE. AS YOU CAN SEE, HALF THE DRIVE BELONGS TO LINUX, AND NOW, IN ITS VERSION 4.0 MANIFESTATION, PARTITION MAGIC KNOWS HOW TO RESHAPE BOTH THE LINUX EXT2 AND LINUX SWAP PARTITIONS

logical partition" so that I could use the newly reclaimed space.

Before committing to this, I decided to explore the Wizard's next move. Ah, glad I did. The Wizard told me it had detected a single partition on my hard disk

and offered to help me "organise my data better". I really didn't like the sound of this. The Wizard and I didn't seem to share the same understanding of the partition table, so I decided to back off.

➔ **Conclusion:** the basic partition-moving seems fine, but I'm wary of any help from those Wizards, who don't seem to have been informed about the arrival of Linux. I'll check this out more thoroughly and report back.

scratch, because it comes with the hardware. Modern operating systems are complex: installing Linux can be complex too. And it doesn't make life easier if, like most people getting started with Linux, you choose to install Linux as an addition rather than a replacement for Windows.

**There's a very good introduction** to Linux for Windows users in the DOS-Win-to-Linux HOWTO, which you can find, for example, at <http://tsx-11.mit.edu/pub/linux/docs/HOWTO>.

### ■ Primergy finally turns on the power

Back in September I introduced you to the new Primergy server from Siemens-Nixdorf that has taken up residence on my network. I told you about my plans for this as part of the Unix/Windows integration effort I'm exploring here. As long-term readers of this column will know, since early 1996 I've been running server software called NTrigue, which allows me to bring up NT in an X Window on any of the machines on my network. NTrigue was sold by Insignia

Solutions, and effectively packages some special multi-user fixes (called Winframe) from a company called Citrix <[www.citrix.com](http://www.citrix.com)> with some clever X11 software co-developed with the X terminal specialist, NCD <[www.ncd.com](http://www.ncd.com)>, all sitting on top of Windows NT version 3.51.

**Insignia Solutions** no longer sells NTrigue. A complicated game of musical chairs has taken place around the ownership of the technology.

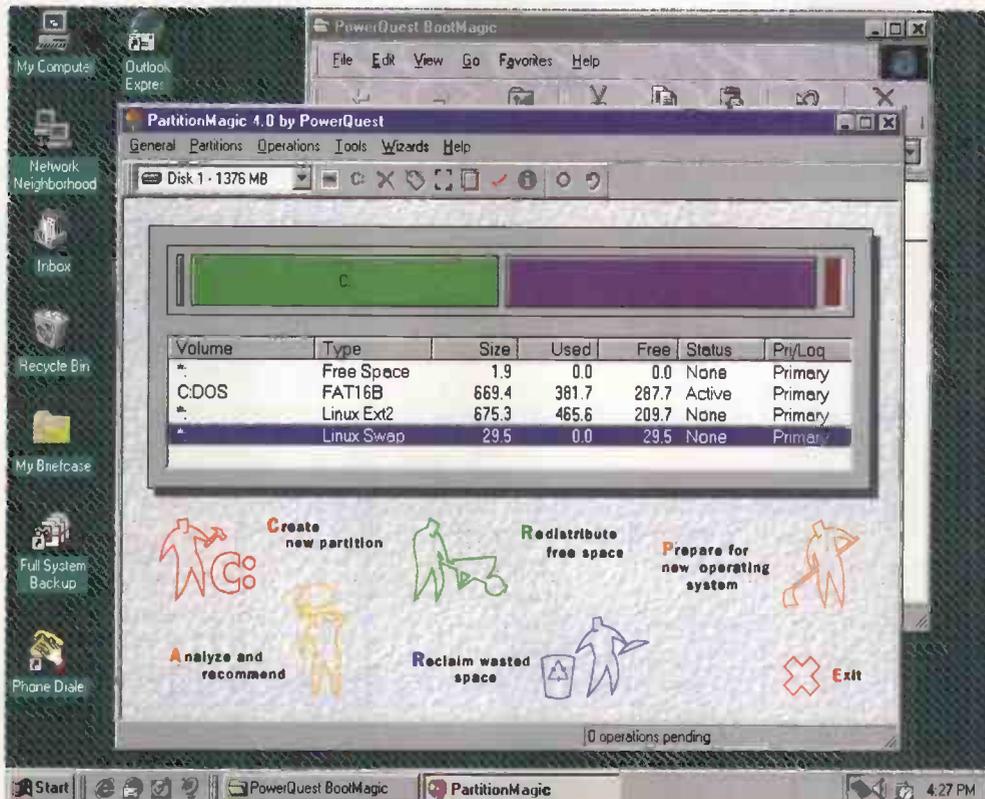
Microsoft has bought the core of Winframe from Citrix and incorporated it into Windows NT 4.0 as a product called Terminal Server, but Terminal Server only plays to Windows (or Windows CE) based clients. Citrix in turn has bought Insignia's contribution to the NTRigue product, and now sells a Terminal Server add-on called Metaframe which connects Terminal Server to a variety of non-Windows machines, using a technology called ICA (Independent Computing Architecture). But ICA isn't all that independent, as the workstations have to be running Citrix's proprietary client software to do this. If you want something equivalent to NTRigue, which can squirt out the Windows NT desktop (or any individual Windows app) to any machine running X, then you need a further add-on on top of Metaframe, called UIS (Unix Integration Services). UIS is the stuff originally developed by Insignia, so it's now owned by Citrix. However, Citrix only sells it through third parties: currently NCD and Tektronix. I did say this was rather complicated!

**A complicated game of musical chairs has taken place around this technology**

As reported in the September issue, I had all this in place — except for UIS, which still wasn't available. My frustration was paralleled by a reader, Aideen McConville <aideen@persimmon.co.uk> who, as a system administrator for the web client specialist company Persimmon, is also an NTRigue user. Aideen had been sent Terminal Server direct from Microsoft, but says she was "disappointed to discover that we couldn't do anything useful to it from our Unix X workstations." Aideen's solution was brilliant. Rather than wait for UIS, she put the Terminal Server Windows NT client software on top of Ntrigue. The NT client produces an appearance of the

Windows Terminal Server screen or application on the Ntrigue machine, and NTRigue relays this across to the Unix X clients. She writes: "OK — a little dodgy, maybe, but much to my surprise it worked... well, to a degree at least. I was able to run Lotus ScreenCam Player [which is not supported on NT 3.51] but only once per session. Repeating the exercise produced a Dr Watson."

Three months after installing Terminal Server and Metaframe on the Primergy I managed finally to get hold of UIS. For the first time after a long, patient wait I was able to bring up Windows NT 4.0 on my various Unix workstations. Adding UIS to the Terminal Server/Metaframe mix has the huge advantage that it allows any system with an X server to participate. It also handles 16-bit colour: the ICA clients only do eight-bit. However, it lacks some very useful ICA refinements like being able to treat the local diskettes and the hard drive on the client machine as if they were directly attached to the server. If I were running, say, Microsoft Word on the Primergy, I



▲ A COUPLE OF SUSPICIOUS, WINDOWS-LOOKING SCREENSHOTS FOR THE UNIX COLUMN THIS MONTH. THIS ONE IS ACTUALLY MY CALDERA OPENLINUX AFTERSTEP DESKTOP RUNNING CITRIX ICA CLIENT WINDOWS THAT ARE 'APPEARANCES' OF WINDOWS APPS RUNNING ON THE PRIMERGY SERVER. THE WINDOW IN THE TOP RIGHT-HAND CORNER IS THE (LOCALLY RUNNING) ICA CLIENT MANAGER, IN WHICH YOU SET UP CONNECTIONS TO THE SERVER

might want to be working on documents stored on my Linux machine's hard drive. With UIS, you can't do this.

Amazingly, this problem was solved the following week when Citrix released its ICA Client for Linux <www.citrix.com/>. It's free of charge (but not free software). As you can see from the screenshot above, I now have all the facilities and applications of Windows NT 4.0 available on my Linux machines. Except that there really isn't that much that I need to do under Windows these days... Well, FreeCell is good.

**PCW CONTACTS**

Chris Bidmead can be contacted via the PCW editorial office (address, p10) or email [unix@pcw.co.uk](mailto:unix@pcw.co.uk). Partition Magic 4.0 costs £49.95 for a single-machine licence. Contact POW1 on 01202 716726.



# A night at the Opera

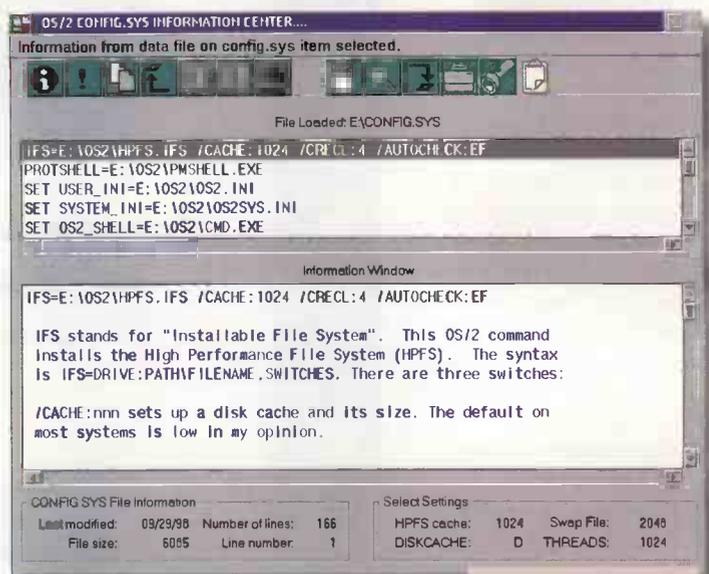
Terence Green catches up with developments in the browser world of Opera and WarpZilla.

**T**he release of Netscape Communicator 4.04 for OS/2 Warp was imminent at the time I filed this month's column. If you can't wait, look for it at <http://services5.boulder.ibm.com/pcpd.nsf/OCOMM40+Home>. It should be good — the second beta of Communicator worked well. The finished version should be a must-have, especially for overseas readers as it will be available in 18 languages.

**While we're on** the subject of browsers, it's worth mentioning that there are two OS/2 Warp browser projects under way and one text-mode browser available. The WarpZilla project is part of the effort to take the Netscape source and port it to other platforms. Back in January of this year, Netscape made the source code for Communicator freely available, whereupon several projects to port it to other platforms started up. Netscape set up a clearing house, called Mozilla after the codename for the original Netscape Navigator browser, and the Warp porting effort was called WarpZilla. This project is a voluntary effort, not connected in any way with the IBM Netscape Communicator 4.04. WarpZilla has not yet produced a real beta although an early version was posted on the internet. This was based on work which has since been discarded, as earlier in 1998 Mozilla decided to change to a new layout engine called

NGLayout (for New Generation). As a result, it looks like there'll be a delay before the next WarpZilla test code based on NGLayout appears. You can find news and pointers to the Warp material at [www.mozilla.Zine.org/](http://www.mozilla.Zine.org/).

**Opera, the other OS/2 browser** under development [Fig 1], seems to have run into trouble with Open32, the Lotus/IBM technology that was used to port Lotus SmartSuite for Warp 4 from the 32-bit Windows version. We remember how many years it took for that product to arrive, so we can only hope that the Opera team manages to crack the problems quicker. You can track progress at [www.operasoft.com/alt\\_os.html](http://www.operasoft.com/alt_os.html), but if you really want to run a thin browser under OS/2 there's always the 16-bit Windows version. @Macarlo has instructions for using the Opera 3.5 beta for Windows in a Warp 4 Win-OS/2 session at [www.geocities.com/SiliconValley/Horizon/5423/operabeta35.htm](http://www.geocities.com/SiliconValley/Horizon/5423/operabeta35.htm).



**▲ FIG 1 @MACARLO EXPLAINS HOW TO RUN OPERA FOR 16-BIT WINDOWS IN A WIN-OS/2 SESSION**

[www.geocities.com/SiliconValley/Horizon/5423/operabeta35.htm](http://www.geocities.com/SiliconValley/Horizon/5423/operabeta35.htm). The last word on browsers for the time being is that Lynx 2.8 for OS/2 is now available from the Hobbes archive. It should be in the <http://hobbes.nmsu.edu/pub/os2/apps/internet/www/browser/> directory. Lynx is a text mode browser — ideal for command-line users.

## Readers' favourites

If, like me, you're old enough to remember XTree Gold, you'll want to follow up the suggestion from reader Holger Granholm to download ZTreeBold [Fig2], an OS/2 text mode program that mimics XTree Gold's way with files and directories. I hate to admit it, but when I graduated from DOS and Windows to OS/2 I continued to use XTree for housekeeping. It was only when I started playing with Windows 95 that we finally parted company because it (95) seemed to make XTree go crazy.

**While we're talking** about the weird stuff that Windows 95 does to FAT to make long filenames work, does anyone

## FIX PAK #8 ON THE COVER CD

**F**ix Pak #8 for Warp 4 didn't make it to last month's PCW cover-mounted CD because there were a few glitches in the first release and a potential problem with the installer. However, these were rapidly sorted and it is on this month's cover-mounted CD, so there should now be no problems. Well, almost none! After a slight contretemps with Fix Paks, reader Ian Park suggested that Fix Paks on the covermounted CD should be accompanied by a list of contra-indications. It's a fair point, but there are really only two contras to remember: please don't install a Fix Pak unless you really need to; and do read the README files — they have full information on how to install, what to be wary of, and how to back out of a Fix Pak if there's a problem. Having said that, please note that you have to install Fix Pak #32 or later in order to install the Java and Netscape Communicator 4.04 packages on Warp 3.





# Hyphenate and be dashed

When it comes to hyphens, you needn't let Word have the last word on the issue. Tim Nott shows you how to control hyphens in text, and use them to maximum advantage.

The grammatical use of hyphens is either a sort of marriage ceremony between pairs of words such as five-pound, year-old, high-heeled, clarifying meaning; or a divorce that clarifies pronunciation: cooperative, re-enter. You've probably found that there's some disagreement between Word's spelling and grammar checkers on this. If you type something such as "news-stand", for example, the subsequent game of "proofing ping-pong", though initially amusing, rapidly becomes tediously recursive.

## Easier reading

Hyphens also serve a typographical purpose. Text set in multiple columns can often have poor "colour" or visual density, especially with narrow columns and large character size. If the text is left-aligned, then line lengths will be very uneven. If the text is justified — that is, aligned to both margins — then large spaces may appear in the middle of lines, or worse still, "rivers" of white space meander down the column. Careful use

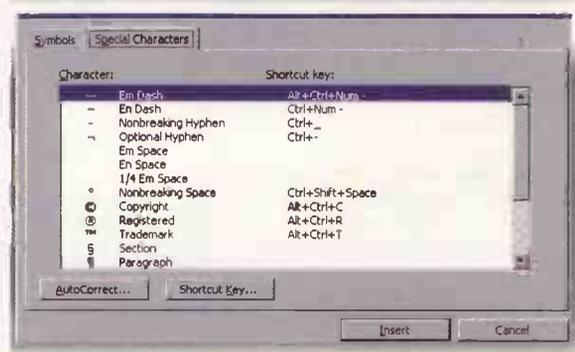
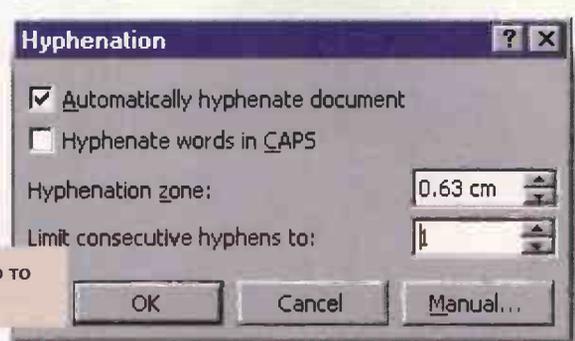
of hyphens can rectify this. Most word processors have the means to add cosmetic hyphens automatically, as and when needed. In Word, this feature is tucked away in the Tools, Language sub-menu. Digging into the options, you can limit the number of consecutive lines ending in a hyphen, stop words in all-uppercase being hyphenated, and specify the width of the hyphenation zone. The latter trades off the frequency of hyphens against the variation in line length. The lower the value, the more hyphens; the higher the value, the more ragged

## QUICK WORD TIPS

➔ If you click on a tab, margin stop or table division in the Word ruler with both mouse buttons (or Alt+left button) you get dimensioned arrows showing the exact position of the stop. This works with margins, tables

and headers/footers in the vertical ruler, too.  
➔ If you hit Shift+F3 in Word, any selected text will be toggled between ALL CAPITALS, all lower case or All Initial Capitals.

### ▶ GETTING WORD TO DO THE WORK



### ▲ ADVANCED HYPHENS AND HOW TO GET THEM

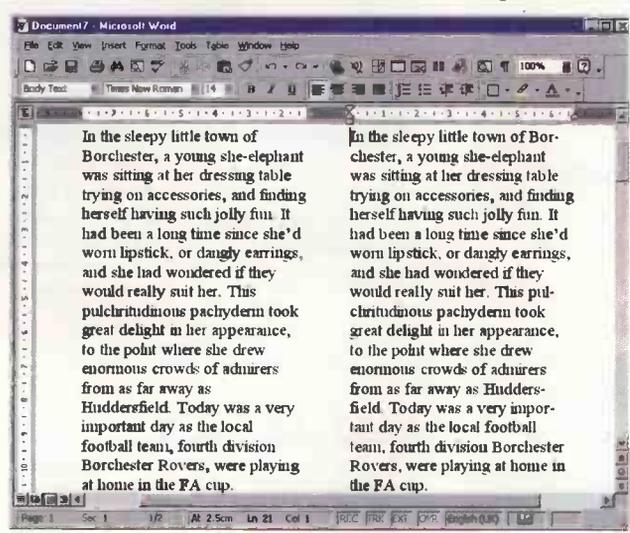
of the line-endings. If you want to retain control over hyphenation, or only hyphenate part of a document, choose the Manual button. This will not only prompt you for confirmation for each word that is to be hyphenated, but will also give

you a choice of where it is to be hyphenated, avoiding potential embarrassment with awkward words such as Penistone (an obscure town in Yorkshire) or Arsenal (an obscure football club in London).

## Special hyphens

There are times, however, when you want to use a hyphen that never breaks over two lines, and I'm grateful to our Perugian correspondent, Bob Monroe, for the following. Non-breaking hyphens (Ctrl+Shift+-) and spaces (Ctrl+Shift+space) are useful for things such as phone numbers, which you don't want split over two lines. In Word 6, a non-breaking hyphen looks like an ordinary

### ◀ IMPROVING RAGGED LINES WITH HYPHENS

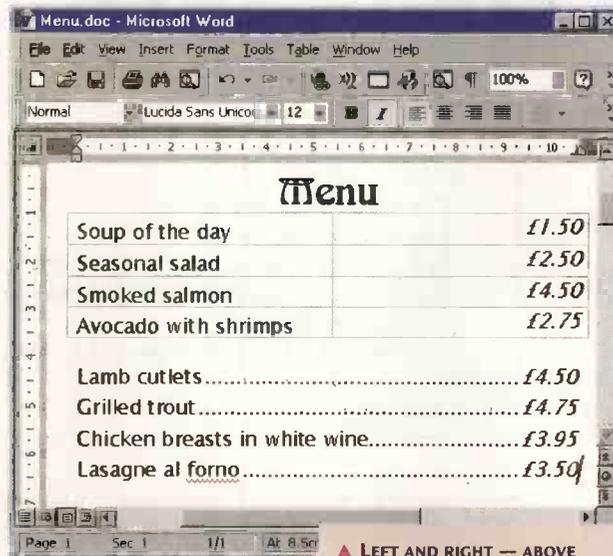


## Questions & answers

**Q** How can I get Word to left and right align text on the same line? It was easy enough to do this — say for a price list or contents page — on my old Amstrad PCW, and also in WordPerfect, but I can only left, right or centre an entire line in Word.

LESLIE CATON

**a** *It's possible, but a little more fiddly. There are two ways: first you can set right-aligned and centred tabs. Make sure the ruler is visible and click on the small button on the left to cycle between the choices. An L shape is a left tab, a mirrored L a right tab, and an inverted T a centred tab, and with a dot it becomes a decimal tab, which aligns figures around their decimal point. Click anywhere on the ruler to set the tab — you can then drag them into position or remove them by dragging down off the ruler. The second, and more flexible way is to use a table, as you can change the alignment of each column or even each cell. This also makes it easy to format the text in each column, say if you want*



*your items in roman and the prices in italic. However, if you want leaders (rows of dots or dashes between the left- and right-aligned items) you'll need to use tabs and format them from the Format, Paragraph, Tabs dialog.*

**Q** I have tried to copy formulas while using tables in Microsoft Word but the program copies the cell result instead of the formula. Please advise me whether it is possible. If not, what steps are you taking to facilitate this feature?

DR EDWARD TIAGHA

**▲ LEFT AND RIGHT — ABOVE WITH A TABLE, BELOW WITH TABS**

**a** *I've tried doing this and it seems what is happening is that the formula is being copied but it isn't being recalculated. Highlight the cell, row or entire table and press F9 — that will update the results of the formula. You can check by switching between seeing the formulae and their results. To do this, turn field codes on and off, either from Tools, Options, View or by using the Alt+F9 keyboard shortcut.*

**Q** Word 97 seems to have an annoying habit of occasionally putting

footnotes on the following page, even when the reference is only halfway down the current page. I have met others who have suffered this problem but cannot find any fix. Do you have any suggestions?

TONY MILNER

**a** *This is a problem which Microsoft has confirmed and is researching. However, as the company admits it goes right back to version 2, don't hold your breath. Basically it's due to lack of space and there are various workarounds. In Word 97 you can turn-off Printer metrics from Tools, Options, Compatibility. On all versions you can try decreasing the point size and line spacing of the footnote text style from Format, Styles. You can also reduce the line spacing/point size of the body text, reduce the size of the page margins, or reduce the line spacing of the footnote separator by going to View, Normal followed by View, Footnotes. Select Footnote Separator from the droplist, then highlight the separator in the pane below. Then set Format, Paragraph, Spacing to a lower value.*

## FRENCH CONNECTION

Bob Reksten of Monaco is looking for a word-processing "plug-in". He says: "Sometimes I can't remember a word in English when I know it in French and at other times it's the other way around. What I would like to find is a translation dictionary and thesaurus package. When typing a word, I'd like to hit a button, choose a language, then ask for a correction, a synonym or a translation." Does anybody know of such a thing?

hyphen unless you check the "Show optional hyphens" box from the Tools, Options, View tab, in which case it becomes longer and higher. For mysterious reasons, the non-breaking hyphen shows as a wide, blank space in Word 97 unless you enable "Show tab characters" from the same dialogue. This has the downside of showing all your tabs as well.

**If you don't want** to avail yourself of auto-hyphenation, then optional hyphens (Ctrl+-) are useful for breaking up long words. Should the word fall at the end of a line, causing uneven length, it will be broken at the optional hyphen.

Should it not, then no hyphen appears. These appear as an L on its side if you choose to show them as described. Very rarely, if a line with an optional hyphen showing is tightly packed, this can have the unnerving effect of pushing the bottom line of text off the page into oblivion as far as What You See is concerned. What You Get, thankfully, is unaffected.

## PCW CONTACTS

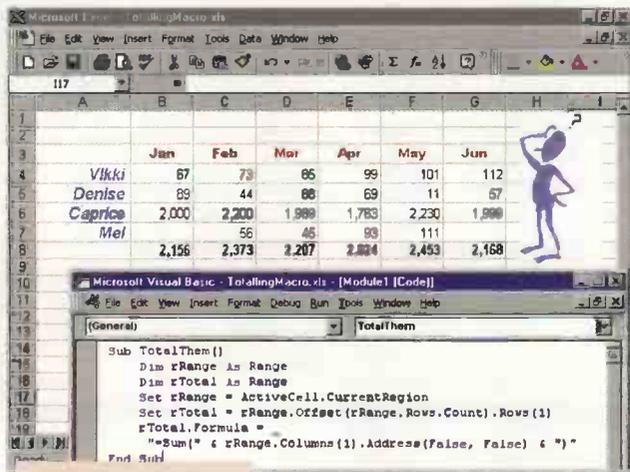
Tim Nott can be contacted by post via the PCW editorial office (address, p10) or email [wp@pcw.co.uk](mailto:wp@pcw.co.uk).



## You can count on it

Is totting up specific items in an Excel list driving you to distraction? Stephen Wells shows you an alternative way to do it. And, how to total something before you know it.

Last month, a reader was asking for a way to count the number of many items in an Excel-filtered list. I suggested three methods: Data, AutoFilter, which changes the SUM tool to SUBTOTAL; inserting the SUBTOTAL function yourself, or using the built-in Data, Subtotal feature. He later came back to me and clarified that he didn't want a total of all the items in a column, but the number of specific ones, like a column of text test results with Bs and Fs in it.



**▲FIG 1 THE SIMPLE MACRO AT THE BOTTOM AUTOMATICALLY ADDS TOTALS TO THE FOOT OF THE TABLE, NO MATTER HOW WIDE OR DEEP**

The COUNTIF function could be used here.

If you want to find the number of Bs in column M, and the answer is to be displayed in another column, you would enter

=COUNTIF(M:M,"B")

If it's to go in the same column, you instead might use

=COUNTIF(M2:M100,"B").

Here's a variation, asked for by another reader. He wants to include a

**[FIG 2]**

```
Sub TotalThem()  
  Dim rRange As Range  
  Dim rTotal As Range  
  Set rRange = ActiveCell.CurrentRegion  
  Set rTotal = rRange.Offset(rRange.Rows.Count).Rows(1)  
  rTotal.Formula = _  
    "=Sum(" & rRange.Columns(1).Address(False, False) &  
    ")"  
End Sub
```

macro within a programmed application which will enter totals at the foot of all his columns when he doesn't know how many columns or rows there will be.

Fig 1 gives an example. Imagine the table on the worksheet with row 8 blank.

**1** Open the Visual Basic Editor using Alt+F11.

**2** Enter the short listing given in Fig 2. Save your work.

**3** Click within the worksheet table. Press Alt+F8, then Enter.

The macro will enter the totals in row 8. If you want row 8 to be blank and the totals in row 9, change line 5 of the listing so that .Rows(1) reads .Rows(2).

What the macro does is look at the current region. This is the area around the cell you clicked, going as far as the first blank row and column. Then it offsets this by one (.Rows(1)) or two

(.Rows(2)) rows. It then inserts as many SUM functions as are called for, which in this example is six.

As Fig 1 shows, there can be blank cells in the range and the macro will ignore graphics. To avoid displaying a zero beneath the labels in column A, uncheck the Zero values box under Tools, Options, View. If you have Excel 97, instead of entering the macro, you can load the file TotallingMacro.xls which is on this month's cover-mounted CD-ROM. This worksheet offers the same example.

### Protection measure

It's a rare month when I don't receive a plea for a method to stop other people in an office changing a reader's Excel workbook. Typically, they have protected all or part of it with a password and then given the password to a friend. Said friend then copies the file with another name and steals their work. Few people have the patience to study the complex rules of Excel formatting, so this tip will usually slow up such pesky miscreants.

Choose Format, Cells, Number, Custom and in the Type box, enter

(all on one line):  
"Property of Fred Smith"  
;;; "Property of Fred Smith"

Use your name instead of Fred Smith.

Set the Alignment for the cell to Horizontal, Centre. You can also add to the mystery by changing Font, Colour, to an

### A FREE HAND

Microsoft offers a number of useful interactive web sites which help you troubleshoot an assortment of common Excel problems. Keep the Excel file open which demonstrates your quandary while you view the pages. You will be asked to try solutions to your problem as you move through the questions and answers. One such site is at <http://support.microsoft.com/support/tshoot/xlfile7.asp>.

## Questions

### & answers

**Q** I saw your answer concerning the Euro symbol for Office97. What about us users of Office95?

ALEKSANDAR RASPOPOVIC

**a** There are developments on this situation breaking every day. Have a look at [www.eu.microsoft.com/windows/euro.asp](http://www.eu.microsoft.com/windows/euro.asp) and download the file W95\_Euro.exe.

**Q** In an Excel spreadsheet to calculate income, expenses and profit I want to run a macro depending on the outcome of the calculations. If there is a profit, one macro will run, and if there is a loss, a different macro will run. Will the IF function do this? If not, is there another function that will?

ADRIAN EMERSON

**a** Funnily enough, dear old supposedly outdated SuperCalc used to allow you to run a macro from within a function (like the IF function) but I don't believe Excel will, on the worksheet at least. However, you can run a macro within an IF statement in a macro. What you have to do is write a macro which includes the IF statement

(with your required macro in it) and have the first macro triggered by an event. The event could be as simple as any mouse click.

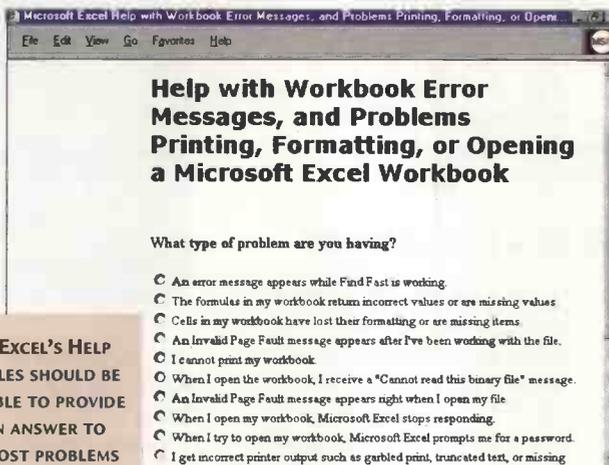
**Q** I have a list of all the BBC TV and radio transmitters in the UK and when they are planned to be temporarily shut down for essential maintenance in the next two years. The file has a sheet for all 80 main transmitting sites, each sheet with a chronological list of work to be done. I need to convert this to a single sheet with transmitter names along the top and dates down the left-hand side, and a sort of "bar graph" arrangement where a coloured filled-in bar represents a shut-down period. This would be a lengthy task to complete manually, but I would be able to do it.

Because the information in the spreadsheet is constantly changing, I would like to put a "button" on the

spreadsheet somewhere which will activate a macro which automatically does all of the above. Then, at the end of each day, I can just hit the button and obtain an up-to-date version of the converted spreadsheet.

PAUL GARNHAM

**a** Why don't you look at the "Run a macro from a button or graphic control" document in the Help files. You could also take a look at "Consolidate data" which covers five ways of doing what you want. You might find a



► EXCEL'S HELP FILES SHOULD BE ABLE TO PROVIDE AN ANSWER TO MOST PROBLEMS

PivotTable is a solution that works for you. There is nothing in your description that seems unusual to me. It's just a matter of getting down to it.

## PLUS (AND MINUS) POINTS

Richard Baines says he is having a problem trying to make decimal points line up. Excel recommends that you use the Accounting format rather than the Currency format. But if you want to show negative amounts with brackets, rather than a minus sign, you'll need to use one of the offered Custom formats or create your own. In this case, to get positive numbers to line up with negative numbers, insert an underscore before the final bracket \_).

intriguing brown or purple. Whatever the user tries to enter into the cell, whether a word, number or formula, it will display

"Property of Fred Smith". Entering a negative number or a zero will just produce a blank cell. You can have those entries produce the phrase, too, if you repeat it in the custom format after the first and second semi-colons, respectively.

OK, so if they right-click the mouse and choose Clear Contents, the message will disappear. However, when they try to enter something else in the cell, irritatingly, "Property of Fred Smith" will return. It will also defeat the Delete key. And, you can save this worksheet with another name and Fred will still appear. Cut and Paste would beat it, so hold down Alt and drag the scissors button off the Standard toolbar. Then choose Tools,

Customise, leave that box open and choose Edit on the menu bar. Now drag the Cut command to anywhere on the Customise box. Close the box. And now

**It's a rare month when I don't receive a plea for a method to stop an Excel workbook being changed**

it's gone. He or she could still use Ctrl+X or alternatively the Shortcut menu (which can be changed in Word only), but hopefully by this time the troublemaker will have given up messing around.

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## In the frame

How do you store today's **complex data structures** in databases? Which comes first, the data or the table? Mark Whitehorn compares two views: UDB or connectivity?

**Y**ou may be aware of rumblings in the database world about the storing of objects in databases: what objects are, how they should be stored and managed. It's becoming something of a quasi-religious issue, as is often the case when two strong contenders encourage polarisation.

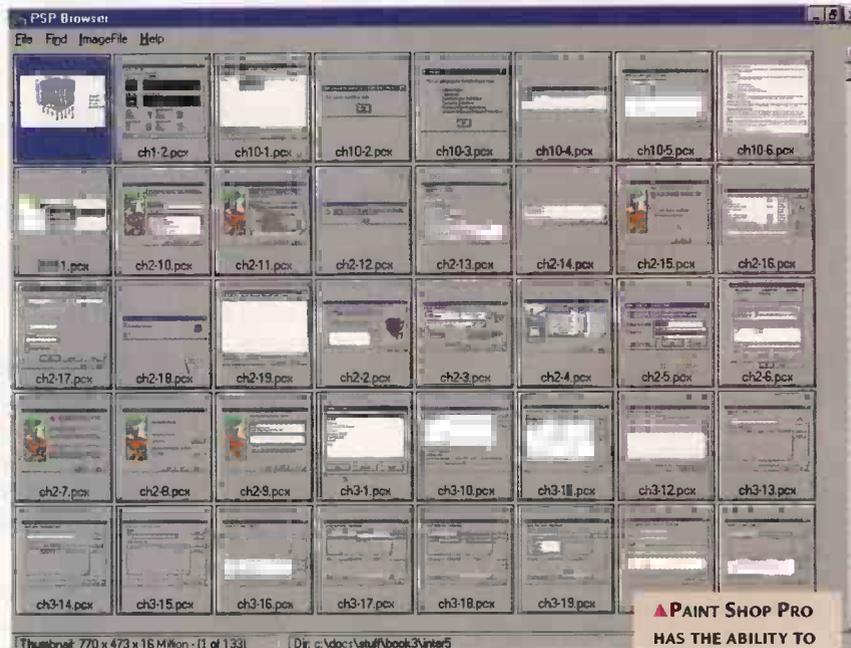
### What's it all about?

RDBMSs are good at holding data which has a relatively simple structure — in other words, data that fits neatly into a table. There's nothing wrong with that, but it is really the other way around: a table is a container that was designed to hold the sort of data (text, numbers, etc) which, back in the seventies, people, wanted to store and access. However, people are now trying to store more complex data which doesn't fit so neatly into the approved framework.

**Consider a digital picture.** On the face of it, there is no problem storing this in a table. After all, a digital image is just a long string of noughts and ones. You can think of it as being either a very long text string, or a very big, high-precision number. Either way, all you have to do is define a special data type to hold it. Indeed, many RDBMSs, including

Access, have such a data type built in: the BLOB (Binary Large Object) data type. You can declare a field to be of this type and then pop your picture in there. No problem, except... this approach does nothing about giving the user of the database access to all the properties inherent in the original picture. In other words, a picture is more than a string of binary digits: it has one or more subjects, a dominant colour, a

**RDBMSs are good at holding data that fits neatly in a table**



focal point, and so on. If it is an image of a painting, that painting probably has an artist, a title, a history, a meaning (...but let's leave modern art out of this discussion!). None of those object properties are stored in the BLOB and therefore the database cannot be queried on those properties.

This is a shame, because human beings typically want to retrieve images on this sort of criteria, rather than asking for all the pictures that start with 011010111010111010. True, you can attach a viewer to the field that will enable users to look at the image, but that still doesn't help with finding it in the first place. Another approach is to attach one or more fields for keywords, to enable BLOBs to be located. But that adds manual graft and does not cover future

searches which may need to scan for characteristics that, at present, we cannot even imagine.

Another example of problematical data is email. Much of my correspondence is now email so I store it for years because it documents my exchanges with other people — my own promises and commitments as well as those which others have made to me. An email is an object with a fairly well-

defined set of properties associated with it: time/date of despatch and/or arrival, origin, whether it has been forwarded, its contents and so on. All my email sits in my email system which happens to be called Pegasus. I use Pegasus to search for emails by date, sender etc., whenever I want to locate an old email.

I love Pegasus dearly, but the truth is that it has rather poor search facilities. Why? Because it is not an RDBMS, it's a mail system. RDBMSs are optimised for searching: they have indexes and SQL to allow me to perform very devious searches. Pegasus doesn't; it is optimised to send and receive mail.

This brings us to the nub of the current debate, which is centred around the question of where such data (pictures, sounds, emails) presently stored in non-RDBMS sources, should be stored in future.

### The UDB view

The UDB (Universal Database) argument is simple. It says that all data, no matter what, should be stored in a relational database for the simple reason that RDBMSs are optimised for storing and manipulating data. All we have to do is

to extend the relational model. The UDB supporters are fully aware that this means more than simply adding further complex data types. They know that the RDBMS will also have to incorporate viewers, complex "interpreters" which can "understand" the data contained in those data types. But this is being done as we speak. Systems already exist which cannot only store fingerprint images, they can also classify them so that comparisons can be made.

**Having all data** in RDBMSs earns some huge payoffs because it makes it so easy to correlate information from disparate sources. Currently, if I receive email from colleagues and want to ring them on the internal phone system, I have to swap to a web browser and look up their numbers on a web page. If my email system and the phone book were both back-ended by (say) Oracle, the system could automatically display the number each time I read an internal email.

The UDB approach is strongly supported by Oracle, IBM, Informix and Sybase, and all these companies produce some flavour of UDB. Now, just to prove that you're awake, hands up if you've guessed which company takes a contrary view. Let's do a hand count: 1... 2... Oh! All of you guessed.

### The OLE DB view

Microsoft has no plans for a UDB offering. Instead, "the big M" argues that it is simply not realistic to expect all data to be stored in an RDBMS and that the typical, fairly crude data stores currently used by software like email packages will persist. So, rather than build a UDB into which you could put all the data but probably won't, Microsoft says let's keep RDBMSs more or less as they are and provide hooks from the RDBMS into other data storage mechanisms. The means of making these connections is the shiny new OLE DB from Microsoft (of course) which

**Microsoft's argument skirts the issue that data stored by its own non-relational products brings problems by the barrowload**



▲ An (as yet unfinished) image by modern artist, Stephen Barclay. Automatically classifying this image in a meaningful way for human beings is a challenge that will tax computer systems for some time

that company hopes will rapidly become as ubiquitous as ODBC.

### Which one is right?

The really interesting question is, which approach is "correct"? The answer is that no-one knows; just like the JVC *versus* Betamax debate, this one won't be decided by technical competence but by the way the industry as a whole finally jumps. However, that has never stopped me from voicing my opinions in the past, so here goes.

**As a database freak**, I wholeheartedly support the UDB concept — no question. However, as a pragmatist I think that Microsoft is ultimately right. I believe that, realistically, there will always be data stored outside the RDBMS ideal, and that people will still want access to

that data, so they will surely need OLE DB. Nevertheless, there is an extremely important rider to that viewpoint which strongly suggests that the story is not yet over. We are all

aware that the registry in NT is less than perfect. It grows, it bloats, it acquires errors on machines where software is frequently loaded and unloaded. The result is that it is not uncommon for NT to be reloaded at six-monthly intervals on such machines, simply to clean up the registry.

The fundamental problem is simple. The registry is not a proper transactional database — just like the email systems and all the other applications which store data in a loose and slipshod manner. In turn, this means that Microsoft's argument for the continuation of non-relational data stores skirts the issue that data stored by its own non-relational products brings problems by the barrowload. We live in interesting times.

### PCW CONTACTS

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# Play it cool

Does your CD-ROM drive need chilling out? Here's how Roger Gann coped when **the heat was on.**

**S**ometimes there's a simple solution to an inexplicable hardware problem — so simple that it stares you in the face, defying you to diagnose and spot it. Here's a case in point. My PC at home is a homemade hybrid, enclosed in a mini-tower. It stands on the floor next to my desk and, for the sake of convenience, I located the CD-ROM drive in the topmost drive bay, which makes a lot of sense. The drive was an old 8X LG IDE drive and, to be honest, it didn't get a lot of use. To cut a long story short, the drive had become unreliable, sometimes working, sometimes not, and frequently performing a disappearing trick from the Windows 95 Device Manager list. I deduced that I'd got a duff drive so I popped out to Simply Computers, bought another IDE drive and fitted it. End of problem — or so I thought.

**It took a while** but eventually the problem of the "disappearing" CD-ROM reappeared. Figuring that it must be a pretty big coincidence getting *two* dud CD-ROM drives, I decided to investigate further. No doubt about it, the drive was 100 percent correctly installed. Eventually I tracked down the cause of my woes: the modem. I use a Microcom V.34 external modem at home and to keep my desk free of clutter I site the modem on top of my mini-tower case, directly over the CD-ROM. When I was playing around with V.90 modems I unplugged the Microcom for a couple of weeks. Miraculously, the CD-ROM drive problems evaporated. How so?

It turned out that heat was the problem. Although I turned the PC off when not in use, I left the

modem on all the time. As a result, it ran hot and the heat it generated was conducted into the case and thus into the CD-ROM drive, which then got all hot and bothered. Moral of the tale? Keep your CD-ROM drives as far away

***It took a while, but eventually the problem of the 'disappearing' CD-ROM reappeared***



**▲ POWER TO THE PEOPLE: INTEL'S PENTIUM II OVERDRIVE CHIP**

from any sources of heat, particularly the new breed of super-fast, multi-gigabyte hard disks which produce prodigious amounts of heat. And, keep an open mind when diagnosing faults as things are not always what they seem.

## Into OverDrive

Intel recently released the long-awaited Pentium II OverDrive. Before you get too carried away, let me explain that this is a Pentium II-based upgrade for the Pentium Pro processor. The Pentium II ODP is available in two versions: one that takes 150 and 180MHz Pentium Pro's to 300MHz, and the other, which takes 166 and 200MHz Pentium Pro's to 333MHz — the fastest processor speed possible on a 66MHz system bus. The Pentium II OverDrive has a suggested list price of around £365, which compares favourably with the retail version of the 333MHz Pentium II.

As well as a faster clock speed, you get several other benefits, too. The guts of the new OverDrive is still the old P6 core,

but is now based on a 0.25micron process. You also get MMX extensions plus 512Kb of cache. Unlike the Pentium II cache, which runs at half the processor's core speed, the Pentium II OverDrive's cache runs at full speed. This translates into a performance gain of around six percent over a Pentium II — the iCOMP2.0 rating of a 333MHz PII being 366 against the 333MHz PII OverDrive's 387MHz.

**I run Windows NT 4.0 Server** on my Pentium Pro machine and the upgrade has made a noticeable difference to the machine's overall responsiveness. Intel's SYSmark32 benchmark posts an overall performance gain of about 50 percent over a 200MHz Pentium Pro running Windows NT 4.0, rising to 75 percent for a 150MHz processor.

It was the Pentium Pro's cache, if you recall, which was the downfall of the processor. It was integrated with the CPU in a single piece of silicon; a process that delivered excellent performance but from which it was difficult to derive good production yields. In short, it was too expensive to manufacture on a large

scale. There was no way of testing the two halves of the processor until it was too late. And if, for example, the cache was a dud, you would have to ditch the whole thing and start again. The Pentium II got around this by decoupling the cache from the processor, putting it on the circuit board to which the processor was attached and running it at a slower speed. As a result, the original Pentium II processors didn't offer significant performance advantages over the Pentium Pro, which remains the processor of choice in heavy-duty server configurations simply because of this and its support for eight-way (and higher) SMP configurations. The 1Mb cache version was particularly sought after.

The PII is limited to dual-processor configurations (as a result, so is this OverDrive) and this restriction won't be overcome until the much-delayed Xeon comes on stream, hence the refusal of the Pentium Pro to take an early bath. This new OverDrive therefore provides a decent mid-life "kick" for single- and dual-processor servers.

Intel stresses that not all Pentium Pro motherboards can take the upgrade and it quietly recommends upgrading your BIOS to the latest version first. It also provides a little diagnostic program (available from Intel's web site) that tells you whether or not it will work with your BIOS. The program was fairly ambiguous when it came to analysing my cheapo Pentium Pro motherboard, but the upgrade nevertheless worked perfectly.

## Too hot to handle

As with all processor upgrades, the task takes only a couple of minutes to perform. I had to first unclip the large heatsink (a fiddly process), then unclip the Socket 8 ZIF lever to remove the old processor. I should have worn my oven gloves as both components were too hot to handle. You have to exert some care when inserting the new processor, as the pins are quite delicate.

The final step is to connect the power lead to the cooling fan: unlike previous OverDrives, this one doesn't draw power from the fan via the socket but from a power lead using a "Y" adapter provided for the purpose. The Pentium II ODP is a solid piece of kit, and

## ANONYMOUS HARDWARE

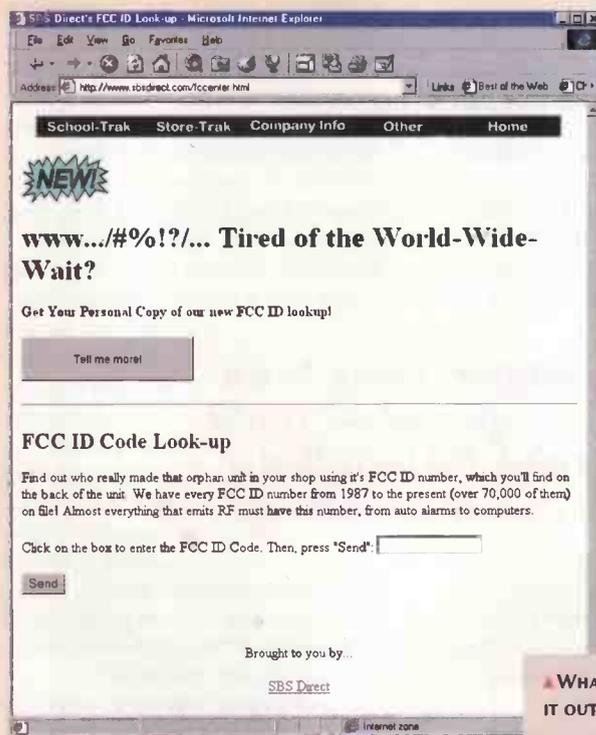
I got an interesting email from reader Simon Allden the other day. It was a follow-up to my September issue column on BIOS upgrades. One problem I had come across was that of identifying the manufacturer of a motherboard: it seems they go to great lengths to leave off any identifying marks or labels. I suggested one way: that is, using the BIOS ID string, but this isn't foolproof because not all BIOSes (e.g. Phoenix or MR) use this method.

Simon suggests another possible avenue of investigation: "All electrical equipment sold in the USA apparently requires an FCC (Federal Communications Commission) ID to be issued, ensuring compliance with their equipment standards," he writes.

"Thus, to find the manufacturer of a piece of electrical equipment, all you need do is fire up a search engine (I was told Yahoo works best for this search), type in the FCC ID as it appears on the piece of equipment (e.g. FCC ID H52PT-3006) and follow the appropriate link."

One useful web site he mentioned was [www.sbsdirec.com/fccenter](http://www.sbsdirec.com/fccenter).HTML, a site worth bookmarking. This lets you enter the FCC ID and then performs a lookup on its database of manufacturers. I entered CJE-0159 and it correctly identified it as a US Robotics serial card made in 1992. Simon also mentions using Yahoo to perform the search, but I prefer to do my net-searching with an excellent piece of freeware called

WebFerret, which hits multiple search engines simultaneously and collates and de-dupes the results, which you can then sort. If you click on a search hit, your browser fires up and takes you there. You can download WebFerret and other equally good search tools from [www.ferretsoft.com](http://www.ferretsoft.com).



▲ WHAT IS THAT KIT? CHECK IT OUT WITH THE FCC

to my mind looks like a powerful processor ought to: big and chunky with lots of heatsink fins. If looks were important, it would knock the somewhat flimsy, plasticky Pentium II into a cocked

hat. I have to say I was pleased to find that you do get a decent cooling fan/heatsink with the OverDrive, which is more than essential given the high running temperature of the original



Pentium Pro. I've always found the add-on cooling fans you can buy for around a fiver are really low-quality plastic jobs with a life-span that makes a butterfly look like the epitome of longevity.

Cooling the old Pentium Pro used to be a perennial problem at Gann Towers but this doesn't arise with the Pentium II OverDrive. The fans Intel specifies for its OverDrive processors are very good. They're made of metal, look "heavy duty" and seem to last forever.

**Incidentally, Intel has** posted a little utility on its web site to help you identify what sort of Intel CPU you've got fitted. Called, rather unsurprisingly, CPUID, it is available in both DOS and Windows versions. This 126Kb download detects and lists such details as Family, Model and Stepping, although it neither detects clock speed nor the multiplier effect, which is a shame. And when you try it on a PC without an "Intel Inside" it simply declares "unable to identify". Download CPUID from [www.intel.com/design/perftool/cpuid/utility.htm](http://www.intel.com/design/perftool/cpuid/utility.htm).

## Of support and servers

Talking of servers, I recently installed a network for a small trading firm in the City area of London. I had specified Microsoft BackOffice Small Business Server (SBS) for the server and Windows NT 4.0 for the workstations, all of which was bought from Dell. SBS is a good choice for a small business as it encompasses Windows NT 4.0 Server together with most of Microsoft BackOffice at a knock-down price. For example, SQL Server, Exchange Server plus a whole raft of goodies and admin tools designed for the small, technically unsophisticated business.

The server was a Dell PowerEdge 2200, which comes "oven-ready" for SBS. In theory, you should be able to simply turn on the server and the SBS install should complete with minimal intervention required. Well, that's the theory. One of the key pieces of hardware SBS sensibly insists on is a modem, and the install won't complete unless it finds one. Naturally, the Dell PowerEdge SBS

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CPUID WILL IDENTIFY  
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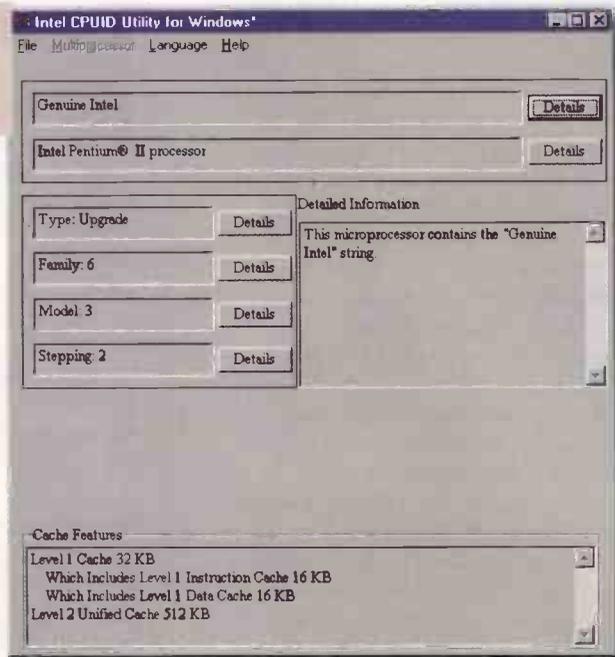
bundle includes a modem, an internal US Robotics V.34 Sportster. Needless to say, the SBS install routine couldn't detect the modem as it should have. As a result, it completely messed up the install because the absent modem caused a domino effect throughout the system, crippling RAS, Exchange Server and so on.

I take the conservative view with server software installs that it has to go totally perfectly, otherwise it's a failure. This proved a costly failure as reinstallation over the existing dented installation (the Dell recommended solution) didn't resolve the myriad problems. So, I had to reformat the partition and start from scratch. All told, this cost a day's time.

SBS failed to detect the modem because it had been set to plug-and-play mode — NT 4.0 is not a Plug and Play operating system. Setting the modem to COM3, by moving a jumper, cured it. SBS correctly detected it and all was fine thereafter. This was a trivial mistake, but

it has fatal consequences if you want to install SBS. Has Dell ever pulled one of its SBS specials off the production line and tried to complete the install?

I had trouble with the workstations, too. These had 9Gb drives, split as a 2Gb FAT16 partition with the balance as a 9Gb NTFS partition. NTFS is awkward from a production point of view and it's often more convenient to "blow" operating systems onto a blank hard disk if FAT16 is used. Unusually, the Convert utility, which converts partitions to NTFS, had been added to the Program menus and so I ran the convert



utility because I wanted the advantages of the NT File System. The problem was that shortly afterwards, the workstations in question refused to boot: the POST would successfully complete, but OS Loader just wouldn't kick in. A phone call to Dell support established that this was either a software or configuration issue. Because I'd converted the partition to NTFS, Dell would not offer further support. If my problem had been with Drive D: which was factory shipped as NTFS then support would have been forthcoming. But as Drive C: was no longer in the same condition as when it left the factory, support came to an abrupt end — you'd think I'd installed a virus or something!

**There had been no warning** about taking this clearly risky step and it seems absurd to offer support on one NTFS partition but not another. It speaks volumes about the company's faith in the operating system. Don't say you haven't been warned. Read the terms and conditions very carefully before installing any software onto your new PC. You may find that it will invalidate your warranty.

**Support came to an abrupt end — you'd think I'd installed a virus or something!**

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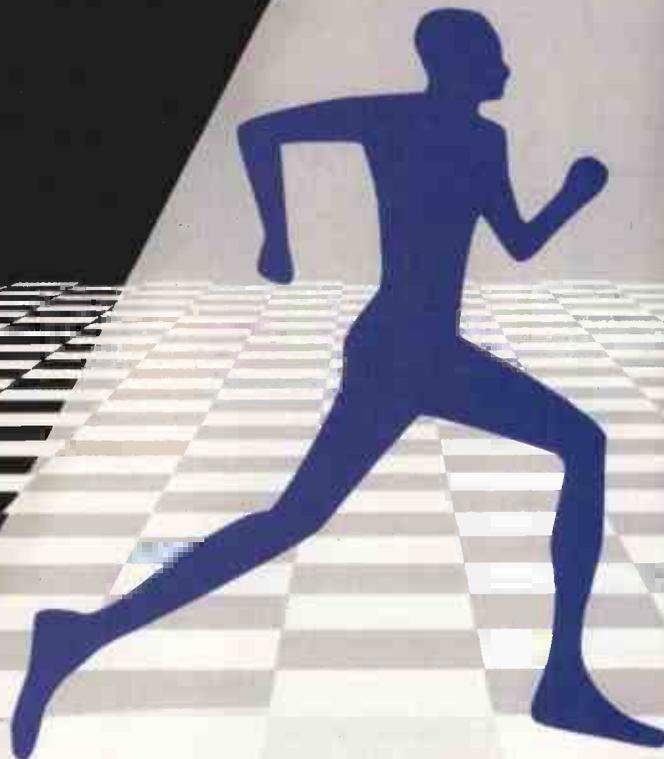


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MARKETING THAT'S MORE DIRECT



# Christmas chords

Here's something to keep you amused over the festive season. Steven Helstrip presents a selection of the finest shareware virtual studios for making music with your PC.

Over the past year we have seen some exciting developments in sound technology, perhaps most notably the virtual studio. Cubase VST certainly started something big; within 12 months of its release there were around 100 virtual effects which could connect to your virtual sound studio with virtual leads. Then came the wave of virtual synthesisers and virtual samplers. It came as no big surprise that these could connect to your virtual studio with virtual MIDI interfaces.

Five years from now, professional studios will exist purely to record orchestral, folk and rock music. Pop, dance and the remaining electronic genres will be recorded at home or, at best, in project studios driven by software. There simply won't be the need for expensive DSP and valve hardware; it will all be modelled in software.

Even the sound engineer is under threat. On page 286 we take a look at a new plug-in from Steinberg that can learn the sonic characteristics of a platinum-selling album and apply it to your own bedroom recordings. Whatever next?

## Festive fun

As it is coming up to Christmas, we are going to look at the five best shareware virtual studios for making music with your PC. It's a mixed bag of synths, samplers and utilities so there should be something here to keep you entertained over the festive season.

### ➔ AWE Toy

If you've got an AWE sound card, you can't afford to be without AWE Toy [Fig 1]. It provides access to all the card's synth, SoundFont and audio parameters via nine panels. MIDI processors include



an arpeggiator, pseudo echo and a chord generator, all of which can be routed to your sequencer to record performance data in real time. There's support for virtual SoundFonts and setups can be saved on a per-song basis.

Available for free download at [www.maz-sound.com](http://www.maz-sound.com).

### ➔ Hubi's LoopBack Device

If you want to control software-based MIDI applications from your sequencer, you're going to need a virtual MIDI interface. Hubi's LoopBack Device provides up to four MIDI ins and outs.



It's a doddle to set up and rates highly as one of my most useful utilities. It's available for free download at [www.maz-sound.com](http://www.maz-sound.com).

### ➔ Signum 1100DX

Here's an Akai S1100 sampler in software [Fig 2]. The entire operating system has been implemented, right down to sample editing, and there's even

support for VST and DirectX plug-ins. Sample banks, or programs, can be created by simply importing a wave file and assigning a MIDI channel to it. With more features than a Swiss army knife and



support for multiple sound cards, we'll be seeing a lot more of this in 1999. [www.signum.it/1100/1100.htm](http://www.signum.it/1100/1100.htm).

### ➔ Trancemitter

Trancemitter [Fig 3] is a free VST filter module. What makes it interesting is that its frequency cut-off parameter can be

triggered by the level of the input signal, making it similar to an auto-wah effect. There are parameters for resonance, LFO rate and level tracking. As more applications are

supporting VST plugs, everyone should have a copy. [www.steinberg.de](http://www.steinberg.de).

### ➔ VAZ

VAZ [Fig 4, p286] is a virtual analogue synth based on the classic Arp Odyssey. It comes with over 180 synth patches to start you off and has very low latency (typically 20-40ms). The noises that emanate from this software are massive,



# Questions & answers

**Q** Thanks for the great Sound pages in PCW. I have a question regarding PC-based recording and would be grateful if you could help, as I've been given a lot of conflicting advice and need someone with a similar perspective. I'm a

of recording, SCSI data storage is the only way to go. Is this true? The new Ultra DMA drives also offer fast data transfer. I have budgeted for the extra cost of two 4.0Gb SCSI drives and an Adaptec controller card. Can you tell me if I'm wasting my money? The additional cost is approximately £650 over

**...two 4.0Gb SCSI drives and an Adaptec controller card. Am I wasting my money?**

keyboard player looking to purchase a new PC for recording and sequencing work. I need to be able to record and simultaneously playback eight audio tracks through an Event Gina sound card. I've been given to understand (by a PC supplier) that with this level

an equivalent UDMA-equipped PC, which could pay for some quality mics and a pre-amp instead. I would also be using software effects on a number of tracks. The basic system is a PII400MHz with 128Mb of RAM.

GEORGE BRITTON

**a** I'm happily running Cubase VST on a 266MHz PII equipped with a Gina card. With my UDMA hard disk I can playback 12 tracks simultaneously without a hint of glitching. This leaves plenty of headroom for software-based effects: I usually have a couple of compressors, a delay and a reverb on hand. SCSI drives generally outperform IDE drives, providing faster access and transfer rates. However, playback of eight audio tracks only requires 1.2Mb of data to be read from the disk per second. Under perfect conditions, UDMA drives can deliver up to 33Mb per second. If you're able to dedicate two UDMA drives to audio files, you're unlikely to encounter any problems.

to allow me to digitally extract audio from CDs. My problem is that whenever I put an audio CD into the drive, the disc starts to play automatically. This is quite irritating, as I have to stop and close the Media Player before I can carry on. I know there's a way to turn off this feature but I don't know how. Can you help?

ANDREW HUNDLEY

**a** There are two ways around this problem. You can either hold down shift when closing the CD tray, or a more permanent solution is to disable Windows' Auto Insert Notification. To do this, open the Control Panel and load System. In the Device Manager section, select the CD-ROM setting and double-click on your drive to open the Properties dialog. Auto Insert Notification can be found in the Settings tab.

**Q** I use a lot of samples in my music and recently got hold of a copy of CD-DA



[FIG 4]

your own mix. Put simply, it's a virtual engineer that can add a touch of sparkle to home-made recordings. The 30-band EQ can operate like any other graphic equaliser to provide up to 15dB of gain and cut. The fun doesn't start, though, until you have a two-track mix of a tune that needs a hint of spice. To

► FREEFILTER, THE IMPRESSIVE PHONIC PHOTOCOPIER



ranging from Prophet-like pads to faithful 303 basses. You've got to try this to believe it. Available for free download at [www.software-technology.com](http://www.software-technology.com).

## Steinberg FreeFilter

If you want your music to sound as good as the CDs you buy, FreeFilter could help you on your way. It's a DirectX plug-in that can learn the sound of one piece of music, then cunningly apply it to another. So, for example, you can take a song that you feel has been well mixed and EQ'ed, let FreeFilter analyse its frequency content, then adapt its EQ settings to

analyse a platinum-selling single, all you have to do is enable the Source button and play the wav file from your audio editor. FreeFilter then creates a "fingerprint" of its frequency content [Fig 5]. Before applying the settings to the destination file, you must first allow the plug-in to learn its frequency content, which is effectively the same process.

Then comes the fun bit: click the Match button and allow your track to be transformed. All this happens in real time and you can set the strength of the modification from zero to 200 percent. Of course, there's a great deal more to a

good mix than just EQ, but given the right source material with which to work, FreeFilter can work magic. It's a bit pricey at £299 (inc VAT) but this is a product that delivers professional results. • Arbiter Audio is on 0181 207 5050.

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# Gloria in Extensis

Extensis Intellihance is heavenly for **improving your images**. Ken McMahon sings its praises.

It's more than a year since I took stock of the myriad plug-ins available for image editors. They're generally referred to as Photoshop plug-ins but you can use them with any application which supports Adobe's plug-in architecture. This month, though, I want to concentrate on one that's earned its keep many times over in the past year, and that's Extensis Intellihance.

**Intellihance is a** multi-faceted plug-in which improves your images by first evaluating them, then making adjustments to the contrast, brightness and saturation, and applying sharpness and despeckle filters. You can alter the settings to reflect your own personal preference and save the alterations as presets. Say, for instance, that images grabbed from your camcorder always had a particular colour cast and grainy-looking shadow areas, you could optimise Intellihance's preferences and save them as a preset to be used when processing video images. Used in combination with an image editor which supports scripting or batch processing, Intellihance becomes just about the quickest and easiest way to bring your images up to scratch.

*Intellihance becomes just about the quickest and easiest way to bring your images up to scratch*

**When you select** Intellihance from the plug-in filters menu of your application, you are presented with a not very impressive dialog box with three buttons: enhance image, preferences and cancel. The enhance image button does what it says. Using the default settings you can give it a try, but you'll do better to press the preferences button which gives you more of a hand in the process. The preferences dialog is shown in Fig 1. This

is one of a series of pictures I took outside at night, with a flash mounted on the camera. Inevitably, the highlights in the foreground are a little burned out and the illumination falls off rapidly (in inverse proportion to the square of the distance, for all you technical types) resulting in some very dense shadows. Using the default settings, Intellihance



**▲ FIG 2** YOU CAN FINE TUNE ADJUSTMENTS BUT REGRETTABLY ALL THE FINE TUNING IN THE WORLD CANNOT BE SAVED AS PART OF A PRESET

shadow areas. The "before" version can be viewed in the preview window by pressing Control. The highlights are still looking harsh, though, and the contrast is way too high, probably not helped by Intellihance's bucketload approach to unsharp masking. So there's still plenty we can do with this image.

**Before you start,** it's probably worthwhile selecting Preferences from the "display at launch" pulldown so you come straight here next time you select Intellihance from the plug-in's menu. Another thing worth doing right away is maximising the window to full-screen. Oh, and I should have told you to make sure that you crop your picture nice and tight, as any areas of white or any flat colour around the edges will throw Intellihance off the scent.

In the top left of Fig 1, you can see pulldown menus from which you can select presets for all the adjustments. The contrast pulldown has seven options, ranging from Off to Hard, Snappy, Flatten Highlights and Flatten Shadows. Soft seems to do the trick well with this kind of image. The saturation presets range from Low to High with a few in-between settings: all increase the saturation of the original, and changing



**◀ FIG 1** INTELLIHANCE PROVIDES A NICE BIG PREVIEW WINDOW SO YOU CAN SEE EXACTLY WHAT'S GOING ON. PRESS CONTROL TO REVERT TO THE PRE-ADJUSTED IMAGE. THE BLACK AND RED AREAS ON THE HISTOGRAM INDICATE PRE- AND POST-ADJUSTED LEVELS RESPECTIVELY

## Questions & answers

**Q** I want to have the letters USA filled with stars and stripes clipart. How could I do it? I have Microsoft Publisher 97, CorelDraw 3, SerifDraw Plus 2 and Pageplus 3, yet no matter what I try, it doesn't seem to register the clipart. I have tried everything to achieve this but nothing seems to work. What I had to settle for in the end was a stars and stripes flag placed behind the text with a clear fill colour.

MICHAEL PHOENIX

**a** My advice is to upgrade to CorelDraw 7 which, in the form of Powerclips, provides exactly what you need. Here's how to create text filled with the stars and stripes flag. First, create the USA text by clicking in the draw window to create artistic rather than paragraph text. Set the text using the font and size pull-down (I've used 200pt Arial Black). Next, import the flag from the Corel clipart CD, which contains just about every flag ever flown, including semaphore flags and the skull and crossbones. With the flag still selected, choose "Powerclip — place inside container" from the effects



menu, then click on the USA text. You can position the flag artwork within the text by selecting Edit Contents from the same menu.

**▲ Fig 3** WRITE PATRIOTIC LETTERS IN CORELDRAW 7, COURTESY OF POWERCLIPS. THE CONTENT, THE US FLAG, CAN BE POSITIONED ACCURATELY USING EDIT CONTENTS

it from medium to low will tone things down without losing colour from the skin tones. The sharpness settings, like the others, increase the overall sharpness of the image. The lowest setting is Soft, but don't expect it to soften or blur the images: it just sharpens things up by a soft degree. Because it's so contrasty I don't think this image, nor others like it, will benefit from sharpness, so I'm turning it off. Bear in mind that you're trying to optimise these settings, not just for this one image but for all of the

images you're going to process using these presets. The next thing to do is save the preset; I've called it "night flash".

### Fine tuning

If you want more control than the pull-down settings provide, hit the Fine Tune button at the bottom of the preview window. Fine-tuning adjustments can be made manually only to individual images: you can't save the adjustments as part of a preset [Fig2].

This replaces the pull-downs with a tabbed palette, giving greater control over each of the image adjustments.

Instead of a few presets you get access to sliders and other tools which provide an infinitely variable degree of control. Using the tone panel I've put detail back into the highlights by bringing the highlight slider back up to 255 and lightened up the midtones using the midtone slider. There are three eyedropper tools you can use to set the white, black and midtone points from the image, and a lightmeter which you can use to select an area of the image on which to concentrate when making tonal adjustments. The final adjustment I've made is to fine tune the cast in order to remove the green tinge that's crept into the wall.

There really isn't too much wrong with this image to start with, but by using Intellihance I've managed to make real improvements in no time at all. What's more, other similar images on which I've tried these settings all benefit from similar improvements, in some cases bringing out background detail that previously was not visible.

## COLOUR MANAGEMENT CUES

Following the Colour Management workshop in the September issue, a number of you wrote in to ask for further information about ICC-compliant colour management systems.

There seem to be relatively few books on the subject, although I can wholeheartedly recommend Agfa's *The Secrets of Colour Management* which you can order online from [www.agfahome.com/publications/dcpStext.html](http://www.agfahome.com/publications/dcpStext.html). Chapters include: The Digital Reproduction Workflow; What Is Light?; How Do We Perceive Colour?; Why Colour Management?; Monitor Limitations; Characterizing Output Devices; Colour Separation; and Colour Management Today.

There is also an Agfa colour management FAQ at

[www.agfahome.com/faqs/colormgmt.html](http://www.agfahome.com/faqs/colormgmt.html), although this is rather heavily Agfa-product biased.

Other useful web resources include:

➤ The International Colour Consortium at [www.color.org](http://www.color.org) which has good links to most of the relevant sites.

➤ Try [www.apple.com/colorsync/index.html](http://www.apple.com/colorsync/index.html) for details of Apple's ColorSync CMS.

➤ And at [www.adobe.com/supportservice/custsupport/TECHGUIDE/PSHOP/CMS3/cms\\_gen.html](http://www.adobe.com/supportservice/custsupport/TECHGUIDE/PSHOP/CMS3/cms_gen.html) you can find Adobe's excellent and comprehensive technical guide to colour management.

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# Changing rooms

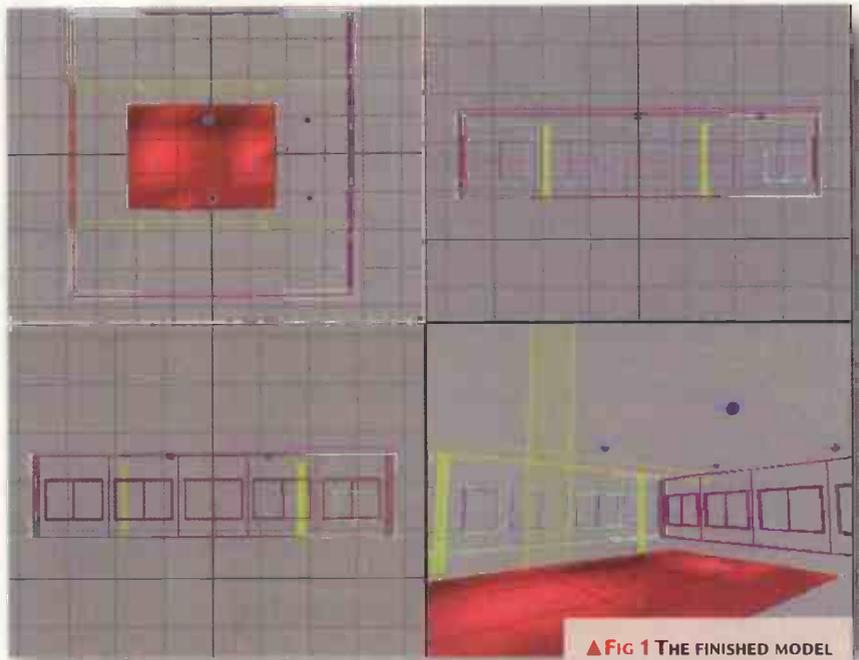
You can use 3D graphics to try out room plan and **decoration ideas**. Benjamin Woolley explains.

**A** DIY enthusiast and amateur interior designer who was always rather puzzled by my preference for fiddling around with virtual spaces rather than real ones, recently pointed out to me that one useful application of 3D graphics would be to model room interiors and then use the result to test out various décors and colour schemes. I have just spent the past few days trying to do exactly that, discovering along the way some salutary lessons about the difficulties of using a computer to simulate physical environments.

## Light fantastic

The first stage of the task was relatively easy to fulfil: build up a model of the interior to be designed. The space, a warehouse conversion, is a relatively simple one, little more than a flattened cube [Fig 1]. The only architectural flourishes are the cast-iron pillars which hold up two heavy beams that traverse the ceiling, and some light fittings.

Once the basic model was complete, I next had to consider how best to light it. This provided the first big challenge, as lighting a virtual scene that is supposed to correspond with a physical one is a tricky business. The problem is to do with both the nature of virtual lights, and the accuracy of renderers. Virtual lights do not necessarily behave exactly like real ones. For example, in my scene there is a soft "omni" (as in omni-directional) beneath the room, the light from which actually penetrates the underside of the floor before it hits the ceiling. The reason I have put it there is to make up for another peculiarity of virtual lighting: there is a set of spotlights in the ceiling which cast quite intense pools of light onto the floor, but due to the inadequacies of the general-purpose renderers you get with 3D authoring packages, the light is not reflected back into the room. So, even when the spots are pointing at a shiny parquet floor, the rest of the room remains in gloom. I have



**▲ FIG 1** THE FINISHED MODEL OF THE ROOM'S INTERIOR. THE LARGE RED OBLONG OBJECT IS THE PLANE UPON WHICH THE RUG HAS BEEN MAPPED

had to use the omni to compensate.

There is a third light in the scene, which represents the sun. It is a so-called (in 3D Studio MAX) "direct" light which casts its light in parallel beams and, unlike a standard omni, casts shadows (i.e. the light is blocked by opaque objects in its path). By moving the sun around the model, I can reproduce the different lighting conditions the room's inhabitants will experience at different times of the day, and by switching it off I can give an idea of what the artificial lighting will achieve at night time.

**With the modelling** and lighting completed, I was now ready to start on the décor. This, for my DIY friend, is the whole point of the exercise. Once you have got a rough model of the space to be decorated, you can experiment with different schemes simply by changing or editing textures. For example, the pillars and beams are textured with a mottled

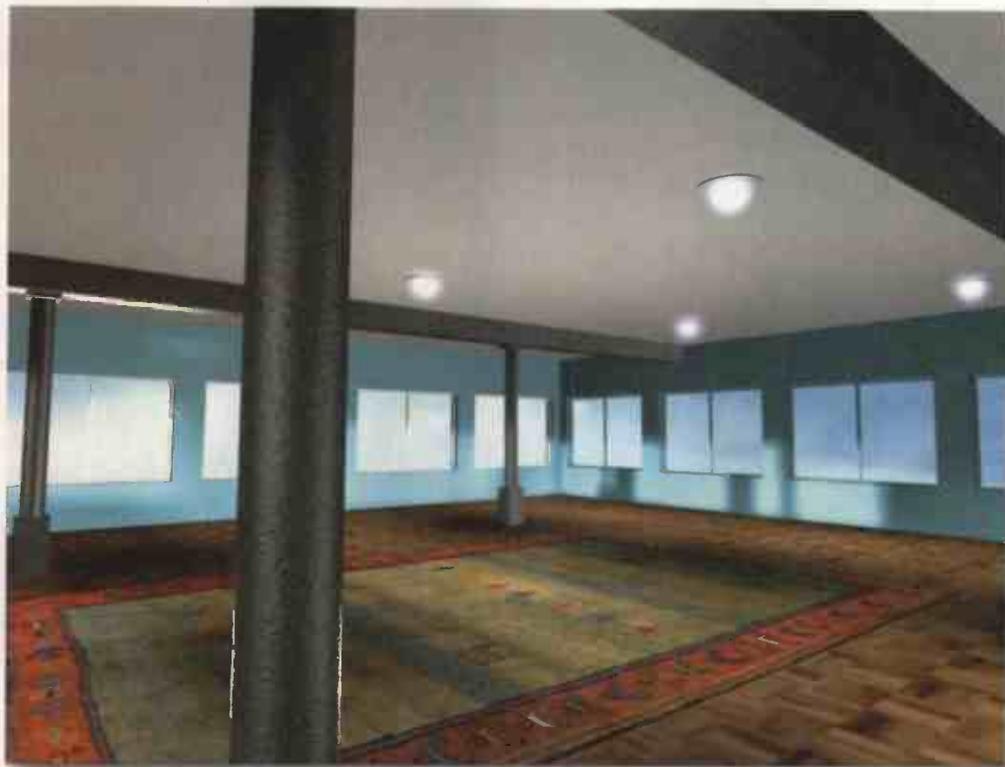
cast-iron finish which happens

to be black. By simply altering the diffuse colour properties for that material, it can instantly become white, blue, purple or whatever you want, while retaining its distinctive texture. You can instantly repaint the walls a different colour using the same technique. When you start to apply texture

maps as well as colours, a whole host of new possibilities arises. The parquet flooring can be changed to stone or marble. It can be rendered as highly polished or dull, bumpy or smooth, simply by changing the appropriate parameters in the materials editor.

**The final rendering** of the scene [Fig 2] shows how you can even try out artefacts you have spotted in a catalogue. The rug, called a "Gabbeh", is a form of tribal weave from southern Iran. For my virtual rug, I scanned a beautifully-printed colour picture from a catalogue, using a

**Virtual lights do not necessarily behave exactly like real ones**



**◀ Fig 2** THE RENDERED RESULT OF THE MODEL, WITH A SHINY PARQUET FLOOR AND WALLS PAINTED A TASTEFUL SHADE OF BLUE. I HAVE USED A POST-PRODUCTION EFFECT TO ADD SOME GLOW TO THE LIGHTS

others with stripy wallpaper, and so on. The result was very pleasing, and provided a reasonably good indication of which colour and pattern schemes would work, and those that would not.

flatbed scanner, and applied the resulting bitmap as a texture map to a simple flat plane (that is, a square) placed just above the floor. The rug did present one problem: it was not a perfectly rectilinear shape and its edges were softened by fringes. If I mapped it on to the plane without taking this into account, I would end up with hard, cropped edges; to avoid this, I used a 2D paint package to create a mask out of the rug, using the

alpha channel (see the December '97 column for more on this topic). This mask was then used as an opacity map, making the areas around the edges, and even between the tassels, transparent so that the floor beneath would show through.

**When I had finished** texturing, I was able to render endless versions of the room, each with a different wall or floor covering: some with terracotta tiles,

➤ **There are specialist software packages** for using 3D graphics to plan room interiors (notably Visual Home, from Fastrak) but only by doing it yourself with a proper 3D authoring package will you get the flexibility to see what is possible, as well as discovering the limitations. This exercise provides a reminder of just how unrealistic so-called photorealistic renderers remain. In particular, the way light behaves in a virtual scene is different to the way it behaves in a real one, in a way that is of particular relevance to trying to reproduce interiors.

If I had, say, a bright red floor and pure white walls, none of the red light reflected off the floor would be reflected by the wall. Furthermore, the overall level of brightness of the room would remain the same whether you use light or dark colours. The only way around this is to add, as I have done, false lighting and tint it appropriately. Unfortunately, the more you do this, the less reliable your virtual room becomes as a guide to what the real one will eventually look like.

## A STANDARD CHRISTMAS WISH

**I**n the time-warped world of monthly magazines, this January issue comes out before Christmas. So, I have only one thing to ask of Santa: a standardised, extensible 3D file format/rendering language — although if he could throw in a workstation with an Intel Xeon processor, it would be appreciated. A “standard” hardly sounds like the most

scintillating present, but it really would be a boon to the world of 3D graphics which remains obstinately stuck with a series of proprietary and incompatible standards. There is DXF, but that remains woefully inadequate as it does not allow for textures. There is VRML, but that is specifically designed for 3D content which is going to be sent over the internet and rendered in

real time. An industry-approved format would allow us to pick and choose different software tools from different suppliers. It would mean that, for example, you could use a texture editor from one company with a renderer from another. We would no longer have to rely on one monster package to provide everything we wanted. What a real gift that would be to us all.

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visual programming

# Bugging out

It's easy to catch program bugs and **streamline your code** in Visual Basic, says Tim Anderson.

**C**ongratulations to NuMega and Compuware, who have shipped DevPartner Studio for Visual Studio 6.0 almost before Microsoft's product hit the shelves. Visual Studio itself has an array of debugging facilities, but DevPartner Studio goes several steps further. A number of development tools are supported, but the main focus is on Visual C++ and Visual Basic.

## Smart move

I tried out the VB tools on a project I knew to be of poor quality. A club membership database, it was ported from VB 3.0 to VB 6.0 with minimal changes. First, I tried out SmartCheck. If you run an application with SmartCheck enabled, then it will catch unhandled errors before VB's own error dialogue appears. The SmartCheck error dialogue is more informative than VB's default, particularly with ActiveX and API problems. When you exit the application, you can view a report of all your

source code, making it easier to trace why the error occurred. SmartCheck will also test compliance with different versions of Windows. Alongside SmartCheck, DevPartner studio includes FailSafe. This automatically adds error handlers throughout a project, the aim being to make the code uncrashable. Whereas an unhandled error in VB will normally terminate the application, FailSafe will pop-up a printable dialogue explaining the error and inviting you to describe what you did to cause it. The problem with FailSafe is that it only catches code that raises an error, whereas many bugs are logic errors that deliver wrong results without actually crashing the application. If you are suffering from crashes though, FailSafe may well help.

application's events, with a synchronised view of the

**ANALYSING A TIME-CONSUMING FUNCTION IN A VISUAL BASIC PROJECT**

Image	Called	Source File	Average
	2	MAIN.BAS	67,229.51
% in Function	2.77	First	64,436.85
% with Children	37.60	Maximum	70,022.18
% in Image	51.24	Minimum	64,436.85

Parent Functions	Called	Per...
frmGroups_Form_Load	1	99.50
modMain:ManageGroups	1	85.72

Child Functions	Called	Per...
Field:Value_Get	4,998	24.72
Database:OpenRecordset	6	20.28
Fields:Item_Get	4,998	9.81
_vbaFreeVarList	2,500	9.19
_vbaVarCat	9,988	5.76

CodeReview run on 27/09/98 09:14:41

Problems found in: Entire Project (642 items)

Description	Status	Severity	Type	Max
Test for empty string found		High	Performance	FRP
Test for empty string found		High	Performance	FRP
Test for empty string found		High	Performance	FRP
[Object].Print method found				FRP
[Object].Print method found				FRP
DateSerial function found				FRP
Month function found				FRP
Year function found				FRP
Test for empty string found				FRP
DoEvents keyword found				FRP
Truncate function found				FRP

**View Options**

Select the type of problems you would like shown:

- Year 2000 Compliance - Issues that might impact your application in 2000
- Logic - Issues such as poor coding and known bugs
- Portability - Conditions that limit a project to a specific version of Visual Basic for Windows
- Performance - Code that may not operate as fast as possible, or may make the application larger than necessary
- Windows API - Known Windows API bugs
- Standards - Issues such as poor coding style and non-compliant naming of controls, menus, forms and modules
- Usability - Issues related to user interaction with the program, such as mouse, keyboard and menu operations, or missing help

Buttons: OK, Cancel, Help

**CODEREVIEW RUTHLESSLY EXAMINES YOUR CODE FOR POTENTIAL PROBLEMS**

Next, I tried Code Review, which analyses your code and compares it against a database of rules. Code Review made 1,500 comments on my modest application. For example, it picked up use of the Global keyword, pointing out that Public should be used instead as Global may not be supported in future versions.

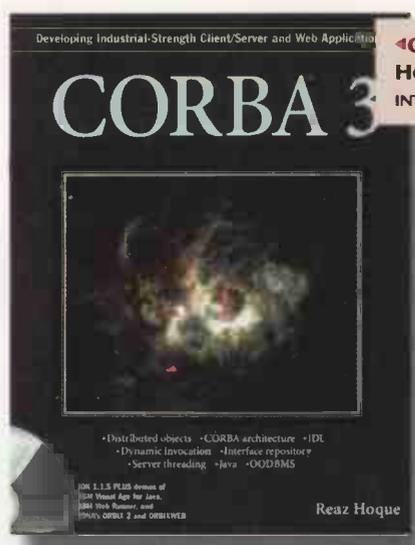
A few of the comments were more illuminating. Where there was a test for an empty string, it noted that testing for `Len(strSomeString) <> 0` could be 150% faster. Where the Print method was used, it noted that the API call `TextOut` was often 450% faster. It found variables declared but not used, controls with no help assigned, objects created but not explicitly freed, and potential Year 2000 problems. The project quality would be significantly improved by addressing all these points.

**Then I tried TrueTime.** Like FailSafe, this involves building an instrumented version of your application. Run the application, and TrueTime analyses the performance. In a nutshell, TrueTime tells you exactly how long the application



hands on

# visual programming



**CORBA 3 BY REAZ HOQUE IS A GOOD INTRODUCTION**

inadequate. To make matters worse, there aren't many good Delphi books around. Recently published is the *Delphi 4 Developer's Guide* by Steve Teixeira and Xavier Pacheco. This is an unusual book, in that some of the chapters are not printed but are provided on the supplied CD. You can easily be caught out, because the missing chapters are listed in the table of contents but all you find printed is a one-page summary. This is strange, but you do still get over 1,100 pages of intermediate-to-

For the time being, Delphi developers who want to work with CORBA will have to turn to more general titles. One recent publication is *CORBA 3*, a developer's guide by Reaz Hoque. Although it is aimed at C++ and Java developers, this title provides an excellent overview of what CORBA is and how it works. Beginning with an architectural overview, it goes on to describe a simple CORBA application in detail. Topics in other chapters include CORBA services,

Interface Definition Language, and Object Oriented databases. With a good book like this, plus what little documentation

**Delphi is a superb product, but very poorly documented**

spent in each function. Most functions call other functions, so TrueTime lets you drill down to see what really took the time. A TrueTime session report contains a huge amount of information, and you can view results at API level as well as in terms of your Visual Basic code. I found that only 5.4% of the execution time was running VB code; the rest was in system calls. I was also able to see which functions took up most execution time, how many times they were called, and how the time broke down between child functions. TrueTime is brilliant, and as a bonus will show you how VB works.

advanced Delphi information. There is a lot of useful material here, but the authors do seem to be infected with the Delphi 4 malaise in that several important topics are just not covered at all. If you want to learn about Action lists, docking controls or CORBA applications, you will have to look elsewhere. The book is still well worth having, with valuable material on topics including the Windows API, COM and ActiveX programming, and component programming. But this is not a quick route to learning Delphi 4's new features.

there is supplied with Delphi, you have some chance of making sense of Delphi's CORBA features.

## Beginner's corner

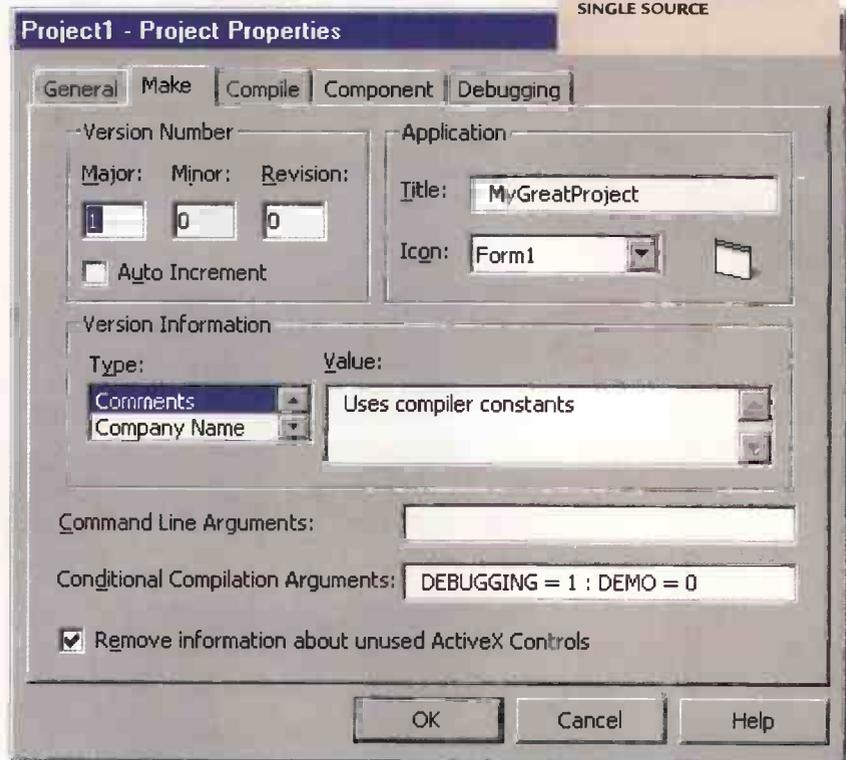
One of the more mysterious topics for newcomers to programming is the compiler directive. Most languages have this feature, including Visual Basic since version 4.0. The relevant VB

**USE COMPILER CONSTANTS IN VB TO CREATE DIFFERENT EXECUTABLES FROM A SINGLE SOURCE**

## Learning Delphi 4

Delphi is a superb product, but very poorly documented. It is as if Inprise likes to tease developers by packing in some great features but not letting on how to use them. For example, try looking up TControlBar in the new Developer's Guide. It isn't mentioned, as far as I can see. There is an online help entry, in the usual terse style without any examples, and that's all. A TControlBar is what you would use to dock several floating toolbars on one site, in the style of Delphi's own interface. If you try to do serious work with dockable controls, you will find that it is not altogether a trivial process and good documentation would be a great help.

Another problem area is CORBA, which is new in Delphi 4 and a key feature. Try to use it, though, and you will find the documentation hopelessly



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### Questions & answers

**Q** I have Microsoft Visual Basic 4.0 Pro, and I would like to know how I can create my own metafile from scratch (in code) and save it as a standard .wmf file.

STEPHEN HOLLY

**a** Windows has several API functions for dealing with metafiles. In principle, a metafile is a set of Windows drawing commands saved to disk. The function

*CreateMetaFile* creates a WMF compatible with Windows 3.1, while *CreateEnhMetaFile* creates an improved metafile that only works on Windows 95 or NT. You can use both from VB, but for success you will need a detailed knowledge of how Windows draws graphics. Daniel Appleman's classic book,

*Visual Basic Programmer's Guide to the Windows API*, includes an example drawing application which loads and saves metafiles, and this would be a great place to start.

**Q** I am trying to write a script that runs under NT Server to create a new user account. I would need to call an API, but can find no documentation on Windows APIs pertaining to NT and account administration.

MARK WILKES

**a** The NetWorking API is the one you want, and it is documented in the Platform SDK. You can find it on the MSDN (Microsoft Developer Network) CDs that come with most development products or by subscription. Unfortunately, while the *Windows Scripting Host*

*WshNetwork* object deals very well with things like mapping network drives or printers, adding a user account is beyond its scope. It will be easier when the Active Directory is available, in Windows NT 5.0, since this has an automation interface that includes methods for creating new users.

**Q** I have often had to use a DOS batch file to automate some processes in Windows 95, but there does not seem to be any obvious way of launching Windows or DOS applications from within VB Script. In VBA version 3 and up, you can use the Shell command, but it is not available in VB Script. Am I missing something here?

JOHN LONGBOTTOM

**a** Several readers have written in with similar queries. You need to use COM automation. This code runs the CD Player:

```
Set WshShell
=Wscript.CreateObject
("Wscript.Shell")
WshShell.Run
("CDPLAYER.EXE")
```

The scripting host exposes a number of objects, providing most of the functionality of the old batch files, for manipulating files and connecting network drives. It is a new approach if you are used to batch files, but useful since many Windows applications are programmable through COM automation. You can create your own automation servers with the full version of VB, and program the scripting host's objects from VB apps.

statement is #IF ... #ELSE ... #END IF. In Delphi it is {\$IFDEF}, and in C++, #ifdef. It works in a similar way to the standard IF ... END IF, but with important differences. The conditional expression has to be based on a specially declared compiler constant, and the part that is not executed is not even compiled. In other words, the #IF statement is not represented in the final executable at all.

There are two ways to use compiler directives in Visual Basic. The main technique is to use the box called Conditional Compiler Arguments in the Project Properties dialog. Constants you define here are global. The other method is to put a #Const declaration in your code. These declarations are private to the module they are in — you can override a global directive just for that particular module. Normally, the only values you need give a compiler constant is 0 or 1. VB will not accept non-integer values for global compiler constants, and any non-zero value counts as true.

**So what is the point** of them? One common use is for debugging. Typically, you want additional checks and tests during development, which you strip out

to make code more efficient for deployment. With a compiler directive, all you need do is to place your debugging code within a #IF DEBUGGING block. (In most languages, you would use DEBUG, but in VB that conflicts with the Debug object.) When you come to deploy, all you need do is to remove the #Const DEBUGGING declaration, or set it to 0, and do your final build.

**Here are some** other handy uses for compiler directives:

- Use a DEMO constant to disable key features so you can put a demo version of your application on the internet.
- Use a BETA constant to add beta-specific code like a time-out after a certain date.
- Use the built-in WIN16, WIN32 and MAC constants to create platform-specific code.
- Perhaps you are considering switching from one grid control to another. You want to run with the new grid, but preserve the code that works with the old one. Define a NEWGRID constant to do just that.

Despite their advantages, some developers refuse to use compiler

directives. The truth is, they are inherently dangerous. Effectively, you are testing a different version of the software than the one that gets released. The problem is even worse if you use multiple directives in the same project. Use or refuse? The decision is yours, but personally I would not want to be without them. Just take care now.

### PCW CONTACTS

Tim Anderson welcomes your queries and tips. He can be contacted c/o the PCW editorial office (address, p10) or email [visual@pcw.co.uk](mailto:visual@pcw.co.uk). *DevPartner Studio 6.0* costs £838.00 (£984.65 inc VAT) from GreyMatter (01364 654100), or individual apps such as *TrueTime* or *CodeReview* can be purchased separately for less. See [www.greymatter.co.uk](http://www.greymatter.co.uk) and/or [www.numega.com](http://www.numega.com). *Delphi 4 Developer's Guide* by Steve Teixeira and Xavier Pacheco costs £54.95 inc VAT (Book and CD). ISBN 0-672-312840. *CORBA 3* by Reaz Hoque costs £42.99 inc VAT (Book and CD). ISBN 0-7645-3200-6.

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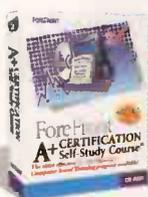
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spread across numerous servers. Unattended installations have been streamlined and there will be the ability to slipstream Service Packs into the installation, removing a tedious additional step.

**The whole issue** of Service Pack handling has been addressed and it is no longer necessary to reapply a Service Pack after changing the system state. Automatic migration is provided from both Windows 95 and 98, and machine cloning using third-party utilities such as Ghost is now supported officially. It is even aided by a Microsoft utility called SYSPREP. Once the system is installed and running, you want it to stay that way, and it's nice to see a huge reduction in the number of required reboots and reinstallations. Reboots are no longer required following operations such as changing settings on PCI and other PnP hardware, volume management, or configuring network protocols, for instance. Nor is it necessary to reinstall the OS after upgrading the server to be a Domain Controller.

**At the time of writing**, performance of the system still has a long way to go, so we have to take Microsoft's word for it when it tells us that performance has been enhanced through improved memory allocation, reduced resource contention, increased file system cache, and the use of "Fibers" (mini-threads). Scalability has been improved by clustering, although this still has a long way to go before it passes most people's definition of clustering,

and a larger physical memory space (up to 32Gb on Alpha, or 64Gb on Intel Xeon).

One of the biggest new features within NT 5.0 is the one that could well make or break NT in large corporate environments. Active Directory (AD) is a big step forward, replacing the trusted domain naming system which was a legacy of the old LAN Manager days. It provides a logical central repository in which can be stored details of all network resources such as users, groups and printers, as well as the security permissions for those objects. The schema is also extensible, allowing ISVs to populate it with their own custom objects (fax servers or network scanners, for instance).

I say "logical" central repository, because it can actually be partitioned and replicated across multiple servers throughout an enterprise to improve both performance and fault tolerance. Active Directory is based around internet standard DNS domain names and has a fully-integrated DNS server and native LDAP support.

### ► The waiting game

What about those new shipping dates? With Beta 2 having only recently shipped at the time of writing, we are now hearing rumours that we will see Beta 3 by mid-November (you will be able to confirm its accuracy by the time you read this) and a manufacturing date of the end of March 1999. This is a good six to nine months before we were expecting it. Apparently, all serious

developers of NT 5.0 software have received a letter stating that it should be ready by 1st

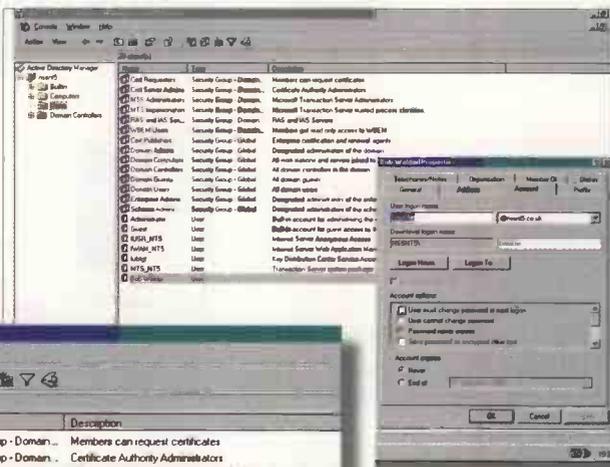
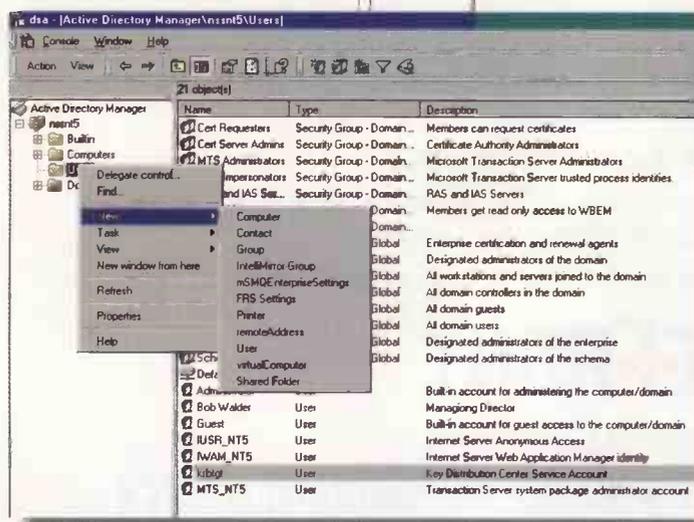
March, which would imply that Microsoft means business. Just to add more fuel to the fire, we also hear of an NT 5.1 Beta 1 for July 1999, with a release date of version 5.1 in early 2000.

Given all the wonderful features in 5.0, how come the shipping dates, having slipped time and again, are suddenly being brought forward? I don't believe that Microsoft has had such wonderful feedback from Beta 2 that it thinks it has got it about right. My guess is that we won't see anything like a full-featured release with v5.0. Microsoft has stated repeatedly that it

is "betting the farm" on NT 5.0. It seems that the initial commitment to ship "only when the customer tells us it is ready" has been replaced by the "get a roughly working version out the door as soon as possible and fix it later" attitude. Microsoft could well take the view that it wouldn't matter how good NT 5.0 was, it would be heavily criticised anyway. By stripping out non-essential features Microsoft can release the product, take the inevitable flak, fix a few

bugs in Service Pack 1 and release version 5.1 after everyone had got the initial Microsoft-bashing out of the way, and also about the time when the Euro and Year 2000 projects are coming to a close, too. Smart move.

## Help for the mobile user is a persistent theme throughout NT



**FIGS 3 & 4**  
**ACTIVE DIRECTORY DOES NOT ONLY KEEP TRACK OF USERS, IT WILL ADMINISTER YOUR CLIENTS, PRINTERS AND OTHER PERIPHERALS, TOO**

### PCW CONTACTS

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# Across the great divide

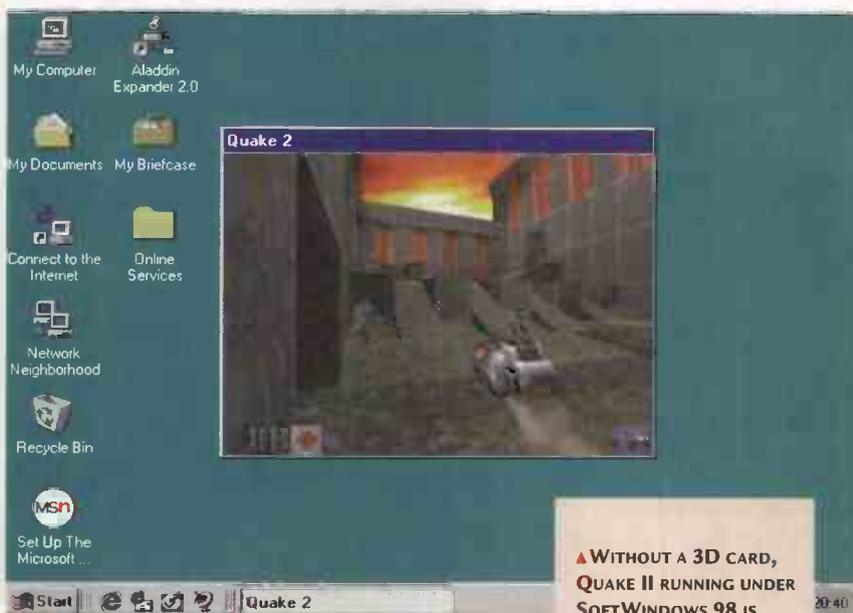
**The Mac and the PC — two completely different worlds? Not so, says Cliff Joseph, who has tried out some PC emulation software, with rather surprising results.**

**R**egular readers will have noticed that the *Hands On Mac* column is an oasis of sanity, resting serenely in the midst of a lot of, frankly, unpalatable Windows PC stuff. The trouble is, of course, that Windows is pretty hard to ignore: there are times when even the most die-hard Mac user needs to be compatible with the PC world. Macs can read PC disks, and most major Mac and PC applications share a number of cross-platform file formats that allow you to easily exchange files with PC users. However, there are times when you may need to run software that simply isn't available on a Mac.

## Mind the gap

The Mac has always been short of certain types of software. Games software is probably the most obvious example, but there are many business applications that have never been available on the Mac. FileMaker is one of the few cross-platform databases available for both Mac and PC, and there's not much in the way of accounting software either. And, if your organisation has some sort of legacy DOS software that is still being used, you can bet that nobody is going to volunteer to rewrite it just for the Mac. But at long last, PC emulation on the Mac is becoming a truly practical proposition. And, just as we were preparing to go to press, SoftWindows 98 landed on my desk, so a quick review of the Mac/Windows compatibility story seemed like a good idea for this issue.

**The first PC emulator** for the Mac was Insignia's SoftWindows. That was joined a couple of years ago by VirtualPC from Connectix. There are minor differences, but these two programs work in essentially the same way, using software to emulate the workings of specific PC hardware



components. VirtualPC 2.0 emulates almost an entire PC system. It provides (in software) a Pentium processor with the complete MMX instruction set. It also emulates a complete motherboard, including an Intel Triton logic chip, an S3 Trio graphics processor and a Creative Labs SoundBlaster Pro sound card. These are all standard PC components, ensuring maximum compatibility with games and other types of software. SoftWindows provides the same basic features, with one or two differences such as better networking options. On top of all this virtual hardware you can then load DOS and/or Windows, depending on your requirements.

## *There are times when even the most die-hard Mac user needs to be compatible with the PC world*

VirtualPC will even allow you to install OS/2. Once installed, both programs allow you to use your Mac peripherals within the PC environment. And because the virtual PC inside your Mac is treated as just another software application, you can have Mac and PC programs running alongside each other and copy and paste information between them.

The biggest issue with software emulators has always been speed. In the past, these programs simply ran too slow to be of practical use. However, things have changed greatly since Apple adopted Motorola's G3 processor across its entire product range. The performance of the G3 allows you to run these PC emulators at pretty impressive speeds. Connectix and Insignia will quote all sorts of benchmark figures to prove that their product is faster than its rival, but there's no doubt that both of these emulators are really quite amazing pieces of software. It's hard to directly compare the performance of an emulated PC with that of a real system, but I'd say that a G3 Mac can provide emulated performance on a par with a Pentium running at 100 to 150MHz. That's not going to break records, but it's enough to handle a wide range of PC business applications at acceptable speeds.

**In addition to** having a fast processor, the emulation performance will also benefit from having plenty of RAM. You'll need around 16Mb for the MacOS, plus about 8Mb for the emulation software itself. Then add



however much RAM you want your virtual PC to have. So, if you want to emulate a PC with 32Mb RAM, you'll need at least 56Mb RAM on your Mac. Your virtual PC will also need some hard-disk space so be prepared to free up at least 300Mb of that, too.

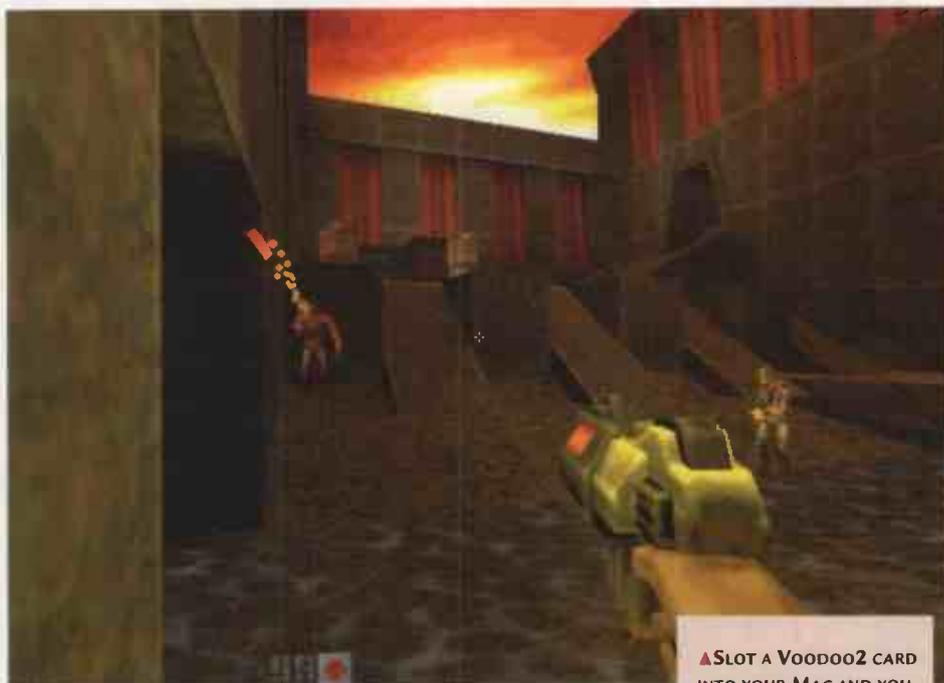
**The crunch, though,** comes when you try to run PC games under emulation. One interesting feature of SoftWindows and Virtual PC is that they allow you to use 3D accelerators based on the 3Dfx Voodoo chips. SoftWindows 98 supports both Voodoo and Voodoo2 cards, while Virtual PC currently only supports the original Voodoo. Installing one of these cards into your Mac takes a lot of the strain off the emulated Pentium processor and provides big increases in performance.

To test this feature I installed a Creative Labs 3D Blaster Voodoo2 card into a 300MHz G3 Mac, with 64Mb RAM allocated to SoftWindows 98.

The Voodoo2 card is designed specifically for PCs but Macs use the same PCI slots as PCs, so there's no physical reason why you can't install it

### *For business or home users, emulation is a worthwhile option*

into a Mac. There's no Mac driver currently available for this particular card so it won't work with Mac games. But when you launch the emulator, Windows will automatically detect the card and prompt you to install the supplied Windows drivers. The results vary a lot



▲ SLOT A VOODOO2 CARD INTO YOUR MAC AND YOU GET *QUAKE II* IN ALL ITS FULL-SCREEN, HIGH-RES GLORY

from game to game. I couldn't get Tomb Raider installed properly, although that seemed to be the result of a problem with the game's DOS setup utility rather than SoftWindows itself. The air-strike game, Incoming, ran rather poorly, but remarkably, Quake II ran at very acceptable speeds – something I really wasn't expecting. The unpredictable performance of these games means that SoftWindows and Virtual PC cannot be recommended to serious gamers just yet, although their performance is still pretty impressive. But let's face it, dedicated games fans are going to buy PCs anyway. For business or home users who occasionally need to run PC business software, emulation really is a worthwhile option.

### An alternative to emulation

There is another alternative if PC emulation software is too slow for you. OrangeMicro makes a range of add-on cards which manage to cram most of an entire PC system on to a single PCI card. The latest, the OrangePC 620, is equipped with a 200MHz Pentium processor that can be further upgraded to 300MHz with an AMD K6. It has 16Mb of onboard RAM and 4Mb VRAM.

The OrangePC card provides better performance than software emulators can currently offer, and it

cleverly allows you to switch between Mac and PC modes using a simple keyboard shortcut. The only problem with the OrangePC is that it doesn't work with 3D accelerators.

OrangeMicro is about to release a new card that has a 3D accelerator built in to it and which is aimed specifically at the games market. However, it would still be better if you could use third-party cards in conjunction with those from OrangePC as this would provide additional upgrade options in the future.

### PCW CONTACTS

Cliff Joseph can be contacted via the PCW editorial office (address, page 10) or email [mac@pcw.co.uk](mailto:mac@pcw.co.uk)

SoftWindows 98 £110 (ex VAT) from Insignia Solutions 0800 667706 [www.insignia.com](http://www.insignia.com)

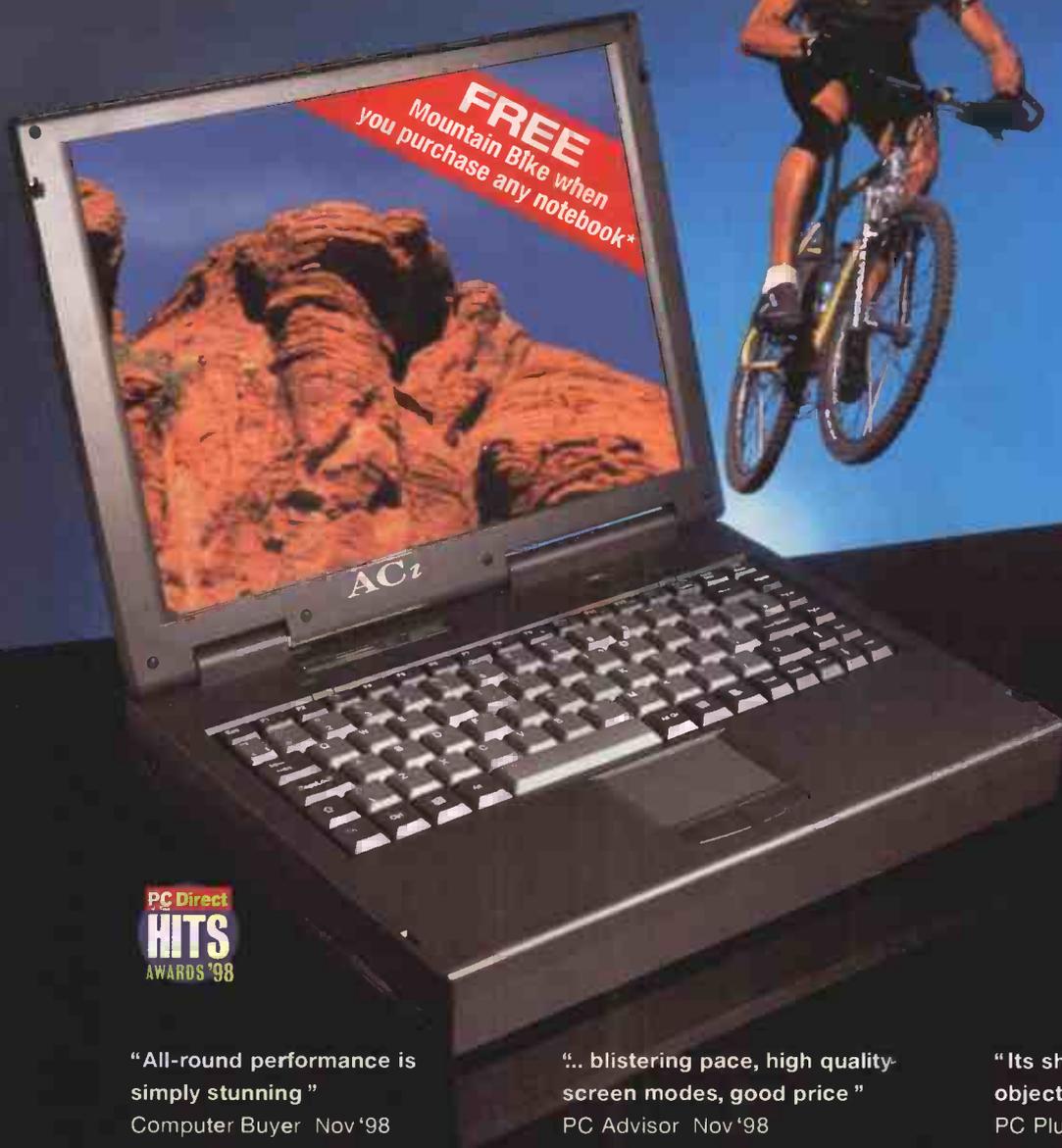
Virtual PC 2.0 £99 (ex VAT) Win 95, £119.99 (ex VAT) Win 98 from Connectix 0181 200 8282 [www.connectix.com](http://www.connectix.com)

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E & OE



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**Reader offer price** £6.75

**Subscriber price** £5.99

**ORDER REF. PCWO7**



## Inside Relational Databases

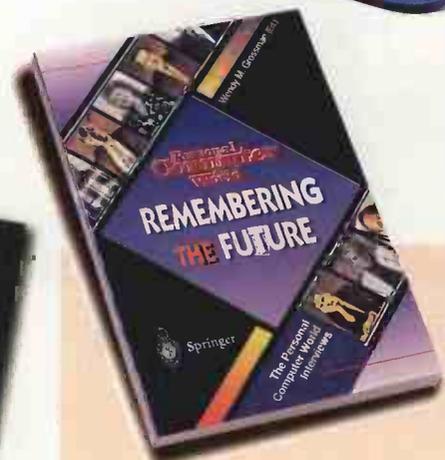
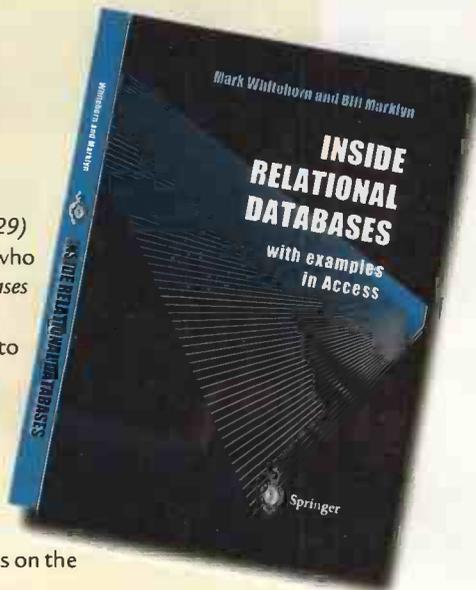
(reviewed in PCW November 97, p329)

- Written by Mark Whitehorn, who writes PCW's Hands On Databases column.
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# leisure lines

Christmas draws close and in *Leisure Lines* this month we have a superb selection of software, any of which would make a great Christmas gift. In *Screenplay* we review a selection of games which were launched at the recent ECTS show in London.

There are two expansion packs, *Age of Empires — The Rise of Rome*, and **QUAKE II — GROUND ZERO**.

We fly Microsoft's new *Combat Flight Simulator*, and puzzle over a strange game called *Reah*. We try to beat the *Lie Detector* and fight *ennui* with the perfect boredom reliever, *Lose Your Marbles*. Study the stars with the *Starry Nights Deluxe* astronomy package featured in our *CD-ROM* section, and there's a world of information at your fingertips in Microsoft's **ENCARTA DELUXE 1999 EDITION**. If those fingertips happen to be green, then take a look at



▲ ADI ENGLISH AND MATHS



▲ [ABOVE, TOP] GARDENER'S WORLD; [ABOVE] MAGIX MUSIC MAKER V2000

*Gardener's World*, and *Music Maker V2000* really does sound good. In *Kids* we have the fabulous **TELETUBBIES** CD, a big Christmas hit with kids of all ages, and we get back on the educational track with *Adi English and Maths*. Bill Gates dominates our *Books* section. There's a profile of him in *Bill Gates Speaks* and an insight into the way he works in **THE MICROSOFT FILE: THE SECRET CASE AGAINST BILL GATES**.

We also feature a hefty in-depth guide to upgrading and repairing PCs. In our *Competition*, **FILEMAKER** is giving away £3,000-worth of software. You also have a chance to win the new Chambers dictionary if you complete our *Prize Crossword*, and *Brainteasers* will give you something to think about. And last but not never least, *Retro* recalls the taste of the Apricot F1.

ETELKA CLARK, LEISURE LINES EDITOR  
ETELKAC@VNU.CO.UK

# Age of Empires: The Rise of Rome

Start a civilisation and build an empire. This popular game of **social engineering** gets even better.



**Age of Empires** came out towards the end of 1997 and impressed strategy fans with its neat blend of civilised social engineering and bloodthirsty battle planning. It has quickly become one of Microsoft's notable successes.



◀ **FIGHT A CAMPAIGN TO FURTHER YOUR CHANCES OF WORLD DOMINATION**

For those new to the game, Age of Empires is a beautifully detailed and animated chance to start a civilisation from the ground up, beginning in some cases with a single primitive male and ending, several days of conquest and pillage later, in your total domination of the known world. The price tag is rather misleading: Microsoft will actually reimburse you to the tune of £10 when you buy the expansion pack, making the net cost a mere £15. For your money you get another four civilisations to add to the existing list of 12, and a range of new units to research and create,

including my personal favourite, the armoured elephant.

There are new landscapes, too, in case you were getting sick of the old ones, and the game-playing map has been made even larger. Best of all, there are 19 new scenarios which you must build, farm and fight your way through, culminating in four large-scale campaigns.

**The Rise of Rome** is a good way of reinvigorating this one-year-old game, ironing out problems and making sure that we stay interested while Microsoft toils away on the big one that we're all really waiting for: Age of Empires II.

PAUL TRUEMAN

## PCW DETAILS



Price £24.99

Contact Microsoft 0345 002000

[www.microsoft.com](http://www.microsoft.com)

**System Requirements** Windows 95/98 or NT, P90 processor, 16Mb RAM, 24Mb for NT, double-speed CD-ROM.

## Reah

A hostile **planet of puzzles** awaits in a foreign dimension.

If you thought your gran's house was the only place known to man where modern technology will not work, then you have not yet come across Reah. It is a distant, hostile planet harbouring a portal into another dimension where technical gadgets are rendered useless. As a journalist, you pass through this portal willing to risk your safety in exchange for being a pioneering explorer of this strange sister planet. You realise your mistake only when it is too late; the portal disappears and you are left stranded.

**Control is wholly** mouse-driven, making navigation easy and movement smooth but limited. Although you can turn through 360° it is not possible to walk to all points in a scene, only specific areas. Nevertheless, the quality of this game is stunning and features some of the most clearly-rendered scenes we have seen on the PC. Full-



◀ **JOURNALIST JOURNEYS INTO JEOPARDY TO SOLVE PERPLEXING PUZZLES**

motion video allows you to interact with characters as you rack your brains to solve the devilish puzzles this strange world presents. These are not your run-of-the-mill "find key, open door" tasks. Just working out where or what each puzzle is in this immense world can be a mammoth task which soon gets tedious. Those with a DVD drive will be glad to hear that they can put it to good use here because a DVD release follows the six-disc CD-ROM edition.

NIK RAWLINSON

## PCW DETAILS



Price £39.99

Contact Anglia Multimedia  
0500 600191

[www.blackfriar.net](http://www.blackfriar.net)

**System Requirements** Pentium 90MHz processor, 16Mb RAM, quad-speed CD-ROM, 1Mb SVGA graphics card, Windows 95 DirectX driver, Windows 95-compatible sound card (32Mb recommended).

# Combat Flight Simulator

At last! Microsoft **adds armoury** so you can re-fight the battle for the skies in true WWII style.

**Combat Flight Simulator** is probably Microsoft's biggest game release of the year. After years of unofficial weapon add-ons to spice-up existing peaceful versions of Flight Simulator, fans of the aerial genre everywhere will be getting excited about the chance to let rip in combat — this time with Bill Gates' official approval.

If you are running the game on a PC with a top-notch processor and graphics card, you can afford to switch on all the graphics refinements at your disposal. If there is a criticism to be made of the "look" of this

▶ OUCH! ALGY GETS BLOWN TO BITS BY THE BOSCH



simulator, it is that, even with most of the effects switched on, when diving it is easy to lose one's sense of height *vis-à-vis* the landscape because the ground does not seem to come into focus as it would in real life. The aeroplanes respond well and it is up to you whether you fly throughout a whole campaign, spanning the war, or simply "duke it out" in quick-combat mode.

Our review copy of the game was a Beta version, and although our manual had been photocopied, the 200-page tome still weighed in on the hefty side. This is a sentence never previously written (at least, not by this reviewer) but... the manual accompanying the game is fascinating. Packed full of every conceivable fact about the games' WWII setting, you can learn about the basic physics of flying, the major battles and the flying aces on both sides of the war.

PAUL TRUEMAN

## PCW DETAILS



Price Price £49.99

Contact Microsoft 0345 002000

[www.microsoft.com](http://www.microsoft.com)

**System Requirements** Pentium 133MHz processor, Windows 95/98 or NT4.0 operating system, 16Mb of RAM, 200Mb free hard-disk space, quad-speed CD-ROM drive.

# Quake II — Ground Zero

You know the mission but now you are faced with **more levels**, and an anti-matter bomb to use.

Milking the **Quake II** cash cow once more before Christmas is Ground Zero, yet another add-on pack to the original game. Again it's your noble duty to rescue a group of fellow marines being held captive in space. Armageddon is near and soon you will see searing lasers, severed limbs and pounding action.

The mission pack has 14 new levels but there is little variety to the gameplay and most of the weapons and enemies are the same as in the original game, except for the odd new one like the vicious spidery creature and an anti-matter bomb. However, the enemies are more intelligent. They dodge quicker, chase

you around many more corners and fire while running. The graphics are also

equally popular game, Unreal. In fact, the whole mission pack has little variety. Most of it gives the impression of being set in a huge warehouse with stacks of crates piled everywhere. The pervasive, dirty-brown textures and lack of multi-coloured lighting also make the pack look flat at times. However, as add-on packs go, Quake II's Ground Zero is a passable addition.

AJITH RAM



◀ A DEATH WORSE THAN FATE AWAITS THE UNWARY. YOUR ENEMIES ARE MORE INTELLIGENT THAN THEY WERE IN THE ORIGINAL GAME

very similar to the original and require a 3D accelerator to run at their best. Unfortunately, this means they are not as stunning as those in the

## PCW DETAILS



Price Price £24.99

Contact Activision 01895 456748

[www.activision.com](http://www.activision.com)

**System Requirements** Windows 95/98, Pentium 166MHz processor (200MHz or above recommended), 32Mb RAM, quad-speed CD-ROM, SVGA video card (3D accelerator recommended), mouse, Windows-compatible sound card.

# Lie Detector

**I don't believe it!** Just let sleeping dogs and this CD lie.

I would be lying if I said this game was worth buying. But how will you know whether or not I'm telling the truth? Well, you won't, especially if you test me using the Lie Detector.

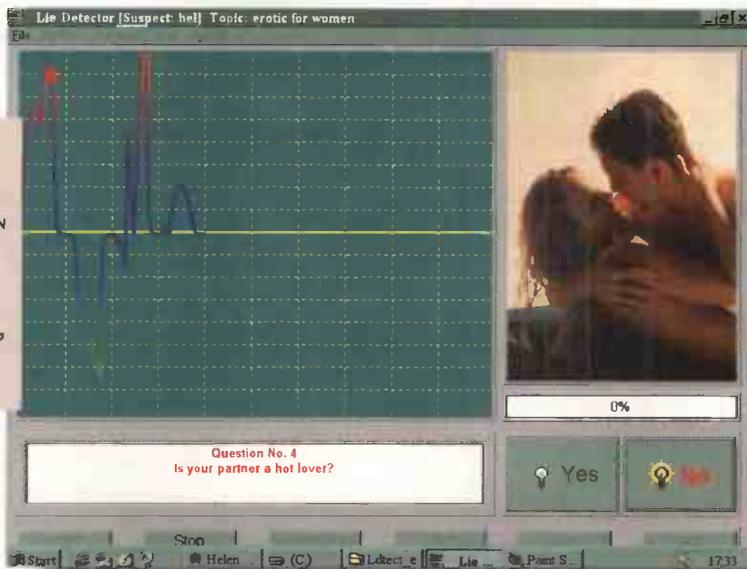
This CD is not meant to be taken seriously, but it could be quite a laugh if you're testing your friends or work colleagues on embarrassing topics. The choices include Job and Career, Sex for men or women, and Life and Conscience. Alternatively, you can compose your own questions. But it would help if the program actually worked. Generally, when I told it the truth, it would "detect" that I was lying; yet when I told it an outright lie, it would "detect" that I was telling the truth. Occasionally it got it right, but mostly I beat it. The sensor pad, which is worn on the finger, can be set to register different levels of sensitivity. I tried re-programming it — not that I'm

► IS SHE A BARE-FACED LIAR? AN 'UNTRUTH' IS SHOWN ABOVE THE YELLOW LINE WHILE A 'TRUTH' IS SHOWN BELOW. OH, HELEN, WHAT A WHOPPER!

thick-skinned — but still it didn't understand me. It just made the graph look prettier.

The novelty value of this production wore off after the first question. It's just hugely boring, waiting for your response to be registered. And, if you laugh or someone gives you a pat on the back, the sensor picks it up and you'll be likely to get a false reading. Still, at least you'll be safe knowing that the truth won't hurt — trust me!

HELEN FORTGANG



## PCW DETAILS



Price £19.99

Contact Black Friar 0500 600191  
[www.blackfriar.net](http://www.blackfriar.net)

### System Requirements

486 PC or above, 4Mb RAM, 256-colour display, Windows 3.1 or Windows 95/98, double-speed CD-ROM, 40Mb free hard-disk space, sound card (optional), 9-pin serial port, mouse.

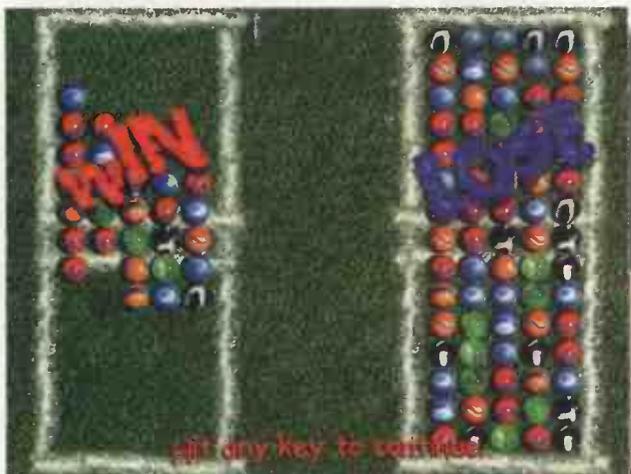
# Lose Your Marbles

It's marvellous how easy it is to get hooked on this. Let 'em roll!

This game first made an appearance in the Plus! 98 pack for Windows 98 and I quickly became a fan. Hours flew by and bedtime passed unnoticed as I stared transfixed at marbles clicking and popping on the screen. I knew it was only a transference of my age-old Tetris

obsession, but I didn't care. I was hooked. Rocket science it's not — you simply line up three, four, or five marbles of the same colour on the pitch line and they disappear. Marbles can be moved up and down or along the pitch to help you get them into line. All the while,

however, marbles continue to fall onto the ends of the stacks, filling them up. If an entire stack becomes paralysed, the game finishes.



◀ DON'T LET THE STACK FILL UP OR YOU'LL LOSE YOUR MARBLES

And that's it. Apart from a few special marbles, the game stays much the same no matter what level you reach. Sure, you get some different backgrounds and bonus rounds, but it's not quite difficult enough to want to stick with it forever — unlike its forefather, Tetris. Also, there is no high-score facility and each time you quit, you have to start all over again at the beginning, which is extremely tedious.

A further caveat is that the system requirements state that Marbles will run on a P60. And so it might. But trust me, don't do it. I found it infuriatingly sluggish on anything lower than a 133MHz.

SUSAN PEDERSON

## PCW DETAILS



Price £19.99

Contact Roderick Manhattan Group  
0181 875 4441  
[www.segasoft.com](http://www.segasoft.com)

System Requirements P60 or better, Windows 95, 1Mb SVGA, 8Mb RAM.

# Starry Night Deluxe

View the **night sky**, in all its celestial glory.

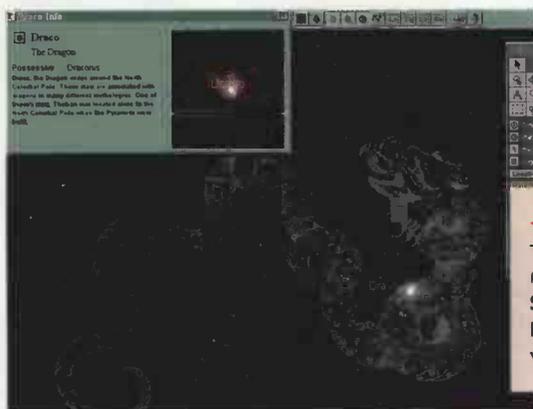
A program for those with stars in their eyes, *Starry Night Deluxe* threatens to consign Patrick Moore to the dole queue. This software makes it easy for a beginner to explore the night sky, while providing enough depth for the more serious gazer.

With a view of the sky from anywhere in the solar system, be it your house or

Oberon, you can observe the classic illustrations that mark constellations, follow the paths and orbits of planets and comets, and even map out your own star charts. You can time travel from 4713 BC through to 9999 AD, and although the sky doesn't look dramatically different, it's interesting to imagine that this is what you would have seen, or will see, at a particular moment

in time. You can open multiple windows to view one event from different places simultaneously, or set the stars so that you can see what is visible out

of your window, be it in the city or the country. You can make videos of



◀ **THERE'S MORE TO THE SKY THAN MEETS THE EYE, AS STARRY NIGHT DELUXE SHOWS YOU**

galactic events and edit your own sequences. The tools perform in the same way as your word processor or graphics package, making it nice and easy to work with, and there is a direct link to the LiveSky internet site which provides up-to-the-minute information.

**Starry Night Deluxe** is a realistic desktop planetarium that will provide the best star-gazing ambience there is, through a monitor screen.

HELEN FORTGANG

## PCW DETAILS



Price \$89.95

Contact 001 41 6 410 0259

[www.sienasoft.com](http://www.sienasoft.com)

**System Requirements PC:** Pentium processor or higher, 256-colour capable, CD-ROM drive, Windows 95/98, NT 4.0 or later, 8Mb RAM, 15-60Mb free hard-disk space. **Mac:** 68040, PowerPC or better, 256-colour capable, CD-ROM drive, System 7.0 or later, 8Mb of RAM, 10-40Mb free hard-disk space.

# Gardener's World

A **handy companion** for the green-fingered.

**Gardener's World**, hosted, as you might expect, by jovial Alan Titchmarsh, provides a plant encyclopaedia and advice on dealing with pests and problems. It also lets you create a garden diary.

When you first use the CD, you will be asked for your name. Up to ten users can use the program and each user has their own password — overkill perhaps on a gardening CD. Each time you log on, the disk will open at the diary section and give you a tip of the day or a plant of the day. There is also the chance to add your own notes on what you have been doing in the garden, creating a year-by-year diary. You can also compile an inventory of the plants and shrubs in your garden.

There are sections giving advice on what you should be doing in the garden at certain times of the year, and suggestions for special projects such as



▲ **AVOID THOSE HORTICULTURAL HORRORS WITH ALAN TITCHMARSH AND HIS TEAM**

pruning roses or building a pond, as well as general problem-solving. Most of the

advice is fairly standard stuff — nothing most gardeners won't already know. Probably the most useful section is the Plant Finder which lets you search the huge plant database, selecting plants according to when they look their best, the kind of soil they thrive in and how



much sun they need. Navigating around **Gardener's World** is much quicker than using a gardening encyclopaedia, but otherwise this CD provides little you couldn't get from the Royal Horticultural Society encyclopaedias.

ADELE DYER

## PCW DETAILS



Price £29.99

Contact BBC Multimedia  
0181 576 2945

**System Requirements** Pentium, 16Mb RAM, Windows 95.

# Encarta 99

A well produced and beautifully presented reference and learning package.

Encarta's elegant interface makes it one of the most inviting CD-ROM reference works, and the incorporation of Shockwave compact animation makes it feel more like you are directing a small television documentary. The information in the 11 million words that go to make up the package's 32,000 articles is comprehensive and well written, and searching on various keywords turned up very few occasions when a match was not available.

The only slight inaccuracy I could find after several hours of use was an aerial photo of London's Docklands incorrectly captioned as the city's financial district. We were surprised, as this is not an American production adapted for a UK audience — it is commissioned and edited in London. Over 13,000 illustrations, 140 videos and 2,300 audio clips provide the user with added value and make this much more than merely a book in binary

format. Subtitles allow the aurally impaired to enjoy the media clips and the suite incorporates the Concise Oxford Dictionary. An extensive index will aid searching, getting you where you want to be fast, while the bundled research organiser is a good learning aid for students. Fascinating 360° panoramas allow you to stand in locations as diverse as the Space Shuttle and Piccadilly Circus and perform a Wonder-Woman-esque spin to view your surroundings. In short, a highly recommended package.

NIK RAWLINSON

▶ A WORLD OF INFORMATION AT YOUR FINGERTIPS INCLUDES LOCATIONS CLOSER TO HOME



## PCW DETAILS



Price Encarta Standard £49.99, Deluxe £79.99, Reference Suite £99.99, World Atlas £49.99

Contact Microsoft 0345 002000

[www.encycarta.com](http://www.encycarta.com)

System Requirements 486DX/50 or higher, Windows 95/98, NT4 or later, 8Mb RAM for Win95 (16Mb for Win98 and NT4), 30Mb free hard-disk space. Double-speed CD-ROM or faster, SuperVGA 256-colour display at 640 x 480 or higher, 5Mb additional hard-disk space to use Encarta Research Organiser.

# Magix Music Maker V2000

It's only **rock 'n' roll** — and a lot more besides — and we like it.

Lately, there seems to have been a huge boom in music-making software — to the extent that it's no longer new or groundbreaking. That is, until you try Music Maker V2000 from Magix, which seems to be the only production that has truly got to grips with the concept of desktop sampling.

Rather than relying on gimmicks to boost sales, this program takes things a little more seriously. It manages to support up to 16 tracks (32 in the Deluxe version) and offers high performance, all without you needing a degree in sound engineering.

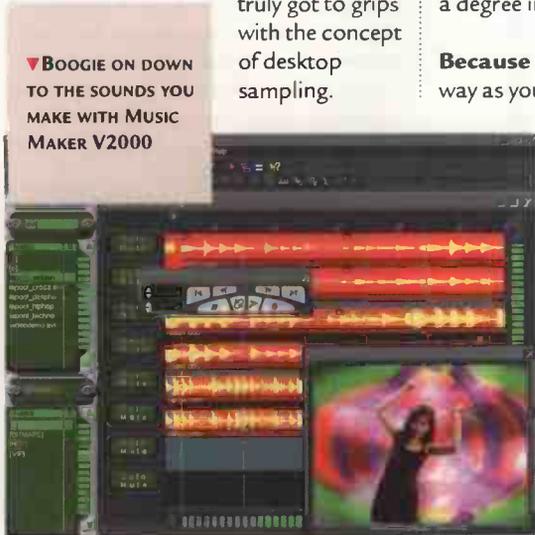
Because the tools perform in the same way as your word processor, it's very easy to manipulate and edit your sounds and sequences. Everything you do is clear on-screen, whether you're using the mixer, viewing video sequences or simply dragging your samples to each track.

The real beauty of this CD is the sounds that it produces. There are no tailored and stereotypical samples that so many programs of this type tend

to employ. This production uses "real" sounds that are flexible: you can manipulate them to sound just the way you want them to.

For a little extra money you can obtain Magix Soundpool, which allows you to access quality sounds in the style of music that you wish to sample. It's all royalty-free and covers a wide range of musical styles, from R'n'B and HipHop to Techno and Industrial Rock.

HELEN FORTGANG



▼ BOOGIE ON DOWN TO THE SOUNDS YOU MAKE WITH MUSIC MAKER V2000

## PCW DETAILS



Price £39.99 (Standard), £79.99 (Deluxe)

Contact Magix Entertainment 0171 917 2897 [www.magix.net](http://www.magix.net)

System Requirements Windows NT/95/98, Pentium PC or higher, 30Mb free hard-disk space, 16 Mb RAM, VGA card, 16-bit sound card, CD-ROM drive, mouse or compatible keyboard.

# Play with the Teletubbies

Fun with **Tinky Winky, Dipsy, Laa-Laa and Po**. What child — or grown-up — could resist?

We have all, at some point, encountered the Teletubbies. They are on the TV in the early mornings, they were in the music charts, and now they are on this delightful CD-ROM. There is no getting away from it — kids love these strange, colourful creatures, and they will certainly like this new CD. The interface is very similar to that of the television programme, with brightly coloured scenes including the Tubbytronic Superdome and those lush green hills that the Teletubbies are so famous for playing on.

The CD-ROM contains seven activities in which the child can either watch or take part in. You can chase Noo-noo around the Tubbytronic Superdome, help the Teletubbies make a mess with tubby custard, play hide-and-seek or make tubby toast. Each one repeats itself again and again until the child wants to move on. As this program is aimed at children between the age of

▶ **LIFE IN LAA-LAA LAND: HAVE FUN WITH THE TELETUBBIES AND THEIR FRIEND, NOO-NOO**

two and four years, a special cursor in the form of a pink sparkle helps to control the mouse. Instead of having to point and click, the child can simply wave the cursor over the animation. This CD is the result of extensive testing with children. Varying levels of interaction cater to the range of abilities among young children, allowing them to progress at their own pace. With plenty of giggling and rhymes to repeat, this enchanting CD will delight children of all ages and is guaranteed to be a big hit.



ETELKA CLARK

## PCW DETAILS

★★★★★

**Price** £24.99

**Contact** BBC Multimedia Section  
0181 576 3592

[www.bbc.co.uk/education/teletubbies/](http://www.bbc.co.uk/education/teletubbies/)

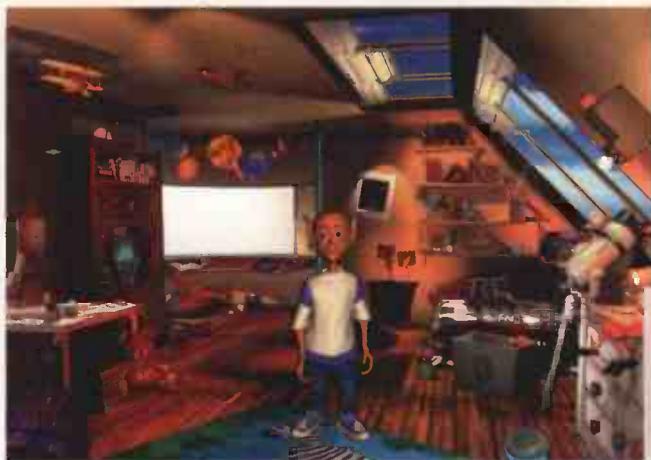
**System Requirements** Windows 95 or later, Pentium P100 processor with 16Mb RAM, quad-speed CD-ROM drive.

# Adi – English & Maths

Learning that's **out of this world** — and that's just the teacher!

Many children may think their teacher is an alien. Now they can be sure. Adi beams down as an intelligent alien friend, here to guide the pupil through this educational program, teaching, correcting, rewarding and advising. After choosing a face to represent themselves

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◀ **WHAT A COOL-LOOKING ATTIC! THERE'S PLENTY TO SEE AND DO UP HERE WITH ADI**

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HELEN FORTGANG

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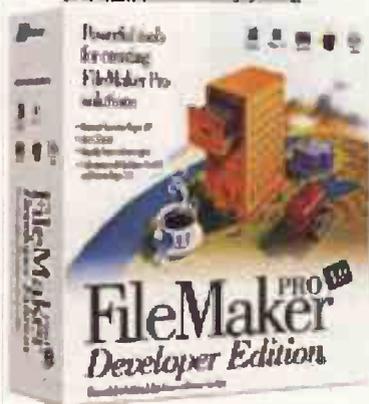
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# Apricot crumble

Simon Collin on why the rather eccentric Apricot F1 was crushed by the opposition.

In the dark and distant days when manufacturers jostled for supremacy and standards in the PC market, one of the odder range of computers was the Apricot series from ACT. The first in the line was the stately Sirius (like the DEC Rainbow, covered a few issues ago, non-IBM PC compatible); this was followed by perhaps the most stylish of all PCs, the Apricot PC. Unimaginative name, great design.

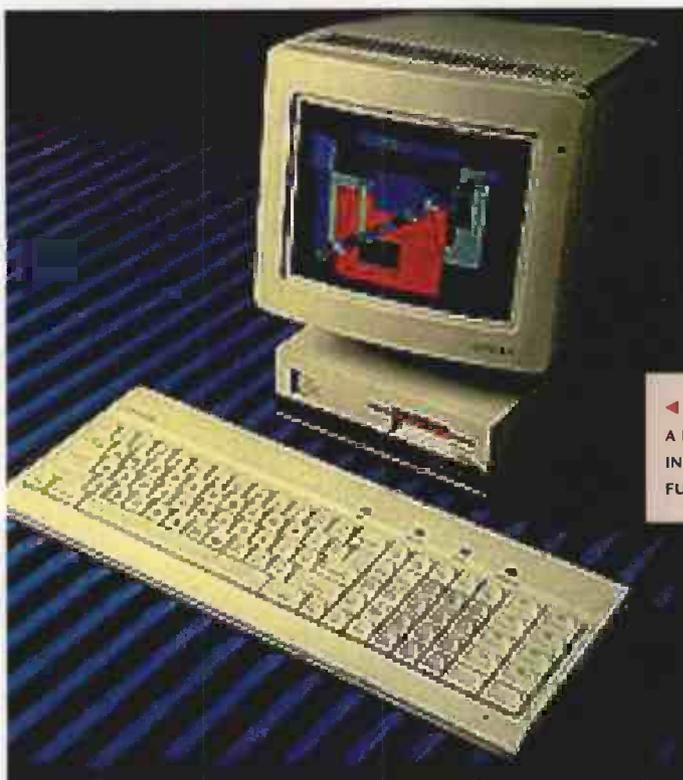
The Apricot PC was sleek, slim and had a fold-down lid in case the ugliness of the disk drives offended you too much. However, enthusiasts got most excited about the keyboard: this had a little set of six membrane function keys with a programmable LCD text panel above each one, so that software applications could create their own key labels on the LCD display. It was great, until the fragile ribbon cable inside the unit cracked — and they all did.

**Moving swiftly on**, we arrive at the Apricot F1, my favourite oddity. Compared to the elegant streamlined case design of the PC, someone at Apricot towers took the exact opposite approach for the F1. The idea was that the case was the same width as the monitor. Why? It stuck out twice as deep and looked like a great plastic brick.

The questionable styling aside, Apricot managed to sneak in another cute keyboard feature. Rather like Maserati's sports car's oval clock of the time (it appeared in every model) the Apricot crowd-pleaser was the latest gizmo built in to its keyboard. With the new F1, Apricot decided that cables were out and ensured that the keyboard was linked

to the base brick via an infra-red lightbeam. Nowadays, every PDA and printer has an IrDA link, but at the time it was still quite something. The problem was, you had to be in direct line of sight or it didn't work. If you wanted to move the keyboard, Apricot supplied a string of fibre-optic cable. This was fragile, not very bendy and took up more space than a simple cable. Quoting from the user

*The idea was that the case was the same width as the monitor. Why?*



◀ THE APRICOT F1: A PRIME EXAMPLE OF INNOVATION OVER FUNCTIONALITY

manual wraps up the subject of keyboards with a rather silly warning, and firmly positions the F1 as a SoHo fun tool: "You can even work at home with the F1 on the coffee table and the keyboard on your lap...the link will usually work quite happily at distances of up to two meters from the computer, although of course you might find it difficult to see the information on the screen at that distance."

Your shiny new F1 was fitted as standard with 256Kb of RAM, but this could be easily expanded to 786Kb with just a few extra memory cards. A strange device called an MSD (mass storage device) was optional. Apricot was careful never to write "hard disk" in its manuals, preferring this wonderfully old-fashioned acronym instead. The F1 with a hard disk was actually badged the F10, but this was otherwise the same machine.

A disappointment was the visual display on the F1 — a real let-down after the fantastic high-resolution PC

monitor. F1 users had a choice of mono or colour CGA display, and my display always wiggled and hissed to itself in a distracting manner.

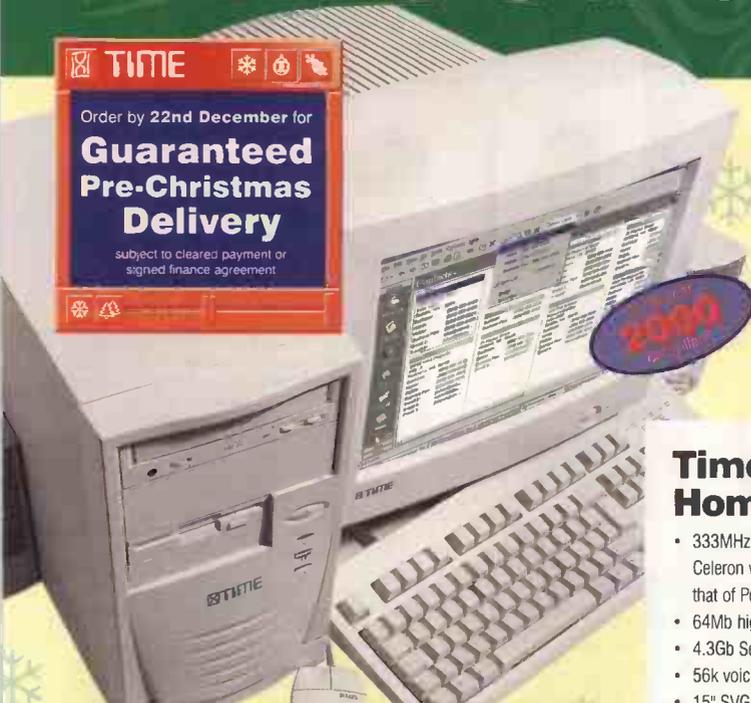
Lastly, a modem card could be fitted to access all the latest news from the Prestel online service. The F1 ran a custom version of DOS that was IBM PC compatible up to a point. Some standard software would run, much would not; this was mostly due to the non-standard screen display. Diskettes from an IBM machine could normally be read on an Apricot, although the same was not generally true in reverse. I remember spending hours rigging up a serial link between an F1 and an IBM PC to send files one way, and using the disk to send them back the other.

**Finally, Apricot dropped** the range, continued on as an independent UK manufacturer and then was bought by Mitsubishi. It has since developed normally sleek and stylish power servers and PCs. Look carefully, and you might still see either a flap to hide the disk drives or a gizmo on the keyboard — a reminder of past glories.

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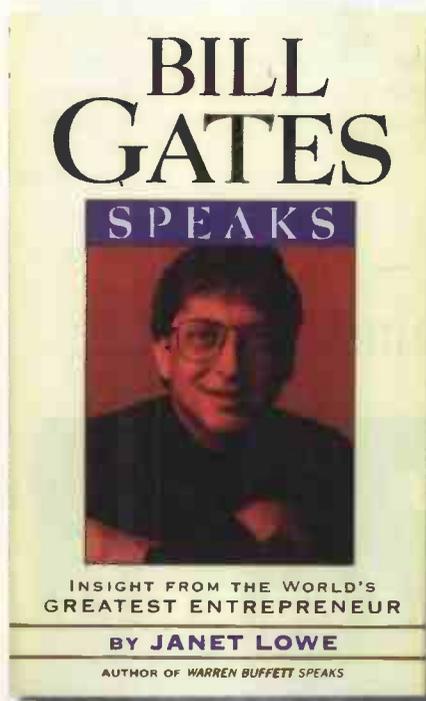


## Bill Gates Speaks

Whatever you might think about Bill Gates, he's an interesting character. Hidden behind that geeky exterior is a sharp business mind which is now pitting its wits against none other than the US government. Why, then, does Janet Lowe's quasi-profile of the great man leave me stone cold?

Perhaps part of the reason is the format of the book. Lowe's internet research skills are undeniably superb. She has obviously culled information from umpteen web pages and printed material, for quotes both by and about Gates and his achievements. Nevertheless, she doesn't so much fuse them together as merely juxtapose them like so much junk at a car boot sale. Lowe is more collator than author and makes little attempt to add her own comments to the soundbites that she

so proudly displays. One example is her collation of "God versus Gates" jokes; a tired collection of web witticisms



about encounters between the Almighty and the geek that inherited the earth. But some of the most frightening commentary in the book comes from Gates himself — didn't this guy ever hire a PR representative? When once faced with

a baby, he reportedly pointed at it and stated, "That scares me". And, when asked what were his personal goals for the next ten years, he fumbled "I'm sure it's in [my PC] somewhere. I just have to download it... You know, in my personal life, I don't set big goals."

According to the dustjacket blurb, Lowe places "the public statements of a major world figure under her microscope to build a fascinating picture of what he has said and what has been said about him." I'd argue that a few

days spent trawling the web would give you everything you needed to know, minus the inane patter that Lowe uses as an excuse to rake in her publisher's advance. Read Robert Cringely's *Accidental Empires* and you'll see what proper research looks like when mixed with a healthy dose of industry experience. Give this one a wide berth.

SUSAN PEDERSON

*Trawling the web would give you everything you needed to know*

### PCW DETAILS

★★

**BILL GATES SPEAKS**  
Author Janet Lowe  
Publisher John Wiley & Sons  
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## Upgrading and Repairing PCs

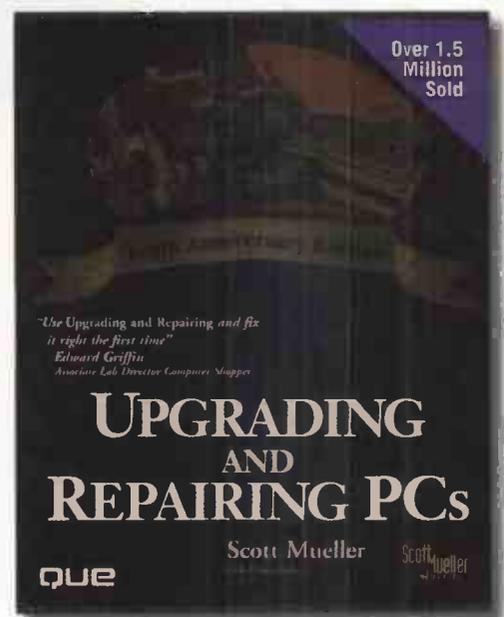
I remember, way back at school, there was a mystical cupboard at the end of the computer room holding "The Winchester". Nobody could quite explain what it was. All we knew was that it ran the network and had a "massive" 30Mb storage capacity. Finally, I have the answer: Winchester is, in fact, a nickname given to a series of 30Mb hard drives made by IBM. Why "Winchester"? Nothing to do with where it was made, but instead named after a .30mm rifle.

This, and countless other nuggets of useful and interesting information, can be found in the 1,584 hard-bound pages

that go to make up the tenth anniversary edition of Scott Mueller's classic text, *Upgrading and Repairing PCs*.

*A refreshing breather from some of the more hardcore technical manuals available*

The work was originally written as course notes for his \$1,300 seminars about the internal workings of a PC. With this edition, the second of two bundled CD-ROMs includes videos of his presentations and seminar documentation on no less than 3,600 drives and hundreds of other pieces of hardware. Mueller's writing style is a



### PCW DETAILS

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refreshing breather from some of the more hardcore technical manuals you are often likely to find, but it could also explain how he managed to write so many words; in certain places the "padding" is obvious. Experienced PC users may find it tiresome ploughing through this waffle, but should ultimately find the necessary reading a rewarding experience when

they come across the comprehensively-explained facts.

**The appendices comprise** invaluable technical reference tables, but also demonstrate the book's transatlantic slant with a US-centric list of hardware suppliers that will be close to useless for a UK audience.

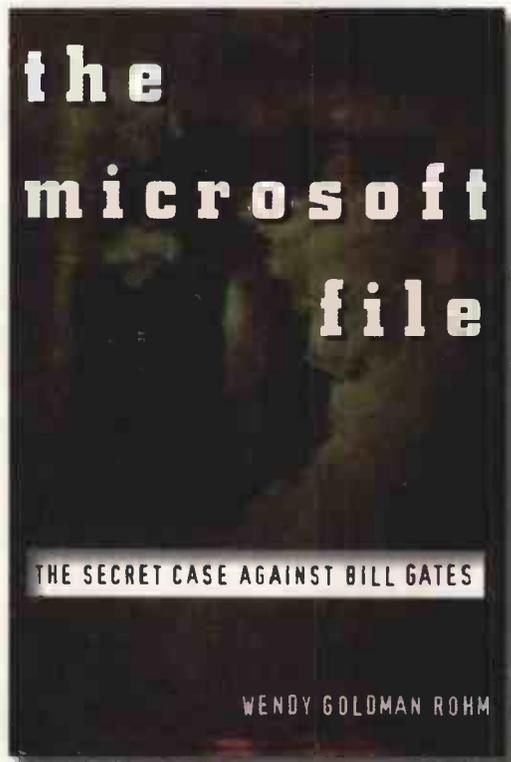
NIK RAWLINSON

## The Microsoft File — The secret case against Bill Gates

**T**his book claims to be a fly-on-the-wall account of Microsoft's inevitable ascent. We are told that information has come from "Deep Throat" sources as well as leaked emails and interviews with key personnel. Unfortunately, for the curious reader, that is as far as sourcing the claims goes. One wonders why author Rohm doesn't quote from the more accurate email exchanges she had with Gates prior to publication of the book, mentioned in her foreword. The author is undoubtedly at her best when digging the dirt on Microsoft. For instance, she reveals that code was found within early versions of Windows which would sabotage applications if users were running rival DR-DOS rather than MS-DOS.

**There are some great windows** into the mad Palace of Bill, my personal favourite being the moment when Gates loses his rag during an interview with CBS interviewer Connie Chung. But these are never followed through.

Instead, the legal wranglings inside the Federal Trade Commission are covered in depth and too much space is given to sources such as Novell CEO Ray Noorda, presumably



*...information has come from 'Deep Throat' sources*

because they preferred far more information.

**Rohm definitely makes** some basic points along the way, observing Microsoft's habit of dividing and destroying the competition until it dominates and then hiking-up prices, unhindered. There is a really superb book to be written on Gates' empire, but this isn't it. We'll have to keep on waiting.

PAUL TRUEMAN

### PCW DETAILS



**THE MICROSOFT FILE —  
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**GT1 Model** with larger 15" SVGA colour screen, extra software including IBM ViaVoice Executive speech recognition, Educational Curriculum software bundle inc SATS tests, 60 minute VHS video/training guide

**Only £49 + VAT = £57.58 extra**

Product Codes: 333M-II GT1 15" 792

### Speech Recognition

IBM ViaVoice 98 Executive speech recognition on GT1 model allows you to talk to your PC and command virtually any Windows 95/98 application.

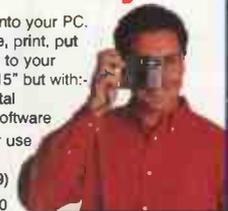
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Rockwell fax/data/Internet and answerphone modem with Flash for future upgradeability- the best modem! (limited free offer)

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High quality Epson colour inkjet printer with 720dpi resolution



The amazing Time 333M-II Multimedia Family PC with fast **333M-II processor**, massive **64Mb RAM**, full-feature CD multimedia and massive software bundle is now available at a lower price of just **£695 +VAT** (for a limited period only). Order now and get a **free Epson colour inkjet printer** for a complete home PC solution! Buy now and get **12 months Interest Free Credit** with Nothing to pay until December 1999 on our best selling EXEC model.

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Plenty of RAM memory increases performance and gives you more work space thus allowing you to run multiple programs. This 333M-II system outperforms our 32Mb 350MHz processor based system.

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Fast 4.3Gb hard disk with Ultra DMA interface connection delivers twice the speed and gives you lots of storage space and future-proofness.

### Software included



Lotus 123 Millennium, Lotus Approach Millennium, Lotus Freelance Millennium, Lotus Organizer Millennium, Lotus ScreenCam Millennium, Lotus WordPro Millennium, Lotus FreeSite Millennium

### Extra on GT1 and Photostudio models only



**EXEC Models** include PC joystick, PC joystick, PC headset microphone, top games (RRP £145) and over 13 superb multimedia titles (RRP £325) at only £99 + VAT = (£116.33 inc. VAT) extra.  
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### Software included



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Product codes: 300-2 862  
300-2s 863



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TSP/NTB2A

## brainteasers

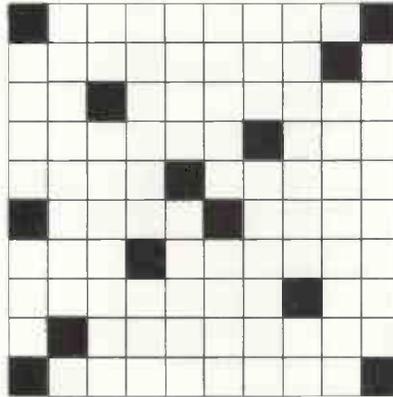
**Quickie**

Why will you always find a picture of Charles Dickens in a bank?

**This Month's Prize Puzzle**

This month you will be pitting your wits against the Xmas number crossword. Arrange the numbers [below] into the grid [right], some across and some down, in the manner of a crossword.

16	2155	2980972
17	5091	5186811
88	5443	5401815
91	9181	8392650
258	11093	18983188
480	19603	27864111
482	32896	32832118
511	297091	37740183
689	465715	38451557
1512	542739	65961665
1851	917136	75019985



Send your answer on a postcard or the back of an empty, sealed envelope, to: PCW Prize Puzzle — January 1999  
P.O. Box 99  
Harrogate HG2 0XJ  
Entries should arrive no later than 20th January, 1999. Please do not send solutions on floppy disks, emails, or in envelopes.

**Winner of October Prize Puzzle**

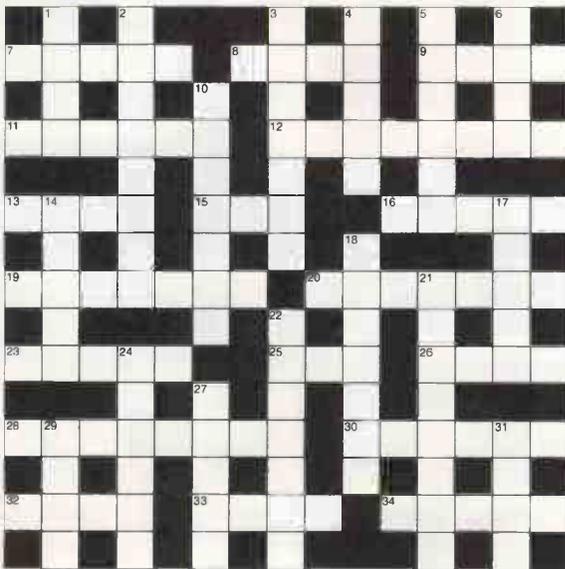
We thought that the October problem would prove rather difficult, and the fact that we had less than 50 entries confirmed this. It was a real number-cruncher. The solution required was that the six digits are 2, 5, 6, 7, 8, 9 and this gave 208 primes and 13 squares and cubes. The winning card came from a previous winner of the competition, Mr Gordon Brindle of Witney, Oxfordshire. Sorry, Mr Brindle, you're going to get the same type of prize as you got before.

Usual condolences to the also-rans, but keep trying — as they say, next time it could be you!

♥ I seem to have made a bit of a dog's dinner of November's problem. However, I'll try to have things sorted out by next month's issue.

JJ CLESSA

## prize crossword

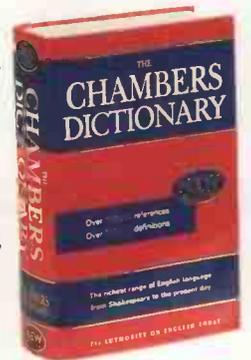
**ACROSS**

7 The V of DVD (5)  
8 Box in a table (4)  
9 See 30 across  
11 Disk division (6)  
12 Microsoft's internet adventurer (8)  
13 Island's programming language? (4)  
15 Software glitch (3)  
16 Time to reboot (5)  
19 Visuals input device (7)  
20 Existing setting unless another has been stated (7)

23 Screen dot (5)  
25 19 across's text capability (inits) (3)  
26 Electronic input-output point (4)  
28 Rival of 12 across's company (8)  
30 ...and 9 across peripherals plug-in point (6, 4)  
32 ...and 34 sound card's real sound capability (9)  
33 Place for expansion (4)  
34 See 32 across

It's only words — and there are millions of them in the new Chambers Dictionary. Each month, one lucky PCW crossword entrant wins a copy. This time, you could get lucky. Send your completed crossword to: PCW November Prize Crossword, VNU House, 32-34 Broadwick Street, London W1A 2HG, to arrive no later than 4th January, 1999.

Please state clearly if you do not wish to receive promotional material from other companies.

**DOWN**

1 Dumb show (4)  
2 Hold back (8)  
3 Retaliation (7)  
4 Gradient (5)  
5 Outcry (6)  
6 Genuine (4)  
10 Boy singers (7)  
14 Character code (abbrev) (5)  
17 Divide (5)  
18 Sadden (7)  
21 North African (8)  
22 One way or another (7)  
24 Spring festival (6)  
27 Brief interval (5)  
29 Verve (4)  
31 Companion (4)

**December solutions****ACROSS**

7 Ethernet 9 Search 10 Help  
11 Character 12 Turbo  
14 Scanner 18 Start Up  
19 Lithium 22 Refresh  
24 Email 26 Intranets  
28 Tray 29 Laptop  
30 Provider

**DOWN**

1 Attenuate 2 Keep 3 Snack  
4 Asia 5 Battle 6 Scar  
8 Trance 13 Bar 15 Nail  
16 Purr 17 Mutilated  
20 Hem 21 Asleep  
23 Estate 25 Ascot 26 Iran  
27 Alps 28 Trip

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- ▶ ChipChat—*The last word, and the caption competition*

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dan Ultimate/200, Best Buy, What PC?, April '97



Service & Reliability  
User Survey  
August 1997



dan Home Plus/200  
PC Zone Classic  
September 97



dan Xplora Plus/166  
Editor's Choice  
September 97



dan technology ltd  
1997 Service Award  
October 97



dan Home Plus/233  
Best Buy  
October 97



dan Ultimate/200XE  
Value  
November 97



dantium II/266  
Editor's Choice  
January 98



Xplora Plus K6/233  
Best Buys of '98  
January 98



dantium II 300/GS  
Performance  
February 98



Readers' Customer  
Service Award 1997  
April 98

**1998  
ANNUAL  
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dan Ultimate/200X  
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March 97



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dan Home Plus, What Personal Computer, October '97



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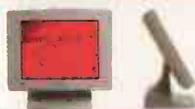
**Yamaha CRW4260t Rewritable £ 238** (£280 incVAT)

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"We sensed from the outset that Dan's submission would be a high quality one. Opening the box reveals a neatly packaged collection of components and extras as opposed to the all too common tombola affair. The midi tower case has useful slide off access panels. Removing the left panel revealed one of the cleanest system designs we have ever seen. Not one cable crosses the motherboard, as they're all sited in one corner next to the vital components they serve to connect... A predictably good system from Dan, and one that almost perfectly balances cost against features and performance. Dan's Home Plus deservedly takes the honours."  
**WHAT PC, Best Buy (dan Home Plus/233), Oct'97**

### Popular Upgrades

Additional 32MB PC100 SDRAM	£ 31 (37) incl. VAT
Additional 64MB PC100 SDRAM	£ 66 (78) incl. VAT
8.0GB HDD upgrade from 6.4GB	£ 16 (19) incl. VAT
17" CTX 1769SE monitor upgrade from Dan SVGA 15" monitor	£ 66 (78) incl. VAT
Microsoft Joypad	£ 18 (22) incl. VAT
Upgrade the Dan Hi-Fi Speakers to:	
Yamaha YST-M20 Speakers	£ 22 (26) incl. VAT
dan Subwoofer & Speakers	£ 14 (17) incl. VAT

### Panasonic SuperDisk120

The Superdisk120 is a high capacity, 3.5inch drive capable of reading and writing to 120MB disks whilst offering full backwards compatibility with conventional 3.5inch disks. It provides 83 times more data storage capacity and up to five times faster data retrieval than current floppy drives. The Superdisk120 is ideal for use in desktops, workstations and servers for rapid backup and transfer of text and multimedia files, software distribution and Internet downloading.



£ 66 (£ 78 incVAT)

### Creative Sound Blaster Live!

Immerse yourself in sound so vivid, you experience games and music rather than just hear them! Features include superior surround-sound Environmental Audio, 256 voices of music synthesis and real time audio enhancement, and Environmental Audio Extensions.  
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**Surf the Net** A modem is your gateway to the outside world. The Dan Home II Plus, Dan GameStation, Dan Xplora II Plus and Dan Xplora PC all include a high speed voicefax modem as standard. You can now send and receive faxes from your PC as well as

communicate on-line with millions of other computer users. Trial software is included to give 28 days access (or max. 24hrs) free of charge with details for a full upgrade. You can 'surf' the Internet, find information on any subject, or even do some shopping!

### dan GameStation

with Celeron or Pentium II Processor

- 64MB PC100 SDRAM (1x64MB)
- 8.0GB EIDE Ultra DMA HDD
- Choice of Intel® Celeron or Pentium®II Processor with Cache
- ATI 8MB All in Wonder Pro AGP Card
- Diamond 8MB Monster 3DII Sport
- 17" Iiyama L/R N/I Monitor (A701GT) (Viewable size 16.2" - 405mm)
- 56KBPS VoiceFax/Modem (UK only)
- DVD Drive with movie playback software
- Soundblaster AWE 64 OEM
- Dan Subwoofer & Speakers
- 1.44MB Floppy Disk Drive
- Midi Tower Case with PSU
- 1 Parallel, 2 Fast Serial & 2 USB Ports
- Microsoft IntelliMouse™
- Windows UK Keyboard
- MS Sidewinder Joypads (x2), Microphone
- Windows 98 or 95 (please specify)
- MS Works Suite, Encarta US, Intuit Quicken 6SE, Serif Page Plus, MMX™ Software Bundle (5 titles), World Cup '98 & Formula 1 '97
- 1 Year On-site Warranty

**1 Year On-site Warranty**

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### dan Xplora II Plus

High end INTERNET PC

- 32MB PC 100 SDRAM (1x32MB)
- 6.4GB EIDE HDD
- Choice of Intel® Celeron or Pentium®II Processor with Cache
- ATI 4MB 3D Charger AGP Video Card
- 15" Super VGA L/R N/I Monitor (Viewable size 13.96" - 349mm)
- 56KBPS VoiceFax/Modem (UK only)
- 32Max Speed EIDE CD-ROM
- SoundBlaster AWE 64 OEM
- Dan Hi-Fi Power Speakers (150W PMPO)
- 1.44MB Floppy Disk Drive
- Midi Tower Case with PSU
- 1 Parallel, 2 Fast Serial & 2 USB Ports
- Microsoft IntelliMouse™
- Windows UK Keyboard
- Microphone
- Windows 98 or 95 (please specify)
- MS Works Suite, Intuit Quicken 6SE & MMX™ Software Bundle (5 titles)
- 1 Year On-site Warranty

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### dan Xplora

Entry level INTERNET PC

- 32MB PC100 SDRAM (1x32MB)
- 3.2GB EIDE Ultra DMA HDD
- Choice of AMD K6-2 Processor
- 512KB Pipeline Burst Cache Memory
- ATI 2MB 3D Charger Video Card
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- 56KBPS VoiceFax/Modem (UK only)
- 32Max Speed EIDE CD-ROM
- Soundblaster 16 Soundcard
- Dan Advanced Speakers (10W PMPO)
- 1.44MB Floppy Disk Drive
- Desktop Case with PSU
- Microsoft IntelliMouse™
- Windows UK Keyboard
- Microphone
- Windows 98 or 95 (please specify)
- 1 Parallel & 2 Fast Serial Ports
- MS Works Suite, Intuit Quicken 6SE & MMX™ Software Bundle (5 titles)
- 1 Year On-site Warranty

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	Celeron 333	Pentium II 350	Pentium II 400	Pentium II 450
Price	£ 1430	£ 1471	£ 1596	£ 1739
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APR 29.9%	£ 79.00	£ 81.22	£ 88.04	£ 95.82

	Celeron 300A	Celeron 333	Pentium II 350	Pentium II 400
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APR 29.9%	£ 45.48	£ 46.36	£ 48.58	£ 55.40

	AMD K6-2 300	AMD K6-2 350
Price	£ 663	£ 706
Incl. VAT	£ 780	£ 830
APR 29.9%	£ 37.23	£ 39.54

### Call for 380/400MHz CPUs

Delivery cost to mainland UK for one system is £ 19 (£ 23 incVAT)

**Personal Computer World Editors Choice**

"We judged the PCs in this month's group test on three main criteria: performance, price and internet readiness...There is usually quite a bit of hand-wringing over our Editor's Choice award, but not this month. Sheer value for money, performance and a no-strings internet access trial means that this month's winner just had to be the Dan Xplora Plus/166XT. It is well built, well specified and is one of the few machines to be truly internet ready. Superb."

**PCW, Editor's Choice (dan Xplora Plus/166XT), Sept'97**

**WINNER PC**

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for more info, visit our Web site:  
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### ATI All in Wonder Pro Video/TV Card

Customers who are looking for the ultimate in multi-media graphics and video capabilities in a single card need look no further than the All in Wonder Pro from ATI. Based on ATI's latest 3D Rage Pro processor and available in both PCI and AGP formats, the All in Wonder Pro offers just about the most comprehensive solution there is for industry-leading 2D acceleration, arcade-quality 3D acceleration, video capture, output to TV and TV Teletext functions that let users exploit TV content, rather than simply watch it.

ATI's All in Wonder Pro functions include:

- Rage Pro powered 2D/3D graphics acceleration
- Still image and motion video capture
- Video playback software
- Intelligent TV Tuner
- TV set display with "Channel Surf", "Instant Replay", "Zoom" and "Scheduled Viewing".
- Wide screen display capability

**included as standard in Dan Home II Plus & GameStation**

### WARRANTY

All Dan systems and components come with one year back-to-base parts/labour guarantee and Lifetime Hotline telephone support. Optional next-working-day (subject to customer location and time of call) ON-SITE maintenance (£42 for the first year - UK mainland only - included as standard with selected systems). **14-day money back guarantee if not satisfied** (excludes printers & software). All software supplied on original media, except Works which is only pre-installed on the hard disk. Dan Technology systems prices and specifications are subject to change without notice. All sales are subject to Dan Technology Ltd terms and conditions, a copy of which may be obtained on request. Dan Technology is a trademark of Dan Technology Ltd which is a subsidiary of Dan Technology Holdings Ltd. Intel Inside logo & Pentium are registered trademarks and MMX is a trademark of the Intel Corporation. All trademarks acknowledged.

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# dan technology



# For peripherals, contact dp...



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32MB Memory 72-pin Module with Parity	£ 40 ( 47)
16MB EDORAM 72-pin Memory Module	£ 20 ( 24)
32MB EDORAM 72-pin Memory Module	£ 39 ( 46)
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16MB SDRAM 168-pin Memory Module	£ 12 ( 15)
32MB SDRAM 168-pin Memory Module	£ 30 ( 36)
64MB SDRAM 168-pin Memory Module	£ 99 ( 70)
128MB SDRAM 168-pin Memory Module	£ 117 ( 138)
32MB PC100 SDRAM 168-pin Memory Module	£ 31 ( 37)
64MB PC100 SDRAM 168-pin Memory Module	£ 66 ( 78)
128MB PC100 SDRAM 168-pin Memory Module	£ 131 ( 154)

RAM prices are subject to change. Please call for latest prices.

## Video Cards

ATI 3D Charger AGP 4MB EDORAM	£ 22 ( 26)
ATI Xpert@Work PCI 4MB SGRAM	£ 38 ( 45)
ATI Xpert@Work PCI 8MB SGRAM	£ 54 ( 64)
ATI Xpert98 AGP 8MB SDRAM	£ 30 ( 36)
Matrox Productiva AGP 4MB SGRAM	£ 28 ( 33)
Matrox Productiva AGP 8MB SGRAM	£ 45 ( 53)
Matrox Millennium G200 AGP 8MB SDRAM	£ 61 ( 72)
Matrox Millennium G200 AGP 8MB SGRAM	£ 76 ( 90)
Diamond 3DII Monster 8MB PCI card+games	£ 106 ( 125)
Diamond 3DII Monster 12MB PCI card+games	£ 138 ( 163)
Diamond 3DII MonsterSport 8MB PCI card+games	£ 115 ( 136)
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## The Company



Tel: 0181 830 2492

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Opening hours: Mon-Fri 10am-6pm  
Website: www.dp.co.uk

## CPUs/Motherboards

<b>CPUs</b>	
IBM 686MX 300MHz	£ 51 ( 60)
IBM 686MX 333MHz	£ 87 ( 103)
AMD K6-2 300MHz	£ 59 ( 70)
AMD K6-2 350MHz	£ 102 ( 120)
Intel Celeron 300	£ 84 ( 99)
Intel Celeron 300A	£ 107 ( 126)
Intel Celeron 333	£ 123 ( 145)
Intel Pentium II 333MHz	£ 140 ( 165)
Intel Pentium II 350MHz	£ 164 ( 193)
Intel Pentium II 400MHz	£ 289 ( 340)
Intel Pentium II 450MHz	£ 432 ( 508)
<b>Motherboards</b>	
PCI AT Pentium All w/512K Cache (Asus)	£ 57 ( 67)
PCI Pentium II BX (Asus)	£ 79 ( 93)
PCI Pentium II BX (Supermicro)	£ 79 ( 93)
PCI Dual Pentium II BX w/SCSI Controller	£ 206 ( 243)
PCI Dual Pentium II GX w/SCSI Controller	£ 258 ( 304)

## Hard Disk Drives

2.0GB EIDE	£ 71 ( 84)
3.2GB EIDE	£ 84 ( 99)
4.0GB EIDE	£ 92 ( 109)
5.2GB EIDE	£ 108 ( 127)
6.4GB EIDE	£ 114 ( 134)
8.0GB EIDE UDMA	£ 130 ( 153)
10.0GB EIDE UDMA 7200rpm (IBM)	£ 203 ( 239)
4.0GB SCSI	£ 243 ( 286)
9.0GB SCSI	£ 396 ( 466)
4.0GB Wide SCSI	£ 243 ( 286)
9.0GB Wide SCSI	£ 396 ( 466)

### Drive Controllers

Adaptec ISA 1520 SCSI controller	£ 47 ( 56)
Adaptec PCI 2920 SCSI controller	£ 92 ( 109)
Adaptec PCI 2940 SCSI controller	£ 165 ( 194)
Adaptec PCI 2940 UW SCSI controller	£ 203 ( 239)
Adaptec PCI 3940 SCSI controller	£ 300 ( 353)
Adaptec PCI 3940 UW SCSI controller	£ 342 ( 402)
Promise VESA 2300plus EIDE controller	£ 31 ( 37)

## Multimedia Devices

32max Speed IDE CD-ROM	£ 33 ( 39)
32x Speed SCSI CD-ROM	£ 61 ( 72)
DVD drive + controller + games	£ 123 ( 145)
TEAC CD-R55S CD Writer (controller required)	£ 242 ( 285)
Yamaha CD-Rewritable 4260 (controller required)	£ 238 ( 280)
PC Desktop Video Camera	£ 71 ( 84)
Sound Blaster 16	£ 15 ( 18)
Sound Blaster AWE 64 (OEM)	£ 28 ( 33)
Sound Blaster AWE 64 Gold	£ 79 ( 93)
dp Hi-Fi Power Speakers (150W PMPO)	£ 16 ( 19)
dp Subwoofer + Speakers	£ 30 ( 36)
Yamaha YST M20 Speakers	£ 38 ( 45)

## Network Products

ISA 16-bit Ethernet Combo Card	£ 16 ( 19)
ISA 16-bit 3COM509 Combo Network Card	£ 53 ( 63)
PCI 32-bit 3COM905 Base-T Network Card	£ 41 ( 49)
PCI 32-bit 3COM900 Combo Network Card	£ 50 ( 59)
8-port 10 base-T mini Ethernet Hub	£ 29 ( 35)
16-port 10 base-T mini Ethernet Hub	£ 98 ( 116)

## Fax/Modems

Internal 56.6KBPS Voice Fax Modem	£ 68 ( 80)
Internal 56.6KBPS Voice Fax Modem + camera	£ 117 ( 138)
External 56.6KBPS Voice Fax Modem	£ 104 ( 123)
Sportster External 56.6KBPS Flash Fax Modem	£ 110 ( 130)
US Robotics External 56.6KBPS Message Plus	£ 150 ( 177)
Pace ISDN Terminal Adapter	£ 217 ( 255)

All modems are BABT approved

Prices in brackets include VAT @ 17.5% E.&O.E.

## Backup Devices

2GB (4GB compressed) int. DAT Streamer +tape	£ 320 ( 376)
4GB (8GB compressed) int. DAT Streamer +tape	£ 477 ( 561)
12GB (24GB compressed) int. DAT Streamer +tape	£ 679 ( 798)
2GB (4GB compressed) ext. DAT Streamer +tape	£ 418 ( 492)
4GB (8GB compressed) ext. DAT Streamer +tape	£ 561 ( 660)
Seagate Tape Stor 8000 IDE (SCSI available)	
lomega 2GB Floppy Tape Streamer +tape	£ 77 ( 91)
lomega 100MB ZIP+ external ATAPI Drive	£ 88 ( 104)
lomega 100MB ZIP internal ATAPI Drive	£ 54 ( 64)
lomega 100MB ZIP Cartridge	£ 7 ( 9)
lomega 2GB JAZ Internal SCSI Drive	£ 215 ( 253)
lomega 2GB JAZ Int. SCSI Drive+controller	£ 263 ( 310)
lomega 2GB JAZ Cartridge	£ 99 ( 70)
Panasonic LS120 Drive + disk	£ 64 ( 76)

## Video/TV Combo Cards

The All in Wonder Pro from ATI offers a comprehensive solution for 2D acceleration, arcade-quality 3D acceleration, video capture, output to TV and TV Teletext functions.



ATI All in Wonder Pro PCI 4MB	£ 61 ( 72)
ATI All in Wonder Pro PCI 8MB	£ 77 ( 91)
ATI All in Wonder Pro AGP 4MB	£ 61 ( 72)
ATI All in Wonder Pro AGP 8MB	£ 77 ( 91)

The Hauppauge WinTV PCI board is a single slot Plug and Play card with a 125-channel TV tuner, video digitiser and Teletext Decoder.



Hauppauge PCI WinTV Card	£ 59 ( 70)
Hauppauge PCI WinTV & Radio Card	£ 101 ( 119)

## Monitors



14" iiyama ProLite Flat Panel LCD Monitor .26dot, 1024x768 @ 79KHz	£ 592 ( 696)
17" iiyama MT8617ES SVGA Colour Monitor Speakers, FST Tube, .26dot, 1600x1200 @ 69KHz	£ 341 ( 401)
17" iiyama A701GT SVGA Colour Monitor DiamondTron, .25ag, 1600x1200 @ 72KHz	£ 320 ( 376)
21" iiyama A102GT SVGA Colour Monitor DiamondTron, .28ag, 1800x1440 @ 75KHz	£ 747 ( 878)

### 14" CTX SVGA Colour Monitor

Shadow Mask, .28dot, 800x600 @ 72KHz  
£ 89 ( 105)



### 15" CTX 1569UA Colour Monitor

Trinitron, .25ag, 1024x768 @ 85KHz  
£ 154 ( 181)

### 17" CTX 1769SE FST SVGA Colour Monitor

Shadow Mask, .28dot, 1280x1024 @ 60KHz  
£ 171 ( 201)

### 17" CTX 1792UA FST SVGA Colour Monitor

Trinitron, .25dot, 1600x1200 @ 70KHz  
£ 294 ( 346)

### 19" CTX 1995UE SVGA Colour Monitor

.26dot, 1600x1200 @ 75KHz  
£ 307 ( 361)

### 19" ADI MicroScan 6P SVGA Colour Monitor

FST Tube, .26dot, 1600x1200 @ 75KHz  
£ 311 ( 366)

## Scanners

The highest quality scanner in its class, the Epson GT5500 boasts an optical resolution of 400x800dpi (up to 3200dpi interpolated) to ensure superb detail in every scan, while 30-bit colour sampling captures faithfully every variation in hue and colour tone. (Includes 1 year return to base warranty.)



Epson GT5500 Scanner	£ 185 ( 218)
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## Input Devices

Keytronics Keyboard for Windows 95	£ 16 ( 19)
Microsoft Natural Keyboard	£ 38 ( 45)
Microsoft IntelliMouse	£ 40 ( 47)
Microsoft Joystick	£ 19 ( 23)



Printers



Modems



Memory

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BRO-HL1050	239.00	£280.83
BRO-HL1058	£255.00	£299.63
BRO-HL1070	299.00	£351.33
BRO-HL1078	315.00	£370.13
BRO-HL166e	£609.00	£715.58

Canon	Exc Vat	Inc Vat
BJC250 Colour	£70.00	£82.25
BJC4300	£91.00	£106.93
CANBJC4300+Scanner	£121.00	£142.18
BJC80 Colour	£139.00	£163.33
BJC7000 A4 1200x600 dpi	£164.00	£192.70
BJC5000 A3 1440 dpi	£165.00	£193.88
BJC50 Colour	£188.00	£220.90
BJC4650 A3	£196.00	£230.30

Epson	Exc Vat	Inc Vat
Stylus 440 Colour	£98.00	£115.15
Stylus 640 Colour	£127.00	£149.23
Stylus 700 Colour	£155.00	£182.13
Stylus 740 Colour 1440dpi	£169.00	£198.58
Stylus Colour 850	£198.00	£232.65
Stylus Photo EX A3	£282.00	£331.35
Stylus 1520 A2 Portrait	£432.00	£507.60

Hewlett Packard	Exc Vat	Inc Vat
D/Jet 420 Colour	£66.00	£77.55
D/Jet 690- No P/Cart	£96.00	£112.80
D/Jet 710C + P/ret II	£134.00	£157.45
D/Jet 720C	£149.00	£175.08
D/Jet 895CXI NW+P/ret II	£186.00	£218.55
D/Jet 1120C A3 + P/Ret	£285.00	£334.88
D/Jet 2000C A4 C4530A	£450.00	£528.75
D/Jet 2000CN C5901A	£675.00	£793.13
OfficeJet 635C	£321.00	£377.18
OfficeJet 1170	£491.00	£576.93
OfficeJet 1175	£614.00	£721.45
L/Jet 1100 8ppm	£232.00	£272.60
L/Jet 6P/C3980A	£461.00	£541.68
L/Jet 3100 C3948A	£471.00	£553.43
L/Jet 4000 C4118A	£711.00	£835.43
L/Jet 5000 A3/C4110A	£929.00	£1,091.58
L/Jet 8000 A3/C4085A	£1,574.00	£1,849.45

Kyocera	Exc Vat	Inc Vat
FS 600	£218.00	£256.15

### Scanners

Epson	Exc Vat	Inc Vat
GT5500 SCSI for PC	£123.00	£144.53

Hewlett Packard	Exc Vat	Inc Vat
ScanJet 4100C USB	£116.00	£136.30
ScanJet 5100/C5197A	£144.00	£169.20
S/Jet 6200C Not Mac Comp	£238.00	£279.65
S/Jet 6250C Not Mac Comp	£278.00	£326.65

Novatech	Exc Vat	Inc Vat
Photomaker 3F A4	£39.00	£45.83
Photomaker 3E A4 Parallel	£39.00	£45.83
Photomaker 6F A4	£59.00	£69.33
Photomaker 6E Parallel	£59.00	£69.33

### Hard Drives

Fujitsu	Exc Vat	Inc Vat
MPC-3021AT-UDMA 2.1Gb	£70.00	£82.25
MPB3043AT-UD 4.3Gb	£86.00	£101.05
MPB3064AT-UD 6.4Gb	£106.00	£124.55

Seagate	Exc Vat	Inc Vat
ST32122A 2.0Gb EIDE	£57.00	£66.98
ST33232A 3.2Gb UDMA	£73.00	£85.78
ST34321A 4.3Gb 11ms	£78.00	£91.65
ST38641A 8.6Gb 10.5ms	£118.00	£138.65
ST39140A 9.1Gb 9.5ms	£132.00	£155.10

Western Digital	Exc Vat	Inc Vat
AC33200A 3.2Gb UDMA	£82.00	£96.35
AC34300 4.3Gb UDMA	£87.00	£102.23
AC36400 6.4Gb UDMA	£102.00	£119.85

### Modems

Hayes	Exc Vat	Inc Vat
Accura 56k Internal	£82.00	£96.35
Accura 56K External	£85.00	£99.88

Novatech	Exc Vat	Inc Vat
33.6 Internal ISA	£29.00	£34.08
33.6 External ISA	£34.00	£39.95
56k Internal PCI	£36.00	£42.30
56K Internal ISA	£39.00	£45.83
56K External ISA	£49.00	£57.58

3 Com	Exc Vat	Inc Vat
Voice/Fax 56k V90 Ext	£72.00	£84.60
Mess/Plus 56k V90 Ext	£89.00	£104.58
V90 56k PCMCIA Mherzt	£103.00	£121.03
Professional Mess. V90 Ext	£112.00	£131.60

### Monitors

ADI	Exc Vat	Inc Vat
Provista E33 14"	£89.00	£104.58
Provista E44 15"	£99.00	£116.33
Microscan 4P 15"	£115.00	£135.13
Microscan 5P 17"	£189.00	£222.08

CTX	Exc Vat	Inc Vat
1792UA 17"	£292.00	£343.10

Ilyama	Exc Vat	Inc Vat
Vision Master Pro 400 17"	£299.00	£351.33

Novatech	Exc Vat	Inc Vat
14" 0.28mm DP Digital	£79.00	£92.83
15" 0.28mm DP	£99.00	£116.33
17" 0.28mm DP	£169.00	£198.58
17" 26dpi 1600*1200	£257.00	£301.98

### Networking

Kingston	Exc Vat	Inc Vat
ISA KNE 2021LC RJ45 BNC	£15.00	£17.63
PCI Combo 40BT RJ45 BNC	£20.00	£23.50

Dlink	Exc Vat	Inc Vat
ISA DE-220PCT RJ45 BNC	£13.00	£15.28
528CT Combo PCI	£19.00	£22.33

### Graphics Cards

Creative Labs	Exc Vat	Inc Vat
GB Riva TNT 16Mb AGP	£89.00	£104.58
3D Blaster Voodoo2 12Mb	£72.00	£84.60

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**Payment:** We will not debit your card before the day of dispatch. Please allow 7 working days for cheques to clear before dispatch. Proforma invoices will be supplied on request. Bank transfers welcome - please ask for details. We welcome official orders from Government, quoted PLCs and Education Bodies. Our terms for these orders are strictly 30 days from invoice date.

**Delivery Charges:** (FREE DELIVERY ON ALL CONSUMABLES)

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Scanners



Monitors



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Cameras

and much more...

Graphics Cards

Table with columns: Manufacturer, Product Name, Exc Vat, Inc Vat. Includes Hauppauge Win TV PCI NICAM and Novatech PCI S3 3D DX Mpeg 2Mb.

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Table with columns: Manufacturer, Product Name, Exc Vat, Inc Vat. Includes Iomega Zip Internal IDE and Syquest Sparq 1.0Gb Int. IDE.

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Table with columns: Manufacturer, Product Name, Exc Vat, Inc Vat. Includes Hitachi 32x EIDE 80ms Av access and Novatech 32 Speed EIDE.

Motherboards

Table with columns: Manufacturer, Product Name, Exc Vat, Inc Vat. Includes Microrstar Aladdin 5 100Mhz AGP ATX and Novatech TX Pro 512Kb + 16 Bit Sound.

PC Cases

Table with columns: Manufacturer, Product Name, Exc Vat, Inc Vat. Includes Novatech Mini Tower AT-CE App.

Processors

Table with columns: Manufacturer, Product Name, Exc Vat, Inc Vat. Includes AMD K6 3D 300 Mhz.

Processors

Table with columns: Manufacturer, Product Name, Exc Vat, Inc Vat. Includes IDT WinChip 200Mhz and Intel Pentium II 333Mhz.

Evergreen Overdrive

Table with columns: Manufacturer, Product Name, Exc Vat, Inc Vat. Includes MxPro 200Mhz.

Memory

Table with columns: Manufacturer, Product Name, Exc Vat, Inc Vat. Includes 30 Pin 4Mb 30 pin Simm and 72 Pin Non Parity 8Mb Simm.

Table with columns: Manufacturer, Product Name, Exc Vat, Inc Vat. Includes 72 Pin Parity 8Mb Simm and 168 Pin Dimms 16Mb 168 Pin Sync Dram.

Software

Table with columns: Manufacturer, Product Name, Exc Vat, Inc Vat. Includes Intuit Quicken 98 Deluxe and Microsoft Win98 U/G for 3.1, 3.11, W95.

Cameras

Table with columns: Manufacturer, Product Name, Exc Vat, Inc Vat. Includes Epson Photo PC 600.

Palm Tops

Table with columns: Manufacturer, Product Name, Exc Vat, Inc Vat. Includes 3 Com Palm Pilot Professional.

Look ... Some of our Amazing Deals...

Novatech Notebooks advertisement featuring a laptop image, '14 day money back' badge, and price 'From £799'.

Novatech 9600dpi 30bit Flatbed Scanner advertisement featuring a scanner image, '14 day money back' badge, and price 'Unbeatable at £39'.

Novatech Win-Chip PC advertisement featuring a desktop PC image, '14 day money back' badge, and price '£299'.

EPSON STYLUS COLOR 640 advertisement featuring a printer image and price 'ONLY £127'.

Monitors from only £79 advertisement featuring a monitor image, '14 day money back' badge, and price '£79'.

Novatech 56K External Modem advertisement featuring a modem image, '14 day money back' badge, and price 'ONLY £49'.



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**FAX & MULTIFUNCTION MACHINES**

**BROTHER FAX 930 £219**

FAX / TELEPHONE with DIGITAL ANSWERING

- ✓ Digital Answering Machine • Fixed Cost Per Copy
- ✓ Fax Forwarding and Retrieval • Message Paging
- ✓ Hands Free Speaker Phone • 14,400 bps Modem
- ✓ Plain Paper Copying with Reducing and Enlarging
- ✓ 10 Sheet Paper Feeder • 100 Sheet Paper Tray
- ✓ Up to 20 Page Memory • Caller Line Identification
- ✓ Auto Fax/Tel Detection

With 2 Years Extended On Site Warranty £296



**OSM (On Site Maintenance)**

Model	Technology	1yr OSM	2yr OSM
BROTHER FAX 510	(THERMAL)	£125	£205
BROTHER FAX 520DT	TAM (THERMAL)	£165	£245
BROTHER FAX 920	(INK FILM)	<b>-NEW</b> £189	£255
BROTHER MFC 925	Multi Function (INK FILM)	<b>-NEW</b> £209	£279
BROTHER MFC 1025	Multi Function (INK FILM)	<b>-NEW</b> £219	£296
BROTHER FAX 1020	(INK FILM)	£219	£296
BROTHER FAX 1030	TAM (INK FILM)	£249	£326
BROTHER FAX 9050	Multi Function (LASER)	<b>-NEW</b> £399	£505
BROTHER MFC 9000	Multi Function (LASER)	£429	£535
BROTHER MFC PRO700C	Multi Function Colour (INKJET)	£549	£655

Please Call

**HP OFFICEJET 635 £339**

PRINT, COPY, SCAN in COLOUR PLAIN PAPER FAX

- ✓ All-in-One: Printing, Faxing, Copying, Scanning
- ✓ 600 x 600dpi Black • 600 x 300dpi Vibrant Colour with RET
- ✓ Inkjet with ColorSmart Technology • 256 Halftones
- ✓ 65 Pages Fax Memory • 100 Numbers Speed Dial
- ✓ 20 Pages Document Feeder • 14400 Bps Modem
- ✓ Up to 99 Copies • 50-200% Enlarge / Reduce
- ✓ 1200Dpi Enhanced, 300Dpi Optical Scanner Res. • 24-bit Colour

**WAR (Warranty)**

Model	Technology	1yr WAR	3yr WAR
HP OFFICEJET PRO 1170C	Printer/Scanner/Copier (INKJET)	£489	£607
HP OFFICEJET PRO 1175C	Printer/Scanner/Copier (INKJET)	£614	POA
HP LASERJET 3100	Fax/Printer/Scanner/Copier (LASER)	<b>-NEW</b> £470	£542

**OSM (On Site Maintenance) NoWAR (No Warranty) 1yr OSM NoWAR**

Model	Technology	1yr OSM	NoWAR
PANASONIC KX-F1810E	(INK FILM)	<b>-NEW</b> £229	
PANASONIC KX-F1830E	Ansafax (INK FILM)	<b>-NEW</b> £259	
PANASONIC UF-332	(INKJET)	£385	
PANASONIC UF-342	Colour (INKJET)	£549	£469
PANASONIC UF-344	Colour (INKJET)	£669	£589
PANASONIC UF-550	(LASER)	£699	£579
PANASONIC UF-560	(LASER)	£739	£629
PANASONIC UF-770	(LASER)	£1069	£955
PANASONIC UF-880	(LASER)	£1149	£1045



**BROTHER FAX 8250P £429**

LASER PLAIN PAPER FAX with DUAL ACCESS MEMORY

- ✓ 14,400 bps Modem • Remote Fax Retrieval Feature
- ✓ 2Mb Total Memory • Memory Backup Facility
- ✓ 1.3Mb Dual Access Memory Stores up to 130 Pages
- ✓ 20 Sheet Automatic Document Feeder • 64 Greyscales
- ✓ 200 Sheet Paper Capacity • 124 Speed Dial Location
- ✓ Document Broadcasting up to 174 Locations
- ✓ Optional PC Interface

With 2 Years Extended On Site Warranty £535



**OSM (On Site Maintenance) NoWAR (No Warranty) 1yr OSM NoWAR**

Model	Technology	1yr OSM	NoWAR
CANON FAX T21	(THERMAL)	£179	
CANON FAX T31	Digital Answering (THERMAL)	£199	
CANON FAX B150	(INKJET)	£235	
CANON FAX MPC20	Multi Function Colour (INKJET)	£255	
CANON FAX L250	The Coporate Communicator (LASER)	£589	£515
CANON FAX L90	The Coporate Communicator (LASER)	£769	£689
CANON FAX L300	The Coporate Communicator (LASER)	£699	£619
CANON FAX L800	The Coporate Communicator (LASER)	£1199	£1049
CANON FAX L900	The Coporate Communicator (LASER)	£1399	£1199

WE STOCK FULL RANGE OF OTHER BRANDS OF FAX MACHINES PLEASE CALL FOR FAX MEMORY UPGRADES

**PANASONIC KX-F2680E £175**

FAX & TEL with ANSWERING

- ✓ Space Saving Design • 50M Roll Capacity
- ✓ Digital Speakerphone • Full Digital Answering
- ✓ Three Personal Voice Mailboxes
- ✓ 64 Level Halftones with Digital Image Processing
- ✓ 15 Page Document Feeder • 58 Speed Dialler

**KX-F2780E £199**

- ✓ Out of Paper Reception • Voice Guidance
- ✓ Voice Time/Day Stamp • Automatic Paper Cutter



**OSM (On Site Maintenance)**

Model	Technology	1yr OSM
SHARP UX-108	(THERMAL)	<b>-NEW</b> £99
SHARP UX-178	(THERMAL)	<b>-NEW</b> £115
SHARP UX-258	TAM (THERMAL)	<b>-NEW</b> £149
SHARP FO-1460M	(INK FILM)	£185
SHARP FO-1660M	Multi Function (INK FILM)	£199
SHARP FO-3600M	(LASER)	<b>-NEW</b> £429
SHARP FO-3500M	(LASER)	<b>-NEW</b> £619

WE STOCK FULL RANGE OF FAX MACHINE SUPPLIES INCLUDING FAX ROLLS, INK FILMS, INK CARTRIDGES & LASER TONERS

**INKJET & LASER PRINTERS & SCANNERS**

**HP DESKJET 690C £96**

COLOURSMART PHOTO PRINTING

- ✓ Prints up to 5 ppm black and 1.7 ppm colour
- ✓ 600 x 600dpi black and 600 x 300dpi colour
- ✓ HP RealLife Imaging System • 30 TrueType Fonts
- ✓ Includes Photo Colour cartridge

3 Years on Site	£40
HP Black Cartridge 51629A	£16
HP Colour Cartridge 51649A	£17
HP Photo Cartridge C1816A	£23



**HP LASERJET 1100 £232**

Copy and Scan with Your Printer

- ✓ Up to 8ppm Print Speed • 2 Mb Memory with MEt
- ✓ 600dpi Resolution with Ultra Precise Toner
- ✓ 100 Sheet Input Tray • Straight Through Paper Path
- ✓ DOS/Windows 3.1x/Windows 95/Windows NT 4 Compatible
- ✓ 1 Year Return to HP Warranty

HP LASERJET 1100A Laser/Copier/Scanner	£285
Plus all the Features of Laserjet 1100	£77
3 Years on Site	£77
HP Laserjet 1100/1100A Toner (C4092A)	£36



HP DESKJET 420C	(INKJET)	<b>-NEW</b> £66
HP DESKJET 340C	(INKJET)	£135
HP DESKJET 710C	(INKJET)	<b>-NEW</b> £134
HP DESKJET 720C	(INKJET)	£149
HP DESKJET 2000C	(INKJET)	<b>-NEW</b> £450
HP DESKJET 2000CN	NETWORK (INKJET)	<b>-NEW</b> £675
HP DESKJET 2500C	(INKJET)	<b>-NEW</b> £705

HP LASERJET COMPANION	(COMPANION)	£79
HP LASERJET 5000	A3 (LASER)	<b>-NEW</b> £929
HP LASERJET 5000N	A3 (LASER)	<b>-NEW</b> £1334
HP LASERJET 5000GN	A3 (LASER)	<b>-NEW</b> £1649
HP LASERJET 8000	(LASER)	<b>-NEW</b> £1574
HP LASERJET 8000N	(LASER)	<b>-NEW</b> £1762
HP LASERJET 8000DN	(LASER)	<b>-NEW</b> £2062

**HP DESKJET 895Cxi £186**

PREMIUM PRINTING HIGH PERFORMANCE

- ✓ Up to 9ppm Mono, 6ppm colour & 0.18ppm Photo
- ✓ 600 dpi Resolution
- ✓ 100 Sheet Input Tray
- ✓ HP Photo RET II for Photo Quality Colour
- ✓ 1 Year HP Unit Exchange Warranty

3 Years on Site	£96
HP Black Cartridge 51645A	£17
HP Colour Cartridge C1823A	£21



**HP LASERJET 6P £460**

PERSONAL QUALITY LASER PRINTER

- ✓ Superb 600x600dpi with HP RET
- ✓ 8ppm engine
- ✓ Excellent graphics with min. 128 levels of grey
- ✓ Dual paper bins and manual option
- ✓ PC parallel port and infra-red

HP Laserjet 6MP	£562
3 Years on Site	£142
HP Laserjet 6P Toner (C3903A)	£45



HP SCANJET 4100C	(SCANNER)	<b>-NEW</b> £115
HP SCANJET 5100C	(SCANNER)	£149
HP SCANJET 6200C	(SCANNER)	<b>-NEW</b> £237
EPSON STYLUS COLOR 440	(INKJET)	<b>-NEW</b> £103
EPSON STYLUS COLOR 640	(INKJET)	<b>-NEW</b> £133

HP COLOR LASERJET 4500	PCL (COLOR LASER)	<b>-NEW</b> £1875
HP COLOR LASERJET 4500N	Network (COLOR LASER)	<b>-NEW</b> £2130
HP COLOR LASERJET 4500DN	Postscript (COLOR LASER)	<b>-NEW</b> £2610

WE STOCK FULL RANGE OF INKJET & LASER PRINTER SUPPLIES FOR BROTHER, CANON, HP, KODAK, LEXMARK, MT, OLIVETTI, XEROX ETC.

**EPSON STYLUS COLOR 740 £177**

The state of the art inkjet printer for advanced home and business users

- ✓ EPSON Ultra MicroDot - the world's smallest ink droplet Black and colour
- ✓ 1440dpi with EPSON Variable-Sized Droplet Technology
- ✓ Advanced PhotoReal colour printing +40% speed improvement
- ✓ Parallel, serial and USB interface - windows & macintosh
- ✓ Optimised for plain paper printing

EPSON Black Cartridge S020189	£16
EPSON Colour Cartridge S020191	£16



**HP LASERJET 4000 £710**

OFFICE STANDARD PRINTER

- ✓ Fast 16ppm print speed • PCL6 printer language
- ✓ 1200dpi with RET and microfine toner
- ✓ HP JetAdmin printer management software

HP Laserjet 4000T	£787
HP Laserjet 4000N	£914
HP Laserjet 4000TN	£990
3 Years on Site	£180
HP 4000 Standard Toner (27A)	£59
HP 4000 High/Cap Toner (27X)	£85



LOWER PRICES ON ALL INKJET & LASER PRINTERS & PRINTER CONSUMABLES

## CANON SUPPLIES

## EPSON SUPPLIES

## HP SUPPLIES

## OTHER SUPPLIES

CANON INK CARTRIDGES	Black	Colour
Canon BN22/32	(BJ1101) £5 P/H £25	
Canon BJ130	(BJ1481) £11	
Canon BJ300/330	(BJ1642) £9	
Canon BJ10E/EX/20	(BC01) £12	
Canon BJ200/EX/230	(BC02) £12	
Canon 210/240/250	(BC02/05) £13	£17
Canon 240/250 Photo Cart.	(BC06) £14	KIT £23
Canon 240/250 Fluorescent	(BC09F) £21	
Canon BJ30/70/80	(BC10) £22	
Canon BJ30/70. TANKS 3's	(BC110) £10	
Canon BJ70/80	(BC11) £26	
Canon BJ70/80. TANKS 3's	(BC111) £10	£14
Canon BJC600	(BJ201BK/C/M/Y) £5	£5
Canon BJC600 Series SET OF COLOURS		£18
Canon BJC600 or 610/620 PRINTHEAD		£82
Canon BJC800	(BJ1643) £13	£16
Canon BJC4000 Series (BC20/21E)	£19	£25
Canon BJC4000 TANKS (BC21E)	£5	£13
Canon 42/4300/45/4650 Photo Cart.(BC22E)		£20
Canon 42/4300/45/4650 Photo Kit (BC22K1)		£25
Canon 42/4300/45/4650 Fluorescent (BC29F)		£21
Canon BJC7000	(BC60/61) £22	£24
Canon BJC7000 Colour Ink Tank (BC16)		£15
Canon BJC7000	(BC62) £33	
<b>CANON INKJET MEDIA</b>	<b>A4</b>	<b>A3</b>
Coated Paper (200)	(LC101) £20	£35
DoubleSidedCoated. (200)	(LC301) £12	£25
High Resolution (200 / 100)	(HR101) £17	£17
Glossy Paper (A4-20/A3-10)	(GP201) £7	£7
High Gloss Film (10)	(HG101) £16	£36
High Gloss Photo Film (10)	(HG201) £14	
Iron-on-Transfer (A4-10/A3-5)	(TR201) £12	£12
Transparency (50)	(CF102) £30	
Back Print Film (20)	(BF102) £23	£46

### INKJET FAX SUPPLIES

Canon B100/110/MP10	(BX3) £20
Canon B320/340/360	(BX2) £15
Canon B200/200S	(BC01) £12
HP Officejet 590/635	(51629A/49A) £16
Panafax UF300	(PC608K) £21
Panafax UF342/44	(3502/03) £26
Samsung SF4200	(1380620/19) £21
Toshiba TF461	(1380620/19) £21

EPSON INK CARTRIDGES	Black	Colour
Stylus Col. Pro XL	(20034/20036) £10	£19
Stylus Pro XL+	(20034/20066) £10	£20
Stylus Col. II/HS/820	(20047/20097) £13	£18
StylusPhoto/700/EX	(20093/20110) £14	£14
Stylus 200	(20047/20097) £13	£18
Stylus 300 (4 Colour Cart.)	(20138) £15	£15
Stylus 500	(20093/20097) £14	£18
Stylus 400/600	(20093/20089) £14	£14
Stylus 800/1520	(20108/20089) £14	£14
Stylus 440/640	(20187/20191) £15	£16
Stylus 740	(20189/20191) £16	£16
Stylus 1500	(20062/20049) £32	£18
Stylus 3000	(20118/C130/M126/Y122) £34	£38
Stylus 5000 Pro.	(20118/C147/M143) £34	£38

### EPSON INKJET PAPER MEDIA

A6 Photo Glossy Film	(10) (S041107)	£3
A6 Photo Inkjet Card	(50) (S041054)	£6
A6 Photo Sticker Paper	(5) (S041144)	£4
4" x 6" Photo Paper	(20) (S041134)	£5
5" x 8" Photo Inkjet Card	(30) (S041121)	£5
8" x 10" Photo Inkjet Card	(30) (S041122)	£12
A4 Photo Adhesive Paper	(10) (S041106)	£8
A4 Glossy	(15) (S041071)	£20
A4 Photo Glossy	(20) (S041126)	£6
A4 Photo Paper	(20) (S041140)	£8
A4 720/1440 Dpi	(100) (S041061)	£9
A4 360 Dpi	(100) (S041059)	£7
A4 Iron on Transfer	(10) (SE41001)	£11
A4 Transparency	(30) (S041063)	£32
A3 Glossy	(10) (S041073)	£36
A3 Photo Glossy	(20) (S041125)	£16
A3 Photo Paper	(20) (S041142)	£19
A3 720/1440 Dpi	(100) (S041068)	£25
A3 360 Dpi	(100) (S041065)	£17
Super A3 Glossy	(10) (S041074)	£45
Super A3 720/1440 Dpi	(100) (S041069)	£27
Super A3 360 Dpi	(100) (S041066)	£20
A3+ Photo Glossy	(20) (S041133)	£18
A3+ Photo Paper	(20) (S041143)	£23
A2 Photo Glossy	(20) (S041123)	£32
A2 720/1440 Dpi	(30) (S041079)	£22
A2 360 Dpi	(30) (S041078)	£17
A2 Panoramic Photo	(10) (S041145)	£11
13"x19" Iron Transfer	(10) (SE41003)	£69

HP INK CARTRIDGES	Black	Colour
HP Deskjet Portable	(51633/25) £14	£17
HP D/Jet 500 Series	(51626/25) £16	£17

### HP DESKJET 500 SERIES BLACK

3 x 26A Ink Cart @ **£15.65** **£46.95**

HP D/Jet 600 Series	(51629/49) £16	£17
HP D/Jet 690 Photo Cart.	(C1816A) £23	
HP 820/50/70/1100	(51645A/41A) £17	£18
HP 720/890/1120	(51645A/C1823A) £17	£21
HP Deskjet 1200	(51640A/40C/C/M) £18	£19
HP Deskjet 1600	(51645A/40C/C/M) £17	£19
HP D/Jet 2000	(C4844/41C/42Y/43M) £24	£24
HP PhotoSmart Printer	(C3844/45A) £26	
HP P/Jet XL300	(51639A/39 C/M) £15	£17



### HP A4 INKJET PAPER MEDIA

HP Premium Inkjet Paper (200)	(51634Z) £12
HP Premium Glossy Paper (10)	(3831A) £17
HP Premium Heavy Weight (100)	(1853A) £11
HP Premium Glossy	(50) (3837A) £30
HP Premium Photo	(15) (6040A) £7
HP BrightWhite Inkjet	(200) (5977A) £5
HP Bright White Paper	(500) (1825A) £9
HP Photo Paper (Deskjet 690)	(20) (1847A) £7
HP Deluxe Photo Paper (900C/20)	(6057A) £10
HP Banner Paper. 90g/2Fold (100)	(1821A) £8
HP Greeting Card A4.	(20) (6042A) £6
HP Premium Transparency (20)	(3832A) £13
HP Premium Transparency (50)	(3835A) £27
HP Iron-On T-Shirt Media	(10) (6050A) £11

Apple Stylewriter I/II	Black	Colour
Apple Stylewriter I/II (APM8041G)	£14	
Brother HJ100/400	(BRN110) £21	
Brother HJ770	(BRN20) £16	
Brother M3000/MFC700	(LCO1) £13	C/M/Y £5
Kodak Diconix 150/180/330C	£10	£15
Lexmark Writrwriter150	(1380620/19) £21	£25
Lexmark PS4079	(1380490/1C/2Y/3M) £15	£20
Lexmark 1020/2030	(1380620/19) £21	£25
Lexmark 2050/2070	(1380505/0) £24	£26
Lexmark 5000/7000	(12A1970/80) £19	£23
Olivetti JP50/70/90	£24	
Olivetti JP50/70/90Head+3Refills	£28	
Olivetti JP150/170/350 Series	£19	
Olivetti JP170/190/360/450	£19	£29
Olivetti JP150 Head+4 Ink Tanks	£39	
Olivetti JP790 High Resolution Block	£25	£36
Olivetti JP790 Printhead+1Refill	£32	£42
Olivetti JP790 Refills (2's)	£15	£21
Xerox J14C/J16C Work Home Centre	£12	C/M/Y £12
Xerox 3006	(8R7638) £46	

### MISC. LASER/INKJET

Copy Speed Paper (80gsm) (2500)	£20
PuJet Paper (90gsm) (500)	£6
Matchmaker Paper (100gsm) (500)	£9
Business Cards White or Ivory (350's)	£7
3M Laser Film Unbacked (50)	(CG3300) £12
3M Laser Film Paper Backed (50)	(CG3360) £14
HP Laser Transparency (50)	(92296U) £13
<b>PHOTO INKJET PAPER 15's</b>	50's
Kodak A4 Letter Weight Paper	£9
Kodak A4 Photo Weight Paper	£9
Kodak A3 Photo Weight Paper	£38
<b>3M INKJET TRANSPARENCY (A4)</b>	
3M Films Epson/Canon Colour (50)	(CG3410) £20
3M Films HP Deskjet/Printjet (50)	(CG3460) £24
3M Films Canon/Dec/Epson/HP (50)	(CG3480) £24

## LASER PRINTER • TONERS • DRUMS • PHOTOCONDUCTORS • DEVELOPERS • FUSERS

Photoconductor Unit / **Fuser Units	TONER DRUM
Apple Laserwriter Select 300/310/360	(M1960G/A) £75
Apple Personal Laserwriter NT/NTR/SC	(M0089U) £66
Apple Personal Laserwriter 300/320	(M2045U/A) £58
Brother HL630/660/FAX5000P/6000	(TNDVDR100) £19
Brother HL730/760/FAX8000P/9000	(TNDR200) £18
Brother HL820/1050/1060	(TNDR300) £19
Brother HL1260/1660	(EP CARTRIDGE) £78
Brother HL2400 Colour Laser	(TND1 BLACK) £86
Canon CLBP 360PS Colour Laser	(EPH-BLACK) £59
Canon LBP2460	(EPW) £109
DataProducts LZR 650/900/960/965	£32
Epson GQ3500/GQ5000	(RICOH 6000) (5760/5793) £16
Epson EPL3000	(S051020) £73
Epson EPL4000/4100/4300	(S051020/51005) £85
Epson EPL5000/5100/5200	(S051011) £92
Epson EPL5500	(S050005/51029) £28
Epson EPL5600/EPL-N1200	(S051016) £68
Epson EPL-N2000	(S051035) £140
Epson EPL5700	(S051010/51055) £58
Epson EPL7100/7500/8000/8100	(S051009) £131
Epson EPL9000 / 9100	(S051022) £149
Fujitsu VM800 Process Cartridge	£122

Photoconductor Unit / **Fuser Units	TONER DRUM
HP Laserjet II / IID / III / IIID	(92295A) £42
HP Laserjet IIP / IIIP	(92275A) £49
HP Laserjet 4L / 4ML / 4P / 4MP	(92274A) £39
HP Laserjet 5L/6L/3100	(C3906A) £36
HP Laserjet 1100/1100A	(C4092A) £36
HP Laserjet 5P / 5MP / 6P / 6MP	(C3903A) £45
HP Laserjet 4/4M/4+ / 5/5N/5M	Standard (92298A) £54
HP Laserjet 4/4M/4+ / 5/5N/5M	High Cap. (92298B) £60
HP Laserjet III/IIIi / 4Si	(92291A) £62
HP Laserjet 4V / 4MV	(C3900A) £79
HP Laserjet 5Si	(C3904A) £95
HP Laserjet 4000 Series	Standard (C4127A) £59
HP Laserjet 4000 Series	High Cap. (C4127X) £85
HP Laserjet 5000 Series	High Cap. (C4129X) £109
HP Color Laserjet 5	Black (C3105A)/C02/Y03/M04A £5
IBM 4019/28/29/WinterWriter 600	(High Yield-1380520) £145
IBM 4039 / 3916	(High Yield-1380950) £149
IBM Lexmark Optra/L/4039	(High Yield-1382150) £155
IBM Lexmark Optra N	(High Yield-1382140) £145
Kodak Ektaplug 7008	£20
Kodak Ektaplug 7016	£89
Kyocera FS1550 / 1600	(TK12) £36

Photoconductor Unit / **Fuser Units	TONER DRUM
Mannesmann Tally MT904/908	(Pack of 2) £18
Mannesmann Tally MT905 or MT906	(Pack of 2) £18
Nec Silentwriter S60P/S62P/S102P	£119
Nec SuperScript S5610	£84
Oki Okipage 4W	(5089/5096) £18
Oki OL100/400/800/30/40/50/70	(4452/4459) £20
Oki Laser OL400E / 410E-EX	(4851/4858) £15
Olivetti PG306/308/404+/408+	(823762/82377/82505*) £24
Panasonic KXP4400/4401/5400	(KXP455/PDM2) £10
Panasonic KXP4420	(KXP451/PDM2) £25
Panasonic KXP4410/4430/4440	(KXP453/PDM5) £24
Panasonic KXP4450/4451/4455	(KXP450/PDM1) £20
Panasonic KXP6100/6150	(KXP457/PEP3) £12
Panasonic KXP6300/6500	(KXP459/PEP5) £12
Panasonic KXP7200	(PEP6) £145
Ricoh PC 6000 / Oki Laserline 6	(6000T/C/6000OPC) £12
Ricoh LP1200	(G728-05/1200DR) £85
Sharp JX9200/9210	(JX927C/20DR) £39
Sharp JX9400/9460/9600/9660	(JX96DC/DR) £69
Star JX9500	(JX95TC/95DR) £32
Star WinType 4000 EPX-B	(S78739A/430) £68
Texas Instruments MicroLaser	(2559879/81) £32

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3M TR2 Traven 800Mb	£22	£107
3M TR3 Traven 1.6Gb	£17	£83
3M TR4 Traven 4Gb	£20	£97
3M TR5 Traven 5Gb	£20	£97
3M TR NS8 Traven 8Gb	£23	£112
3M TR NS20 Traven20Gb	£28	£135
HP TR5 Traven 5000Mb	£21	£102

### SONY Q-Wide Cartridges

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SONY QW3000XL 1.0Gb	£15	£73
SONY QW3010XLF 850Mb	£16	£78
SONY QW3020XLF 1.7Gb	£18	£87
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3M D4/60M 4mm DDS1	£3.95	£19
3M D8/112M 8mm	£3.50	£17

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SONY DG4/120M DDS2 (4GB)	£7	£34
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HP 120M 4mm DDS2 (92300A)	£11	£50
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- \*PC-Bus Card Cage.
- \*Passive backplane for Pentium Plug-in CPU Cards.
- \*Rack Mountable Monitor.
- \*PC Peripherals.
- \*Data Acquisition Cards.
- \*Digital I/O Cards.
- \*D/A Output Cards.
- \*Timer/Counter Card.
- \*RS-232/422/485 Interface.
- \*Relay Output Card.
- \*Stepping Motor Controller Cards.
- \*Signal Conditioning.
- \*Wiring Accessories.
- \*Application Software.

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6 Slot Wallmount IPC Chassis (full length) **£222**



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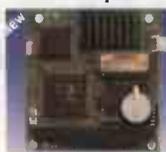




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- Isolated Digital I/O Module **£82**
- Relay Output Module **£82**
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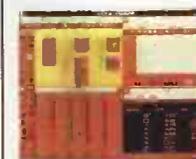
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- Prosignia 200 Series.
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- Deskpro XL 610x & 6200 Series. Proliant 800, 850 /R, 2500 /R, 5000 /R & 6000 Series.
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- P5 300x Series. P5 300x /M Series.

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HL-10DPS, 10DV, 10PS, 10V.	£39	£76	£89	£117	£132	£153
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HL- 760, 1660, 960, 1260.	£17	£17	£32	£32	£32	£32
WL- 660.	3.5MB	£27				

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LBP- 430, 8IV, 41 /U.	£20	£20	£20	£20	£20	£20
LBP- 8II, /PLUS, /R.	£39	£57	£84	£117	£132	£153
LaserJet 4, 5, 6 Series.	£20	£32	£62			
LaserJet Iix & Ilix Series.	£53	£80				
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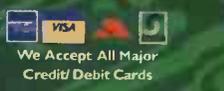
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ThinkPad 770, 600 Series		£39	£76	£151	
ThinkPad 820 Series	£39	£55			
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A65 - PII 300, 64MB, 6.4GB, 14.1" TFT £2829 (3324.08)  
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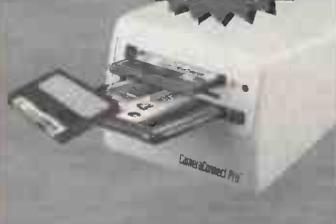
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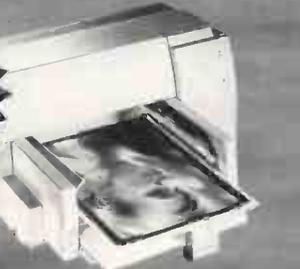


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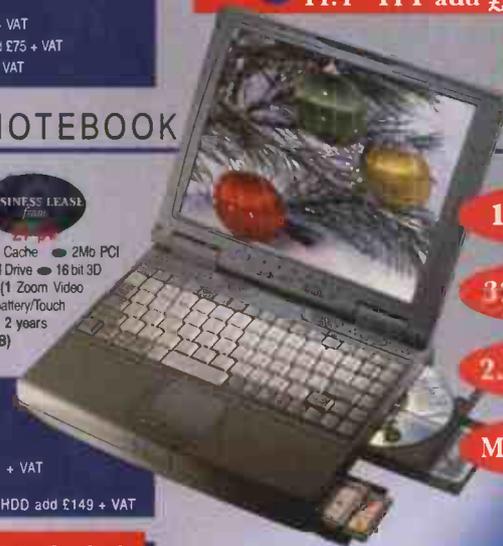
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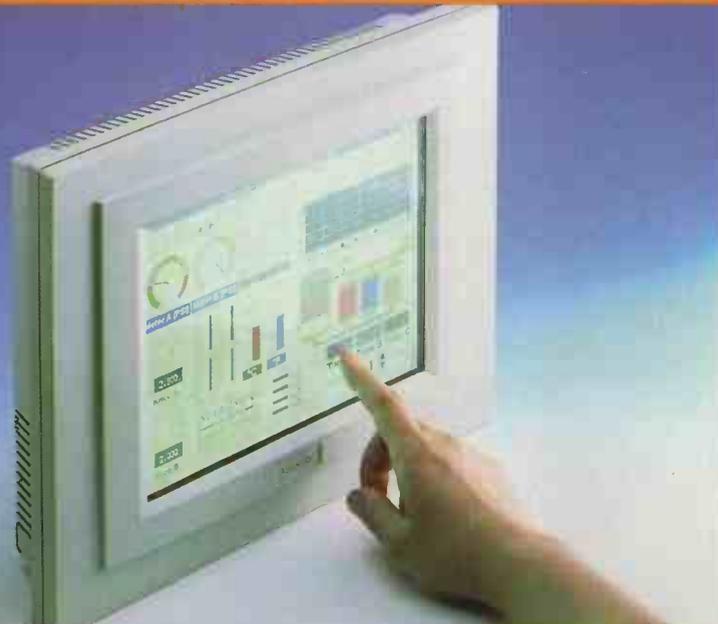
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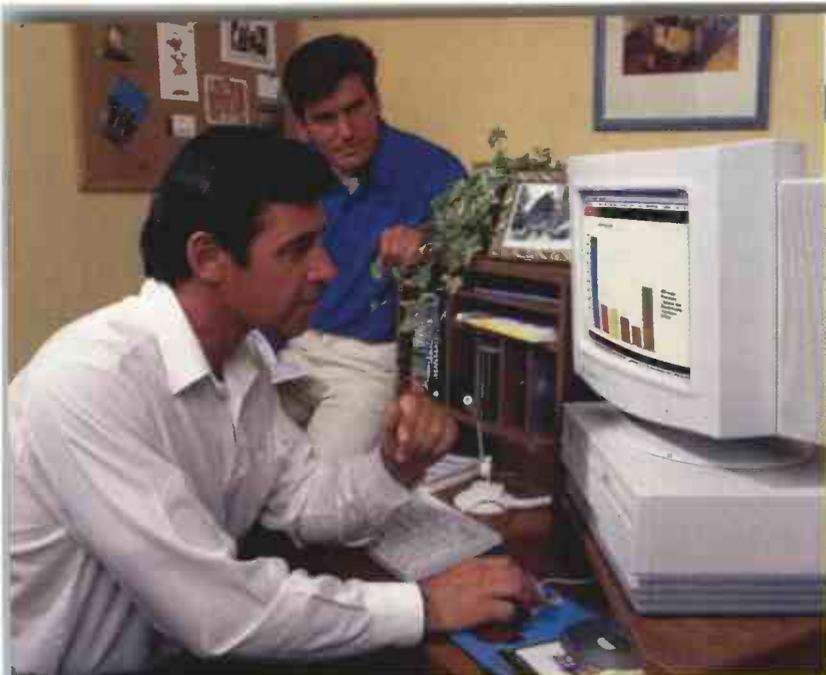


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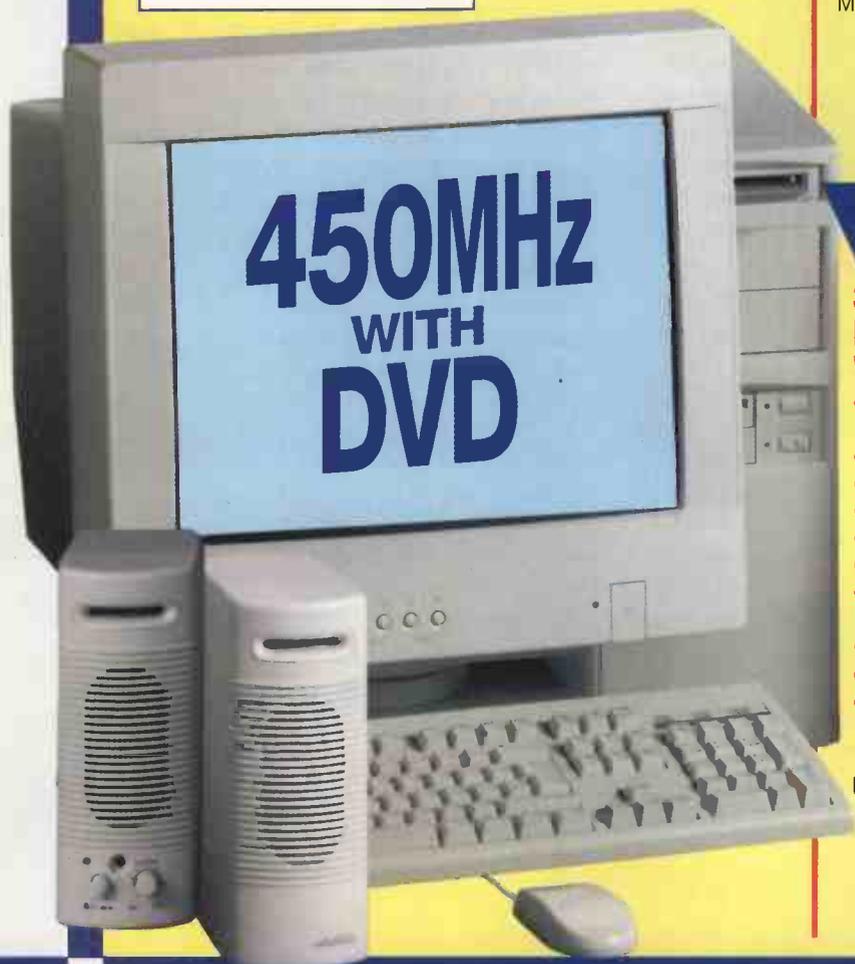
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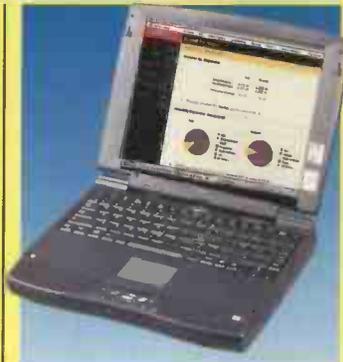
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- 3.2Gb Hard Disk Drive
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- Month-at-a-glance
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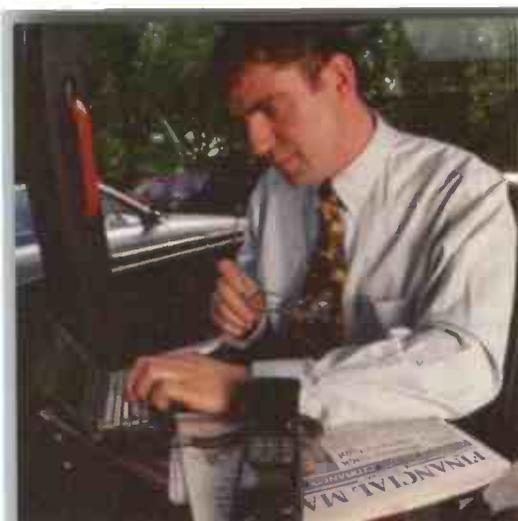
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- 4.5 ppm (mono)
- 2.5 ppm (colour)

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### Canon BJC4300 Scan

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- Transforms printer to scanner

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£149<sup>INC. VAT +DEL.</sup>

### Olivetti JP192

- Colour Inkjet printer
- 600 x 300 dpi

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£69.99<sup>INC. VAT +DEL.</sup>

### Canon BJC250

- Colour Bubblejet printer
- 720 x 360 dpi (mono)
- 360 x 360 dpi (colour)

£71<sup>EX VAT</sup>  
£83.42<sup>INC. VAT +DEL.</sup>

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- 600 x 600 dpi
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- 1.5 ppm (colour)

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£98.88<sup>INC. VAT +DEL.</sup>

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- 600 dpi (mono)
- 600 x 300 dpi (colour)

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- 3.5 ppm (colour)

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- Colour Inkjet printer
- 600 dpi (mono)
- 6ppm (mono), 3ppm (colour)

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- 8ppm (mono), 4ppm (colour)

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- 8 pages per minute (mono)
- 4 pages per minute (colour)

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### Canon BJC50

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- Perfect for travelling

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- 8.5 pages per minute (colour)

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- 2 x optical zoom equivalent 29-58mm in 35mm
- 8Mb Compact Flash card
- AC adapter

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- 2Mb Smart media card
- Stores up to 30 images
- 2" colour LCD monitor

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### Fuji DX-8

- 640 x 480 resolution
- 2Mb Smart media card
- 1.8" LCD colour monitor
- Automatic flash
- Data transfer software

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- DigiCam with Video Clip
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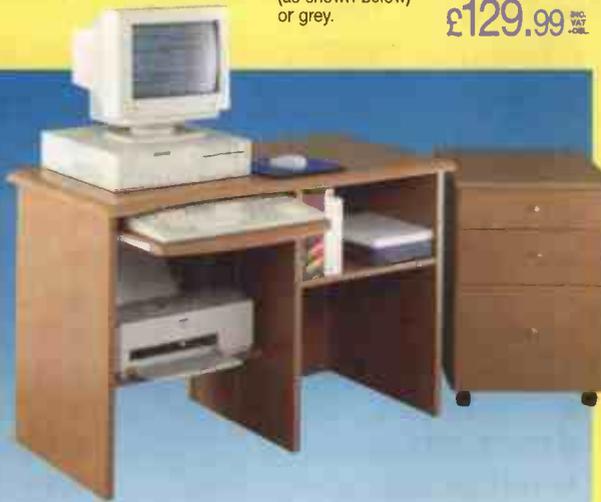
- H: 770mm
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- Wght: 31.50kg

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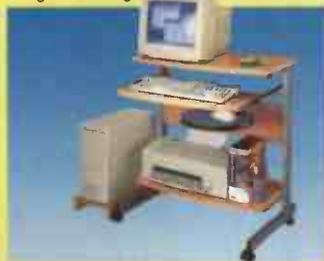


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The latest Tiny Family Bonus system isn't simply a super high-spec PC.

It also brings you the magic of digital photography. The highly acclaimed Fuji digital camera simply links to your PC to produce full screen colour images which you can run-off on your computer printer. Better still the special image editing software allows you to change colours and alter digital photos to your heart's content.

And now we even include a flatbed colour scanner so you can scan in and play with existing photographs, magazine pictures or any image you want. See this exclusive Tiny offer at your nearest showroom.



**PAY NOTHING FOR 12 MONTHS**

**£999** ex VAT **£1173.83** inc VAT†



Includes joystick



Includes scanner



Includes printer

**NOTHING TO PAY FOR 12 MONTHS**  
**0% Interest Free Credit 26.9% APR**

REPAYMENT EXAMPLE - FAMILY BONUS SYSTEM

PC cash price £1209.08 (inc delivery £30+VAT @ 17.5%). Pay whole balance on or before due payment date interest free. Alternatively, pay 36 monthly payments of £59.05. Total amount payable £2125.80. APR 26.9%. Interest is calculated from day one of agreement. Written quotations upon request. Finance subject to status.

### FUJI DX8 DIGITAL CAMERA

"All in all, if you want to explore digital photography, this is a neat camera at a very good price, certainly much better than the competition"  
 Computer Active, October 98



**THINK BIG ABOUT YOUR PC, THINK TINY**

# GRAPHICS SO REAL YOU'LL FEEL PART OF THE ACTION

## HOME ENTERTAINMENT SYSTEM

Intel® Pentium® II Processor 350MHz
512K CPU Cache
128MB FAST SD RAM 100MHz (expandable to 512MB)
8.4GB Ultra DMA IDE Hard Disk Drive (2 x Transfer Rate)
17" SVGA Colour Monitor
8MB AGP 3D Accelerated Graphics Card
DVD ROM Drive (compatible with CD) & DVD Software including <b>101 Dalmatians DVD movie</b>
Creative Labs Soundblaster 64 Wavetable Sound
500Watt PMPO Sub Woofer & 2 Satellite Speakers
Epson Stylus 300 Colour Printer
Flatbed Colour Scanner
Cockpit Pro Steering Wheel
Voice Fax/Modem v.90 56Kbps
Free Trial BT LineOne Internet Access
TV Tuner with Teletext
New PS2 Instant Access Keyboard
Over £830 of Microsoft® and other Software
Windows® 98

Sit back and enjoy this feature-rich PC incorporating the latest DVD technology, the ultimate in real-life sound and vision. Plus TV tuner & Cockpit Pro Steering Wheel.



**£1199** ex VAT  
**£1408.83** inc VAT†



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NOTHING FOR  
12 MONTHS**



Includes cockpit pro



Includes scanner



Includes printer

# THE MOST POWERFUL PC EVER FROM TINY

The highest specification available on the high street today...complete with Intel® Pentium® II Processor 450 MHz, 10GB hard disk drive and a fantastic range of quality software.

## ULTRA PERFORMANCE SYSTEM

Intel® Pentium® II Processor 450MHz
512K CPU Cache
128MB FAST SD RAM 100MHz (expandable to 512MB)
10GB Ultra DMA IDE Hard Disk Drive (2 x Transfer Rate)
19" SVGA Colour Monitor
16MB 128bit AGP 3DFX Voodoo Banshee Graphics Card
DVD ROM Drive (compatible with CD) & DVD Software
Creative Labs Soundblaster 64 Wavetable Sound
500Watt PMPO Sub Woofer & 2 Satellite Speakers
Cockpit Pro Steering Wheel
Voice Fax/Modem v.90 56Kbps
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New PS2 Instant Access Keyboard
Over £880 of Microsoft® and other Software
Windows® 98



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12 MONTHS**



Includes TV tuner



Includes cockpit pro

Prices exclude delivery

**FREEPHONE 0800 731 3476 FOR DETAILS**

# the **TINY** comfort zone

Year 2000 Compliant. All Tiny PCs are compatible with present and future software and hardware.



Not all PCs are...  
be sure to check.

We pre-load all your software for you. And we always include back-up disks completely FREE.



You can pay up to £175 extra elsewhere.

All Tiny systems are covered by a 12 month parts and labour warranty with FREE collect and return.



Others make you return your PC to the showroom and charge up to £60 for return carriage.

Tiny Premier Care extended warranties include 8 hours on-site response, comprehensive insurance cover and special discounts on add-ons and upgrades.



Others will charge you more or give you less.

We provide printer cables, mouse-mat, Microsoft Intellimouse and Hotkey Keyboard FREE\*.



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Every Tiny PC comes with a FREE System Restorer Pack that recovers your operating system in the event of a crash.



Others make you return your PC to the store for reconfiguration and charge you extra for it.

\* Not available with Home Starter System



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At Tiny the PCs we make, we sell in our own showrooms. So we guarantee to bring you the latest PC technology fastest to the High Street...at direct from the factory prices.



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(Finance subject to status)

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Best value PC for starters. You get so much more for your money with a Tiny Home Budget system. Prices start from as low as £599, and thanks to the Tiny Comfort Zone you can be sure that you're getting everything you need. The Home Budget System even includes an Intel® Celeron™ Processor 333 MHz, Voice Fax/Modem v.90 56Kbps, Epson Stylus 300 colour printer and over £730 of Microsoft® and Other Software.



Includes joystick



Includes printer

**£799** ex VAT  
**£938.83** inc VAT†

# THINK BIG ABOUT YOUR PC, THINK TINY

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WHEN COMPARING LIKE FOR LIKE**

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from the people who don't make televisions

By focusing purely on mobile technology, our portfolio of notebooks and associated peripherals is, by any standard, outstanding. We work with the best names in the business to bring you proven products at exceptional prices. Our reputation has been built over ten years supplying the largest corporates to executives on the move.

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Call today.

## PICO PLATINUM RANGE



Simple plug n' play PCMCIA Type II technology from PICO

MODEL	PRICE
PICO 33.6K Fax/Data modem	£79
PICO 56.6K Fax/Data modem	£119
PICO 10Mbps Ethernet combo card	£49
PICO 100Mbps Ethernet card	£69
PICO ISDN card	£149
PICO 56K Fax/Data modem & ISDN	£299
PICO Ethernet/56K Fax/Data modem	£229

## CE PERIPHERALS

MODEL	PRICE
ERICSSON DI27 Infra-red modem	£99
PSION Series 5 8MB with PsiWin (not CE)	£309
PSION Series 3MX	£215
PICO CE Modem 33.6 + GSM upgrade option	£129
Mail-on-the-Run	£99
Send/receive e-mail remotely by cable or modem	
AA World Travel Companion	£24
Everything about the world's 22 most visited cities	
Noteable Dates and Events 1998	£12
On Schedule for Windows CE	£39
Contact and information manager	
IntelliSync for CE	£79
Backgammon & Chinese Chess	£49
Parallel printer adaptor	£49
Socket low power Ethernet	£119
Socket low power Bar Code Wand	£249
Win CE Zip case	£25
Act for CE	£39



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## OPTION GSM Cellular + PSTN

Works with Nokia, Ericsson, Panasonic, Sony and Siemens handsets.



- Choice of handset
- 33.6 or 56.6
- GSM or PSTN
- Supports SMS
- Internal line interface
- GSM speeds upto 9600
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**FirstFone** - incorporates GSM mobile phone and data modem in one PC Card.

- Send data, faxes, SMS, email from any notebook or PDA
- Make phone calls via the use of a headset
- No external power supply
- Type II PC Card

MODEL	PRICE
GSM+ 56.6	£229
GSM+ 33.6	£194
GSM ONLY	£119
FirstFone	£299

## SIMPLE COMPACT FLASH



Works with Psion Series 5, HP 300/320LX, all CE machines (except Philips Velo) and most digital cameras. No battery required.

MODEL	PRICE
4MB Compact Flash	£39
8MB Compact Flash	£42
12MB Compact Flash	£52
16MB Compact Flash	£62
32MB Compact Flash	£99
48MB Compact Flash	£139
Card Reader	£79

For ACT! for CE software add £10 to CF prices

## PC CARDS

MODEL	PRICE
Argosy CD-ROM	
8 Speed	£79
10 Speed	£99
Game Card Joystick	£45
Actiontec SCSI	£89
Option 56.6 Fax/Data modem	£139
Socket Serial Card	£129
Greycell V.34 + Ethernet	£159
IBM 3270 Card	£195

## HOW TO ORDER

1. Call us on 01483 402 111
2. Fax us on 01483 402 112
3. Send your cheque/postal order or credit card details to the address opposite. Note that your credit card will not be debited until goods are despatched
4. Visit our showroom and see the entire range in action
5. Send or call for our free product and PCMCIA directory.

All prices quoted exclude VAT. Delivery charges - next day £10, 2-3 day £8, notebooks £15. We accept VISA MASTERCARD SWITCH AMEX

**CTX**

**BEST VALUE  
ULTRA  
PORTABLE**

The 5 data & video projectors in the CTX range only weigh 4.5Kg to 5.4Kg offering the simplest solution for the travelling executive and mobile presenter. They project at a brightness of 350-550 ANSI lumens for 'Lights On' presentations producing a 2 metre image at 2 metres distance. CTX EzShow projectors provide great resolutions & high definition images. The units will arrive 'ready-to-go' with hard carry case and a fully featured remote control.



MODEL				PRICE
<b>CTX 500</b>	(VGA)	350ANSI	4.5Kg	<b>£995</b>
<b>CTX 550</b>	(SVGA)	350ANSI	4.5Kg	<b>£1350</b>
<b>CTX 500M</b>	(SVGA)	350ANSI	4.5Kg	<b>£1600</b>
<b>CTX 600</b>	(SVGA)	550ANSI	5.4Kg	<b>£2295</b>
<b>CTX 680</b>	(XGA)	550ANSI	5.4Kg	<b>£3285</b>

**EPSON**

**EPSON  
QUALITY**

Epson offer a complete range of quality projectors - the new EMP5100 has an amazing brightness of 750 ANSI Lumens and can compress to 1024x768. The EMP7100 has true 1024 x 768 resolution providing high quality images at 650 ANSI lumens.



MODEL				PRICE
<b>EMP 5100</b>	(SVGA)	750ANSI	5Kg	<b>£3385</b>
<b>EMP 7100</b>	(XGA)	650ANSI	5Kg	<b>£4195</b>
<b>EMP 7300</b>	(XGA)	1200ANSI	5Kg	<b>£6995</b>

**ASK**

**NEW  
STAR BUY  
3.5Kg**

The **A4 Compact** is the ultimate in portable solutions. This projector weighs only 3.5kg. 650 ANSI lumens give excellent picture quality even in brightly lit rooms. Digital zoom controls, split screen and PC mouse control makes this by far this months 'STAR BUY'



MODEL				PRICE
<b>ASK A4 COMPACT</b>	(SVGA)	650ANSI	3.5Kg	<b>£3550</b>
<b>ASK A4+</b>	(SVGA)	750ANSI	5Kg	<b>£3295</b>
<b>ASK A6+</b>	(XGA)	650ANSI	5Kg	<b>£4295</b>
<b>ASK A10</b>	(XGA)	1200ANSI	5Kg	<b>£6800</b>

**PICO HIRE**

PROJECTOR HIRE  
From as little as £75 per day

Up to 1 week of hire charges fully refundable against any projector purchase - The ultimate in try before you buy

**HITACHI**

**ULTRA  
PORTABLE**

The CP-S830 (800 x 600res.) portable projector does not sacrifice the features necessary for use in wide ranging presentation situations. This projector will astound and add to every corporate training session or presentation



MODEL				PRICE
<b>CPL 850</b>	(SVGA)	650ANSI	7.5Kg	<b>£2450</b>
<b>CPL 950</b>	(XGA)	650ANSI	7.5Kg	<b>£3375</b>
<b>CPL 830</b>	(SVGA)	500ANSI	5Kg	<b>£2245</b>

**PANASONIC**

**BEST  
VALUE  
DESKTOP**

True SVGA/XGA quality projection. 650ANSI lumens with digital zoom and new lens shift capability. This projector offers vivid reproduction of all your computer and video graphics



MODEL				PRICE
<b>L595</b>	(SVGA)	700ANSI	8.5Kg	<b>NEW £2600</b>
<b>L795</b>	(XGA)	650ANSI	8.5Kg	<b>NEW £3700</b>

**INFOCUS**

**EDITOR'S  
CHOICE**

The Infocus 725 is very portable at only 5kg. It has all the features for the future with 750 ANSI Lumens and true 800x600 resolution and the facility to compress to 1024x768 resolution. July 97 Editor's Choice PC Magazine.



MODEL				PRICE
<b>INFOCUS 725</b>	(SVGA)	750ANSI	5Kg	<b>£3475</b>
<b>INFOCUS 735</b>	(XGA)	650ANSI	5Kg	<b>£4545</b>
<b>INFOCUS 425</b>	(SVGA)	500ANSI	3.1Kg	<b>£3195</b>

**NEC**

**200:1  
Contrast  
Ratio**

The NEC MT820 and MT1020 LCD projectors provide highly portable display solutions, sophisticated images and customizable controls, with high brightness.



MODEL				PRICE
<b>MT 820</b>	(SVGA)	750ANSI	7Kg	<b>£2995</b>
<b>MT 1020</b>	(XGA)	650ANSI	7Kg	<b>£3995</b>
<b>LT80</b>	(SVGA)	600ANSI	4.5Kg	<b>£2995</b>

**7 DAY MONEY BACK GUARANTEE  
ON SELECTED MODELS**

**NEW!**



**3 year support plan including 1st year on-site.**

**PICO MINI-NOTE**

- Intel Tillamook TCP 200Mhz /266Mhz with MMX
- 2.5" 2.1Gb Hard Disk
- 32Mb SDRAM/64Mb Optional
- 10.4" TFT (800x600) screen
- Carry case & world-wide mains battery charger
- 512k cache & 2Mb Graphics card
- 1 USB Port & optional CD-ROM (£109.00)

MODEL	PROCESSOR	PRICE
980-233	INTEL P-233	£899
980-266	INTEL P-266	£999

**SHARP HC4000 & HC-4500A with windows CE (V.2)**

Sharp's unique image editor allows you to draw and edit image files as well as capture images from the internet or with the optional digital camera card.

**SPECIAL OFFER HC-4000A Mono £189**



- 7 one-touch application keys
- 640x240 touch screen LCD
- Colour VGA screen
- Image editor.
- Create/edit images.
- Voice recorder
- Multimedia E-mail
- Seamless connectivity
- PC Card slot Type II
- CE Windows Version 2
- Optional docking station

MODEL	PRICE
HC-4500A Colour Screen	£449
HC-4000A Mono Screen	£189
Digital Camera	£275

**HP COLOUR 620LX with windows CE (V.2)**

Built on the features of the HP 360LX. A bright, 256-colour display delivers unmatched readability. The optional VGA-out PC card lets you give full colour PowerPoint presentations using any standard VGA monitor or projector. With instant voice recording you can document ideas. Complete with Word, Excel and other CE applications.



**620LX 16MBFLASH £639**

- 640x240 LCD, 256 colour Backlit, Auto dimming
- 16MB RAM, 75Mhz CPU
- 1 x PC Card Type II, Compact Flash
- Dimensions 7.8 x 4.1 x 1.4"
- Lithium-ion rechargeable battery pack
- 1 x RS232C, 1 x IrDA. Includes

MODEL	PRICE
620LX	£479
360LX	£339

Optional VGA Card £89 • Compact Flash PC Card Reader £79 • Leather Case £49 • 3 Year Warranty £66 • Chess £49

**CASSIOPEIA E-10**

The Cassiopeia enables you to carry all your Personal Information Management (PIM) data; contact, schedules, and tasks wherever you are. The ActiveSync technology will automatically update the information when connected to your desktop PC. The E-10 allows you to stay in touch away from your desktop PC through both sending and receiving e-mail messages.



- MS Windows CE V2.1
- Monochrome FSTN screen
- EL backlit screen
- 4MB RAM
- RS232C serial port
- Optional Compact Flash card
- Weight: 156g
- E-mail, voice recorder, contacts, tasks and schedules

MODEL	PRICE
CASSIOPEIA	£219

**COMPAQ C-SERIES with windows CE (V.2)**

- C-Series 810; 8MB, 16MB ROM, 33.6Kbps soft modem, 640x240 resolution mono display, AC Adaptor
- C-Series 810C; Same as 810 but with 256 colour full time back light display rechargeable NiMH battery
- C-Series 2010C; Same as 810C But with 20MB RAM and convenience cradle and desk stylus bundle in.
- Integrated 33.6Kbps modem
- Type II PC Card slot
- Voice memo recording/ playback
- Integrated flash memory, Pocket Asset manager, Encrypted password and great software bundle



MODEL	PRICE
810	£359
810C	£429
2010C	£489

4 MB memory expansion £24 • 16Mb memory expansion £75  
Ask for ATA Flash Prices

**3COM PALM PILOT (not CE)**

Stores thousands of addresses, phone and fax numbers, hundreds of To-Do lists and personal notes and dozens of e-mail messages. The backlit screen lets you see it all easily.

- Seamless synchronisation with a desktop
- Find information instantly
- Long battery life
- Intuitive easy-to-use interface with accurate pen recognition
- Optional SnapOn GSM adaptor enables you to update your schedule, access your e-mail and synchronise all your data wherever you are

MODEL	PRICE
Professional	£159
Personal	£109
PalmPilotIII	£229
IBM WorkPad with Lotus Notes	£234

Slim Leather Case £17 • Delux Leather Case £49 • GSM Modem £99  
PSTN Modem £79



**PICO WARRANTY**

- Lifetime telephone support
- Inclusive 3 year support plan
  - 1st year full parts and labour
  - 2nd and 3rd year labour free
- Optional 2nd & 3rd year full parts and labour
  - Insurance backed cover arranged in association with CPU Finance Ltd.
  - £70/year
- Diamond 12 months ON SITE warranty
  - Engineer callout within 48 hours
  - 2nd year Diamond Warranty. On-site call out with parts and labour £110
  - 3rd year On Site £110

**PICO INSURANCE**

Providing quality products that are reliable backed by the best in-house technical support. To further enhance your protection we offer an All Risks insurance policy for total peace of mind. This policy covers loss and accidental damage anywhere in the world, has no excess and is underwritten by Royal Sun Alliance.

- 1st year - 4% of invoice value
- 2 years - 8% of invoice value
- 3 years - 10% of invoice value

**PICO PEDIGREE**

Part of the DIP Group of Companies, a multi million pound research and development IT Group established over 11 years. Products developed include the Atari Portfolio and Sharp 3000 PDA's

**PICO FINANCE**

PICO Direct is a licensed credit broker

- Company lease purchases
- 6 month interest free credit
- No deposit, nothing to pay for 6 months

APR 0% Interest Free if you repay before or with your 6th monthly repayment. Otherwise APR 27.5%. Typical example: Cash price £1200: Loan amount £1200. Either, settle in full by the 6th month, total payment £1200. Or pay nothing for 6 months and then make 36 monthly repayments of £47.46. Total amount repayable £1708.56 - APR 27.5%.

**PICO PORTFOLIO**

- PICO in mobile market for 11 years
- Designed and developed Atari Portfolio and Sharp PC3000
- Specialists. We know our products
- Match products to your requirements
- Software development for handheld corporate applications
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4. Visit our showroom and see the entire range in action
5. Send or call for our free product and PCMCIA directory.

All prices quoted exclude VAT. Delivery charges-next day £10, 2-3 day £8, notebooks £15. We accept VISA MASTERCARD SWITCH AMEX

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COMPUTER CO., LTD.**

# Empowers your PC



August  
1998



December  
1997\*



December  
1997



June  
1998



March  
1998\*



August  
1997



March  
1998



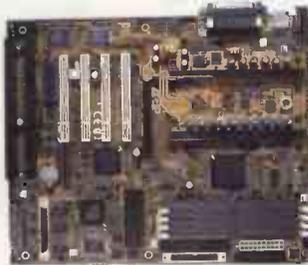
October  
1997

\* Awards won in conjunction with EveshamVale PC's

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## CT-6BDU

- Intel 440BX Chipset
- Supports up to Dual 450MHz Intel Pentium II
- Ultra2 SCSI with RAIDport III on-board
- AGP slot
- SeePU jumperless CPU setting
- Supports SDRAM up to 512MB
- Two USB ports on board
- 66/100MHz system clock speeds
- Supports 68/75/83/103/112MHz system clock speeds for CPU over-clocking possibility
- Supports SB-Link header for Creative PCI audio



## CT-6ESA

- Intel 440EX Chipset
- Supports up to 333MHz Intel P-II or Celeron
- AGP slot
- SeePU jumperless CPU setting
- Supports SDRAM up to 256MB
- Two USB ports on board
- Supports 68/75/83MHz system clock speeds for CPU over-clocking possibility
- On-board PCI stereo audio controller



## CT-6BTM

- Intel 440BX Chipset
- Supports up to 450MHz Intel Pentium II
- Also supports Intel Celeron 333MHz
- AGP slot
- SeePU jumperless CPU setting
- Supports SDRAM up to 512MB
- Two USB ports on board
- 66/100MHz system clock speeds
- Supports 68/75/83/103/112MHz system clock speeds for CPU over-clocking possibility
- Supports SB-Link header for Creative PCI audio



## CT-5AGM2

- Via MVP3 chipset
- Baby AT form factor
- Supports Intel MMX 233MHz
- Supports Cyrix/IBM upto 333MHz M-II CPU
- Supports IDT CPU Winchip2
- Supports AMD CPU upto K6-2 350MHz
- AGP Slot
- Supports SDRAM up to 384MB
- Dual Channel USB Header
- Supports 68/75/83/95/100 Mhz system clock speeds

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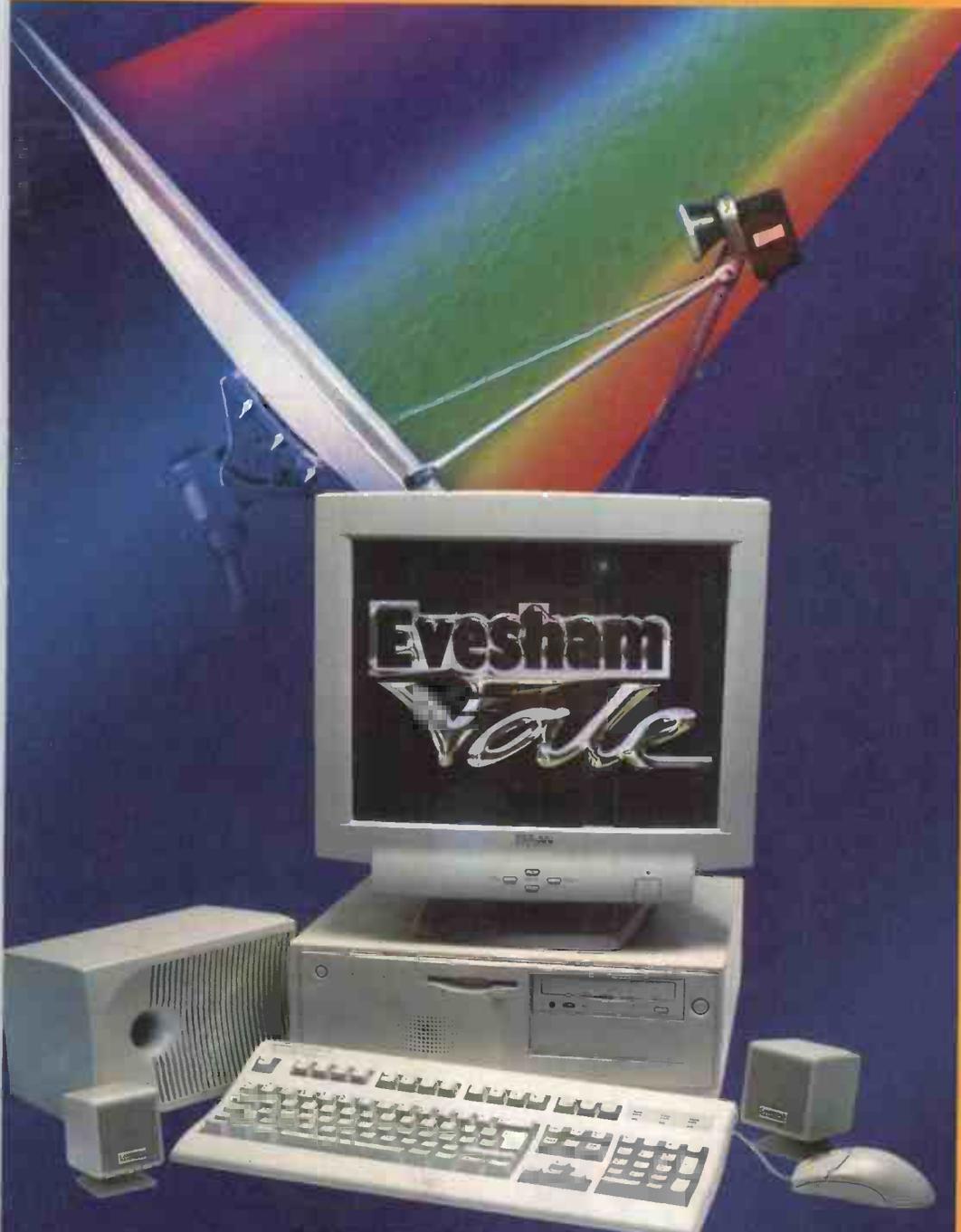
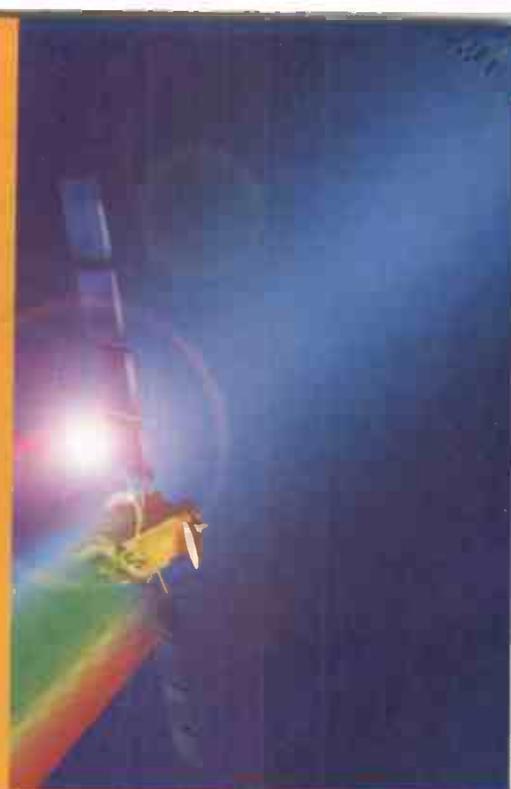
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**FREEPHONE DIRECT SALES**  
**0800 496 0800**  
 Web: <http://www.evesham.com>

# Evesham Micros

## The best service and support...

### On-site Warranty



Mike Morris is a member of Evesham Micros' own on-site support team.

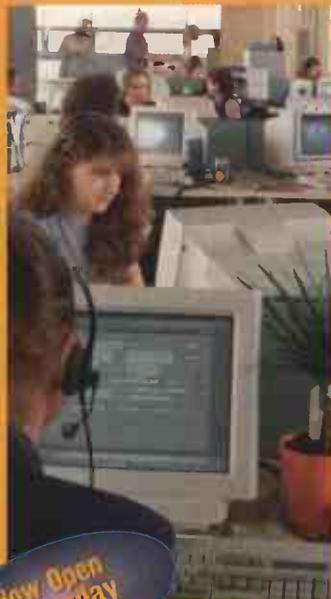
We know that if something goes wrong you need expert help and that you don't want the inconvenience of despatching your system back to the manufacturer. We have our own nationwide team of skilled engineers ready to support you. Such is our confidence in the quality of our systems that we are able to make this industry leading offer: Prestige and Platinum systems are now covered by two years parts and labour on-site warranty as standard. Fileservers and DesignStations come with three years cover. Compare this with our competitors – you could pay a lot of money for such peace of mind.

### 0800 Technical Support



Above: Our technical support department which now numbers over 30 strong.

### 0800 Business Sales



Evesham Micros are represented in the UK and Ireland by six major branches with showrooms, and a further Business Sales Centre at Glasgow. All of our branches have a Business Sales team with a wealth of experience and enthusiasm, and whether your needs are large or small they are ready to discuss your requirements and advise on the ideal solution. They also host a full compliment of installation and support staff; ready to commission and support even the most challenging system.

If your company has 10 or more PCs please call the Business Sales FREEPHONE number which will route you through to your nearest branch.

FREEPHONE BUSINESS SALES  
**0800 389 9393**

Left: Vanessa Fairs, Evesham Telesales.  
 Right: Our spacious new showroom, in Vale Park, Evesham

### New purpose-built Headquarters NOW OPEN



Above: Our purpose-built Headquarters at Vale Park, Evesham

### Flexible Personal Finance Options

Available with any purchase over £500. Credit available subject to status. Written details available on request.

**Buy now – pay June 1999**  
 (6 months interest free).

Buy any PC and you can defer payment for 6 months. How the scheme works: You enter a credit agreement at time of purchase, but pay nothing for 6 months. After this time you have the choice to either:

- Settle in full (at the original cash price – interest free)
- Start a 3 year repayment plan with 36 equal monthly payments – APR 24.9% (and you still pay no interest on the first 6 months).

**No deposit personal finance.**  
 Flexible credit agreement to spread payment over 12, 24 or 36 months. No deposit. APR 16.7%

#### Example

If you purchase a system for £1000 and, after 6 months, enter the 3 year repayment plan, you would pay 36 monthly payments of £38.46. Total amount payable would be £1384.56.  
(Example does not include delivery or payment protection)

Please note that actual products (including screen displays) may not exactly match the photographic representations. On-site warranty applies to UK mainland only. Industry standard practice is to quote a monitor's CRT size – the actual viewing area is approximately 1" less. Hard disk capacities are quoted in thousands of millions of bytes (as is industry standard practice). Bundled versions of video cards, sound cards and software are not full retail packs, and the software features on-line documentation. Occasionally we may supply vouchers for software titles which need to be redeemed with the manufacturers. Note that we are unable to offer a 14 day moneyback guarantee on any software, or on any special order item which is not featured in the advertisement. The Intel Inside logo, Pentium Processor logo, Pentium, MMX, and Celeron are trademarks of Intel Corporation. Microsoft is a registered trademark and the Office logo is a trademark of Microsoft Corporation. All other trademarks acknowledged. All orders are subject to Evesham Micros' standard Terms and Conditions of trading – those are available on request. E&OE



"Evesham showed how customer service should be done"

"I've always been dubious of mail order purchasing but my fears have proved unfounded in dealing with Evesham Micros. The equipment and backup service surpass all expectations!" P. D. Shepperton

"As usual, excellent – decisive, expert support gets my business every time. Showroom pre-sales always objective and informed." L. C., Cheltenham

"I have found your helpline and on-site maintenance to be of the highest standard." G. B., Flitwick

"An excellent, no quibble, fast service. Thank you." G. D., Bristol

"Very prompt and helpful service" C.F., Shipston on Stour

## Evesham FINANCE

Evesham Finance is a facility specifically set up to meet the needs of business customers, offering a comprehensive range of finance facilities to meet the needs of the most demanding clients. To find out more see page 12/13 or call now on:

**0800 496 0600**



# Evesham Micros

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# New Technology

## Satellite TNT Live!

Now Open  
On Sunday

Access the Internet at 256k and receive Digital Video Broadcast via Eutelsat live on PC.

TNT Satellite Live! is based on our Platinum TNT Live! model (see page 9) with the following enhancements:

- Adaptec 1030 satellite receiver card.
- STB DVD/MPEG 2 Movie Theatre playback card.
- STB Velocity 4400 card specially designed for satellite.
- DVD-ROM.

\*Satellite Dish is not included as standard.

### Satellite TNT Live!

Pentium® II 400 **£1699** -VAT (£1996.33)

Pentium® II 450 **£1839** -VAT (£2160.83)

Please call and ask for technical data sheet SAT2000 for full information & FAQs

## The latest audio technology

SoundBlaster Live! introduces a new dimension of audio by including features and performance surpassing professional Hollywood-quality audio equipment. With an amazing 256 voices of music synthesis and real-time audio enhancement, enjoy live concert-like music productions so dynamic you'll feel right in the middle of an orchestra. The SoundBlaster Live! hardware-accelerated Environmental Audio Extensions™ (EAX™) support new titles and offer an experience that goes way beyond 3D audio.



**Environmental Audio™**  
by CREATIVE

### PCAnswers verdict

- ✓ Knockout surround sound
- ✓ Powerful sound processor
- ✓ Open and excellent EAX standard
- ✗ Not quite Digital Dolby standard

**Overall 91%**

"We have no hesitation in declaring the SoundBlaster Live! to be the most significant advance in PC audio since the development of the soundcard itself"  
9/10 PC Review

"The SB Live! will do for sound what Voodoo did for graphics"  
95% PC Format



*"It will blow your home theatre away!"*

**Sound BLASTER Live!**



For PCs featuring the SoundBlaster Live! value see our GameStation III model on page 4 and Platinum TNT Live! range on page 9.

## The latest graphics technology



The new VELOCITY 4400 delivers next generation 3D graphics performance that simply blows away everything that has come before. Its NVIDIA RIVA TNT graphics engine is the first integrated 128-bit 3D processor capable of processing two pixels per-clock-cycle. This technique enables the application of multi-textures in a single pass for incredible realism and phenomenal frame-rates. VELOCITY 4400 also features 16MB of high-speed video memory and a powerful 250MHz RAMDAC. This potent combination ensures that it won't be left standing when it comes to 2D performance.

For PCs featuring the Velocity 4400, see our Prestige TNT range on page 7 and Platinum TNT Live! range on page 9.

### PCAnswers verdict

- ✓ The fastest 2D/3D around
- ✓ Two texture units
- ✓ Great value

**Overall 91%**



www.gamespot.com  
Rating:



*"...beats any 2D/3D combo card hands down"*

BIRMINGHAM  
0121 683 6868  
Fax: 0121 683 6869

CAMBRIDGE  
01223 323 898  
Fax: 01223 322 883

MILTON KEYNES  
01908 230 898  
Fax: 01908 230 865

LEEDS  
0113 203 2000  
Fax: 0113 203 2001

DUBLIN  
00 353 1 855 4444  
Fax: 00 353 1 855 4440

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# ENTHUSIAST'S EDITIONS

## GameStation III

The new 3Dfx Voodoo 2 chip has taken 3D gaming performance into a new dimension. The GameStation III combines the power of the 12Mb Creative Labs Voodoo 2 3Dfx card with a 350MHz Intel Pentium II processor and 64Mb of RAM for maximum speed. Big performance is coupled with a big monitor, a 17" model, and big sound from the incredible FourPointSurround system which comes with a sub-woofer. If you want the best in 3D performance this system offers incredible value for money!!

**GameStation III:**  
**Prestige Pentium II Multimedia PC**  
 with the following upgrades:

- ◆ 10Gb hard disk
- ◆ Creative Labs 12Mb Voodoo 2 3Dfx card
- ◆ Creative Labs SoundBlaster Live! value sound card
- ◆ 17" EveshamVale monitor
- ◆ Diamond PCI v.90 56k voice capable modem
- ◆ Truly Internet ready (see page 5 for details)
- ◆ DVD-ROM drive (also works as CD-ROM drive)
- ◆ Creative Labs FourPointSurround speaker system
- ◆ Suncom F15-E Talon joystick

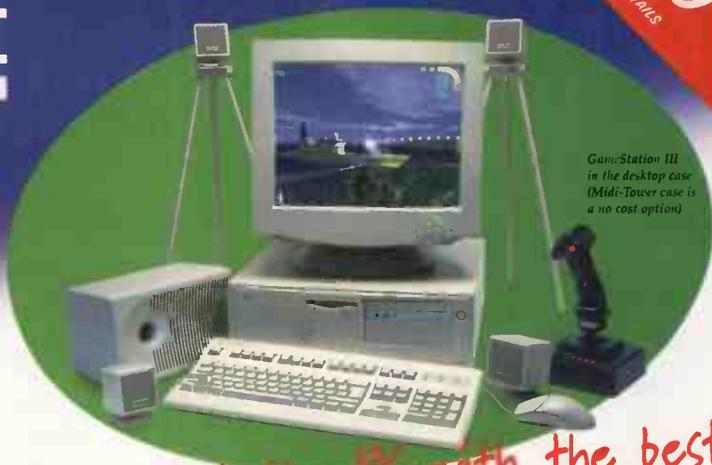
See page 6 for full details of Prestige models

**BT Click**  
 For direct internet access

only (£1148.09+VAT)

**£1349** inc VAT

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.



GameStation III in the desktop case (Mid-Tower case is a no cost option)

*Want the PC with the best game-playing performance?*



## MovieStation

The best DV capture card in the world is now available in PAL format, enabling us to offer this professional video editing suite...

### MovieStation 98

- ◆ 400MHz Intel Pentium® II processor
- ◆ Dual processor capable motherboard with Intel 440BX AGPset
- ◆ 128Mb SDRAM (100MHz)
- ◆ 2x 9Gb Quantum Viking II LVD SCSI super fast hard disks
- ◆ Adaptec 2940 LVD U2W SCSI controller
- ◆ 8Mb ATI Xpert98 AGP 3D graphics accelerator and ATI 8Mb Xpert@Work PCI graphics accelerator
- ◆ 19" Taxan Ergovision 975 TCO95 monitor and 15" Ergovision 550 TCO95 monitor
- ◆ Canopus DVREx-M1 digital audio and video capture with Ulead MediaStudio Pro 5.02 - the ultimate video editing solution now with audio scrubbing
- ◆ DVD-ROM drive (also works as CD-ROM drive) - or upgrade to DVD-RAM
- ◆ SoundBlaster PCI 64 wavetable sound card
- ◆ Yamaha YST-MS25 speaker system with sub-woofer
- ◆ High quality 'wheel' mouse
- ◆ Windows 98



### The complete DV editing system

- Internal (drive bay) or external breakout box
- Two Firewire IEEE1394 ports, composite and S-video in and out, component video out
- Optimised Sony DVBK-1 hardware DV CODEC, no loss of quality
- Convert existing analogue video to DV
- High quality, real-time, full-screen preview and to external video monitor
- DV batch capture. Capture up to 20 minutes in one .AVI file - seamlessly capture longer clips to multiple files
- Hardware shuttle and jog with wheel mouse, real-time audio and video scrubbing
- Rex Edit Version 2: now with full range of editing transitions and WYSIWYG titles. Also rendering speed like you wouldn't believe - 1 sec dissolve in about 3 seconds
- Digital audio in/out (coaxial and optical) with DVREx-M2 option



**DV REX-M1 ONLY**  
**£1899** (£2211.55) +VAT

"this is a professional system that will find happy use in day-to-day editing situations."  
 "Canopus has made the most of its hardware with support for native DV audio, simultaneous previews on the computer screen and video monitor, and the best software integration currently on the PC."

**NEW REX EDIT V2 SOFTWARE**



### MovieStation Upgrades

DV-REX M2 option board.....	£300+VAT (£352.50)
Upgrade to 256Mb RAM.....	£160+VAT (£188.00)
32x CD-ROM drive instead of DVD RAM drive.....	deduct £40+VAT (£47.00)
DVD RAM drive.....	£280+VAT (£329.00)
HP Surestore CD-RW 8100.....	£259+VAT (£304.33)
Canon XL1 DV camcorder.....	£2720+VAT (£3196.00)

### MovieStation NT:

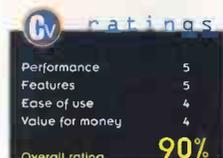
- ◆ 8Mb ATI Xpert 98 AGP 3D graphics
- ◆ 21" Taxan Ergovision 2160 TCO95 DiamondTron monitor
- ◆ Windows NT

Other specifications as MovieStation 98  
**£4449** +VAT  
 (£5227.58)

### MovieStation EL:

- ◆ Single processor capable motherboard
- ◆ 10.2Gb Quantum Fireball EL IDE hard disk
- ◆ 8Mb ATI Xpert 98 AGP 3D graphics
- ◆ 19" Taxan Ergovision 975 TCO95 monitor

Other specifications as MovieStation 98  
**£3249** +VAT  
 (£3817.58)



"Video capture was rock solid from either analogue or fire-wire sources, and device controlled batch capture was seamless. Similarly, playback off the Media Studio timeline was smooth. Overlay exhibited none of the problems you occasionally find."

"...this Evesham DV Rex-M1 package gives you a complete editing solution that works extremely well."  
 James Morris - Computer VIDEO

# Evesham Micros

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Web: <http://www.evesham.com>

**EveshamVale**

# EveshamVale

Buy Now  
Pay 1999  
SEE PAGE 2 FOR DETAILS

## Prima

We have set out to build a quality PC and sell it at a keen price, whilst still offering a standard of equipment that allows us to maintain our award winning level of service and support. The Prima is the result and is now established as a standard setting entry level PC, as confirmed by winning Computer Shopper's "Best Buy" award when pitted against computers from 13 leading suppliers.

### Prima Standard models:

- ◆ 512kb cache (WinChip models)
- ◆ 128kb processor speed cache (Celeron models)
- ◆ Intel Slot One (Celeron models) for processor upgrades
- ◆ Socket 7 (WinChip models) for processor upgrades
- ◆ 16Mb RAM (WinChip 200 models)
- ◆ 32Mb RAM (other models)
- ◆ 2.1Gb hard disk (WinChip 200 models)
- ◆ 4Gb hard disk (other models)
- ◆ ATI 2Mb PCI video card
- ◆ 14" SVGA monitor
- ◆ 14 day moneyback guarantee
- ◆ 1 year on-site maintenance for parts and labour
- ◆ Lifetime technical support hotline
- ◆ Year 2000 ready BIOS
- ◆ 1 EPP parallel port and 2 serial ports with 16550 UART
- ◆ 3.5" 1.44Mb floppy disk drive
- ◆ Mini-tower case
- ◆ TÜV approved power supply with low noise fan
- ◆ 'Windows95' keyboard
- ◆ Mouse
- ◆ Windows98 installed, with full manuals and disks supplied (Windows95 is a no cost option)

### Prima MULTIMEDIA models and Media98

models also have: (in addition to Standard)

- ◆ 32x CD-ROM drive
- ◆ SoundBlaster 16 compatible sound
- ◆ Amplified speakers

From  
**£399** +VAT (£468.83)

Now Open  
On Sunday  
10.00am - 6.00pm



Prima Multimedia PC (case style may vary)

## Reviews

### COMPUTER SHOPPER

"Good specification, good performance and a good price."  
EveshamVale Prima

**PC Plus** "the main components for which you're likely to buy are all sound and well coupled together. A good, base level PC."  
EveshamVale Prima



"If we were choosing the machine that combined performance, presentation and configuration then our choice would be narrowed down to the Evesham...we fully approve of its documentation, setup and choice of components"  
EveshamVale Prima

### EveshamVale Prima

Processor:	Standard	MULTIMEDIA	Media98
idt WinChip™ 200 MMX, 16Mb RAM, 2.1Gb HDD	£399-VAT (£468.83)	£469-VAT (£551.08)	£539-VAT (£633.33)
idt WinChip™ PR233 MMX, 32Mb RAM, 4Gb HDD	£449-VAT (£527.58)	£519-VAT (£609.83)	£609-VAT (£715.58)
Intel Celeron™ 333, 32Mb RAM, 4Gb HDD	£499-VAT (£586.33)	£539-VAT (£633.33)	£629-VAT (£739.08)

### Prima upgrades

16Mb to 32Mb RAM.....	£40+VAT (£47.00)
32Mb to 64Mb RAM.....	£40+VAT (£47.00)
15" EveshamVale monitor.....	£30+VAT (£35.25)
17" EveshamVale monitor.....	£115.11+VAT (£135.25)
Diamond PCI v90 56k voice capable modem.....	£49+VAT (£57.58)
Desktop case (Illustrated page 8).....	£25+VAT (£29.38)
Second year on-site maintenance.....	£40+VAT (£47.00)
ValeStart Service.....	£60+VAT (£70.50)

## Media98

10 of Microsoft's latest and most popular software titles:

- Microsoft Works – The world's most popular integrated word processor, spreadsheet, database, drawing and communications package.
- Microsoft Encarta 98 – Award winning multimedia encyclopaedia (International Edition)
- Microsoft Encarta 98 World Atlas – The world's leading atlas
- Microsoft Magic School Bus Rainforest – A fun filled, fact pact science adventure in the Costa Rican rainforest.
- Microsoft Monster Truck Madness 2 – Down and dirty racing.
- Microsoft Money 98 – The easy way to manage your finances.
- Microsoft Golf 98 – The top selling golf game for Windows.
- Microsoft Football – Experience all the atmosphere of world class football.
- CART Precision Racing – All the speed and thrills of Indy car racing with this simulator.
- Chaos Island: Jurassic Park – Real-time kids strategy game based on the hit film.
- Suncom Joystick

This bundle is included with all EveshamVale Media98 PCs – see the following pages

Software boxes shown for illustration only. Please note that the software is not supplied in retail packaging.



**Access the Internet with a single click!**  
Connecting to the Internet is as simple as plugging your PC into a phone line and clicking on the BT Click icon on the desktop. BT Click is a brand new way as you go service, offering you the freedom and flexibility to access the Internet without subscription fees or commitments - you simply pay for your on-line time.

- BT Click**
- ◆ No registration process
  - ◆ No subscription charge
  - ◆ No connection charge
  - ◆ No contract
  - ◆ No commitment - just pay for your time on-line!

And that's it! The only cost is the call charge (local rate plus 1p per minute) which is added automatically to your phone bill.

### Do you need a little help installing your new computer?

For just £60+VAT one of our ValeStart technicians will come to your home and ensure that your computer is properly installed and configured and then demonstrate to you how to use the PC to its full potential.

Once the engineer has left, you're not on your own - Evesham Micros give you the reassurance of a dedicated, knowledgeable and friendly technical support line, for the lifetime of your PC. The technicians are there to answer your questions, give you advice or point you in the

right direction should you take a wrong turn. And what's more, calls to the Technical support line are free.

Unlike most suppliers we include on-site maintenance as standard. If something goes wrong, we will send one of our engineers to your home to sort out the problem. Let's face it, the last thing you will want to do if your computer breaks down is to have to pack it all up and return it to a supplier for an unknown length of time!

BIRMINGHAM  
0121 683 6868  
Fax: 0121 683 6869

CAMBRIDGE  
01223 323 898  
Fax: 01223 322 883

MILTON KEYNES  
01908 230 898  
Fax: 01908 230 865

LEEDS  
0113 203 2000  
Fax: 0113 203 2001

DUBLIN  
00 353 1 855 4444  
Fax: 00 353 1 855 4440

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# EveshamVale

## Prestige

See page 4 for

**ENTHUSIAST'S EDITIONS**

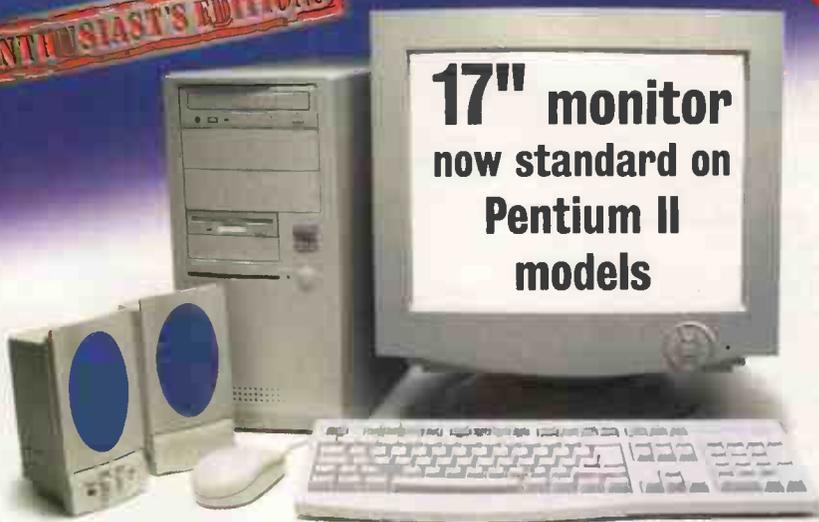
Our benchmark PC - available in a range of configurations to suit most applications.

### Prestige Standard models:

- ◆ Intel 440EX AGPsel (Celeron models)
- ◆ Intel 440BX AGPsel (Pentium II models)
- ◆ 128kb processor speed cache (Celeron models)
- ◆ 512kb cache (Pentium II models)
- ◆ 64Mb SDRAM
- ◆ 4Gb hard disk (Celeron models)
- ◆ 6.4Gb hard disk (Pentium II models)
- ◆ ATI 4Mb 3D Charger AGP video card
- ◆ 15" EveshamVale monitor (Celeron models)
- ◆ 17" EveshamVale monitor (Pentium II models)
- ◆ 2x Universal Serial Bus (USB) ports
- ◆ 14 day moneyback guarantee
- ◆ 2 years on-site maintenance for parts and labour
- ◆ Lifetime technical support hotline
- ◆ Year 2000 ready BIOS
- ◆ 1 EPP parallel port and 2 serial ports with 16550 UART
- ◆ 3.5" 1.44Mb floppy disk drive
- ◆ Choice of desktop or midi-tower case
- ◆ TÜV approved power supply with low noise fan
- ◆ 'Windows95' keyboard & mouse
- ◆ Windows98 installed, with full manuals and disks supplied (Windows95 is a no cost option)

### Prestige MULTIMEDIA, Media98 and Office models also have the following hardware:

- ◆ 32x CD-ROM drive
- ◆ SoundBlaster 16 compatible sound (Celeron models)
- ◆ SoundBlaster PCI 64 wavetable sound (Pentium II models)
- ◆ Amplified speakers



**17" monitor now standard on Pentium II models**

Prestige Multimedia PC with 17" EveshamVale monitor (PC case style may vary)

Now Open on Sunday  
10am - 5pm

See p5 for details of Media98 software.

Microsoft Office 97  
See p7 for details of the Microsoft SBE software pack

### Create your own CDs!

- ◆ Easily create data, audio and multimedia CDs on your PC.
  - ◆ Send video postcards on CD that automatically play on any PC.
  - ◆ Back up important files such as tax records, spreadsheets and financial data.
- Panasonic CW7582 recordable CD drive .....£150+VAT (€176.25)  
 Adaptec Easy CD Creator software .....£15+VAT (€17.63)

## SpaceStation

Prestige Celeron 333MHz MULTIMEDIA PC with Taxan Crystalvision 640 TCO95-S flat panel LCD monitor

- ◆ 14.1" LCD panel with 1024 x 768 resolution
- ◆ Perfectly flat square display with no distortion
- ◆ Similar screen area to a 17" conventional monitor
- ◆ Only 170 mm overall depth including stand



**£1149+VAT**  
Including (£1350.08) the PC!

EveshamVale Prestige: 64Mb RAM, 4Gb HDD				
Processor:	Standard	MULTIMEDIA	Media98	Office
Intel Celeron™ 333	£579+VAT (€680.33)	£619+VAT (€727.33)	£709+VAT (€833.08)	£749+VAT (€880.08)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

EveshamVale Prestige: 64Mb RAM, 6.4Gb HDD				
Processor:	Standard	MULTIMEDIA	Media98	Office
Intel Pentium® II 350	£749+VAT (€880.08)	£789+VAT (€927.08)	£879+VAT (€1032.83)	£919+VAT (€1079.83)
Intel Pentium® II 400	£869+VAT (€1021.08)	£909+VAT (€1068.08)	£999+VAT (€1173.83)	£1039+VAT (€1220.83)
Intel Pentium® II 450	£1009+VAT (€1185.58)	£1049+VAT (€1232.58)	£1139+VAT (€1338.33)	£1179+VAT (€1385.33)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

### Prestige upgrades

64Mb to 96Mb RAM (Celeron models) .....	£40+VAT (€47.00)
64Mb to 128Mb RAM (Pentium II models) .....	£80+VAT (€94.00)
15" Taxan Ergovision 550 TCO95 monitor (Celeron models) .....	£30+VAT (€35.25)
17" EveshamVale monitor (Celeron models) .....	£85.11+VAT (€100.00)
17" Taxan Ergovision 760 TCO95 monitor (Celeron models) .....	£130+VAT (€152.75)
17" Taxan Ergovision 760 TCO95 monitor (Pentium II models) .....	£45+VAT (€52.85)
Diamond PCI v.90 56k voice capable modem .....	£49+VAT (€57.50)
Panasonic CW7582 recordable CD drive .....	£150+VAT (€176.25)
Adaptec Easy CD Creator software .....	£15+VAT (€17.63)
Desktop case (illustrated page 8) .....	£25+VAT (€29.38)
ValeStart installation service (see page 5) .....	£60+VAT (€70.50)

## Reviews

**PC Plus**  
"The Prestige is a good machine at a very competitive price. If you're working to a tight budget, this machine must be at the top of your short list" EveshamVale Prestige

**PC PRO VALUE**  
"Superb value in a machine which doesn't compromise on speed either...comes with such a good selection of peripherals and software that it scoops our Value award." EveshamVale Prestige

**TOP 50**  
"A well specified system for the money, proving that a good PC can be built from Intel's newest budget CPU. The big question is the performance, and this proved to be good. Considering you're getting a fast high-spec PC from a well known company, the price seems very reasonable. The EveshamVale Prestige 333 is a well-rounded PC and shows what can be done with Intel's latest chip. If you're after decent performance at a reasonable price, it's a good choice." EveshamVale Prestige 333

**PERFORMANCE**  
"What is certainly more than adequate is the performance of the 333MHz Celeron, which gave a PC Plus index of 4.59, over 50% faster than some of the 6x86MXs in the group and a good 20% faster than the fastest K6-2. This machine is a little scorcher at a very competitive price" EveshamVale Prestige 333 Performance 10/10

**PC HOME**  
"An excellent starter pack of software... Internally there is plenty of space to plug in any extra bits and pieces... I feel I'd have to recommend this machine to the beginner." EveshamVale Prestige

**PC MAGAZINE**  
"A good, well-designed machine offering superb value for money." EveshamVale Prestige

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**EveshamVale**

# Christmas Specials

## Prestige Scorcher

### Prestige Scorcher MULTIMEDIA models:

- ◆ Intel 440EX AGPset
- ◆ 128kb processor speed cache
- ◆ 64Mb SDRAM
- ◆ 6.4Gb hard disk
- ◆ 8Mb ATI Xpert98 AGP 3D graphics accelerator
- ◆ 15" EveshamVale monitor
- ◆ 32x CD-ROM drive
- ◆ On-board 16-bit audio
- ◆ Amplified speakers
- ◆ Diamond PCI v.90 56k voice capable modem
- ◆ Truly Internet ready (single click Internet access) - see page 5
- ◆ 2x Universal Serial Bus (USB) ports
- ◆ 14 day moneyback guarantee
- ◆ 2 years on-site maintenance for parts and labour
- ◆ Lifetime technical support hotline

**BTClick**  
For direct internet access



Prestige Scorcher with optional 17" monitor (PC case style may vary)

### Prestige Scorcher - 64Mb RAM, 6.4Gb HDD

Processor:	MULTIMEDIA	Media98+	Office
Intel Celeron™ 333	£799 inc VAT	£959 inc VAT	£819 -VAT (£962.33)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

## Prestige "BEST PC UNDER £1000"

These models are based on the recent review machine in *PC Pro*, which they wholeheartedly "recommended" and included in their 'A-List' as the "Best PC under £1000". We have now upgraded the hard disk to 8.4Gb, and still kept the price under £1000!

### Prestige Scorcher with the following upgrades:

- ◆ Intel 440BX AGPset
- ◆ 64Mb SDRAM (100MHz)
- ◆ 8.4Gb Ultra ATA hard disk
- ◆ 17" EveshamVale monitor
- ◆ DVD-ROM drive (also works as CD-ROM drive)
- ◆ SoundBlaster PCI 64 wavetable sound

### Prestige BEST PC Under £1000 - 64Mb RAM, 8.4Gb HDD

Processor:	MULTIMEDIA	Media98+	Office
Intel Celeron™ 333	£999 inc VAT	£1159 inc VAT	£979 -VAT (£1150.33)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

## Prestige TNT

Maximum performance - Maximum upgradeability  
Prestige TNT models use not only the brand new STB Velocity 4400 graphics accelerator (see p3 for details) - but also the very latest Intel BX chipset, with 128Mb of 100MHz SDRAM and capable of upgrade to the fastest Pentium II processor. So as well as having the performance to raise it above the competition now, the TNT has the upgradeability to keep it there.

### Prestige Scorcher with the following upgrades:

- ◆ Intel 440BX AGPset
- ◆ 512kb cache (Pentium II 350MHz models)
- ◆ 128Mb SDRAM (100MHz)
- ◆ 8.4Gb Ultra ATA hard disk
- ◆ 16Mb STB Velocity 4400 2D/3D graphics accelerator
- ◆ 17" EveshamVale monitor
- ◆ SoundBlaster PCI 64 wavetable sound
- ◆ Zy-Fi Pro amplified speakers

### PCAnswers verdict

- ✓ The fastest 2D/3D around
  - ✓ Two texture units
  - Great value
- Overall 91%**



### EveshamVale Prestige TNT: 128Mb RAM, 8.4Gb HDD

Processor:	MULTIMEDIA	Media98+	Office
Intel Celeron™ 333	£1049 inc VAT	£1209 inc VAT	£1019 -VAT (£1197.33)
Intel Pentium® II 350	£1149 inc VAT	£1309 inc VAT	£1099 -VAT (£1291.33)
Intel Pentium® II 400	£1299 inc VAT	£1459 inc VAT	£1219 -VAT (£1432.33)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

## Microsoft software bundles

Available with any EveshamVale Multimedia or Media98 PC

Microsoft Office 97	Microsoft Office 97	Microsoft Office 97
Professional Edition	Small Business Edition	Professional Edition
£199 (£116.33) -VAT	£149 (£175.08) -VAT	£239 (£280.83) -VAT
Word 97, Excel 97, Outlook 97, Access 97, Powerpoint 97	Word 97, Excel 97, Outlook 97, Publisher 97, AutoRoute Express	Word 97, Excel 97, Outlook 97, Access 97, Powerpoint 97

\*To qualify for the Student 20% you or someone you know must be a full-time student at a UK university or college. Product support via telephone only. Upgrade Pack, plus a mouse, keyboard, and software from All Office 97 products. © Microsoft Corporation 1997.

BIRMINGHAM  
0121 683 6868  
Fax: 0121 683 6869

CAMBRIDGE  
01223 323 898  
Fax: 01223 322 883

MILTON KEYNES  
01908 230 898  
Fax: 01908 230 865

LEEDS  
0113 203 2000  
Fax: 0113 203 2001

DUBLIN  
00 353 1 855 4444  
Fax: 00 353 1 855 4440

EveshamVale

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# EveshamVale

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## Platinum

### "THE BEST PC EVER"

EveshamVale Platinum - PC Pro

EveshamVale Platinum PCs have always been a favourite with reviewers - in fact *PC Pro* recently described one as "the best PC EVER". The current Platinum is an enhanced version of that review specification, with faster processors, more hard disk space and 17" Taxan monitor (instead of 15"). Despite the improvements, we have managed to *reduce* the price.

#### Platinum models:

- ◆ Chaintech 6BTM motherboard with Intel 440BX AGPset, 100MHz bus, and SeePU and APTC technologies (Pentium II models)
- ◆ 128kb processor speed cache (Celeron models)
- ◆ 512kb cache (Pentium II models)
- ◆ 64Mb SDRAM, expandable to 256Mb (100MHz)
- ◆ 2x Universal Serial Bus (USB) ports
- ◆ 6.4Gb Ultra ATA high speed hard disk
- ◆ 8Mb ATI Xpert 98 AGP 3D graphics accelerator
- ◆ 17" Taxan Ergovision 735 TCO99 monitor with integral USB providing 4 USB ports.
- ◆ 32x CD-ROM drive
- ◆ SoundBlaster 64 PCI wavetable sound
- ◆ Amplified speakers
- ◆ High quality 'wheel' mouse
- ◆ 14 day moneyback guarantee
- ◆ 2 years on-site maintenance for parts and labour
- ◆ Lifetime technical support hotline
- ◆ Year 2000 ready BIOS
- ◆ 1 EPP parallel port and 2 serial ports with 16550 UART
- ◆ 3.5" 1.44Mb floppy disk drive
- ◆ Keytronic PS/2 'Windows 95' keyboard
- ◆ Choice of high quality ATX style desktop or mid-tower case
- ◆ TÜV approved power supply with low noise fan
- ◆ Windows98 installed, with full manuals and disks supplied (Windows95 is a no cost option)



Platinum Multimedia PC in the Midi-Tower case

### Create your own CDs!

- ▶ Easily create data, audio and multimedia CDs on your PC.
  - ▶ Send video postcards on CD that automatically play on any PC.
  - ▶ Back up important files such as tax records, spreadsheets and financial data.
- Panasonic CW7582 recordable CD drive .....£150+VAT (£176.25)  
 Adaptec Easy CD Creator software .....£15+VAT (£17.63)

#### Platinum Media98 models include the following Software:

- ◆ Microsoft Media98 software package (see p5 for details)

#### Platinum Office models include the following Software:

- ◆ Microsoft Office Small Business Edition (see p7 for details)



### EveshamVale Platinum: 64Mb SDRAM, 6.4Gb HDD

	MULTIMEDIA	Media98	Office
Celeron™ 333	£799-VAT (€938.83)	£889-VAT (€1044.58)	£929-VAT (€1091.58)
Pentium® II 350	£869-VAT (€1021.08)	£959-VAT (€1126.83)	£999-VAT (€1173.83)
Pentium® II 400	£989-VAT (€1162.08)	£1079-VAT (€1267.83)	£1119-VAT (€1314.83)
Pentium® II 450	£1129-VAT (€1328.58)	£1219-VAT (€1432.33)	£1259-VAT (€1479.33)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

### Platinum upgrades

64Mb to 128Mb RAM	£80+VAT (€94.00)
64Mb to 256Mb RAM	£240+VAT (€282.00)
Diamond PCI x90 56k voice capable modem	£49+VAT (€57.80)
DVD-ROM	£60+VAT (€70.50)
17" Taxan Ergovision 745 TCO99 monitor	£37+VAT (€43.48)
17" iiyama Vision Master 400 monitor	£104+VAT (€117.50)
17" iiyama Vision Master Pro 400 monitor	£125+VAT (€146.88)
17" Taxan 750 TCO95 monitor	£150+VAT (€176.25)
19" Taxan 975 TCO95 monitor	£170+VAT (€196.25)
21" Taxan 2160 TCO95 monitor	£570+VAT (€669.75)
Creative Labs SoundBlaster Live! value sound card	£45+VAT (€52.88)
Creative Labs SoundBlaster Live! sound card with FourPointSurround speaker system	£100+VAT (€117.50)
Panasonic LS-120 120Mb drive instead of 1.44Mb floppy drive	£50+VAT (€58.75)
CD-RW drive instead of CD-ROM drive	£150+VAT (€176.25)
Adaptec CD Creator software	£15+VAT (€17.63)
Maxtor DiamondMax 2500 10Gb hard disk	£120+VAT (€141.00)
Matrox G200 Millennium 8Mb video card	£40+VAT (€47.00)
ValeStart service (see page 5 for full details)	£60+VAT (€70.50)

## Reviews Platinum Range

### "Fastest PC"



"The Vale Platinum PII400 is the latest in a series of ever-more powerful machines we've recently seen from Evesham... Evesham's system is one for the hardcore speed freaks... The PC equivalent of a land-speed record holder... All too predictably, the Platinum 400 knocks the Platinum 333 off its perch as the fastest system yet seen in *PC Pro*... if you must have the fastest PC currently known to man, or at least man at *PC Pro*, then this is it!" EveshamVale Platinum



### "BEST PC"

"We put 18 machines through their paces. Only two come up trumps, and one is the best PC we've ever seen."  
 "Evesham has created a lightning-fast PC at a really low price point. If you want cutting-edge technology, without taking out a second mortgage, look no further. This is a worthy speed award winner."  
 EveshamVale Platinum, PC Pro



"A great choice". "Good features make this the best choice at this lower end of the price range"

"...the two-year on-site warranty is excellent value. Overall this is a system whose features belie its low price." EveshamVale Platinum, PC Magazine, Value for Money



"It's easy to set up and the user manual is informative, well written and illustrated."

"Evesham Micros gets a special mention for future-proofing its PC with a DVD-ROM drive" "the insides of this PC are a tribute to good housekeeping" "GOOD POINTS: Performance, ease of use and installation, warranty, monitor, DVD-ROM drive" EveshamVale Platinum



"We can always rely on Evesham to come up with something good..." "The Platinum is an unpretentious machine with a lot under the hood."

"Add in a two year, on-site warranty to the machine and you have a high value bundle which few suppliers can touch. This is a machine which should last you well to the millennium and is a sound buy for serious home use and the odd game. It's well worth a PC Plus Gold." PC Plus Verdict: 10/10 EveshamVale Platinum



"The machine excelled in our benchmark tests, benefiting from a speedy hard drive." "The Vale came with a 17" Taxan monitor offering a clear, steady, flicker-free image." "A machine to suit most business needs." EveshamVale Platinum



"This is a well specified system... and is configured appropriately for both home and games usage, delivering very good performance." "Evesham's Vale gets our vote for its overall level of presentation." EveshamVale Platinum



"Evesham's latest Pentium II machine is not so much a Vale as a high plateau... Performance of the Platinum PII-333 was very strong... With a two year, on-site warranty thrown in, this Vale Platinum PII-333 wins a deserved Value for Money award." EveshamVale Platinum



"1 year test" "Based on price and quick delivery times, I decided to go with Evesham Micros" "GOOD POINTS: Fast, expandable, quiet fan" "CONCLUSION: I'm very happy" EveshamVale Platinum

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## Platinum TNT Live!

Platinum TNT models have the following enhancements to Platinum models:

- ◆ 128Mb SDRAM (100MHz)
  - ◆ 10.2Gb Quantum Fireball EL hard disk
  - ◆ 16Mb STB Velocity 4400 2D/3D graphics accelerator (see page 3)
  - ◆ Creative Labs SoundBlaster Live! value sound card (see page 3)
  - ◆ Creative Labs PCWorks FourPointSurround speaker system
  - ◆ Diamond PCI v.90 56k voice capable modem
  - ◆ Truly Internet ready (see page 5)
- Other features as Platinum models

See p5 for details of Media98 software.

Microsoft Office 97  
See p7 for details of the Microsoft SBE software pack

### EveshamVale Platinum TNT: 128Mb SDRAM, 10.2Gb HDD

	MULTIMEDIA	Media98	Office
Celeron™ 333	£1099-VAT (£1291.33)	£1189-VAT (£1397.08)	£1229-VAT (£1444.08)
Pentium® II 350	£1169-VAT (£1373.58)	£1259-VAT (£1479.33)	£1299-VAT (£1526.33)
Pentium® II 400	£1289-VAT (£1514.58)	£1379-VAT (£1620.33)	£1419-VAT (£1667.33)
Pentium® II 450	£1429-VAT (£1679.08)	£1519-VAT (£1784.83)	£1559-VAT (£1831.83)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

### Platinum TNT Live! upgrades

128Mb to 256Mb RAM.....£160+VAT (£188.00)  
SEE PLATINUM MODELS FOR OTHER UPGRADES

Platinum TNT Live!  
in the optional desk-top case

STB

VELOCITY 4400

The new VELOCITY 4400 uses the NVIDIA RIVA TNT graphics engine to deliver performance that simply blows away everything that has come before!

(see page 3 for more details)



### PCWORKS - FourPointSurround

Speaker

The latest speaker sound system from Creative Labs to fully utilise the advanced Environmental Audio™ and Creative Multi Speaker Support™ abilities of the SB Live! card.

- ◆ Four 2.75" wide satellite speaker cubes
- ◆ Compact, floor standing powered subwoofer
- ◆ Remote in-line master volume control

Sound Blaster Live! introduces a new dimension of audio. With an amazing 256 voices of music synthesis and real-time audio enhancement, enjoy live concert-like music productions so dynamic you'll feel right in the middle of an orchestra.

The Sound Blaster Live! hardware-accelerated Environmental Audio Extensions™ (EAX™) support new titles and offer an experience that goes way beyond 3D audio.



## Platinum Wonder

### "THE BEST" GETS BETTER

The Platinum Wonder is the affordable 'ultimate' PC. Like the rest of the Platinum range it is based on our proven formula of the very best components, solid and reliable build quality, and award winning customer care.

#### Platinum Wonder key features:

- ◆ Intel 440BX AGPset (100MHz bus)
- ◆ 128Mb SDRAM (100MHz)
- ◆ 10Gb Maxtor DiamondMax 2500 (the fastest IDE hard disk available)
- ◆ ATI 8Mb All-in-Wonder Pro AGP video card
- ◆ 12Mb Voodoo 2 3Dfx card
- ◆ 19" Taxan Ergovision 975 TCO95 monitor
- ◆ DVD-ROM drive (also works as CD-ROM drive)
- ◆ Creative Labs SoundBlaster Live! value sound card (see page 3)
- ◆ Creative Labs PCWorks FourPointSurround speaker system
- ◆ Iomega zip drive
- ◆ Diamond PCI v.90 56k voice capable modem
- ◆ Truly Internet ready (see page 5)
- ◆ Microsoft Natural keyboard

Other features as Platinum models



### Platinum Wonder upgrades

128Mb to 256Mb RAM.....£160+VAT (£188.00)  
Upgrade to 21" Taxan 2160 monitor.....£390+VAT (£458.25)  
10 pack CD-R disks.....£20+VAT (£23.50)  
DVD-RAM (rewritable) drive instead of DVD-ROM drive.....£380+VAT (£446.50) (includes SCSI controller card)  
HP Surestore CD-RW 8100 CD-ROM writer.....£259+VAT (£304.33)  
2x 9Gb Quantum Viking II LVD SCSI super fast hard disks with Adaptec 2940 LVD U2W SCSI controller (This option includes an upgrade to the High Tower case as illustrated on P13)...£899+VAT (£1056.33)  
SEE PLATINUM MODELS FOR OTHER UPGRADES



The 7-in-1 TV, graphics and multimedia board

### ATI All-in-Wonder Pro

The heart of the incredible video capabilities of the Platinum Wonder is ATI's new All-in-Wonder Pro card. This combines the acclaimed 3D Rage Pro graphics accelerator found in the Xpert@work with a host of multimedia functions



"All in all, this is an extremely impressive package... when you bear in mind the price you could expect to pay for all those extra bits on board, it's something of a bargain... Just for once, this is a product that does everything it sets out to do, and it does it all well." All-in-Wonder Pro

### Microsoft software bundles

Available with any EveshamVale Multimedia or Media98 PC - see page 7 for details

BIRMINGHAM  
0121 683 6868  
Fax: 0121 683 6869

CAMBRIDGE  
01223 323 898  
Fax: 01223 322 883

MILTON KEYNES  
01908 230 898  
Fax: 01908 230 865

LEEDS  
0113 203 2000  
Fax: 0113 203 2001

DUBLIN  
00 353 1 855 4444  
Fax: 00 353 1 855 4440

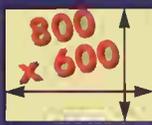
FREEPHONE DIRECT SALES  
0800 496

Web: <http://www.evesham.com>  
0800

**FREEPHONE DIRECT SALES**  
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 Web: <http://www.evesham.com>

# Evesham Vale

## Voyager 2500



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### Voyager 2500 MULTIMEDIA models:

- ◆ 2 year warranty, with accidental damage insurance
- ◆ 256kb asynchronous cache
- ◆ 32Mb EDO RAM
- ◆ 5Gb hard disk
- ◆ 2Mb 64bit PCI graphics accelerator
- ◆ 12.1" TFT colour display with 800x600 SVGA resolution
- ◆ 20x CD-ROM drive
- ◆ 3.5" floppy drive
- ◆ Nickel MetalHydride battery
- ◆ Extensive power management features, including 'suspend to RAM' and 'suspend to disk'

### Voyager 2500 models also feature:

- ◆ Good solid keyboard with Windows95 keys
- ◆ Built-in touchpad with palm rest
- ◆ Built-in 16bit stereo sound with stereo speakers and microphone
- ◆ ZV-enabled PCMCIA ports for two type II or one type III card
- ◆ 16550 compatible serial port
- ◆ EPP/ECP bi-directional parallel port
- ◆ PS/2 mouse or keyboard port
- ◆ External monitor port (runs simultaneously)
- ◆ Jacks for external speakers and stereo line in
- ◆ Infra red data link
- ◆ Anchor for Kensington security cable
- ◆ Windows98 installed (Windows95 is a no cost option)

### Voyager 2500 Office models also have:

- ◆ Microsoft Office97 Small Business Edition (see page 7)

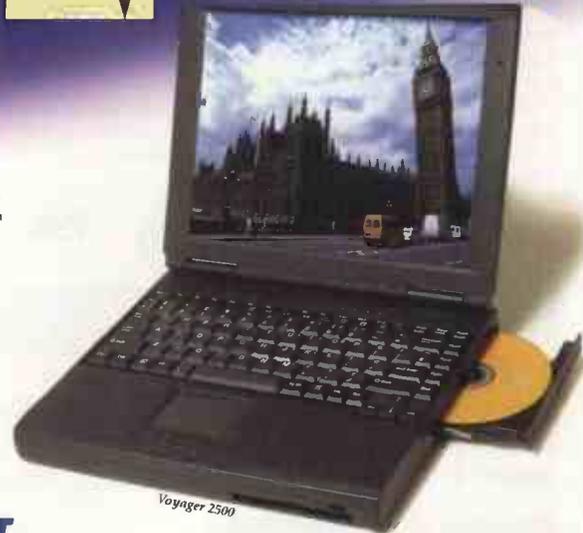


### Voyager 2500 – 12.1" TFT display, NiMH battery

	MULTIMEDIA (TFT)	Office (TFT)
AMD K6 300	£949-VAT (£1115.08)	£1089-VAT (£1279.58)

### Voyager 2500 upgrades

32Mb to 96Mb RAM.....	£75+VAT (£88.13)
Car cigar lighter adaptor.....	£79+VAT (£92.83)
EveshamVale 56K PCMCIA modem.....	£79+VAT (£92.83)
EveshamVale ethernet adaptor.....	£59+VAT (£69.33)



Voyager 2500

### WHAT PC?

"quality screen... good colour and contrast: it is also visible from a good range of angles."  
 "The keyboard is comfortable to type on."  
 EveshamVale Voyager 2000

### WHAT PC? Testdrive

"When he looked at the EveshamVale Voyager 2000's specification, Tim found it hard to believe it fell within his budget."  
 "In the end, the EveshamVale Voyager 2000 looked the most promising."  
 EveshamVale Voyager 2000

## Voyager 2800

**A fully featured Pentium II 233MHz notebook with 13.3" TFT display, 5Gb HDD and 96Mb RAM for only £1199+VAT !!**

### Voyager 2800 MULTIMEDIA models:

- ◆ 2 year warranty, with accidental damage insurance
- ◆ Low voltage Intel Mobile Pentium® II processor
- ◆ 13.3" TFT colour display with 1024 x 768 resolution
- ◆ 512kb cache
- ◆ 96Mb RAM
- ◆ 5Gb hard disk
- ◆ 24x CD-ROM drive
- ◆ 2Mb 64bit PCI graphics accelerator
- ◆ 3.5" floppy drive
- ◆ Nickel MetalHydride battery
- ◆ Extensive power management features, including 'suspend to RAM' and 'suspend to disk'

### Voyager 2800 models also feature:

- ◆ Good solid keyboard with Windows95 keys
- ◆ Built-in touchpad with palm rest
- ◆ Built-in 16bit stereo sound with stereo speakers and microphone
- ◆ ZV-enabled PCMCIA ports for two type II or one type III card
- ◆ 16550 compatible serial port
- ◆ EPP/ECP bi-directional parallel port
- ◆ PS/2 mouse or keyboard port
- ◆ External monitor port (runs simultaneously)
- ◆ Jacks for external speakers and stereo line in
- ◆ Infra red data link
- ◆ Anchor for Kensington security cable
- ◆ Windows98 installed (Windows95 is a no cost option)

### Voyager 2800 Office models also have:

- ◆ Microsoft Office97 Small Business Edition (see page 7)

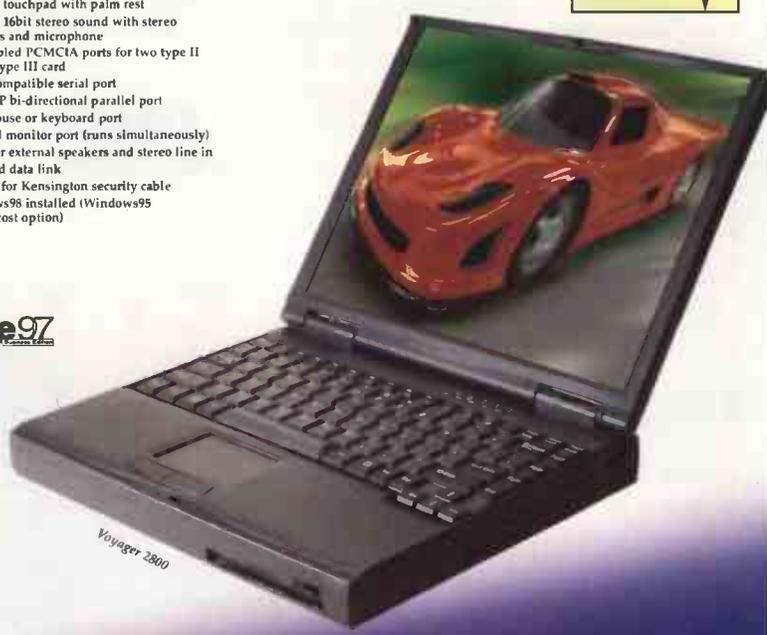
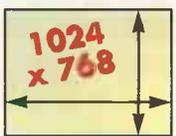


### Voyager 2800 – 13.3" TFT display, NiMH battery

	MULTIMEDIA (TFT)	Office (TFT)
Pentium® II 233	£1199-VAT (£1408.83)	£1339-VAT (£1573.33)
Pentium® II 266	£1349-VAT (£1585.08)	£1489-VAT (£1749.58)
Pentium® II 300	£1499-VAT (£1761.33)	£1489-VAT (£1749.58)

### Voyager 2800 upgrades

Car cigar lighter adaptor.....	£79+VAT (£92.83)
EveshamVale 56K PCMCIA modem.....	£79+VAT (£92.83)
EveshamVale ethernet adaptor.....	£59+VAT (£69.33)



Voyager 2800

# Evesham Micros

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 Web: <http://www.evesham.com>

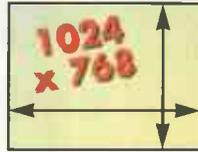
**Evesham Vale**

# EveshamVale

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## Voyager 4000

**Slim, stylish and powered by Pentium® II!**



If you want the most sophisticated and stylish Notebook on the market then the Voyager 4000 is the one to look at. It combines the class leading performance of the Pentium® II mobile processor with a battery life that leaves its competitors behind. Manufactured to the highest standards, the overall quality of the fit and finish is superb; its high-tech performance is certainly matched by its svelte appearance.

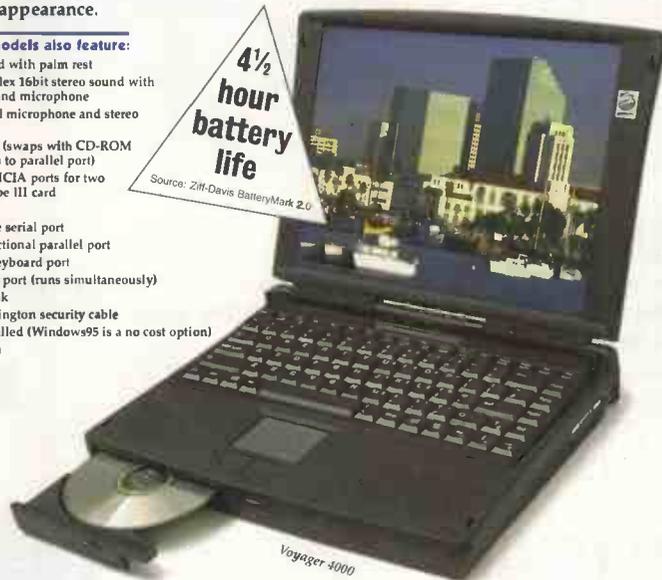
### Voyager 4000 MULTIMEDIA models:

- ◆ 2 year warranty, with accidental damage insurance
- ◆ Li-Ion battery and extensive power management features give superb battery life with minimum weight
- ◆ Low voltage Intel Mobile Pentium® II processor also maximises battery life
- ◆ Automatically tilting keyboard for maximum typing comfort
- ◆ 512kb Pipeline-Burst cache
- ◆ 80Mb SDRAM
- ◆ 6.4Gb enhanced IDE hard disk
- ◆ 2Mb high performance graphics accelerator with support for MPEG-1 video playback
- ◆ 13.3" TFT display with 1024x768 resolution and 64000 colour palette
- ◆ 20 speed CD-ROM drive built-in
- ◆ USB port
- ◆ Super slim design with superior quality fit and finish

### Voyager 4000 models also feature:

- ◆ Built-in touchpad with palm rest
- ◆ Built-in full duplex 16bit stereo sound with stereo speakers and microphone
- ◆ Jacks for external microphone and stereo line in/out
- ◆ 3.5" floppy drive (swaps with CD-ROM drive or connects to parallel port)
- ◆ ZV-enabled PCMCIA ports for two type II or one type III card
- ◆ MIDI/game port
- ◆ 16550 compatible serial port
- ◆ EPP/ECP bi-directional parallel port
- ◆ PS/2 mouse or keyboard port
- ◆ External monitor port (runs simultaneously)
- ◆ Infra red data link
- ◆ Anchor for Kensington security cable
- ◆ Windows95 installed (Windows95 is a no cost option)
- ◆ 334 x 250 x 51mm
- ◆ 4.75kg

**4½ hour battery life**  
Source: Ziff-Davis BatteryMark 2.0



### Voyager 4000 Office models also have:

- ◆ Microsoft Office97 Small Business Edition (see page 7)



### Voyager 4000 - 13.3" TFT display, Li-Ion battery

	MULTIMEDIA (TFT)	Office (TFT)
Pentium® II 233	£1799.VAT (£2115.83)	£1939.VAT (£2278.33)
Pentium® II 266	£1999.VAT (£2348.83)	£2139.VAT (£2513.33)
Pentium® II 300	£2249.VAT (£2642.58)	£2389.VAT (£2807.08)

### Voyager 4000 upgrades

Car cigar lighter adaptor.....	£79+VAT (£92.83)
Second battery.....	£129+VAT (£151.58)
Port replicator.....	£149+VAT (£175.08)
Evesham Vale 56K PCMCIA modem.....	£79+VAT (£92.83)
Evesham Vale ethernet adaptor.....	£59+VAT (£69.33)

**BUY IT!**  
Don't be active

"The Voyager was the heavier... but it was clearly more robust. It also had an attractive rubberised coating."  
"When the lid is opened the keyboard raises slightly at the rear to provide an improved typing angle, which makes the machine more comfortable than the average to use."  
EveshamVale Voyager 4000

## We've got you covered...

### 2 YEAR WARRANTY WITH ACCIDENTAL DAMAGE INSURANCE

On-site maintenance is not really practical with notebook computers - but how many of our competitors look after you this well? All Voyager notebooks have a two year 'return to base' warranty with accidental damage insurance as well! For a modest sum you can extend this peace of mind to three years.

### 3RD YEAR WARRANTY

Models up to £1700+VAT.....	£99
Models from £1700+VAT to £2500+VAT.....	£129
Models from £2500+VAT to £3200+VAT.....	£179

The extended warranty rates are exempt from VAT and are applicable only at time of purchase.

Now Open On Sunday

### Computer Luggage

Stylish, practical carry cases for your notebook and accessories.



£50+VAT

New York (back pack)  
£35+VAT (£41.13)

Madrid  
£30+VAT (£35.25)

### Microsoft software bundles Available with any EveshamVale Multimedia or Media98 PC - see page 7 for details

BIRMINGHAM  
0121 683 6868  
Fax: 0121 683 6869

CAMBRIDGE  
01223 323 898  
Fax: 01223 322 883

MILTON KEYNES  
01908 230 898  
Fax: 01908 230 865

LEEDS  
0113 203 2000  
Fax: 0113 203 2001

DUBLIN  
00 353 1 855 4444  
Fax: 00 353 1 855 4440

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EveshamVale FREEPHONE DIRECT SALES 0800 496 0800 Web: http://www.evesham.com

**FREEPHONE BUSINESS SALES**  
**0800 389 9393**  
**Evesham Vale**  
 Web: <http://www.evesham.com>

# Evesham Vale



## Prestige

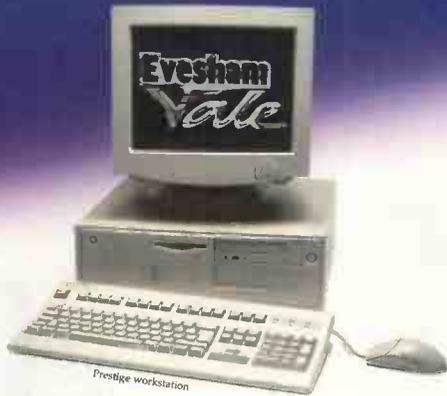
The Prestige offers an entry level solution to your business requirements.

- Intel Celeron 333MHz processor
- Intel 440EX AGPset
- 64Mb SDRAM
- 4Gb Hard Disk
- ATI 4Mb 3D Charger AGP video card
- 15" Evesham Vale Monitor

**£579 +VAT**

*Evesham Finance example:*  
**£20.83 +VAT per month\***

**Prestige upgrades**  
 64Mb to 96Mb RAM .....£40+VAT



## Rapier Server

Fast and reliable, the Rapier Server is a real office workhorse. From a modest print and file server to a powerful SBS implementation, the possibilities are endless.

- Intel Pentium® II 400MHz processor (upgradeable to dual processors)
- 128Mb high performance RAM
- Safety first - 9Gb Ultra Wide SCSI hard disk and dual redundant PSUs
- Dedicated server case for maximum expansion potential

**£2149 +VAT**

*Evesham Finance example:*  
**£77.30 +VAT per month\***

**Rapier Server upgrades**  
 P II-400 to dual P II-400 processor .....£400+VAT  
 128Mb to 256Mb RAM .....£160+VAT  
 4/8Gb DAT drive .....£650+VAT  
 12/24Gb DAT drive .....£799+VAT



## Samurai RAID Server

Safe, secure and powerful - the Samurai RAID Server uses industry proven technology to give you the peace of mind that comes from knowing that your data integrity will be maintained.

- Intel Pentium® II 400MHz processor (upgradeable to dual processors)
- Maximum data protection with 27Gb Ultra Wide RAID 5 hot swappable hard disks
- Handle applications with 128Mb high performance RAM
- Delivered and commissioned on-site free of charge

**£3399 +VAT**

*Evesham Finance example:*  
**£122.28 +VAT per month\***

**Samurai RAID Server upgrades**  
 P II-400 to dual P II-400 processor .....£400+VAT  
 128Mb to 256Mb RAM .....£160+VAT  
 4/8Gb DAT drive .....£650+VAT  
 12/24Gb DAT drive .....£799+VAT



## Evesham Micros

### BUSINESS SALES CENTRES:

- Put a face to your business partner with a dedicated account manager
- Local experience and on the spot advice
- Voted best "Product knowledge of sales staff" In Computer Weekly survey
- Local technical support and engineering



## Does your network have up to 25 users?

### Microsoft BackOffice Small Business Server

Microsoft BackOffice Small Business Server (SBS) helps provide easier ways to run your business

- A reliable and stable network operating system for business applications
- Efficient file and printer sharing between users
- Communicate with colleagues and customers through secure e-mail
- Gain controlled access to the Internet.
- **Without** the expense and luxury of a full-time IT specialist on the payroll

Ultimately, **SBS** combined with an **EveshamVale server** and the **right advice** provides the complete solution that makes it easy to **grow** and manage **your company**.

From **£999 +VAT** for a 5 client license

## Evesham FINANCE

All equipment and services from Evesham Micros can be financed through Evesham Finance.

### Why Evesham Finance?

- Spread the cost of equipment over realistic life
- No large capital outlay
- Payments Inflation proof
- Automatic Change Out Options
- 100% tax allowable as a revenue expense
- Specialist Finance solutions for all Businesses and Public sector

For an immediate free consultation call Evesham Finance Helpdesk on **0800 496 0600**

\*Evesham Finance examples are for a 3 year period. This facility is offered subject to status.

# Evesham Micros

FREEPHONE BUSINESS SALES

**0800 389 9393**

Web: <http://www.evesham.com>

# PROFESSIONAL

**Dublin Branch  
Now Open**

Tel: 00 353 1 895 4444

**FREEPHONE BUSINESS SALES**  
will route you to your nearest branch

## 0800 389 9393

**EVESHAM** (fax 01386 769781)  
**BIRMINGHAM** (fax 0121 683 6869)  
**CAMBRIDGE** (fax 01223 322883)  
**MILTON KEYNES** (fax 01908 230865)  
**LEEDS** (fax 0113 203 2001)  
**GLASGOW** (fax 0141 445 2626)

"Don't log on - the network's down..."

"My printer's not working!"

"Who's got the data backup??"

Sound Familiar? How much does this currently cost your company?

**Free network health check**  
worth up to £500

Do you qualify? Call  
0800 389 9393 and ask.

**3 year** on-site maintenance  
All EveshamVale Servers and DesignStations have 3 years on-site maintenance for parts and labour, operated by Evesham Micros' own engineers, with next business day response.

CALL OUR EXPERTS NOW FOR ALL YOUR  
**SOFTWARE & LICENSING REQUIREMENTS**

**FREEPHONE BUSINESS SALES**  
**0800 389 9393**  
Web: <http://www.evesham.com>

*Quad processor capable*

# ZenQua Server

*Pentium® II Xeon® processor(s)*

The ultimate solution to your mission critical system requirements: the ZenQua Server is the server you can depend on

**DUAL or QUAD**



- Dual Intel Pentium® II Xeon 400MHz processors with 1Mb cache (upgradeable to quad processors)
- 54Gb RAID array
- 512Mb high performance RAM
- Delivered and commissioned on-site free of charge

## £12999 +VAT

*Evesham Finance example:*  
**£460.42 +VAT** per month\*



*Closed view*

### ZenQua Server upgrades

Pentium II Xeon 400MHz 1Mb cache.....	£1700+VAT
512Mb memory board upgrade .....	£700+VAT
Rack mount kit .....	£150+VAT
HP DLT 40Gb internal storage .....	£2199+VAT
HP DLT 70Gb external storage.....	£4799+VAT



*ZenQua Server*

This is an example configuration - call us on 0800 389 9393 to discuss your specific requirements

## DesignStation

Experience astonishing performance - at a fraction of the cost of a typical workstation from the likes of Sun or Silicon Graphics.

**DUAL**



- Dual Intel Pentium® II Xeon 400MHz processors with 512kb cache
- 128Mb SDRAM
- 2x 9Gb SCSI hard disks with Adaptec 2940 LVD U2W controller
- Diamond Fire GL1000 8Mb professional video card
- 21" Taxan Ergovision 2160 TCO95 monitor with DiamondTron tube

## £3999 +VAT

*Evesham Finance example:*  
**£143.84 +VAT** per month

### DesignStation upgrades

128Mb to 256Mb RAM.....	£240+VAT
4/8Gb DAT drive .....	£650+VAT
12/24Gb DAT drive.....	£799+VAT



*DesignStation*

# Evesham Micros

# Evesham Micros

**FREEPHONE BUSINESS SALES**  
**0800 389 9393**  
Web: <http://www.evesham.com>

**FREEPHONE DIRECT SALES**  
**0800 496 0800**  
 Web: <http://www.evesham.com>

# Evesham Micros

## Peripherals

### MOTHERBOARDS

*Buy a motherboard and processor together, and you get a free heatsink and fan.*

Name	Form factor	Processor support			Chipset	Cache	RAM support				Exp. slots			Price
		K6	Pentium	Pentium II			Fast page/EDO	SD	ISA	PCI	AGP	USB		
Chaintech 5TDM	Baby AT	•	•		430TX	512kb	•	•	•	3"	4"		Opt*	£45+VAT (£52.80)
Chaintech 5TTM	ATX	•	•		430TX	512kb	•	•	•	4"	4"		Opt*	£45+VAT (£52.80)
Chaintech 6ESA	ATX		•		430EX	on CPU	•	•	•	2"	2"	1	•	£59+VAT (£69.33)
Chaintech 6LTM-2	ATX		•		440LX	on CPU	•	•	•	2"	4"	1	•	£61+VAT (£71.83)
Chaintech 6BTM	ATX		•		440BX	on CPU	•	•	•	3"	4"	1	•	£79+VAT (£92.83)

Note some motherboard features may not work without Windows 98 \*One slot shared †Use of USB requires cable @ £5+VAT (£5.80)



**CHAINTECH**  
COMPUTER CO., LTD.

**SeeCPU** Innovative simple CPU installation via BIOS - no jumpers  
**APTC** High security Active Processor Temperature Control - multi-level CPU temperature protection function

**RUN!PC**  
"Technology Creativity" award, Chaintech 5TDM & 5TTM



### AnandTech

**5TTM**  
"features the spectacular SeePU jumperless CPU setup"  
"I suggest that you seriously consider the Chaintech 5TTM"  
Ratings:  
Performance \*\*\*\*\*  
Ease of use \*\*\*\*\*  
Documentation \*\*\*\*\*

**6ESA**  
"...don't underestimate the power this puppy packs. Its meek bark is made up for by sheer power..."  
"...you can enjoy the awesome FPU performance of a Celeron/6ESA combo for a previously unheard of price..."  
AnandTech's website

### 6BTM

"This motherboard offers a lot of functionality and good performance figures for a good price."  
"Nice manual with stickers, 4 DIMMs and temperature probe, very good price." ComputerTotaal (Netherlands)

### 6LTM-2

"...the 6LTM certainly proved one of the most reliable."  
"If your looking for a motherboard to overclock your PII on, you can't do much better than this wonderful fully featured board."  
PC Format - Rating 91%



## UPGRADE PACKS

- 430TX motherboard, Winchip 200 & Fan .....£79+VAT (£92.83)
- 430TX motherboard, Winchip 200, Fan & Case.....£99+VAT (£116.33)

- Chaintech 6BTM Motherboard, Celeron 333, Cooler, 64Mb PC100 SDRAM...£209+VAT (£245.58)
- Chaintech 6BTM Motherboard, Pentium II-350, Cooler, 64Mb PC100 SDRAM...£289+VAT (£339.58)
- Chaintech 6BTM Motherboard, Pentium II-400, Cooler, 128Mb PC100 SDRAM...£469+VAT (£551.08)

Windows 98 CD (only available with bundle).....£59+VAT (£69.33)  
 Note - some motherboard features may not be supported without upgrading to Windows 98



Chaintech 6ESA Motherboard, Celeron 333MHz, Cooler & 32Mb .....£199+VAT (£233.83)

### CASES WITH POWER SUPPLY

Style	Form factor	Drive bays		Price
		Internal	External	
Mini-tower	Baby AT	2x3.5"	3x5.25" 2x3.5"	£29+VAT (£34.08)
Desktop	ATX	1x5.25" 2x3.5"	2x5.25" 1x3.5"	£59+VAT (£69.33)
Mini-tower	ATX	3x3.5"	2x5.25" 3x3.5"	£49+VAT (£57.58)

### PROCESSORS

- Celeron 333.....£119+VAT (£139.83)
- Pentium II 350.....£159+VAT (£186.83)
- Pentium II 400.....£279+VAT (£327.83)

### MEMORY MODULES

- 4Mb 72-pin .....£12+VAT (£14.10)
- 8Mb 72-pin .....£19+VAT (£22.33)
- 16Mb 72-pin .....£35+VAT (£41.13)
- 4Mb EDO .....£11+VAT (£12.93)
- 8Mb EDO .....£18+VAT (£21.15)
- 16Mb EDO .....£34+VAT (£39.96)
- 32Mb EDO .....£69+VAT (£81.08)
- SDRAM DIMMs
- 32Mb .....£40+VAT (£47.00)
- 64Mb PC100 .....£90+VAT (£105.78)
- 128Mb PC100 .....£170+VAT (£199.75)
- Twinhead SIlmnote memory
- 8Mb for SL7 .....£39+VAT (£45.83)
- 16Mb for SL7 .....£59+VAT (£68.18)
- 32Mb for SL7 .....£109+VAT (£128.08)
- 16Mb for SL9 .....£59+VAT (£69.33)

### 120MB FLOPPY DRIVE

- LS-120 internal with controller card.....£79+VAT (£92.83)
- LS-120 internal no controller card.....£55+VAT (£64.63)
- 120Mb floppy disk .....£14+VAT (£18.45)
- Panasonic 1.44Mb floppy disk drive.....£15+VAT (£17.63)

### STORAGE & BACKUP

- Omega ditto tape drives:**
- Tapes for ditto 2Gb .....3 pack £39+VAT (£45.83)
- Tapes for ditto 3.2Gb .....£25+VAT (£29.38)
- Omega ditto Max tape drives:**
- 10Gb Internal .....£184+VAT (£216.20)
- Tapes for ditto Max 10Gb .....£22+VAT (£25.85)
- All ditto capacities quoted are with 2x compression
- Omega zip drives:**
- Zip ext drive 'parallel port' .....£95+VAT (£111.63)
- Cartridge for zip drive .....£12+VAT (£14.10)
- Cartridge for zip drive .....5 pack £55+VAT (£64.63)
- Battery back for zip drive .....£49+VAT (£57.58)
- Omega 1Gb jaz drives:**
- Cartridge .....£69+VAT (£81.08)
- Omega 9Gb jaz drives:**
- Internal .....£349+VAT (£410.08)
- external .....£419+VAT (£492.33)
- SCSI card .....£69+VAT (£81.08)
- Cartridge .....3 pack £279+VAT (£327.83)



SureStore 12/24Gb DAT drive .....£799+VAT (£938.83)



120m DAT tape .....£25+VAT (£29.38)  
 4/8Gb Internal DAT drive .....£650+VAT (£763.75)

### HARD DISKS & CONTROLLERS

- Optional installation kit (5.25" mounting bracket plus cables).....£10+VAT (£11.75)
- Quantum®**
- Fireball EL 7.6Gb Ultra-ATA .....£149+VAT (£175.08)
- Viking II LVD 4.5Gb SCSI (3.5") .....£235+VAT (£278.13)
- Viking II LVD 9Gb SCSI (3.5") .....£399+VAT (£468.83)

- Seagate** 1.2Gb IDE .....£79+VAT (£92.83)
- SAMSUNG** 6.4Gb IDE .....£105+VAT (£123.38)
- ELECTRONICS** 8.4Gb IDE .....£129+VAT (£151.58)
- PROMISE** Promise PCI Ultra ATA controller .....£49+VAT (£57.58)

### MODEMS

**Quality hardware voice modems**  
 Internet access starter pack: includes full Internet and World Wide Web access software, with first month membership free and 10 hours free on-line time  
 Cables included  
 K56flex units include SuperVoice software  
 v.90 ready

- K56flex internal** .....£49+VAT (£57.58)
- K56flex external .....£59+VAT (£69.33)
- 56K PCMCIA (not voice) .....£79+VAT (£92.83)

### ISDN card

- Plug & Play 16 bit ISDN card
- 32 bit VxD CAPI 2.0 driver
- Answering machine
- Telephone book/call log
- Telephone through port
- RVS-COM software for Windows 95/NT
- Provides Microsoft Internet Explorer, Fax group 3 reception/transmission, and E-mail

- 56 Voice Internal .....£79+VAT (£92.83)
- 56 Voice external (supports UK caller ID) .....£109+VAT (£128.08)
- 56 PCMCIA .....£99+VAT (£116.33)
- 56 Solo .....£155+VAT (£182.13)

- Robotics®** Sportster 56.6 Flash external...£92+VAT (£108.10)
- Sportster Message Plus .....£135+VAT (£156.63)
- Courier ISDN internal .....£259+VAT (£304.33)
- Courier ISDN external .....£259+VAT (£304.33)

All modems include Internet connection software with free trial connection period.

### Network Products

- PCI ethernet adaptor .....£29+VAT (£34.08)
- PCMCIA ethernet adaptor .....£59+VAT (£69.33)

- Intel** Pro 10/100 PCI .....£55+VAT (£64.63)
- Pro 10/100 PCI .....5 pack £259+VAT (£304.33)
- 10Mbps 5 port hub .....£45+VAT (£52.86)
- 10Mbps 8 port hub with BNC .....£65+VAT (£76.38)
- 100Mbps 4 port fast hub .....£135+VAT (£158.63)
- 100Mbps 8 port fast hub .....£245+VAT (£287.88)
- 100Mbps 8 port fast hub with 10/100 bridge port .....£485+VAT (£569.88)
- 10Mbps 8 port switch .....£365+VAT (£428.86)
- 10Mbps 8 port switch with two 10/100 bridge ports .....£499+VAT (£586.33)
- Internet station .....£275+VAT (£323.13)

- hp** Jet Direct External Plus 3 .....£265+VAT (£311.38)
- 3Com™** 3C509 Combo .....£75+VAT (£88.13)
- 3C589 PCMCIA Combo .....£119+VAT (£139.83)
- OfficeConnect products:
- 3C16704 Hub TP4 .....£51+VAT (£59.93)
- 3C16700 Hub 8/TP0 .....£79+VAT (£92.83)
- 3C16702 Hub TP16C .....£175+VAT (£205.63)
- 3C16720 Hub 8/TP100 .....£485+VAT (£569.88)

### UPSs

**Protect your installation from mains power faults with an uninterruptible power supply.**  
**Station series UPSs**  
 Reliable protection from mains surges, spikes, noise and failure  
 Interface port and power management software for automatic system shutdown and remote alarm notification by paglng/email

- Station 280 (280VA) .....£99+VAT (£118.33)
- Station 650 (650VA) .....£189+VAT (£222.06)
- Station 420 (420VA) .....£129+VAT (£151.58)
- Station 1000 (1kVA) .....£249+VAT (£292.56)

**System series on-line UPSs**  
 PowerSave software and intelligent interface allows comprehensive monitoring and control, plus automated alarm and shutdown routines

- System 1000 (1kVA) .....£599+VAT (£703.83)
- System 3000 (3kVA) .....£1249+VAT (£1467.88)

# Mustek

## FLATBED SCANNING

from **£45** +VAT (£52.88)

- All Mustek Scanex press flatbeds use *single-pass* scanning – much faster than models which scan each colour separately
- Colour, 8-bit grey and line art modes
- 12 built-in halftoning patterns
- Simply connects to your parallel port for easy installation
- 'Small footprint' design with compact exterior dimensions and 216mm x 296mm scan area
- Includes *IPhoto Plus* image scanning and photograph re-touching software, and powerful *Textbridge OCR* software



**PLEASE NOTE**  
remember that large scans at high resolution require a lot of RAM (or a lot of hard disk space and patience). For example, an A4 document scanned in 24 bit colour at 300dpi is 24Mb. At 600dpi it is 96Mb!

**WINNER**  
"Ease of use, great colour quality and exemplary OCR output offers both low price and impressive speed via its Enhanced Parallel Port interface...Fast and easy to setup—just five minutes and you're done" Mustek 600

### PC FORMAT

"The bundled software is impressive...The scans themselves...are satisfying and higher than you could reasonably expect for the price. The design of the case is sleek and it's compact enough to fit on the smallest desktop." Mustek 600

Family PC



**Computer PRO**  
"Mono has excellent contrast and super-sharp lines; photographic reproduction is second to none."  
"In terms of photographic reproduction the Mustek 1200 returned to the top of the tree, superbly capturing the colour and in particular the detail, of our test photograph." Mustek 1200

**PC PRO**  
"As far as output quality is concerned the Scanexpress excelled...the Scanexpress 1200P is a good choice...and a cost effective one as well."  
Quality 5/6 Value for money 5/6 Mustek 1200



SYMBOL OF EXCELLENCE WINNER

Scanexpress 600	£45 +VAT (£52.88)
Optical resolution: 300x600dpi, Interpolated resolution: 1900dpi, Colour depth: 30-bit	
Scanexpress 600 (A3 version)	£159 +VAT (£186.83)
Scanexpress 1200	£70 +VAT (£81.95)
Optical resolution: 600x1200dpi, Interpolated resolution: 9400dpi, Colour depth: 36-bit	
Scanexpress 1200 (SCSI version)	£99 +VAT (£116.33)

<b>Hewlett Packard scanner</b>	
ScanJet 4100C	£129 +VAT (£151.56)
ScanJet 5100C	£159 +VAT (£186.83)

## CD-ROM DRIVES & PACKS

### Panasonic 32x CD-ROM

**Bare drive £45 +VAT (£52.88)**



Includes cables

NB - Bare drive requires motherboard with secondary IDE connector

CR-508 24x SCSI CD-ROM drive	£85 +VAT (£103.80)
LF-D101E DVD RAM drive (internal unit, SCSI interface)	£349 +VAT (£410.08)
LM-DB26E 2.6Gb DVD RAM media	£15 +VAT (£17.83)
LM-DA52E 5.2Gb DVD RAM media	£23 +VAT (£27.03)

### TEAC

CD-524EK 24x IDE CD-ROM drive	£69 +VAT (£81.06)
CD-532EK 32x IDE CD-ROM drive	£89 +VAT (£104.58)
CD-532S 32x SCSI CD-ROM drive	£99 +VAT (£116.33)
CD-R55SK 4x12 SCSI CD-R kit	£334 +VAT (£392.45)
CD-C68E 6 disk CD-ROM autochanger	£99 +VAT (£116.33)

## CD-ROM WRITERS

hp SureStore CD-RW 7200 (external kit)	£320 +VAT (£376.00)
SureStore CD-RW 8100 (internal kit)	£259 +VAT (£304.33)
Adaptec Easy CD Creator software for above	£69 +VAT (£81.06)

Blank CD-R disks: Single ..... £1.50 +VAT (£1.76) 10 pack ..... £13 +VAT (£15.28)

## Panasonic PD DRIVE

Internal model	£199 +VAT (£233.83)
External model	£269 +VAT (£316.08)

650Mb rewritable optical disks  
Single ..... £19 +VAT (£22.33)

## WINDOWS 98

Windows 98 upgrade	£69 +VAT (£81.06)
Windows 98 Plus Pack	£29 +VAT (£34.08)

## SOUND CARDS

CREATIVE SOUND BLASTER Live	£119 +VAT (£139.83)
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## SPEAKER SYSTEMS

**TEAC Power-MAX 1000 £149 +VAT (£175.08)**

"We've seen many speaker sets with the Dolby Pro Logic logo on them, but this is the first one that fulfils the criteria... The sound produced is pretty impressive... better than anything else available for the PC"



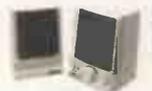
## YAMAHA YST-MS25

- Yamaha Active Servo Technology
  - Magnetically shielded
  - Subwoofer
  - Dual stereo inputs
- £69 +VAT (£81.06)**



## ZY-FI COMPACT £12 +VAT (£14.10)

- 16 Watts PMPO (4 Watts RMS)
- Active or Passive use (active use requires batteries or optional mains adaptor)
- Magnetically shielded
- Volume Control
- Bass Booster
- Treble Booster



## ZY-FI 2 PRO £49 +VAT (£57.58)

"These are the boys to add a bit of oomph to your PC." PC Answers "Recommended" Rating 9/10. "Excellent value for money." PC Zone Rating 9/10. "a lot of sound for the money" PC Plus Rating 6/6. "sound quality on a different level from the other speakers" PC Guide "Best Buy" September 1996

- 120 Watts PMPO (36 Watts RMS)
- Magnetically Shielded
- 140 x 230 x 150mm
- Volume Control
- Bass control
- Treble control



# Mustek

## DIGITAL CAMERA

Superb colour pictures – straight into your PC (No fuss, no films, no developing costs, and no scanner required!)

- Capture vibrant colour images any time, any place for instant use with your PC or laptop
- Use it to build-up your family album, or create flyers, adverts, newsletters, reports, or for property guides or insurance claims
- Simple point and shoot operation – fixed focus lens and automatic exposure
- 1.8" colour LCD screen for viewfinding and picture review
- Up to 640x480 resolution with 24 bit colour
- Fixed focus lens – 250mm to infinity
- Built-in 2Mb flash memory
- Store up to 48 images in memory, then download to your PC with the serial cable supplied
- Internal slot supports CF card for extra memory
- Auto flash
- Preview the output image on the camera, a PC or your TV screen
- Complete with batteries, image editing software, TWAIN driver, carry pouch and mains supply!
- USB (Universal Serial Bus connection) (Requires Windows98)



**Mustek VDC-300**  
**£159 +VAT (£186.83)**

System requirements: 486 or higher processor, Windows 3.1 or higher, 3.5" floppy disk drive, hard disk drive with at least 15Mb available, 8Mb RAM or higher, 256 colour VGA display or higher, RS232 serial port

## PANASONIC CD RECORDABLE

Create your own CDs!

- Easily create data, audio and multimedia CDs on your PC.
- Send video postcards on CD that automatically play on any PC.
- Back up important files such as tax records, spreadsheets and financial data.



Panasonic CW7582 CD-Writer (4x write, 8x read)	£150 +VAT (£176.25)
Adaptec CD Creator software	£15 +VAT (£17.83)

Blank CD-R disk	£1.50 +VAT (£1.76)
Blank CD-R disk (10 pack)	£13 +VAT (£15.28)

## VIDEO CARDS

<b>canopus DVREX-M1</b>	
The complete DV editing system	£1899 +VAT (£2231.33)
DVREX-M2 option board	£300 +VAT (£352.50)

See the EveshamVale MovieStation on page 4 for full details

3D Charger 2Mb (PCI Bus)	£25 +VAT (£29.38)
3D Charger 4Mb (PCI Bus)	£33 +VAT (£38.76)
3D Charger 4Mb (AGP Bus)	£34 +VAT (£39.95)
All-in-Wonder Pro 8Mb (AGP)	£109 +VAT (£128.88)
Xpert 98 8Mb (AGP)	£49 +VAT (£58.58)
ATI TV (TV tuner card)	£69 +VAT (£81.06)

CREATIVE Voodoo 2 12Mb	£129 +VAT (£151.58)
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EveshamVale 4Mb 3DFX card	£49 +VAT (£57.58)
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## KEYBOARDS, JOYSTICKS ETC

<b>MITSUMI</b> Mouse as used in EveshamVale	
Prestige PCs	£10 +VAT (£11.75)
EveshamVale Windows 95 Keyboard	£10 +VAT (£11.75)

## KEY TRONIC "Windows 95" Keyboard

as used in EveshamVale Platinum PCs. £25 +VAT (£29.38)	
"one of the best weighted and most comfortable set of keys of any mainstream keyboard and with its well rated noise and full Win95 compatibility, it gets our top vote." PC Plus	
Flightstick	£27 +VAT (£31.73)
Flightstick Pro	£49 +VAT (£57.58)
Virtual Pilot	£62 +VAT (£72.85)
Virtual Pilot Pro	£65 +VAT (£76.38)
PRODUCTS Pro Pedals	£69 +VAT (£81.06)

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ThinkPad 380XD	LAP842	P233 MMX	12.1" TFT	32	4.0Gb	24X	No	£1154	£1355.95
ThinkPad 380XD	LAP843	PII 266	12.1" TFT	32	5.1Gb	24X	No	£1528	£1795.64
ThinkPad 560X	IB0580710	P233 MMX	12.1" TFT	32	4.0Gb	No	No	£1324	£1555.70
ThinkPad 600	IB0580738	P233 II	13.3" TFT	32	3.2Gb	24X	No	£1864	£2190.20
ThinkPad 600	IB0580748	P266 II	13.3" TFT	32	4.0Gb	24X	No	£2173	£2553.28
ThinkPad 600	IB0580777	P233 II	12.1" TFT	32	3.2Gb	24X	No	£1498	£1995.15
ThinkPad 770e	IB0580958	P266 II	14.1" TFT	32	5.1Gb	No	No	£2229	£2619.08
ThinkPad 770ed	IB0580954	P266 II	14.1" TFT	64	8.1Gb	DVD	No	£2825	£3319.38

COMPAQ									
Armada 5233SB	LAP651	P233 MMX	12.1" DSTN	32	4.0Gb	20X	No	£1135	£1333.63
Armada 4210T	LAP628	P233 MMX	12.1" TFT	32	4.0Gb	24X	No	£1484	£1743.70
Armada 4220T	CP081012L	P266 MMX	12.1" TFT	32	4.0Gb	No	No	£1459	£1949.33
Armada 1700	LAP632	PII 233	12.1" TFT	32	4.0Gb	24X	MP3	£1163	£1366.63
Armada 1700	LAP633	PII 233	12.1" TFT	32	4.0Gb	24X	No	£1163	£1366.63
Armada 1700	LAP634	PII 266	13.3" TFT	32	4.0Gb	24X	No	£1491	£1751.93
Armada 7800	CP081025P	PII 266	13.3" TFT	64	5.0Gb	20X	No	£2021	£2374.68
Armada 7800	CP081013P	PII 266	14.1" TFT	64	8.0Gb	24X	No	£2373	£2788.28
Armada 3500	CP081030P	PII 266	12.1" TFT	32	4.1Gb	OPTION	£1615	£1897.63	
Armada 3500	CP081031P	PII 300	13.3" TFT	32	6.4Gb	OPTION	£2097	£2463.98	
Armada 6500	CP081020P	PII 300	14.1" TFT	64	6.4Gb	24X	No	£2665	£3131.38
Armada 7400	CP081030P	PII 266	13.3" TFT	32	4.0Gb	24X	No	£1835	£2156.13
Armada 7400	CP081030P	PII 300	13.3" TFT	64	6.4Gb	24X	No	£2227	£2616.73

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Omnibook 2100	HP943C900	PII 266	12.1" TFT	32	4.0Gb	24X	No	£1350	£1586.25
Omnibook 2100	HP943C901	PII 300	13.3" TFT	64	4.0Gb	24X	No	£2049	£2407.58
Omnibook 3100	LAPHP53	P266 MMX	13.3" TFT	32	4.0Gb	20X	No	£2007	£2358.23
Omnibook 4100	LAPHP54	PII 233	13.3" TFT	32	4.0Gb	20X	No	£1635	£2156.13
Omnibook 4100	HP943C902	PII 266	14.1" TFT	32	4.0Gb	20X	No	£2079	£2442.83
Omnibook 4100	LAPHP54	PII 266	14.1" TFT	32	4.0Gb	20X	No	£2283	£2682.53
Omnibook 7100	LAPHP57	P266 II	14.1" TFT	32	6.4Gb	20X	No	£2299	£2701.33
Omnibook 7100	LAPHP58	P266 II	14.1" TFT	32	8.0Gb	20X	No	£2648	£3111.40
Omnibook Sovereign	LAPHP25	P233 MMX	12.1" TFT	64	2.1Gb	20X	No	£2243	£2635.53
Omnibook 4150	HP943C903	PII 300	14.1" TFT	64	6.4Gb	24X	No	£2587	£3039.73
Omnibook 7150	HP943C904	PII 300	14.1" TFT	64	8.1Gb	20X DVD	No	£2823	£3317.03

TWINHEAD SLIMNOTES									
SLIE-26TZ	LAP7W50	P266 MMX	12.1" TFT	32	3.1Gb	20X	No	£1055	£1239.63
SLV2-23TZ	LAP7W51	P233 II	12.1" TFT	32	3.1Gb	20X	No	£1266	£1487.55
SLV2-26TZ	LAP7W52	P266 II	12.1" TFT	32	4.0Gb	20X	No	£1495	£1756.63
SLEX-23TG	LAP7W53	P233 MMX	13.3" TFT	64	3.1Gb	20X	No	£1319	£1549.83
SLEX-26TG	LAP7W54	P266 MMX	13.3" TFT	64	4.0Gb	20X	No	£1459	£1714.33
SLE2-26TG	LAP7W55	P266 II	13.3" TFT	64	3.1Gb	20X	No	£1407	£1653.23
SLE2-26TG	LAP7W56	P266 II	13.3" TFT	64	4.0Gb	20X	No	£1635	£1921.13
SLE2-30TG	LAP7W57	P300 II	13.3" TFT	64	6.4Gb	20X	No	£2014	£2366.45

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- HP Brio Center (One stop shop for all documentation and support information)
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- HP Communicate and Share Center for easy sharing and access to network resources
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Model	Processor	RAM	Cache	Hard Drive	CD-ROM	Graphics	OS	Price	Inc VAT
HP Brio 831	Pentium @ 266 celeron	NO	32Mb	2.1Gb	NO	526K S3 Trio64V2	Win 95	£429.99	£505.24
HP Brio 831B	PCHP37 Pentium @ 300	NO	32Mb	4GB	24X	512K 2MB	Win 95	£489.99	£589.99
HP Brio	HPBRI01K Pentium @ 300celeron	15"	64Mb	3.2Gb	NO	MATROX G100 2MB	Win 95	£589.99	£693.24
HP Brio	HPBRI02K Pentium @ 333celeron	17"	64Mb	8GB	32X	MATROX G100 2MB	Win 95	£799.99	£939.99
HP Brio	HPBRI03K Pentium @ 450	17"	64Mb	10GB	32X	MATROX G200 4MB	Win 95	£1089.99	£1280.74
HP Brio	HPBRI04 Pentium @ 11300	NO	32Mb	4GB	NO	5.2K S3 Trio64V2	in 5	£359.99	£469.99

#### HEWLETT PACKARD VECTRAS

Model	Processor	RAM	Cache	Hard Drive	CD-ROM	Graphics	OS	Price	Inc VAT
HP Vectra VL7DT	HP9439051 Pentium @ 11300	NO	32Mb	3.2Gb	NO	512K CirrusLogic 5465 4MB	Win NT	£511.99	£895.34
HP Vectra VL7DT	HP9439052 Pentium @ 300	NO	64Mb	4.3Gb	24X	512K MATROX MILL II 8MB	Win NT	£901.99	£1063.36
HP Vectra VL7DT	HP9439065 Pentium @ 11333	NO	32Mb	4.3Gb	24X	512K CirrusLogic 5465 4MB	Win 95	£821.99	£968.19
HP Vectra VL7MT	HP9439137 Pentium @ 11333	NO	64Mb	6.4Gb	24X	512K MATROX MILL II 8MB	Win NT	£992.99	£1166.26

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Model	Processor	RAM	Cache	Hard Drive	CD-ROM	Graphics	OS	Price	Inc VAT
HP Kayak XA6MT	HP9437659 Pentium @ 300	NO	64Mb	4.5Gb	24X	512K CirrusLogic 5465 4MB	Win NT	£1493.99	£1990.44
HP Kayak XA6MT	HP9439258 Pentium @ 11333	NO	64Mb	6.4Gb	24X	512K CirrusLogic 5465 4MB	Win NT	£1588.99	£1867.06
HP Kayak XA6MT	HP9439259 Pentium @ 11333	NO	64Mb	4.5Gb	24X	512K CirrusLogic 5465 4MB	Win NT	£1628.99	£2149.06

TYPE	SKU	PROCESSOR	MON	RAM	HDD	CD	CACHE	GRAPHICS	OP/SY	PRICE	INC/VAT
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#### COMPAQ DESKPRO EP

EP-DT	CP0876C756	Pentium @ 300celeron	NO	64Mb	4.3Gb	NO			Win 95	£535.99	£829.79
EP-DT	CP0876C757	Pentium @ 300celeron	NO	64Mb	4.3Gb	NO			WIN NT	£608.99	£715.56
EP-DT	CP0876C820	Pentium @ 300celeron	NO	64Mb	6.4Gb	24X		4MB	Win 95	£633.99	£744.34
EP-DT	CP0876C842	Pentium @ 300celeron	NO	64Mb	6.4Gb	24X		4MB	Win NT	£677.99	£96.64
EP-DT	CP0876C864	Pentium @ 333celeron	NO	32Mb	4.3Gb	NO	728K	4MB	Win 95	£565.99	£665.00
EP-DT	CP0876C886	Pentium @ 333celeron	NO	64Mb	4.3Gb	NO	728K	4MB	Win NT	£638.99	£750.81
EP-DT	CP0876C908	Pentium @ 333celeron	NO	64Mb	6.4Gb	24X	128K	4MB	Win 95	£666.99	£783.71
EP-DT	CP0876C930	Pentium @ 333celeron	NO	64Mb	6.4Gb	24X	128K	4MB	Win NT	£710.99	£835.41
EP-DT	CP0876D087	Pentium @ 11350	NO	64Mb	4.3Gb	NO	512K	8MB	Win 95	£729.99	£857.74
M3200/W95	BRC0811	Pentium @ 11300	NO	32Mb	3.2Gb	24X	512K	ATI RAGE IIC	Win 95	£812.99	£955.26
M6400/W95	BRC0815	Pentium @ 11350	NO	64Mb	6.4Gb	24X	512K	ATI RAGE PRO	Win 95	£917.99	£1078.64
M6400/W95	BRC0813	Pentium @ 11700	NO	64Mb	6.4Gb	24X	512K	ATI RAGE PRO	Win 95	£1062.99	£1249.01

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EXPERT	PCSN166	Pentium @ 166 MMX	NO	32Mb	1.5Gb	YES	256K	2Mb 3D	Win 95	£369.00	£433.58
ProM6	PCSN31	Pentium @ 266 celeron	NO	32Mb	3.2Gb	NO	512K	ATI VTA 2Mb	Win 95	£415.00	£487.23
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Equium 7000D	PCTS13	Pentium @ 11300	NO	32Mb	4.3Gb	24X	256K	ATI 3D RAGE AGP 2MB	Win 95	£717.99	£843.64
Equium 7100S	PCTS16	Pentium @ 11350	NO	64Mb	4.3Gb	24X	256K	ATI 3D RAGE AGP 2MB	Win 95	£781.99	£918.84
Equium 7100D	PCTS18	Pentium @ 11350	NO	64Mb	4.3Gb	24X	256K	ATI 3D RAGE AGP 2MB	Win 95	£823.99	£968.19
Equium 7100S	PCTS19	Pentium @ 11700	NO	64Mb	4.3Gb	24X	512K	ATI 3D RAGE AGP 2MB	Win 95	£924.99	£1086.86
Equium 7100D	PCTS20	Pentium @ 11400	NO	64Mb	4.3Gb	24X	512K	ATI 3D RAGE AGP 2MB	Win	£966.99	£1136.21
Equium 7000S	PCTS15	Pentium @ 11300	NIC	32Mb	4.3Gb	24X	256K	ATI 3D RAGE AGP 2Mb	Win 95	£717.99	£843.64
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## INTERNAL SCSI CABLES - SCSI II

BC30	SINGLE DRIVE 30CM	£4.00	£4.70
BC30-60	SINGLE DRIVE 60CM	£5.00	£5.88
BC40	2 DRIVES 58CM	£6.00	£7.64

## SCSI III

BC60	SINGLE DRIVE 30CM	£21.00	£24.68
BC70	SINGLE DRIVE 60CM	£24.00	£28.20
BC50	2 DRIVE 90CM	£32.00	£37.60
BC80	3 DRIVE 90CM	£39.00	£45.83
BC90	4 DRIVE 100CM	£59.00	£69.33
BC100	SCSI III/SCSI I ADAPTOR MD688M/50M	£27.00	£31.73
BC110	SCSI III/SCSI I ADAPTOR MD688F/50F	£23.00	£27.03

## EXTERNAL SCSI CABLES AND SCSI TERMINATORS - SCSI I

BC115	DB25/CENT 50M 90CM	£10.00	£11.75
BC120	DB25M/CENT 50M 1.8M	£12.00	£14.10
BC130	CENT 50M/CENT 50M 90CM	£10.00	£11.75
BC125	CENT 50M/CENT 50M 1.8M	£13.00	£15.28
BC135	TERMINATOR SINGLE CENT 50M PASSIVE	£7.00	£8.23
BC140	TERMINATOR SINGLE CENT 50M ACTIVE	£12.00	£14.10
BC145	TERMINATOR IN LINE CENT 50M/CENT 50F PASSIVE	£12.00	£14.10
BC150	TERMINATOR IN LINE CENT 50M/CENT 50F ACTIVE	£20.00	£23.50

## SCSI II

BC155	MICRO DB50M/CENT 50M 1.2M	£19.00	£22.33
BC160	MICRO DB50M/CENT 50M 1.8M	£27.00	£31.73
BC165	MICRO-DB50M/CENT 50F ADAPTOR	£15.00	£17.63
BC170	MICRO DB50M/MICRO DB50M 1.2M	£23.00	£27.03
BC175	MICRO DB50M/MICRO DB50M 1.8M	£27.00	£31.73
BC180	MICRO DB50M/DB25M 1.2M	£25.00	£29.38
BC185	MICRO DB50M/DB25M 1.8M	£30.00	£35.25
BC190	TERMINATOR MICRO DB50M SINGLE END PASSIVE	£16.00	£18.80
BC195	TERMINATOR MICRO DB50M SINGLE END ACTIVE	£19.00	£22.33

## SCSI III

BC200	SCSI II/SCSI III HDD688M/MICRO DB50M	£35.00	£41.13
BC205	HDD688M/CENT 50M 1.2M	£35.00	£41.13
BC210	HDD688M/CENT 50M 1.8M	£38.00	£44.65
BC215	DB25M/HDD688M 1.2M	£59.00	£69.33
BC220	TERMINATOR MICRO DB688M SINGLE ENDED ACTIVE	£49.00	£57.58

## HIGH QUALITY PARALLEL PRINTER CABLES - ASSEMBLED

BC300	ASSEMBLED 1.8M NON-BIDIRECTIONAL	£3.50	£4.11
BC305	ASSEMBLED 3M NON-BIDIRECTIONAL	£4.50	£5.29

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BC310	IBM NOTEBOOK PARALLEL 60CM	£6.50	£7.64
BC315	PREMIUM 1.8M BI-DIRECTIONAL	£7.50	£8.81
BC320	PREMIUM 3M BI-DIRECTIONAL	£8.50	£9.98
BC325	PREMIUM 4.5M BI-DIRECTIONAL	£9.50	£11.16
BC330	PREMIUM 6M BI-DIRECTIONAL	£10.50	£12.34
BC340	PREMIUM 7.5M BI-DIRECTIONAL	£11.50	£13.51
BC345	IEEE 1284 1.8M BI-DIRECTIONAL	£11.00	£12.93
BC350	IEEE 1284 3M BI-DIRECTIONAL	£14.50	£17.04

## HIGH QUALITY SERIAL PRINTER AND MODEM CABLES

BC370	IBM PC/LASERJET CABLE 3M	£8.50	£9.98
BC375	IBM AT/LASERJET CABLE 3M	£8.50	£9.98
BC380	IBM PC/HAYES MODEM CABLE 1.8M	£7.50	£8.81
BC385	IBM PC/HAYES MODEM CABLE 3M	£8.50	£9.98
BC390	IBM AT SERIAL ADAPTOR DB9M/DB25F	£4.50	£5.29
BC395	IBM AT SERIAL ADAPTOR DB9F/DB25M	£4.50	£5.29
BC400	IBM AT/HAYES MODEM CABLE 1.8M	£6.00	£7.05
BC410	IBM AT/HAYES MODEM CABLE 3M	£6.00	£7.05
BC420	NULL MODEM ADAPTOR DB25 M/F	£5.00	£5.88
BC425	INTERLINK/LAPLINK UNIVERSAL SERIAL CABLE 3M	£8.00	£9.40

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BC430	LAPTOP KEYBOARD/MOUSE SPLITTER CABLE 6 PIN MINI DIN MALE/2 X 6 PIN MINI DIN FEMALE	£9.00	£10.58
BC435	J/STICK "Y" 1.8M DB15M/2 X DB15 F	£7.50	£8.81
BC440	JOYSTICK EXTENSION DB15 M/F 1.8M	£7.50	£8.81
BC445	IBM PC 5 PIN DIN K/RBD EXT CABLE 1.8M	£6.00	£7.05

BC450	AT/PS2 KEYBOARD CONVERTER 5 PIN DIN F/6 PIN DIN M	£5.00	£5.88
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BC456	AT TO PS2 6 PIN MINI DIN MALE	£6.50	£7.64
BC457	PS2 to AT 6 PIN MINI DIN	£6.50	£7.64
BC458	AT MOUSE EXTENSION CABLE	£3.00	£3.53
BC495	PS2 6 PIN DIN KEYBOARD EXT. 3M	£6.00	£7.05
BC490	PS2 6 PIN DIN KEYBOARD EXT. 1.8M	£6.00	£7.05
BC470	AC POWER CABLE EXTENSION 1.8M	£6.00	£7.05
BC475	AC UK POWER CABLE 1.8M	£6.00	£7.05
BC480	VGA MONITOR EXTENSION CABLE 1.8M	£6.00	£7.05
BC485	VGA MONITOR EXTENSION CABLE 3M	£6.00	£7.05

## PREMIUM RS232 STRAIGHT THROUGH CABLES - for data switches

BC500	25 PIN MALE TO MALE 1.8M	£6.50	£7.63
BC510	25 PIN MALE TO MALE 3M	£7.50	£8.81
BC515	25 PIN MALE TO MALE 4.5M	£8.50	£9.99
BC520	25 PIN MALE TO FEMALE 1.8M	£6.50	£7.63
BC525	25 PIN MALE TO FEMALE 3M	£7.50	£8.81

## GENDER CHANGERS

BC530	DB25 FEMALE/FEMALE	£4.50	£5.28
BC535	DB25 MALE/MALE	£4.50	£5.28
BC540	DB9 FEMALE/FEMALE	£4.50	£5.28
BC545	DB9 MALE/MALE	£4.50	£5.28

## INTERNAL RIBBON CABLES

BC550	IDE DUAL HARD DRIVE CABLE 48CM	£5.00	£5.88
BC555	UNIVERSAL FLOPPY CONTROLLER	£5.50	£6.46
BC560	Y POWER SPLITTER CABLE 5.25"		
BC570	4 PIN MALE / 2 X FEMALE MPC II CD AUDIO CABLE, UNIVERSAL 3 CONNECTOR	£5.00	£5.88

## TOOL KITS

BC650	20 PIECE TOOL KIT	£19.50	£22.91
BC660	36 PIECE TOOL KIT	£37.50	£44.06
BC665	55 PIECE TOOL KIT	£47.50	£55.83
BC666	65 PIECE TOOL KIT	£57.50	£67.57

## PRINTER SWITCH BOXES

BC700	2 POSITION MANUAL SWITCH KIT WITH ALL CABLES TO CONNECT 2 COMPUTERS TO 1 PRINTER	£17.00	£19.98
BC710	2 POSITION MANUAL SWITCH KIT WITH ALL CABLES TO CONNECT 1 COMPUTER TO 2 PRINTERS	£27.50	£32.31

## COMPACT PARALLEL SWITCHES ALLOW 2 OR 4 PCs TO SHARE ONE PRINTER OR CONNECTION OF 1 PC TO 2 OR 4 PRINTERS.

BC720	COMPACT PARALLEL AUTO SWITCH REVERSIBLE 2 POSITION	£25.50	£29.96
BC730	COMPACT PARALLEL AUTO SWITCH REVERSIBLE 4 POSITION	£44.50	£52.29
BC740	IEEE 1284 BI-DIRECTIONAL 2 WAY PRINTER SWITCH	£42.50	£49.93
BC745	IEEE 1284 FULLY REVERSIBLE 4 PORT BITRONICS AUTOSWITCH. Will allow 4 PCs to share 1 parallel device or 1 PC to share any four parallel devices automatically.	£75.00	£88.12
BC910	HP recommended Bitronics Manual reversible 2-1 switch. Incl. IEEE1284 cable (FU1123-KIT)	£39.00	£45.83
CAB002	BITRONICS AUTO SWITCH KIT 2 PORT	£42.00	£49.35
CAB003	BITRONICS AUTO SWITCH KIT 4 PORT	CALL	CALL

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BC915	OmniView 2 port (FD1064U)	£139.00	£163.33
BC920	OmniView 4 port (FD1066U)	£229.00	£269.08
BC930	OmniView AT cable kit (A3X932U)	£10.00	£11.75
BC940	OmniView PS/2 cable kit (A3X982U)	£10.00	£11.75

## DIGITISERS, KEYBOARDS, JOYSTICKS, MICE

## GRAPHICS TABLETS

KEWA001	WACOM ULTRA POINT ERGO 4 BUTT	£60.00	£70.50
DT-D	DABBLER SOFTWARE FOR USE WITH	£39.00	£45.83
DT10	TRUST 12X12 DIGITISING TABLET	£75.00	£88.13
DT5	TRUST 18 X 12 DIGITISING	£115.00	£135.13
WAC001	WACOM A6 INTOUS GRAPHICS	£115.00	£135.13
DT11	WACOM A5 GRAPHICS TABLET	£188.00	£220.90
DT12	WACOM A4 GRAPHICS TABLET	£279.00	£327.83
DT13	WACOM A3 GRAPHICS TABLET	£479.00	£562.83
DT14	WACOM A2 GRAPHICS TABLET	£1,259.00	£1,479.33
ESS345	PAPERLITE ELECTRONIC NOTEPAD	£99.00	£116.33
ESS350	RETAIL PAPERMASTER DELUX	£79.00	£92.83

## SERIAL KEYBOARDS

K11	ALPS NEWAVE WIN 95 105 KEY	£10.00	£11.75
K121	TRUST 105 KEYBOARD WIN 95	£11.00	£12.93
K26	TRUST ERGOTRACK KEYBOARD	£19.00	£22.33
K15	CHERRY 6000 UK KEYBOARD	£16.00	£18.80
K16	CHERRY 3000 UK KEYBOARD	£22.00	£25.85
K28	MITSUMI ERGO 105 KEY	£9.00	£10.58
K34	MEDIAFORCE WIN 95 KEYBOARD	£8.00	£9.40
K4	MEDIA FORCE 105 KEY WIN 95	£7.00	£8.23
K36	BTC 7931 WIN 95 HIGH QUALITY	£10.00	£11.75
K37	BTC SPLIT ERGO W95 KEYBOARD	£19.00	£22.33
K38	BTC WIRELESS KEYBOARD W95	£26.00	£30.55
K39	BTC 105 WIN95 MEMBRANE KEY	£9.00	£10.58
K40	BTC ERGONOMIC SOLID KEYBOARD	£10.00	£11.75
K41	BTC B140 TOUCHPAD KEYBOARD	£26.00	£30.55
K50	KEY TRONIC KT6105	£12.00	£14.10
K51	KEY TRONIC KT2000 WIN 95	£18.00	£21.15
K30	MICROSOFT NATURAL KEYBOARD	£29.00	£34.08
KEDE001	DIGITAL EDGE CONTRL DECK	£25.00	£29.38

## PS2 KEYBOARDS

K17	CHERRY G84-4100PPAG PS2	£45.00	£52.88
K28-PS2	MITSUMI WIN 95 PS2 KEYBOARD	£10.00	£11.75
K3-PS2	FUJITSU 105 PS2 8725-402	£16.00	£18.80
KECH002	CHERRY WIN 95 105 KEY PS2	£17.00	£19.98

## RODENTS

M10	GENERIC 2 BUTTON SERIAL MOUSE	£2.00	£2.35
M12	MITSUMI HIGH QUALITY SERIAL MOUSE	£5.00	£5.88
M12-PS2	MITSUMI HIGH QUALITY PS2 MOUSE	£5.00	£5.88
M130	ALPS PS2 2 BUTTON MOUSE	£7.00	£8.23
M156	WHALE MOUSE WALNUT	£5.00	£5.88
M105	TRUST AMI-MOUSE SERIAL	£4.00	£4.70
M106	TRUST AMI-MOUSE PS2	£4.00	£4.70
M110	TRUST AMI-MOUSE 98 PS2/SERIAL	£9.00	£10.58
M107	TRUST AMI-MOUSE USB	£5.00	£5.88
M108	TRUST AMI-MOUSE SCROLL PS2/SERIAL	£8.99	£10.56
M109	TRUST AMI-MOUSE SCROLL PRO	£10.99	£12.91
MSB03F567	MS WHEEL MOUSE PS2/SERIAL	£14.99	£17.61
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M115-R	MS RETAIL BOX MOUSE	£24.00	£28.20
M110	MS INTELLIMOUSE PS2/SERIAL	£31.00	£36.43
MSB03G235	MS INTELLIMOUSE USB	£25.99	£30.54
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M161	MS INTELLIMOUSE TRACKBALL	£32.00	£37.60
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M185	DIGITAL EDGE POINTMOUSE + PS2/AT	£9.00	£10.58
M190	DIGITAL EDGE DOLPHIN MOUSE PS2/AT	£13.00	£15.28
M195	DIGITAL EDGE TRACKPOINT + PS2/AT	£14.00	£16.45
L7220782	CORDESS DESKTOP	£59.99	£70.49

## JOYSTICKS

J60	MS SIDEWINDER PRO	£36.00	£42.30
J61	MS SIDEWINDER STANDARD	£19.00	£22.33
J62	MS SIDEWINDER GAME PAD	£24.00	£28.20
J64	MS SIDEWINDER PRECISION PRO	£36.00	£42.30
J66	MS SIDEWINDER FORCE FEEDBACK	£79.00	£92.83
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## DIGITAL CAMERAS

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DC1-A	CASIO QV10A1 POWER ADAPTOR	£12.00	£14.10
DC43	CASIO QV-70 DIGITAL CAMERA	£168.99	£198.56
DC44	CASIO QV-700 DIGITAL CAMERA	£238.99	£280.81
DCCAD01	CASIO QV-5000SX	£349.99	£411.24
DC41	EPSON PHOTO PC 600	£299.99	£352.49
DC47	EPSON PHOTO PC 700	£361.00	£424.18
DCFU001	FUJI DX-7	£214.99	£252.61
DCFU006	FUJI DX-8	£149.99	£176.24
DCFU002	FUJI DX-9	£259.99	£305.49
FUJIA150099	FUJI MX-500 8MB MEMORY + FLASPATH	£317.99	£373.64
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DC62	MINOLTA DIMAGE	£315.99	£371.29
DC7	NIKON COOLPIX 100	£318.99	£374.81
DCDL002	OLYMPUS C-820L	£449.99	£528.74
DC42	OLYMPUS C-1400L DIGITAL CAMERA	£759.99	£892.99
RIC0380018	RICOH RDC 300	£301.99	£354.84
RIC0380047	RICOH RDC 300Z	£359.99	£422.99
RIC0380062	RICOH RDC 4300	£425.99	£500.54
DCSA001	SANYO VPCC210	£240.99	£283.16
DCSA002	SANYO VPCC250	£258.99	£304.31
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1900 x 1600dpi

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- JPEG compression
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- 2M Removable Flash Memory Cards, included - stores up to 30 images
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# generic memory



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DMS32	32MB	64Bit	168 Pin	10ns	£23.99	£28.19
DMS64	64MB	64Bit	168 Pin	10ns	£52.99	£62.26
DMS128	128MB	64Bit	168 Pin	10ns	£102.99	£121.01

## 168 PIN DIMM MEMORY 3.3v SDRAM UNBUFFERED for 100MHz Motherboards

DMS321	32MB	64Bit	168 Pin	10ns	£24.99	£29.36
DMS641	64MB	64Bit	168 Pin	10ns	£54.99	£64.61
DMS1281	128MB	64Bit	168 Pin	10ns	£105.99	£124.54

## 72-PIN EDO MEMORY SIMMS

ME18	4MB	1 X 32	72 Pin	60NS	£5.99	£7.04
ME24	8MB	2 X 32	72 Pin	60NS	£8.99	£10.56
ME29	16MB	4 X 32	72 Pin	60NS	£16.49	£19.38
ME34	32MB	8 X 32	72 Pin	60NS	£32.99	£38.76
ME40	64MB	16 X 32	72 Pin	60NS	£75.99	£89.29

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ME20-60	8MB	2 X 32	72 Pin	60NS	£12.99	£15.26
ME25-60	16MB	4 X 32	72 Pin	60NS	£22.99	£27.01
ME30	32MB	8 X 32	72 Pin	70NS	£42.99	£50.51

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ME22	8MB	2 X 36	72 Pin	70NS	£13.99	£16.44
ME27	16MB	4 X 36	72 Pin	70NS	£23.99	£28.19
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ME10	4MB	30 Pin	3 chip	-	£7.99	£9.39
ME10-9	4MB	30 Pin	9 chip	-	£13.99	£16.44



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VIK701001	CF16M	FLASH CARD	16MB	£48.99	£57.56
VIK701002	CF32M	FLASH CARD	32MB	£84.99	£99.86
VIK7010736	DL0145	DELL DIMENSION M166A, M200A, XP5133S, 166S, 200S, P133V, P200V, M166A, M200A, M233S	16MB	£34.99	£41.11
VIK7010809	DL0134	DELL DIMENSION M166A, M200A, XP5133S, 166S, 200S, P133V, P200V, M166A, M200A, M233S	32MB	£54.99	£64.61
VIK7010810	C1907	COMPAQ PROFESSIONAL WORKSTATION 5100, 6266, 6300, 6333, 5100 PII, 6000, 8000, PROLIANT 15 6/200	32MB	£58.99	£69.31
VIK701003	C1908	COMPAQ PROFESSIONAL WORKSTATION 5100, 6266, 6300, 6333, 5100 PII, 6000, 8000, PROLIANT 15 6/200	64MB	£119.99	£140.99
VIK701004	C1909	COMPAQ PROFESSIONAL WORKSTATION 5100, 6266, 6300, 6333, 5100 PII, 6000, 8000, PROLIANT 15 6/200		£189.99	£223.24
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VIK701005	T75032	TOSHIBA SATELLITE 300CDS, 300CDT, 305CDS, 310CDS, 310CDT, 315CDS, 325CDS, 320CDS/CDT, TECRA 550/550CDT, 750CDT, 750CDM/DVD, 780CDM/DVD	32MB	£34.99	£41.11
VIK701006	T75064	TOSHIBA SATELLITE 300CDS, 300CDT, 305CDS, 310CDS, 310CDT, 315CDS, 325CDS, 320CDS/CDT, TECRA 550/550CDT, 750CDT, 750CDM/DVD, 780CDM/DVD	64MB	£66.99	£78.71

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KT3422624	Compact Flash card + adapter	CF/24ADP	24MB	£89.99	£105.74
<b>NOTEBOOKS AND PORTABLE</b>					
KIK1052	Acer AcerNote light	KAC373/16	16MB MODULE	£24.99	£29.36
KIK1055	Acer AcerNote light	KAC373/32	32MB MODULE	£42.99	£50.51
KT3420901	Compaq Armada 1100,1120,1120T,1125	KTC-A1100/16	16MB MODULE	£27.99	£32.89
KT3420900	Compaq Armada	KTC-A4100/16	16MB KIT	£31.99	£29.36
KT3420882	4100 series	KTC-A4100/32	32MB KIT	£49.99	£50.51
KT3420548	Compaq LTE	KTC-E5000/16	16MB KIT	£32.99	£38.76
MEK130	5000 series	KTC-E5000/32	32MB KIT	£49.99	£58.73
MEK2721	Compaq Armada 7000 series/D/MT,	KTC2721/16	16MB MODULE	£28.99	£34.06
KIK1054	1500 series D/MT/H, 1130T	KTC-E5000/32	32MB MODULE	£46.99	£55.21
KT3422134	IBM Thinkpad 310/D, 310E/ED, 315, 315ED	KTM-TP310/16	16MB MODULE	£29.99	£35.24
KT3420470	IBM Thinkpad 370C, 755 series	KTM-TP370/32	32MB CREDIT CARD	£59.99	£70.49

INSIGHT No	WHAT'S IT FOR?	MFR PART No	SIZE	EX VAT	INC VAT
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KT3420293	Compaq Presario	KTC-PNP/16	16MB MODULE	£19.99	£23.49
KT3420598	720CDS, 744CDS, 860CDS, 920CDS	KTC-PNP/32	32MB MODULE	£34.99	£41.11
KT3420608	Compaq Presario	KTC-PNP/64	64MB MODULE	£19.99	£23.49
KT3420694	7110, 7152, 7170, 7180, 9536, 9546, 9548, 9564	KTC-PNP/32	32MB MODULE	£34.99	£41.11
KT3420288	Compaq Deskpro XL 450, 466, 5100,	KTC1481/16	16MB KIT	£36.99	£43.46
KT3420289	5100, 5133, 560, 566, 575, 590	KTC1481/32	32MB KIT	£43.99	£51.69
KT3420622	Compaq Proliant 1500, 1500P	KTC1691/32	32MB KIT	£34.99	£38.86
KT3420269	Compaq Presario 633, 650, 660 Presario 800series	KTC16K/PS	16MB MODULE	£26.99	£31.71
KT3421947	Compaq Proliant 600, 850E				
KT3422137	Professional workstation 5000	KTC2254/32	32MB MODULE	£51.99	£68.14
KT3422137	Compaq Deskpro	KTC2428/16	16MB MODULE	£23.99	£28.19
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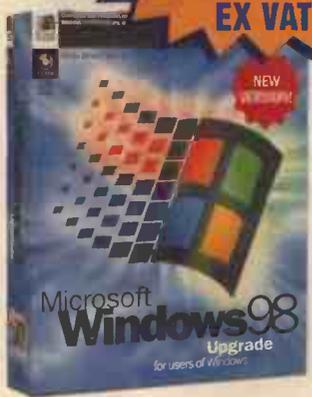
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SG2750804	3.2GB	128K	11MS	5400	UDMA33	£69.99	£82.24
HD431-SS	4.3GB	128K	10.5MS	5400	UDMA33	£77.99	£91.64
HD641-SU	6.4Gb	128K	10.5MS	5400	UDMA33	£90.99	£106.91
HD650-S	6.5Gb	512K	9.5MS	7200	UDMA33	£119.99	£140.99
HD860-S	8.6Gb	128K	10.5MS	5400	UDMA33	£114.99	£135.11
HD100-S	10.2Gb	128K	10.5MS	5400	UDMA33	£144.99	£170.36
HD910-S	9.1Gb	512K	9.5MS	7200	UDMA33	£149.99	£176.24

## scsi hard drives

SKU	SIZE	CODE	TYPE	ACCESS	CACHE	SPIN	FF	WARRANTY	NOTES	EX VAT	INC VAT
<b>MEDALIST PRO SCSI DRIVES</b>											
HASE004	4.55Gb	Medalist Pro ST34520N	SCSI	9.5ms	512k	7200	£3.50	3 Yrs	Ultra SCSI 3 / NARROW	£149.99	£176.24
HASE003	4.55Gb	Medalist Pro ST34520W	SCSI	9.5ms	512k	7200	£3.50	3 Yrs	Ultra SCSI 3 / WIDE	£163.99	£192.69
HASE005	6.5Gb	Medalist Pro ST36530N	SCSI	9.5ms	512k	7200	£3.50	3 Yrs	Ultra SCSI 3 / NARROW	£209.99	£246.74
HASE007	9.1Gb	Medalist Pro ST39140N	SCSI	9.5ms	512k	7200	£3.50	3 Yrs	Ultra SCSI 3 / NARROW	£269.99	£317.24
HASE008	9.1Gb	Medalist Pro ST39140W	SCSI	9.5ms	512k	7200	£3.50	3 Yrs	Ultra SCSI 3 / WIDE	£289.99	£340.74
<b>BARRACUDA SCSI DRIVES</b>											
HASE009	4.55Gb	Barracuda ST34573N	SCSI	7.1ms	512k	7200	£3.50	5 Yrs	Ultra SCSI 3 / NARROW	£264.99	£311.36
HASE010	4.55Gb	Barracuda ST34573W	SCSI	7.1ms	512k	7200	£3.50	5 Yrs	Ultra SCSI 3 / WIDE	£289.99	£340.74
HASE033	4.55Gb	Barracuda ST34573WC	SCSI	7.1ms	512k	7200	£3.50	5 Yrs	Ultra Wide Single Connector	£306.99	£360.71
HASE035	4.55Gb	Barracuda ST34573LW	SCSI	7.1ms	1024k	7200	£3.50	5 Yrs	Ultra 2 Wide	£279.99	£328.99
HASE036	4.55Gb	Barracuda ST34573LC	SCSI	7.1ms	1024k	7200	£3.50	5 Yrs	Ultra 2 Wide Single Connector	£319.99	£375.99
HASE037	4.55Gb	Barracuda ST34573FC	SCSI	7.1ms	1024k	7200	£3.50	5 Yrs	Fiber Channel	£339.99	£399.49
HD911-S	9.1Gb	Barracuda ST39173N	SCSI	7.1ms	512k	7200	£3.50	5 Yrs	Ultra SCSI 3 / NARROW	£329.99	£387.74
HD911-SW	9.1Gb	Barracuda ST39173W	SCSI	7.1ms	512k	7200	£3.50	5 Yrs	Ultra SCSI 3 / WIDE	£319.99	£375.99
HASE002	9.1Gb	Barracuda ST39173WC	SCSI	7.1ms	512k	7200	£3.50	5 Yrs	Ultra Wide Single Connector	£334.99	£393.61
HASE038	9.1Gb	Barracuda ST39173WD	SCSI	7.1ms	512k	7200	£3.50	5 Yrs	Ultra Wide Differential	£359.99	£422.99
HASE039	9.1Gb	Barracuda ST39173LW	SCSI	7.1ms	1024k	7200	£3.50	5 Yrs	Ultra 2 Wide	£319.99	£375.99
HD913-SW	9.1Gb	Barracuda ST39173LC	SCSI	7.1ms	1024k	7200	£3.50	5 Yrs	Ultra 2 Wide Single Connector	£339.99	£399.49
HASE040	9.1Gb	Barracuda ST39173FC	SCSI	7.1ms	1024k	7200	£3.50	5 Yrs	Fiber Channel	£399.99	£399.49
HASE041	18.2Gb	Barracuda ST118273N	SCSI	7.6ms	512k	7200	3.5x1.6	5 Yrs	Ultra SCSI 3 / NARROW	£599.99	£704.99
HASE042	18.2Gb	Barracuda ST118273W	SCSI	7.6ms	512k	7200	3.5x1.6	5 Yrs	Ultra SCSI 3 / WIDE	£599.99	£704.99
HASE043	18.2Gb	Barracuda ST118273WC	SCSI	7.6ms	512k	7200	3.5x1.6	5 Yrs	Ultra Wide Single Connector	£629.99	£740.24
HASE044	18.2Gb	Barracuda ST118273WO	SCSI	7.6ms	512k	7200	3.5x1.6	5 Yrs	Ultra Wide Differential	£629.99	£740.24
<b>CHEETAH SCSI DRIVES</b>											
HASE016	4.55Gb	Cheetah ST34502LW	SCSI	5.2ms	1024k	10,025	£3.50	5 Yrs	Ultra 2 Wide	£334.99	£393.61
HASE019	9.1Gb	Cheetah ST39102LW	SCSI	5.2ms	1024k	10,025	£3.50	5 Yrs	Ultra 2 Wide	£439.99	£516.99
HASE020	9.1Gb	Cheetah ST39102LC	SCSI	5.2ms	1024k	10,025	£3.50	5 Yrs	Ultra 2 Wide Single Connector	£429.99	£505.24
HASE001	18.2Gb	Cheetah ST118202LW	SCSI	5.7ms	1024k	10,025	3.5x1.6	5 Yrs	Ultra 2 Wide	£799.99	£939.99

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HD430-W	E/PRISE	4.3GB	UW	512K	<8MS	7200	£229.00	£269.08
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HD900-1W	ULTRASTAR 9ES	9.1GB	512K	7.5MS	7200	UW	£309.99	£364.24
HD900-12W	ULTRASTAR 9ES	9.1GB	512K	7.5MS	7200	U2W LVD	£319.99	£375.99
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HD901-1W	ULTRASTAR 9LP	9.1GB	1Mb	6.5MS	7200	UW	£329.99	£387.74
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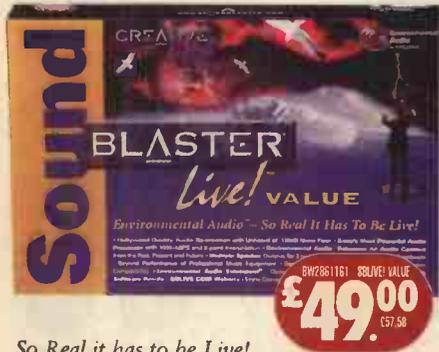
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CDR343	CDR4120EL PRO 4X12 CDR EXT SCSI	£274.00	£321.95
CDR356	CDRW4260EL PRO 4X2X6 INT SCSI	£258.99	£304.32
CDR357	CDRW4260EL PRO 4X2X6 EXT SCSI	£299.99	£352.49
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CDR717	CD LABELS PACK OF 50	£6.99	£8.21
CDR390	CD-R 74 MINUTE MEDIA	£0.85	£1.00
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## hp HEWLETT PACKARD

### HP SURESTORE CD-WRITER PLUS 7200

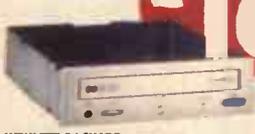
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CDPH003	PHILIPS 74 MIN CDR MEDIA	£0.89	£1.05
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T500-M	5GB COLORADO MEDIA SINGLE	£17.99	£21.14
T800-I	8GB INT IDE + 1 PIECE OF MEDIA	£154.99	£182.11
T800-E	8GB EXT P//LEL PORT + 1 PIECE OF MEDIA	£178.99	£210.31
T800-M	8GB COLORADO MEDIA SINGLE	£19.99	£23.49
T620	T41 8GB INT STREAMER	£205.99	£242.04

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T48	TR3	£14.99	£17.61
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T46-E	VERBATIM TR1 EXTRA 1GB CAP	£14.99	£17.61
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T49	QIC3080 4GB	£18.99	£22.31
T40	FORMATTED DC2120	£5.99	£7.04
T41	DC2120XL 350MB	£11.00	£12.93
DLT110	DLT 15/30GB MEDIA	£35.99	£42.29
DLT120	DLT 20/40GB MEDIA	£69.99	£82.24
DD53	DDS-3 CARTRIDGE 5 PACK	£75.99	£89.29

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T907	DANMERE BACKER	£30.99	£36.41
T907-P	DANMERE BACKER PARALLEL PORT	£49.99	£58.74

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T540-E	540MB EXT REMOVABLE DRIVE INCLUDES CABLES SOFTWARE + 1 CARTRIDGE	£208.99	£245.56
T540-M	540MB CARTRIDGE FOR ABOVE	£32.99	£38.76

**INTERNAL EXABYTE TAPE DRIVES**

T78-E	EAGLE TR-3 TAPE DRIVE 3.2GB	£89.99	£105.74
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**EXABYTE IDE NESTS**

TEX40	IDE NEST AND CONTROLLER	£45.99	£54.04
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TEX70	IDE NEST READY TR-4 TAPE DRIVE	£184.99	£217.36
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TF20	2120XL QIC 80 DATA	£7.99	£9.39
TF30	MC3000XL DATA	£11.99	£14.09
T43-F	4MM DAT TAPE 90M	£3.99	£4.69
T45-F	4MM DAT 120M (DDS-2)	£8.99	£10.56
DD53F	4MM DAT 125M (DDS-3)	£17.99	£21.14
T43-C	4MM DAT CLEANING	£5.99	£7.04
T44-F	8MM DAT TAPE 112M	£4.99	£5.86
DLT110	DLT MEDIA FOR 20/40GB OR 70GB	£30.99	£36.41
OP128	128MB 3.5" OPTICAL	£5.49	£6.45
OP230	230MB 3.5" OPTICAL	£5.99	£7.04
OP540	540MB 3.5" OPTICAL	£17.49	£20.55
OP640	640MB 3.5" OPTICAL	£17.49	£20.55
OP650	650MB 5.25" OPTICAL	£17.49	£20.55
OP120	1.2GB 5.25" OPTICAL	£23.00	£27.03
OP130	1.3GB 5.25" OPTICAL	£23.00	£27.03
OP260	2.6GB 5.25" OPTICAL	£28.99	£34.06
CD165-F	74 MIN CDR	£0.85	£1.00
CDW-30	74 MIN CD-RW	£8.99	£10.56
CDAT0	AUDIO CD 74 MIN	£2.99	£3.51

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**Backs-Up your PC while you're out to lunch**  
Here's a backup solution from HP that won't let you down.

The new HP Colorado drives combine extraordinarily good performance coupled with very high capacity all at an incredibly low price! Upto 8Gb will fit onto a single data cartridge when using compression and can backup a 2Gb drive in well under an hour.



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**8GB ONLY £154.99 EXTERNAL**



## HP HEWLETT PACKARD

### HP COLORADO TRAVAN DRIVES

**One button back up. The easy solution.**  
The right capacity, the right solution at the right price for the best backup value.

The HP Colorado T3000 tape backup system keeps up with technological growth by offering enough storage capacity to handle the increasing data protection demands. With HP Colorado T3000 you go from box to backup in minutes. Windows 95 System Restore lets you create a set of emergency recovery disks that can restore your complete Windows 95 operating system from tape. Other features include a tape catalogue to keep track of files on backup tapes, long file name and system registry support, a versatile Scheduler and the ability to back up shared drives on peer-to-peer networks. One-Button Backup and Automated Daily Backup make for no-brainer data insurance.

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TDKS880014	DC8-112M 8MM 2.3GB DATA CTDRGE PC 112M	£3.99	£4.69
TDKS880026	DC2120 120MB MINI DATA CTDRGE MAC/PC	£3.99	£4.69
TDKS880029	DC6250 250MB STNDRD OATA CTDRGE MAC/PC	£7.99	£9.39
TDKS880030	DC6150 150MB STANDARD DATA CTDRGE PC	£5.99	£7.04
TDKS880031	MO-128 3.5 128MB MO MAGNETO PC	£3.99	£4.69
TDKS880032	MO-230 3.5 230MB MO MAGNETO PC	£3.99	£4.69
TDKS880033	DC4-120 4MM 4GB DATA CARTRIDGE PC	£6.99	£8.21
TDKS880036	170MB FORM. MINI DATA CART 3 DOS	£7.99	£9.39
TDKS880037	1GB STANDARD DATA CARTRIDGE NMS	£15.99	£18.79
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TDKS880054	DC2120 QIC80 120MB FORMATTED NMS	£3.99	£4.69
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TDKS880064	MO 640MB NMS 3.5" UNFRMTD 2048B PS	£15.99	£18.79
TDKS880071	DC4-120 4MM 4GB DATA CTDRGE STORAGE	£6.99	£8.21
TDKS880074	DC4-90 4MM 2.0GB DATA CARY NMS	£4.99	£5.86
TDKS880076	DATA CARTRIDGE 768 NMS DC-8 160 MTR	£6.99	£8.21
TDKS880077	REFLEX CDR 74MIN NMS BLUE 10PK	£10.99	£12.91
TDKS880078	REWRITABLE CDR 74MIN NMS	£8.99	£10.56
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CDW-30	74 MIN CD-RW	£8.99	£10.56

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OP230	230MB 3.5" OPTICAL	£6.00	£7.05
OP540	540MB 3.5" OPTICAL	£17.50	£20.56
OP640	640MB 3.5" OPTICAL	£17.50	£20.56
OP650	650MB 5.25" OPTICAL	£17.50	£20.56
OP120	1.2GB 5.25" OPTICAL	£23.00	£27.03
OP130	1.3GB 5.25" OPTICAL	£23.00	£27.03
OP260	2.6GB 5.25" OPTICAL	£30.00	£35.25

**DATA CARTRIDGES**

TF10	2120 QIC80 TAPE	£5.00	£5.88
TF20	2120XL QIC 80 DATA	£8.00	£9.40
TF30	MC3000XL DATA	£12.00	£14.10
TF40	MC3000XL 3010 DATA	£13.00	£15.28
T43-F	4MM DAT TAPE 90M	£4.00	£4.70
T45-F	4MM DAT 120M (DDS-2)	£10.00	£11.75
DD53F	4MM DAT 125M (DDS-3)	£18.00	£21.15
T43-C	4MM DAT CLEANING	£6.00	£7.05
T44-F	8MM DAT TAPE 112M	£5.00	£5.88

**DLT™ TAPE**

DLT110	DLT MEDIA FOR 20/40GB OR 70GB	£49.00	£57.58
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**SAME WORKING DAY DESPATCH ON ALL STOCK ITEMS**



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# NoLimits Insight

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**general enquiries 0870 700 7030**

# Panasonic

## THE LATEST REWRITABLE DVD DRIVE

Enjoy the latest technology from Panasonic, with this new DVD-RAM drive supporting 2.6Gb and 5.2Gb rewritable DVD-RAM discs.

- Internal SCSI rewritable DVD-RAM drive with Win95 support & Win98 upgrade
- The ultimate in CD/DVD media compatibility
- READ: DVD-ROM, DVD-RAM, CD-ROM, CD-R, CD-RW, PD.
- WRITE: DVD-RAM, PD Discs
- PLAYBACK: Audio and Video CD, DVD Video\*
- Includes 1 2.6Gb single sided DVD-RAM disc



\*Additional MPEG2 playback hardware or software is required.



LF-D101E

LF-D101E  
**£369.99**  
 £434.74

# Panasonic

- IDE Interface 5.25" Internal Drive
- 8x CD ROM reader
- Full retail kit includes software, screws, manual, warranty card and cables
- Seagate Backup Exec software allows scheduled and unattended back-up
- Applications include:
  - Fast, easy to use back-up device
  - Large and secure file archiving
  - Data distribution
  - Internet downloading



PD330 EXT PP OD KIT  
**£224.99** ex £264.36 inc  
 CD205 650MB MEDIA  
**£14.99** ex £17.61 inc

PD225-IDE PD DRIVE  
**£184.99**  
 £217.36

# iomega drives

## THE MOST AFFORDABLE WAY TO ADD A ZIP DRIVE TO YOUR PC.

The new Zip Internal drive connects via your computer's IDE controller which means you get the performance of ATAPI without the need for an extra controller card.

T70K	PARALLEL PORT ZIP DRIVE (+ 1 MEDIA)	£79.00	£92.83
T70-B2K	ZIP STARTER KIT P/PORT ZIP DRIVE + 6 MEDIA + ZIP TOOLS + RECORDIT	£109.00	£128.08
T70-BK	P/PORT ZIP (+ 6 MEDIA & LogiTech Mouse)	£139.00	£163.33
T71K	SCSI ZIP DRIVE (+ 1 MEDIA)	£79.00	£92.83
T71-K	INTERNAL SCSI ZIP DRIVE (+ 1 MEDIA)	£86.00	£101.05
8A10001K	INTERNAL IDE ZIP DRIVE retail	£69.00	£81.08
T70-P	ZIP PLUS SCSI/PARALLEL PORT (+ 1 MEDIA)	£119.00	£139.83
T76	ZIP ZOOM CARD	£27.00	£31.73
T72	ZIP MEDIA SINGLE	£7.50	£8.81
T72-6A	ZIP MEDIA 6 PACK + FREE RECORDIT	£39.99	£46.99
T72-10	ZIP MEDIA 10 PACK	£85.99	£101.04
T72-20A	ZIP MEDIA 20 PACK	£129.00	£151.58



**Internal Zip**  
**£69.00**  
 £81.08



T70-B2 ZIP STARTER KIT  
**£109.00**  
 £128.08

### ZIP STARTER KIT

- Parallel port Zip drive
- 6 pcs media
- RecordIt software



Perfect for backing-up your hard drive and storing and transporting huge video, audio, multimedia, graphics and more.



OP200 JAZ 2GB INT  
**£249.00**  
 £292.5



OP200	JAZ INTERNAL 2GB	£249.00	£292.58
OP300	JAZ EXTERNAL 2GB	£249.00	£292.58
TAC10	JAZ TRAVELLER SCSI TO P/P Converter	£38.00	£44.65
OP35	JAZ 1GB DISK SINGLE	£53.00	£62.28
OP35-3	JAZ 1 GB DISK 3 PACK	£150.00	£176.25
OP400	JAZ 2 GB DISK SINGLE	£65.00	£76.36
OP400-3	JAZ 2 GB DISK 3 PACK	£159.00	£186.83



- New Flash! File™ storage software lets you access most files in seconds.
- Inc. FullBack™ system recovery software.

Ditto Max PRO 10Gb Int  
**£139.00**  
 £183.3

TDM30	DITTO MAX PRO 10Gb - INT	£139.00	£163.33
TDM40	DITTO MAX PRO 10Gb - EXT	£169.00	£198.58
TD10	DITTO MAX 3GB MEDIA	£15.00	£17.63
TD20	DITTO MAX 7GB MEDIA	£18.00	£21.15
TD30	DITTO MAX 10GB MEDIA	£22.00	£25.85
T200-1	2GB DITTO INTERNAL	£56.00	£65.80
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**STOP WASTING TIME & BEGIN TO C:AMORE!**  
 The intelligent media-management tool searches all file types on any media by scanning and cataloguing your files then storing the filenames with image thumbnails, text file keywords and summaries for rapid retrieval!

**ONLY**  
**£19.99**  
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BACK-UP

# MODEMS

## modems

### US ROBOTICS from 3COM

F709	NEW MEGAHERTZ 56K GLOBAL PC CARD	£103.00	£121.03
F700-I	SPORTSTER WINMODEM	£54.63	£64.19
F700-P	SPORTSTER WINMODEM 33.6 PC CARD	£75.00	£88.13
F705-E	56K VOICE FAX MODEM EXTERNAL	£71.14	£83.59
F708	56K VOICE FAX MODEM INTERNAL	£68.14	£80.06
F707	56K MESSAGE MODEM EXTERNAL	£88.35	£103.81
M03CB01	56K PROFESSIONAL MESSAGE MODEM	£110.82	£130.21
F97	COURIER V34 EXTERNAL	£195.00	£229.13
F97-I	COURIER V34 INTERNAL	£195.00	£229.13
F701	SPORTSTER ISDN EXTERNAL	£99.00	£116.33
F710-I	COURIER ISDN INTERNAL	£239.00	£280.83
F710-E	COURIER ISDN EXTERNAL	£239.00	£280.83

### HAYES MODEMS

HS4240266	BT V.90 INTERNET KIT	£93.99	£110.44
FH700	ACCURA 33.6 INT. VOICE FAX DATA	£82.99	£97.51
FH740	ACCURA ISDN TERMINAL ADAPTOR	£164.49	£193.28
FH800	ACCURA 56K EXT VOICE/FAX/DATA	£82.49	£96.93
FH810	ACCURA 56K INT VOICE/FAX/DATA	£76.49	£89.88
FH760	ACCURA 33.6 PCMCIA	£90.49	£106.33
HS4240152	OPTIMA BUSINESS MODEM	£149.99	£174.24
HS4240265	OPTIMA 56K EXTERNAL MODEM	£169.99	£199.74
HS4240241	OPTIMA 33.6 GLOBAL PCMCIA MODEM	£124.99	£146.86
HS4240242	OPTIMA 56K GLOBAL PCMCIA MODEM	£151.49	£178.00
FH781	GLOBAL GSM UPGRADE KIT-NOKIA 2110	£89.99	£105.74
FH782	GLOBAL GSM UPGRADE KIT-NOKIA 8110	£89.99	£105.74
FH830	MSN 56K EXTERNAL INTERNET SOLUTION	£94.00	£110.45

### PACE

F511	56K VOICE INTERNAL	£65.49	£76.95
F521	56K VOICE EXTERNAL	£82.99	£97.51
F525	56 SOLO	£133.99	£164.99
F523	ISDN Terminal Adpt.	£173.00	£203.28
F522	56K NB VOICE PC Card	£93.99	£110.44
F524	56K Voice External - MAC	£90.99	£106.91

### XIRCOM PC CARD (PCMCIA) MODEMS & ISDN SERIES GLOBAL ACCESS

XIR190	Credit card ethernet + 33.6 Modem 10BaseT CEM-33BT/M	£169.00	£198.50
XIR200	Credit card ethernet + 33.6 Modem 10BaseT/10Base2 CEM-33BC/M	£189.00	£222.08
XIR210	Credit card Token ring + 33.6 Modem UTP/STP CEM-33CTP/E	£152.99	£179.76
XIR230	Credit card ethernet 10/100 + 56K modem + GSM CEM56-BTX/M	£179.99	£211.49
XIR240	Credit card ethernet 10/100 + 56K modem + GSM + MiniDock CEM56-100MD/M	£164.99	£193.86
FAX1001	REALPORT 56K modem + ethernet 10/100	£189.99	£223.24
XX1810794	REALPORT 56K modem + ethernet 10MBPS	£169.99	£199.74
XX1810782	REALPORT GSM CONNECTION KIT FOR NOKIA 3110 + 8110	£64.99	£76.36
XX1810782	REALPORT GSM CONNECTION KIT FOR ERICSSON 600/700	£64.99	£76.36
XIR400	MiniDock connector system for 56k	£29.00	£34.08

### ACCESSORIES

XIR350	International modem travel kit - WEU 12 country adaptors	£40.00	£47.00
XIR350	International modem travel kit - EEU 9 country adaptors	£40.00	£47.00

## MEGAHERTZ 56K GLOBAL PC CARD



The Megahertz 56K\* Global PC Card features 56K\* technology for high speed downloads and WorldPort country selections software so you can easily configure your modem for use around the world. The intelligent Auto Install gives you easy doubt free installation in a matter of minutes.

- x2™ technology at upto 56Kbps
- Flash DSP/Flash ROM upgradeable
- World Ready approved for use in over 250 countries and regions
- Digital line guard



**£103.00**  
£121.02

see page 22 for other  
MegaHertz products

## DON'T WAIT FOR THE REST...

### 56K\* PROFESSIONAL MESSAGE MODEM

Innovative, feature enhanced modem offers the best in fax modem and answering machine functionality with specifically tailored software.

- x2 technology / V.90 upgradeable
- Answer phone and message management
- Stores voice and fax messages even when your PC is switched off
- Built in speaker and microphone
- Flash ROM memory for easy upgrades



M03CB01 56K PROFESSIONAL  
**£110.82**  
£130.21

### 56K\* VOICE FAXMODEM

- Includes V.90 standard & x2™ technology
- Windows™ Plug n Play
- Voice/fax/data software
- Remote voice and fax message retrieval
- Flash ROM memory for easy upgrades



F705-E 56K VOICE FAX  
**£71.14**  
£83.59

### 56K\* MESSAGE MODEM

One complete feature rich communications package for the home or office. The 56K\* Message Modem can be left to store incoming voice and fax messages while your PC is switched off. Includes V.90 standard and x2tm technology.

- Voice/fax/data communications software
- Full duplex speakerphone
- Remote voice and fax retrieval



F707 MESSAGE MODEM  
**£88.35**  
£103.81

### PC CARD WINMODEM

F700-P WINMODEM  
**£75.00**  
£88.13



### COURIER I

F97 F97-1 COURIER MODEM  
**£239.00**  
£280.83



### ISDN TA

A low-cost ISDN only External adaptor, aimed at corporate remote workers and SOHO users.

F701 SPORTSTER ISDN  
£99.00 ex £116.33 inc



## Hayes™ modems

### HAYES/BT V.90 INTERNET KIT

The V.90 Internet Kit from BT & Hayes combines speed and reliability with Hayes legendary technology.



Through BT it offers access to:

- BT Internet\* - Online Access
- LineOne\* - Information Service
- HomeCampus\* - Education
- Wireplay - Gaming

\*These services are available through 1-3 month FREE trials included in the box.

### ACCURA RANGE

#### K56 Voice Fax Data Modems

Transmit Data In The Blink Of An Eye

Varying line conditions may result in lower speeds.



FH800 56K MODEM  
**£82.49**  
£96.93



FH810 56K MODEM INT  
**£76.49**  
£89.88

### ISDN TERMINAL ADAPTOR



This External ISDN Adaptor is a low cost solution for people who need ISDN facilities. Comes with Hayes 5 Year Product Guarantee.

FH740 ISDN TA  
**£164.49**  
£193.28

### OPTIMA 56K GLOBAL PC CARD

FH785 OPTIMA 56K GLOBAL PCMCIA MODEM  
£151.49 ex £178.00 inc



FH785 OPTIMA 56K PCMCIA  
**£151.49**  
£178.00

AWARD WINNING MODEMS FROM THE INVENTOR OF THE PC MODEM

## Hayes™ modems



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All Pace products are complete solutions supplied with everything you'll need to get you up and running in a matter of minutes. All products are covered by unlimited help desk support and a no quibble 5yr guarantee.

**PACE 56 VOICE MODEMS**

56Kbps voice/fax/data external, internal or PC Card modems

- 56,000bps internet downloads & 33,600bps data transfer
- Voice mail, fax mail & e-mail
- UK calling line identification
- V90 upgradeable free of charge
- Complete messaging & private mailboxes for multiple users
- External and internal have full duplex 'hands free' speaker phone capability
- PC Card has true hardware implementation, unlike WinModem solutions
- PC Card has ultra low power operation & standby mode
- Incorporates Rockwell™ technology



F511 56K VOICE FROM.  
**£65.49**  
£76.95



F522 NB56 PC CARD  
**£93.99**  
£110.44

F511	56K VOICE INTERNAL	£65.49	£76.95
F521	56K VOICE EXTERNAL	£82.99	£97.51
F525	56 SOLO	£133.99	£164.49
F522	56K NB VOICE PC Card	£93.99	£110.44
F524	56K Voice External - MAC	£90.99	£106.91
F523	ISDN Terminal Adpt.	£175.00	£205.62

**PACE 56 SOLO**

56kpbs self-memory messaging system

- 56,000bps voice/fax/data modem with on-board memory
- Receive/store voice & fax messages even with your PC off
- Stores a combination of approximately 30 minutes of speech or 30 pages of fax
- V90 upgradeable FREE OF CHARGE!
- Audible UK calling line identification
- Hands free speaker phone without your PC



F525 56 SOLO  
**£133.99**  
£164.49

**pace COLOUR VIDEO CAMERA USB OR PCI**  
Communications for your desktop!

- Send 'video e-mails' to family and friends
- Capture and store still or live video images
- Create video clips, slide shows & screen savers
- Video conference over phone lines, ISDN, internet or LAN connections
- 24-bit colour and frame rates of up to 30 per second
- USB version connects directly to a USB ready PC
- PCI version supplied complete with PCI video capture card and accepts input from any camcorder or VCR

FROM **£63.49**  
£74.60



**PACE TV CARD**

Watch live television & VCR on your PC

- Full NICAM stereo sound
- Teletext compatibility with enhanced FASTEXT facilities
- Capture & store live TV footage on your PC
- Capture & store clips from your home videos on your PC
- Video inputs to connect to a DVD player, camcorder or VCR
- Digital camera ready for local PC video capture, video conferencing & video e-mail



PCE001 TV CARD  
**£59.99**  
£70.48

**DIAMOND** MOD120 SUPRAEXPRESS **£59.99**  
£70.48

**SUPRAEXPRESS 56ePRO**

High speed external data/fax modem V90

- Connect to the Internet at 56Kbps
- Answer machine functionality
- Send and receive faxes without interrupting your current work session
- Consistently voted best-buy modem
- Ideal for multiplayer gaming via the Internet



**CHECK IT OUT! PCI internal modem**

MOGE004  
**£33.99**  
£42.29



**FAX MODEMS**

F250-V	33.6 INT. Voice BAPT APPROVED	£22.99	£27.01
F255-3	33.6 EXT. Voice BAPT APPROVED	£36.99	£43.46
MOGE001	K56 INT. Voice BAPT APPROVED	£36.99	£43.46
MOGE002	K56 EXT. Voice BAPT APPROVED	£46.99	£55.21
MOGE003	MEDIA FORCE 56K PCMCIA MODEM	£54.99	£64.00
MOGE004	56K PCI INTERNAL ROCKWELL	£33.99	£39.94

**P C I S I D N D A C O M**

ISDN UPGRADE  
**£119.99 + VAT**

**GOLD CARD NETGLOBAL 56K + 10MB ETHERNET**

- Simultaneous modem and Ethernet operation
- GSM, ISDN AND V.90 ready
- Ready for GSM & ISDN
- Supports all common Ethernet standards and most common operating systems

NETGLOBAL 56K + 10MB  
**£164.99**  
£193.86



ISDN & GSM READY

■ Also available in Gold Card NetGlobal range: Gold Card NetGlobal 10MB, Gold Card NetGlobal 10/100Mb and Gold Card NetGlobal CardBus 10/100Mb.

FP120	GOLD CARD GLOBAL 56K + fax	£139.99	£164.49	PSD5530100	ALCATEL HC1000	£88.99	£104.56
PSD5530344	NETGLOBAL 56K + 10MB	£164.99	£193.86	PSD5530102	ALCATEL ONE TOUCH PRO	£88.99	£104.56
PSD5530290	ISDN UPGRADE	£119.99	£140.99	PSD5530103	AEG	£88.99	£104.56
<b>PSION DACOM GOLD CARD GSM UPGRADES</b>							
PSD5530097	PANASONIC G350/400/500	£77.99	£91.64	PSD5530107	NEC	£88.99	£104.56
FP130	NOKIA 2110	£77.99	£91.64	PSD5530293	ERICSSON 600/700	£88.99	£104.56
PSD5530292	NOKIA 6110	£77.99	£91.64	PSD5530291	ERICSSON 300	£88.99	£104.56
PSD5530096	NOKIA 8110	£77.99	£91.64	PSD5530348	MOTOROLA STARTAC/MICROTAC	£88.99	£104.56

please call for full details of other GSM upgrades available

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# APC

AMERICAN POWER CONVERSION



**£79.00**  
E110



**£23.00**  
E100



**£14.00**  
E140



**£12.00**  
E100

## The World's leading brand of UPS

4 million APC UPS users worldwide can't be wrong!

### Back-Up UPS

Designed for use with standalone & networked PCs, they offer blackout and brownout protection with Surge protection.

### Back-Up UPS PRO

Total solution UPS that comes with PowerChute Plus for Win NT, Win 95, Win 3.x & Windows for Workgroups, allowing display of UPS status, system shutdowns, event logging & remote management.

#### BACKUPS & BACKUPS PRO - SERIES

APC2700390	BackUPS 300 VA inc. Surge Pro. for 1 printr	£56.99	£66.96
APC2700391	BackUPS 500 VA inc. Surge Pro. for 1 printr	£67.99	£79.89
APC2700392	BackUPS 650 VA inc. Surge Pro. for 1 printr	£112.99	£132.76
U-A20B	BackUPS Pro 280 - w/ PowerChute Plus	£79.99	£93.99
APC2700427	BackUPS Pro 420 - w/ PowerChute Plus	£104.99	£123.36
U-A30	BackUPS Pro 650 - w/ PowerChute Plus	£139.99	£164.49
APC2700187	BackUPS Pro 1000	£219.99	£258.49
U-A40	BackUPS Pro 1400	£284.99	£334.86

### Smart UPS

Performance and power management for servers. Features Internal SmartSlot accessory card for SNMP support, intelligent battery management & PowerChute Plus software for shutdown and power management.

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APC2700430	SMART-UPS 620VA	£166.99	£196.21
APC2700221	SmartUPS 700i NET - w/ PowerChute Plus	£199.99	£234.99
U-A60	SmartUPS 1000i NET - w/ PowerChute Plus	£239.99	£281.99
U-A65	SmartUPS 1400i NET - w/ PowerChute Plus	£299.99	£352.49
U-A70	SmartUPS 2200i NET - w/ PowerChute Plus	£539.99	£634.49
NEAP002	SMART UPS 3000i NET	£799.99	£939.99

BACKUPS FROM

**£56.99**  
+ VAT

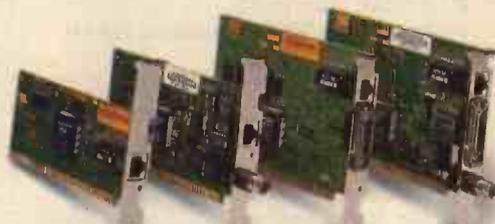
#### UPS - APC ADDITIONAL PRODUCTS

U-A704	4 Socket Surge Strip (PRO-4K)	£30.99	£36.41
U-A3	Line-R LR600i	£88.99	£104.56
U-A4	Line-R LR1250i	£116.99	£137.46
APC2700337	SmartUPS 700RMI rack mount	£279.99	£328.99
APC2700338	SmartUPS 1000RMI rack mount	£359.99	£422.99
APC2700346	SmartUPS 1400RMI rack mount	£429.99	£505.24
APC2700364	SmartUPS 2200RMI rack mount	£749.99	£881.24
APC2700365	SmartUPS 3000RMI rack mount	£899.99	£1,057.49
APC2700342	SmartUPS 700XLI extended run	£329.99	£387.74
U-A140	SmartUPS 1000XLI extended run	£399.99	£469.99
APC2700344	SmartUPS 2200XLI extended run	£779.99	£916.49
U-A205	Additional battery pack for 700/1000XLI	£155.00	£182.13
NEAP001	POWERCHUTE S/W FOR WIN 95	£39.00	£45.83

## 3Com World leading 3rd generation Ethernet adapters

High performance third generation network adapters from world leading 3Com. These Etherlink III Parallel tasking adapters offer up to 25% faster data throughput as well as:

- Self tuning drivers for maximum performance
- Low component count
- Auto Installation
- Menu Driven NetWare Installation
- NDIS & ODI drivers for widest support
- Lifetime Warranty



Parallel Tasking technology allows adaptors to overlap tasks & increase performance.

The adaptor starts writing the first portion of a packet onto the network, while it is still reading the last portion of the packet still in the adaptor's memory - simple!

ETHERLINK III ETHERNET CARDS (20 & 100 packs available - please ring for details)				
3Com Part Number		1 Single Card		5 Pack of Cards
3C509BTPC	Etherlink III UTP only	N151	£33.00	£38.75
3C509BTPC	Etherlink III UTP/BNC	N159	£39.99	£46.99
3C509B	COMBO-Etherlink III COMBO	N151-C	£65.99	£77.54
3C900TPO	Etherlink XL PCI UTP only	N140	£31.99	£37.59
3C900	Combo Etherlink XL PCI Combo	N141	£69.99	£82.24
3C515-TX	Fast Etherlink 10/100 ISA	NR400	£89.00	£104.58
3C905-TX	Fast Etherlink XL 10/100 PCI	N158	£49.99	£58.74
		N153	£151.99	£178.59
		N159-5	£174.99	£205.61
		N154	£289.99	£340.74
		N140-5	£139.99	£164.49
		N141-5	£319.99	£375.98
		NR400-5	£409.00	£480.58
		N158-5	£234.99	£276.11

## Megahertz 56k & LAN card (10Mbps)

PC Card with X-Jack connector

**£149.99**  
E178.24



**NEW**

#### NEW MEGAHERTZ RANGE OF PC CARDS WITH X-JACK CONNECTOR

3CM3823060	10Mbps LAN RJ45	£81.99	£96.34
3CM3823062	10Mbps LAN RJ45 5 PACK	£349.99	£411.24
3CM3823063	10Mbps LAN RJ45 20 PACK	£1,349.99	£1,586.24
3CM3823061	10Mbps LAN RJ45 + BNC	£104.99	£123.36
3CM3823078	10Mbps LAN RJ45 + BNC 5 PACK	£489.99	£575.74
3CM3823099	CARDBUS 10/100Mbps RJ45	£89.99	£105.74
3CM3823130	CARDBUS 10/100Mbps RJ45 5 PACK	£419.99	£493.49
3CM3823131	CARDBUS 10/100Mbps RJ45 20 PACK	£1,599.99	£1,879.99
3CM3823234	56K MODEM + 10Mbps LAN RJ45 + BNC	£169.99	£199.74
3CM3823231	56K MODEM + 10Mbps LAN RJ45	£149.99	£176.24
3CM3823250	56K MODEM + 10/100Mbps LAN RJ45	£169.99	£199.74

#### 3COM SMALL OFFICE HUBS, SWITCHES & ROUTERS - OFFICE CONNECT

NR270	Hub/4TPC 4x 10BaseT 3C16704	£29.99	£35.24
NR280	Hub/4TPC 4x 10BaseT, 1x BNC/AUI 3C16703	£39.99	£46.99
NR290	Hub/8TPC 8x 10BaseT 3C16700	£43.99	£51.69
3CM3821701	Hub/8TPC 8x 10BaseT, 1x BNC 3C16701	£59.99	£70.49
NR410	As NR400 + 1 BNC + SNMP	£179.99	£211.49
NR310	hub/TP16C 16x BNC thin ethernet 3C16702	£97.99	£115.14
NR330	OC Switch 140 6x10BaseT, 1x 100BaseTX 3C16730	£215.99	£253.79
NR340-1	S11 ISDN router (data) 3C410002	£224.99	£264.36
3CM3822744	S21S ISDN router (data/voice) 3C410007	£279.99	£328.99
3CM3822480	S31S ISDN router (data/voice/WAN) 3C410012A	£389.99	£458.24
NR365	Remote access 535 Gateway 3C410011	£749.99	£881.24
NR360-C	3 COM 3C409004 X.21 CABLE	£28.99	£34.06
NE3C024	ISDN LAN MODEM (DATA ONLY) 3C891	£219.99	£258.49

3Com premier mail order partner



#### 3COM SUPERSTACK II HUBS AND ROUTERS

NE3C001	BASILINE hub 12x10BaseT 3C16440	£107.99	£126.89
NR102	BASILINE hub 24x10BaseT 3C16441	£167.99	£197.39
NE3C025	BASILINE DUAL SPEED HUB 12x10/100 TX 3C16592	£361.99	£425.34
NE3C026	BASILINE DUAL SPEED HUB 24x 10/100BASETX 3C16593	£579.99	£681.49
NR240	BASILINE SWITCH 12x10BASET / 2 10/100 PORTS 3C16460	£359.99	£422.99
NE3C027	BASILINE FAST ETHERNET SWITCH 12x10/100 PORTS 3C16464	£639.99	£751.99
NE3C028	BASILINE FAST ETHERNET SWITCH 24x10/100 PORTS 3C16465	£949.99	£1,116.24



NR430 NETWORKING KIT

**£129.99**  
£152.74

- Designed specifically for small office environments.
- 3 x 3C509TPO Cards
  - O/Connect Hub 8/TPC
  - 3 x UTP cables
  - Power Supply

SAME WORKING DAY DESPATCH ON ALL STOCK ITEMS



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both open 9am-6pm monday to friday  
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# NETGEAR

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Bay Networks



NS245 2 PORT 100  
**£117.99**  
£138.64

NS150 6PORT SLIM  
**£29.99**  
£35.24



4, 6, 8, 16 and rack mounted available

NS185 4 PORT 100  
**£64.99**  
£76.36



4, 8, 16 and dual speed available



## ETHERNET HUBS

NETGEAR Ethernet hubs are available in either the compact EN100 Series or the Rack-mount EN500 series (rack-mount brackets included). The rack-mount hubs have an internal power supply. NETGEAR EN308 hub is unique in the range in that it provides an internal power supply in a compact wall-mountable design. NETGEAR 10Base-T hubs have a lifetime warranty.

## FAST / DUAL SPEED HUBS

NETGEAR Fast Ethernet (FE) hubs and Dual Speed (DS) hubs are available in both rack-mount (FE500 / DS500) or compact sizes (FE100 / DS100). The new Dual Speed Hubs auto-sense 10 or 100 on every port - allowing different speed devices to be used on one hub. Cascade cables are included with the rack-mount models. Up to 4 FE500 hubs can be mixed in a stack and up to 8 DS500 hubs can be mixed in a stack.

## SWITCHES

NETGEAR mixed port switches (SW500) offer cost effective performance by providing one or two 10/100 ports for server attachment or uplinking plus a set of 10Base-T ports for workstation or printer attachment. For the ultimate in performance and flexibility, choose NETGEAR Fast Ethernet Switches (FS100 / FS500) with 10/100 auto-sensing on every port. All FS500 and SW500 switches are provided with rack-mount brackets.



## surge protection

### SURGEMASTER

CAB004	UK SurgeMaster, Home/Office Grade, 2 Way Strip, 2m, 1 Line 2500 Amps - £250.00 Connected Equipment Warranty	£8.50	£9.99
CAB005	UK SurgeMaster, Home Office Grade, 4 Way Strip, 2m, 3 Line total 13,500 Amps, + EMI/RFI - £1000 Connected Equipment Warranty	£14.45	£16.98
CAB006	UK SurgeMaster, Home Office Grade, 6 Way Strip, 2m, 3 Line total 13,500 Amps, + EMI/RFI - £2000 Connected Equipment Warranty	£17.00	£19.98



## network cables

### NETWORK CABLES

BC590	UTP CAT 5 2.1M PATCH	£5.00	£5.88
BC600	UTP CAT 5 4.2M PATCH	£6.00	£7.05
BC610	UTP CAT 5 7.5M PATCH	£8.00	£9.40
BC615	UTP CAT 5 15M PATCH	£12.00	£14.10
BC620	BNC 1.8M PATCH	£5.00	£5.88
BC625	BNC 3M PATCH	£7.00	£8.23
BC630	BNC 7.5M PATCH	£10.00	£11.75
BC635	BNC 15M PATCH	£15.00	£17.63
<b>UTP CATEGORY 5 SNAGLESS PATCH CABLES</b>			
BC807-813	3m Grey/Black/Blue/Green/Red/White/Yellow	£3.50	£4.11
BC814	7.6m Grey/Black/Blue/Green/Red	£7.50	£8.81
BC819	7.6m White	£7.50	£8.81
BC820	7.6m Yellow	£7.50	£8.81
BC822	15m Grey/Black/Blue/Green	£12.00	£14.10
BC825	15m Red	£12.00	£14.10
BC826	15m White	£12.00	£14.10
BC827	15m Yellow	£12.00	£14.10
BC828	30m Grey/Black/Blue	£24.00	£28.20
BC828	30m Green	£24.00	£28.20
BC828	30m Red/White/Yellow	£24.00	£28.20

CODE	MFR No	DESCRIPTION	EX VAT	INC VAT
<b>NETGEAR Starter Kits</b>				
NS100	SB104	Ethernet Starter Kit - EN104TP + Two FA310TX + Two 25' Cables	£64.99	£76.36
<b>NETGEAR Special Bundles</b>				
NS105	FB104	Fast Ethernet Starter Kit - FE104 + Two FA310TX + Two 25' Cables	£99.99	£117.49
NS106	FB108	Fast Ethernet Starter Kit - FE108 + Two FA310TX + Two 25' Cables	£164.99	£193.86
<b>NETGEAR Adapter Cards - 10/100Mbps</b>				
NS120	FA310	10/100Mbps Fast Ethernet TP PCI Card	£23.49	£27.60
NS125	FA310-10	10/100Mbps Fast Ethernet TP PCI Card - 10 pk	£204.99	£240.86
NS130	FA310-50	10/100Mbps Fast Ethernet TP PCI Card - 50 pk	£899.99	£1,055.49
<b>NETGEAR Adapter Cards - 10Mbps</b>				
NS110	EA201	10Mbps ISA Network Card for PCs	£12.49	£14.68
NS115	EA201-10	10Mbps ISA Network Card for PCs - 10 pk	£114.99	£135.11
NS135	FA410	10/100Mbps TP PCMCIA Card	£69.99	£82.24
<b>NETGEAR Hubs - 10Mbps</b>				
NS140	ENJ04TP	4 Port Slimline 10Base-T Ethernet Hub ext psu	£22.99	£27.01
NS145	EN104	4 Port Slimline 10Base-T Ethernet Hub with integrated BNC port ext psu	£33.99	£39.94
NS150	EN106TP	6 Port Slimline 10Base-T Ethernet Hub ext psu	£29.99	£35.24
NS152	EN108TP	8 Port Slimline 10Base-T Ethernet Hub ext psu	£34.49	£40.53
NS155	EN108	8 Port Slimline 10Base-T Ethernet Hub with integrated BNC port or AUI ext psu	£49.99	£58.74
NS160	EN308	8 Port 10Base-T Ethernet Hub with int power supply BNC and AUI port int psu	£55.99	£65.79
NS170	EN116	16 Port Slimline 10Base-T Ethernet Hub with integrated BNC and AUI port ext psu	£79.99	£93.99
NS175	EN516	16 Port 10Base-T Ethernet Hub with int power supply BNC and AUI port rack mount int psu	£94.99	£111.61
NS180	EN524	24 Port 10Base-T Ethernet Hub with int power supply BNC and AUI port rack mount int psu	£129.99	£152.74
<b>NETGEAR Hubs - 100Mbps</b>				
NS185	FE104	4 Port Slimline Class II 100Base-TX Fast Ethernet Hub ext psu	£64.99	£76.36
NS190	FE108	8 Port Slimline Class II 100Base-TX Fast Ethernet Hub ext psu	£107.99	£128.64
NS191	FE116	16 Port Slimline Class II 100Base-TX Fast Ethernet Hub ext psu	£248.99	£292.55
NS195	FES08	8 Port 100Base-TX Fast Ethernet Cascade Port Rackmount Stackable Hub int psu	£199.99	£234.99
NS200	FES16	16 Port 100Base-TX Fast Ethernet Cascade Port Rackmount Stackable Hub int psu	£299.99	£352.49
<b>NETGEAR Hubs - 10/100Mbps</b>				
NS205	DS108	8 Port Slimline Dual Speed Hub ext psu	£164.99	£193.86
NS210	DS508	8 Port Dual Speed Cascade Port Rackmount Stackable Hub int psu	£233.99	£274.34
NS215	DS516	16 Port Dual Speed Cascade Port Rackmount Stackable Hub int psu	£339.99	£399.49
NS216	DS524	24 Port Dual Speed Cascade Port Rackmount Stackable Hub int psu	£419.99	£493.49
<b>NETGEAR Switches - Mixed Port</b>				
NS220	SW108	8 Port Ethernet Switch ext psu	£149.99	£176.24
NS225	SW502	2 Port Ethernet Switch with one UTP AUI and BNC Port (auto sensing) and one speed sensing 10/100Mbps UTP Port int psu	£273.99	£321.94
NS230	SW507	7 Port Ethernet Switch with six 10Base-T Ethernet Ports and one speed-sensing 10/100Mbps UTP Port int psu	£223.99	£263.19
NS235	SW510	10 Port Ethernet Switch with eight 10Base-T Ethernet Ports and two speed-sensing 10/100Mbps UTP Ports Rack int psu	£223.99	£263.19
NS240	SW518	18 Port Ethernet Switch with sixteen 10Base-T Ethernet Ports and two speed-sensing 10/100Mbps UTP Ports Rack int psu	£399.99	£469.99
<b>NETGEAR Switches - 10/100Mbps</b>				
NS245	FS102	2 Port Fast Ethernet Switch speed-sensing ext psu	£117.99	£138.64
NS250	FS104	4 Port Fast Ethernet Switch speed-sensing ext psu	£209.99	£246.74
NS250	FS508	8 Port Fast Ethernet Switch speed-sensing int psu	£439.99	£516.99
NS255	FS516	16 Port Fast Ethernet Switch speed-sensing rack mount int psu	£699.99	£822.49
<b>NETGEAR ISDN / Routers</b>				
NS270	RT210	128k ISDN Router with one POTS and ST interface Multilink PPP Security 1 Analog Port	£197.99	£232.64
NS280	RT328	128k ISDN Router with ST interface NAT + DHCP and 2 POTS Multilink PPP Security 2 Analog Ports	£199.99	£234.99
NS285	RH348	ISDN Router with integrated 4 port hub	£219.99	£258.49
NS286	RM356	56k Analogue IP Router	£199.99	£234.99
NS290	XM128	128k ISDN Digital Modem with ST interface 2 (A-law) POTS Multilink PPP 2 Analog Ports	£124.99	£146.86
<b>NETGEAR Print Servers</b>				
NS245	PS104	10Mbps Print Server with integrated 4 port	£87.99	£103.39
NS300	PS110	10/100Mbps Print Server with 2 printer ports	£119.99	£140.99



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NETWORKS

# MONITORS

Model	Specs	Price	Price
<b>ADI</b>			
MNAD002	PROVISTA E33 14"	£95.00	£111.63
MNAD003	PROVISTA E44 15"	£105.00	£123.38
M0525	MICROSCAN 4P 15"	£119.00	£139.83
M0527	MICROSCAN 5P 17"	£189.00	£222.08
M0522	MICROSCAN 5G 17"	£255.00	£299.63
M0528	MICROSCAN 5GT 17"	£279.00	£327.83
M019	MICROSCAN 6P 19"	£369.00	£433.58
M0524	MICROSCAN 6G 21"	£549.00	£645.08
MNAD001	MICROSCAN 5T 14" TFT	£649.00	£762.58
MNAD004	MICROSCAN 6T 15" TFT	£709.00	£833.08
<b>BELINEA</b>			
M0745	104010 14IN CRT 54KHz MPRII DIGITAL	£78.99	£92.81
M0747	105035 15IN FST 0.28DP 69KHz MPRII	£93.99	£110.44
MNBL002	105080 15IN FST 0.28DP NAKAMICHI	£120.99	£142.16
MNBL007	107020 17IN FST 0.28DP 70KHz TCO 95	£154.99	£182.11
MNBL011	107040 17IN FST 0.26DP 85KHz TCO95	£189.99	£223.24
MNBL012	107025 17IN FST 0.27DP 70KHz TCO95	£182.99	£215.01
MNBL014	107065 17IN FST 0.26DP NAKAMICHI	£233.99	£274.94
M0750	107050 17IN DTRON 0.25DP 95KHz TCO 95	£255.99	£300.79
MNBL010	106020 19IN FST 0.26DP 95KHz TCO95	£289.99	£339.56
<b>CTX</b>			
M0610	1451E/VL400 14IN 0.28DP 1024X768	£85.00	£99.88
M0614	1555SE/VL510 15IN 0.28DP 1024X768	£99.00	£116.33
M0602	1569SE/VL500 15IN 0.28DP 1280X1024	£105.00	£123.38
M0609	1569ME/MS500 15IN 0.28DP SPEAKERS	£149.00	£175.08
M0611	1569UA/PR500 15IN 0.25DP TRINITRON	£159.00	£186.83
M0616	1769SE/VL700 17IN 0.28DP 1280X1024	£189.00	£222.08
M0615	1769MS/MS700 17IN 0.28DP SPEAKERS	£249.00	£292.58
M0613	1792SE/VL710 17IN 0.26DP 1600X1200	£215.00	£252.63
M0605	1785XE 17IN 0.26DP 1600X1200	£249.00	£292.58
M0612	1792UA/PR710 17IN 0.25DP TRINITRON	£309.00	£363.08
M0617	1995UE/VL950T 19IN 0.26DP 1600X1200	£359.00	£421.83
M0607	2085XE/EX800 20IN 0.28DP 1600X1200	£599.00	£703.83
M0608	2185XE 21IN 0.26DP 1600X1200	£679.00	£797.83
M0618	2195XE/EX1100 21IN 0.26DP 1600X1200	£759.00	£891.83
<b>IYAMA</b>			
M0105	MFB515G VISION MASTER 350 15"	£139.00	£163.33
MN1006	S702GT VISION MASTER 17"	£229.00	£269.08
MN1001	S701GT VISION MASTER 400 17"	£285.00	£334.88
MN1002	A701GT VISION MASTER PRO 400 17" DTRON	£315.00	£370.13
M0108	MFB617ES VISION MASTER 17ES 17" SPKR	£349.00	£410.08
M0112	S901GT VISION MASTER 450 19"	£399.00	£468.83
MN1005	A901GT VISION MASTER PRO 450 19" NFT	£435.00	£511.13
M0120	S101GT VISION MASTER 501 21"	£679.00	£797.83
MN1003	A101GT VISION MASTER PRO 501 21" DTRON	£679.00	£797.83
MN1004	S102GT VISION MASTER 502 21"	£699.00	£821.33
M0119	A102GT VISION MASTER PRO 502 21" DTRON	£719.00	£844.83
M0114	TXA3601GT PROLITE 36 14.1" TFT	£575.00	£675.63
<b>NOKIA</b>			
M0315	NOKIA 449X1PLUS 15 0.25DP MON"	£174.99	£205.61
M0316	NOKIA 449XAPLUS 15 0.25	£184.99	£217.36
M0311	NOKIA 4472A 17 FST 0.26DP	£268.99	£316.06
M0312	NOKIA 447XPRO 17 TRINITRON	£328.99	£386.56
MNNK001	NOKIA 447X PRO AUDIO 17"	£389.99	£458.24
MNNK002	NOKIA 446X 19 FST MONITOR	£418.99	£492.31
M0313	NOKIA 446XPRO 19 FST	£449.99	£528.74
<b>PHILIPS</b>			
MOP01	1045 14IN COLOUR MONITOR	£74.99	£88.11
MOP02	1055 15IN 0.28DP FST DIGITAL OSD	£104.99	£123.36
PH107S	1075 17IN 0.28DP FST 1024X768@85Hz	£169.99	£199.74
MOP03	107MB 17IN 0.26DP FST1280X1024@80Hz	£269.99	£317.24
PH107MP	107MP 17IN 0.26DP FST1280X1024@85Hz	£349.99	£411.24
<b>PRINCETON</b>			
PGS011	E0505 15IN 0.28DP FST	£94.99	£111.61
PGS002	E050 15" 0.28DP FST 1024X768	£109.99	£129.24
PGS003	E0500/95 15" 0.28DP FST1024X768	£124.99	£146.86
PGS012	E0705/95 17IN 0.27DP FST TCO95	£169.99	£199.74
PGS004	E0710/95 17" 0.26DP FST 1024X768	£184.99	£217.36
PGS005	E075 TCO 17" 0.26DP FST 1280X1024	£209.99	£246.74
PGS007	E0900/95 19" 0.26DP FST 1280X1024	£299.99	£352.49
PGS009	ARCADIA AR.2 29" 800X600 IN	£489.99	£575.74
PGS010	DPP500 14" TFT INC 4MB AGP ATI LCD VIDEO CARD	£489.99	£575.74
PGS008	C2001 21" 0.28DP DTRN 1600X1200	£679.99	£798.99
<b>SAMSUNG</b>			
M0200	SM5005 15"	£99.00	£116.83
M0201	SM500B 15"	£129.00	£151.58
M0204	SM7005 17"	£175.00	£205.63
M0205	SM700P 17"	£265.00	£311.38
<b>SONY</b>			
M0410	MULTISCAN 100ES 15"	£157.99	£185.64
M0411	MULTISCAN 100GST 15"	£211.99	£249.09
M0413	MULTISCAN 120AS 15"	£257.99	£303.14
M0412	MULTISCAN 200ES 17"	£284.99	£334.86
M0409	MULTISCAN 200GST 17"	£314.99	£370.11
M0415	MULTISCAN 220AS 17"	£348.99	£410.06
MNSV001	MULTISCAN 400PST 19"	£479.99	£563.99
<b>TAXAN</b>			
M0511	ERGOVISION 550 TCO 95 15" FST	£132.00	£155.10
MNTA002	ERGOVISION 550 TCO 95 15" FST	£142.00	£166.85
MNTA016	ERGOVISION 735 TCO99 17IN FST USB	£225.00	£264.38
MNTA004	ERGOVISION 760 TCO 95 17" ZENTAN	£252.00	£296.10
M0513	ERGOVISION 760 TCO 95 17" ZENTAN	£262.00	£307.85
M0504	ERGOVISION 740 TCO 95 17" FST	£305.00	£358.38
MNTA017	ERGOVISION 745 TCO99 17IN FST USB	£252.00	£296.10
M0505	ERGOVISION 750 TCO 95 17" DTRON	£349.00	£410.08
M0515	ERGOVISION 975 TCO 95 19" FST	£445.00	£522.88
MNTA006	ERGOVISION 2160 TCO 95 21" DIAMONDTRON	£759.00	£891.83

Model	Specs	Price	Price
MITSUBISHI			
MT5630067	MITSUBISHI SCAN 50 15in FST	£130.99	£153.91
MNM1002	MITSUBISHI SCAN 70 17in FST	£202.99	£238.51
MNM1013	MITSUBISHI PLUS 71 17in Dtron	£278.99	£327.81
MNM1005	MITSUBISHI PLUS 72 17in Dtron	£308.99	£363.06
MNM1006	MITSUBISHI PRO 700 17in Dtron	£389.99	£458.24
MNM1012	MITSUBISHI SCAN 90 19in	£414.99	£487.61

Model	Specs	Price	Price
MNM1007	MITSUBISHI PRO 91TXM 21in Dtron	£688.99	£809.56
MT5630064	MITSUBISHI PRO 1000E 21in Dtron	£769.99	£904.74
MNM1008	MITSUBISHI PRO 1000 21in Dtron	£961.99	£1130.34
MNM1009	MITSUBISHI PRO1010 21in Dtron	£1253.99	£1473.44
MNM1010	MITSUBISHI LX4420W 14.1in TFT	£713.99	£838.94
MNM1011	MITSUBISHI LX4520W 15.1in TFT	£803.99	£944.69



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## Scan 50

Competitively priced fully-featured 15" colour monitor

Mitsubishi Electric has announced the Diamond Scan 50, a high performance 15-inch colour monitor, the latest addition to its DiamondLine range. The Diamond Scan 50 is designed to meet the needs of corporate customers looking for high levels of quality, performance and support

- Flat-square CRT with Invar alloy shadow mask to ensure colour stability at sustained high brightness levels.
- Improved front-panel, MPU-based on-screen user controls.
- 1280 x 1024 @ 60 Hz non-interlaced maximum addressable resolution.
- Fine 0.28 mm dot pitch
- Integrated tilt and swivel base
- 3 Year Warranty 1st year on site

**£130.99** (MNM1002) (£153.91)



## Plus 71

Competitively priced fully-featured 17" colour monitor

The compact Diamond Plus 71 17" colour monitor features a super-fine 0.25mm grille pitch for sharply focused, vibrant images. Ideal for text-intensive work, this monitor boasts a maximum resolution of 1280 x 1024 @ 60Hz.

This DIAMONDTRON™ monitor features an on-screen menu guide & meets the latest industry environmental & safety standards.

- Compact 17" DIAMONDTRON™ monitor with 16" viewable area & on-screen menu
- Super-fine 0.25mm grille pitch with a maximum resolution of 1280 x 1024 @ 60Hz
- Meets latest environmental & safety standards including VESA, MPR-II, Energy Star & TCO95.
- 3 Year Warranty 1st year on site

**£278.99** (MNM1013) (£327.81)



# PHILIPS

Designed with inspiration... for users with ambitions to achieve, for buyers with budgets to meet and for specialists looking for a superior result.



## Philips 107S - 17"

- 17"(15.9"Viewable)
- Black Matrix CRT with AGAS coating
- 0.28 dot pitch
- 1024x768 @ 85Hz
- Digital OSD

**£169.99** (PH107S 17") (£199.74)

## Philips 107MB - 17"

- 17"(15.9" Viewable)
- Black Matrix CRT with AGAS coating
- 0.26 dot pitch
- 1280x1024 @ 80Hz
- Digital OSD
- With speakers

**£269.99** (MOP03 17") (£317.24)

<b>CTX 1555E/VL510</b> £99	<p>CRT Size/Viewable 15"/13.8" Dot Pitch (mm) 0.28mm CRT Type FST Max. Resolution 1024x768@70Hz Rec. Resolution 800x600@90Hz Special Features MPRII, CE</p>	<b>CTX 1792UA/PR710T</b> £309	<p>CRT Size/Viewable 17"/16" Dot Pitch (mm) 0.25mm CRT Type Trinitron® Max. Resolution 1600x1200@75Hz Rec. Resolution 1280x1024@85Hz Special Features MPRII, CE, TCO 95</p>
<b>CTX 1769SE/VL700</b> £189	<p>CRT Size/Viewable 17"/15.7" Dot Pitch (mm) 0.28mm CRT Type FST Max. Resolution 1280x1024@65Hz Rec. Resolution 1024x768@90Hz Special Features MPRII, CE</p>	<b>CTX 1995UE/VL950T</b> £359	<p>CRT Size/Viewable 19"/18" Dot Pitch (mm) 0.26mm CRT Type High Contrast FST Max. Resolution 1600x1200@75Hz Rec. Resolution 1280x1024@90Hz Special Features MPRII, CE, TCO 95</p>

CTX Executive Exchange Service A 3 year on site warranty for all CTX customers.

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**iiyama**

The Vision Master™ 350 Colour Monitor Model MF8515



- 15" FST screen with anti-reflect/anti static coating and 0.28 dot pitch. 1024x768 @ 85Hz.

MO105 **£139.00** £163.33

**iiyama**

The Vision Master™ 450 19" Colour Monitor Model S901GT



- 19" screen FST with 18" viewable. Anti-reflect/anti glare/anti static coating and 0.26 dot pitch. 1600x1200 @ 80Hz.

MO112 **£399.00** £468.83

**iiyama**

The Award Winning Vision Master™ Pro 400 Colour Monitor Model A701GT



- 17" Diamondtron tube with anti-reflect/anti static coating and 0.25mm aperture grille. 1600x1200 @ 75Hz.

MN1002 **£315.00** £370.13

**iiyama**

The New Vision Master™ PRO 501 21" Colour Monitor Model A101GT



- 21" DiamondTron, 0.28mm a.g Max Res: 1600x1200@75Hz (AR/ASC)

MN1003 **£679.00** £797.83

All iiyama monitors come with 3yr warranty, 1st yr On-Site, 2nd & 3rd RTB, or upgrade to VisionCare warranty, 3yr On-Site

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15" MICROSCAN 4P **£119.00** £139.83

Excellence in display combined with integral microphone, stereo speaker & USB technology options.

17" MICROSCAN 4P **£189.00** £222.08

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MONITORS BY MAXDATA

MARKET LEADER IN EUROPE

great deal!



15" MONITOR **£93.99** £110.44

- 15-inch FST Viewable Image 34.5 cm
- Maximum Resolution 1280 x 1024 @ 60Hz, 1024 x 768 @ 85 Hz flicker free
- CRT Dot Pitch 0.28 mm Shadow Mask, High-Black-Matrix
- Antireflection Coating SILICA
- Digital Front Control On-Screen-Display
- Emission Standard: MPR II
- 3 Year on site warranty

**PRINCETON**  
Enhance your image.



17" PRINCETON EO710

- 17" (15.95" viewable) high contrast FST
- 1024x768
- 0.26 dot pitch
- TC095
- Reduced emissions
- AART™ (advanced Anti-reflection Technology)
- 3Yrs warranty

PG5004 EO710 **£184.99** £217.36



19" PRINCETON EO900

- 19" (18" viewable) high contrast FST
- 1600x1200
- 0.26 dot pitch
- TC095
- AART™ (advanced Anti-reflection Technology)
- 3Yrs warranty

PG5007 EO900 **£299.99** £352.49



DPP POWERPANEL DIGITAL 4Mb ATI Rage LT Pro included

- 14" TFT-LCD, anti glare, hard coating.
- Digital technology for crisp image and text
- Multimedia capable with builtin stereo speakers
- 4Mb ATI Rage LT Pro included
- 3Yrs warranty

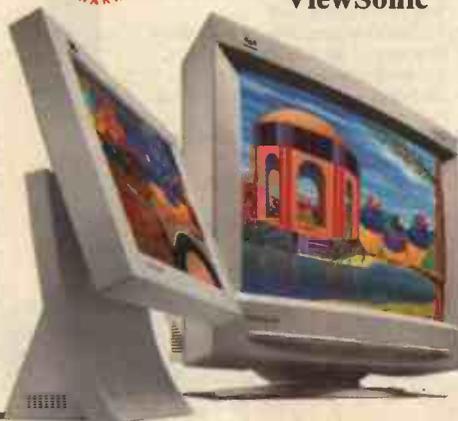
PG5010 DPP POWERPANEL **£489.99** £575.74

First Choice for Performance and Price

VIEWSONIC

MO800	E641 14 MONITOR	£89.00	£104.58
MO801	E655 15 MONITOR	£119.00	£139.83
MO48-1	E771 17 FST 0.27DP	£225.00	£264.38
MNVW001	G653 15"	£129.00	£151.58
VS6524146	GA655 15" MULTIMEDIA	£185.00	£217.38
MO33-1	G771 17 FST 0.27DP	£265.00	£311.38
MO811	G5771 17 MONITOR	£285.00	£334.88
MNVW002	GA771 17 0.27MM	£325.00	£381.88
MO810	G773 17 MONITOR	£295.00	£346.63
MO808	G775 17 "	£365.00	£428.88
MO49-1	G790 19 0.26DP	£485.00	£569.88
MO807	G800 20"	£635.00	£746.13
MO33-2	P655 15	£145.00	£170.38
MO44-1	P775 17 FST 0.25DP *	£365.00	£428.88
MO809	PT775PRO 17 "	£405.00	£475.88
MO803	P810 21"	£745.00	£875.38
MO806	PT813 21"	£695.00	£816.63
MO805	P815 21"	£875.00	£1028.13
MNVW004	VPA138 13.8" LCD	£615.00	£722.63
MO813	VPA145 14.5 LCD	£795.00	£934.13
MNVW003	VPA150 15" LCD	£975.00	£1145.63

3 year FREE WARRANTY



Ergovision 760 TCO95-S

**TAXAN**



The Ergovision 760 TCO95-S features the new short neck 17" ZenTan FST producing a desktop foot print equal to a conventional 14" monitor of just 392mm

- AGRAS face treatment
- 0.27mm dot pitch
- 1024 x 768 @ 86Hz
- Easy one-touch OSD control
- Fully TCO 95 compliant
- 3Yr warranty - 1st Yr on site

Ergovision 750 TCO95



17" TCO95-S **£262.00** £307.85

The multiple award winning Ergovision 750 TCO95 features the superb short neck 17" Diamondtron tube for the ultimate in picture clarity

- K-coating face treatment
- 0.25mm aperture grill pitch
- 1280 x 1024 @ 80Hz
- Fully TCO 95 compliant
- Dual Input

M0505 750 TCO95 **£349.00** £410.08

**TAXAN**

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Insight



# EPSON FREE DELIVERY ON THESE PRINTERS

## EPSON STYLUS Color 440

LOW COST - EASY TO USE - HIGH QUALITY 720DPI COLOUR INKJET PRINTER WITH NO HIDDEN EXTRAS

- 720dpi PhotoReal colour and black printing
- Designed for ease of use - ideal for first time buyers
- Easy to use - Interactive Online help
- New full function Status Monitor
- FREE NEW "PerfectPicture Pak" Home Creativity software bundle
- FREE PhotoQuality Paper Pack
- High quality output on all media types
- Advanced Dual Cartridge Ink System
- New Printer Driver Enhancements
- Fast Print Speeds
- 1 Year RTB Warranty

EPSON  
PerfectPicture  
PAK



PR-E20 COLOR 440  
**£103.00**  
£121.03

EPSON  
COVERPLUS  
£35.00  
3yr onsite

## EPSON EPL-N1600

A FAST 1200DPI 6PPM LASER PRINTER FOR WORKGROUPS OR DEMANDING STANDALONE USERS

- Fast print speeds - 16ppm
- Superb 1200dpi with EPSON MicroGray and RITech printing techniques
- Comprehensive network connectivity
- Advanced remote network management and status monitor
- Extensive paper input capacity of up to 830 with 3 different paper sources
- Duplex option available for two sided printing
- Parallel & Serial interfaces as standard with integral expansion slot for network connectivity
- Network and PostScript ready configurations

ONLY  
**£399.00**  
1st 3yr onsite

EPSON  
COVERPLUS  
£59.00  
3yr onsite



EP235374 EPL-1600  
**£596.00**  
£700.30

## EPSON EPL-5700

THE IDEAL SMALL WORKGROUP LASER PROVIDING A RAPID 8 PPM

- 8ppm with 100Mhz RISC processor for fast, efficient printing
- True 600 x 600dpi with MicroGray 1200 and RITech for 1200dpi class, high quality printing
- 4Mb RAM as standard - upgradable to 36Mb with standard memory SIMMs
- Parallel & Serial interfaces as standard
- 1 Year RTB Warranty with Optional Epson Cover Plus for 3 Year On Site warranty

EPSON  
COVERPLUS  
£59.00  
3yr onsite

COVERPLUS  
**£59.00**  
3yr onsite



LAEP001 EPL-5700  
**£304.00**  
£357.20

## EPSON STYLUS Color 640

1440DPI PHOT-REAL OUTPUT WITH NO HIDDEN EXTRAS UTILISES EPSON PERFECT PICTURE IMAGING SYSTEM™

- 1440dpi colour & true black printing with EPSON Super MicroDot™
- EPSON PhotoEnhance 3 for optimised Digital Images
- FREE NEW "PerfectPicture Pak" Home Creativity software bundle
- FREE PhotoQuality Paper Pack
- High quality output on all media types
- Advanced Dual Cartridge Ink System
- New Printer Driver Enhancements
- New full function Status Monitor
- Windows 95 & 98
- 1 Year RTB Warranty with option to extend to 3 Years

EPSON  
PerfectPicture  
PAK



PR-E25 COLOR 640  
**£133.00**  
£156.28

EPSON  
COVERPLUS  
£35.00  
3yr onsite

## EPSON STYLUS Color 740

ADVANCED 1440DPI WITH VARIABLE SIZED DROPLET TECHNOLOGY - EPSON ULTRA MICRODOT™

- EPSON Ultra MicroDot™ - the world's smallest ink droplet in black and colour
- 1440dpi with Variable Sized Droplet Technology
- 40% Speed Improvement
- FREE NEW Advanced "PerfectPicture Pak" Home Creativity software bundle
- High quality output on all media types
- Advanced Dual Cartridge Ink System
- New Printer Driver Enhancements
- New full function Status Monitor
- Win95, 98, NT4.0 & MAC
- 1 Year RTB Warranty with option to extend to 3 Years

EPSON  
PerfectPicture  
PAK  
ADVANCED



PR-E30 COLOR 740  
**£177.00**  
£207.98

EPSON  
COVERPLUS  
£59.00  
3yr onsite

## EPSON STYLUS Photo EX

BRILLIANT PROFESSIONAL A3 COLOUR IMAGES AT 1400DPI

- 1440 dpi and smaller Super MicroDot for the highest photo quality output
- Windows 3.1, Windows '95, Windows NT and Macintosh compatible
- EPSON PhotoEnhance 2 - automatically optimises photo output
- Prints on plain paper with EPSON QuickDry Ink
- Prints on a wide range of media
- 1 year RTB warranty as standard

EPSON  
COVERPLUS  
£99.00  
3yr onsite



PR-E4 PHOTO EX  
**£308.00**  
£361.90

PRQ  
PHOTO REPRODUCTION  
QUALITY

## EPSON STYLUS Photo 700

NEW GENERATION HOME PRINTER FOR PHOTOGRAPHIC & GENERAL USE

- Perfect for photo reproduction, editing and output up to A4
- Windows 3.1, Windows '95, Windows NT and Macintosh compatible
- 1440 dpi and smaller Super MicroDot for the highest photo quality output
- EPSON PhotoEnhance 2 - automatically optimises photo output
- Prints on wide range of media: Photo Paper, Photo Sticker, Panoramic Photo Paper, Card and Plain Paper
- 1 year RTB warranty
- Includes Adobe PhotoDeluxe v2.0

EPSON  
COVERPLUS  
£59.00  
3yr onsite



PR-E5 PHOTO 700  
**£163.00**  
£191.53

EPSON  
COVERPLUS  
£59.00  
3yr onsite

## EPSON STYLUS Color 850

IDEAL FOR A WIDE VARIETY OF PROFESSIONAL & BUSINESS APPLICATIONS

- Ultra-fast Print Speed - up to 9ppm mono & up to 8.5 ppm Colour
- 1440dpi colour printing on plain paper
- New smaller Super MicroDot delivers unequalled print performance
- PhotoReal Colour & Laser-Sharp Black output as standard
- Windows 3.1, Windows '95, Windows NT & Macintosh compatible
- Optional network and Postscript capability
- High capacity dual ink cartridge
- New full function status monitor
- 1 year RTB warranty

EPSON  
COVERPLUS  
£59.00  
3yr onsite



PR-E6 COLOR 850  
**£207.00**  
£243.23

COVERPLUS  
**£59.00**  
3yr onsite

### EPSON PRINTERS & CONSUMABLES - FREE DELIVERY ON PRINTERS

PR18	LX-300 9PIN 80 COLUMN	£87.00	£102.23
PR190	LX-1050 + 9PIN 136 COLUMN	£154.00	£180.95
PR-E1	FX-880 9PIN 80 COLUMN	£247.00	£290.23
PR192	FX-1170 9PIN 136 COLUMN	£230.00	£270.25
PR-E2	FX-2170 9PIN 136 COLUMN	£395.00	£464.13
PR196	LQ-300 24PIN 80 COLUMN	£115.00	£135.13
PR197	LQ-570 + 24PIN 106 COLUMN	£216.00	£253.80
PR-E3	LQ-670 + 24PIN 106 COLUMN	£230.00	£270.25
PR198	LQ-870 24PIN 80 COLUMN	£377.00	£442.98
PR199	LQ-2070 24PIN 136 COLUMN	£330.00	£387.78
PR128	LQ-2170 24PIN 136 COLUMN	£468.00	£549.90
PR-E6	STYLUS COLOR 850	£207.00	£243.23
PR-E4	STYLUS PHOTO EX	£308.00	£361.90
PR-E5	STYLUS PHOTO 700	£163.00	£191.53
PR115	STYLUS COLOR 1520 A2	£451.00	£529.93
PR131	STYLUS 1000 MONO	£292.00	£343.10
PR123	EPL-N1200	£593.00	£696.78
PR124	EPL-N1200EN ETHERNET	£791.00	£929.43
PR125	EPL-N1200PS POSTSCRIPT	£986.00	£1158.55
CT-E15	BLACK CARTRIDGE FOR PHOTO 700/EX	£13.99	£16.44
CT-E25	BLACK CARTRIDGE FOR STYLUS 850/1520	£14.99	£17.61
EP2353596	BLACK CARTRIDGE FOR STYLUS 740	£12.99	£15.26
CT-E20	COLOUR CARTRIDGE FOR STYLUS 850/1520	£13.99	£16.44
CT-E24	COLOUR CARTRIDGE FOR PHOTO 700/EX	£10.99	£12.91
EP2353650	CLR CARTRIDGE FOR STYLUS 440/640/740	£13.99	£16.44
EP2353595	BLACK CARTRIDGE FOR STYLUS 440/640	£10.99	£12.91
PA1	100 X EPSON 360 DPI A4 PAPER	£6.00	£7.05
PA2	100 X EPSON PHOTO QUALITY A4 PAPER	£8.50	£9.99
EP2351840	100 X EPSON PHOTO QUALITY A3 PAPER	£25.00	£29.38
PA5	20 X EPSON PHOTO QUAL GLOSSY A4 PAPER	£5.00	£5.88
EP2352558	20 X EPSON PHOTO QUAL GLOSSY A3	£15.00	£17.63
EP2353321	20 X EPSON PHOTO PAPER A4	£7.00	£8.23
EP2353322	20 X EPSON PHOTO PAPER A3	£18.00	£21.15

SAME WORKING DAY DESPATCH ON ALL STOCK ITEMS



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**hp HEWLETT PACKARD**

**HP DESKJet 340C**

*Makes any place your workplace*

Whether you're traveling or working at home, the HP DeskJet 340 for the notebook PC and Apple PowerBook gives you the flexibility to print wherever you need to print. You get crisp, high-quality black plus easy-to-add color with the HP Color Kit. It offers portable, full-featured quality printing.



**FREE DELIVERY ON THIS PRINTER**

PR120 DESKJET 340C  
**£144.00**  
£169.20

**HP DESKJet 690C**

*Vibrant life-like images & crisp black text.*

The versatile HP DeskJet 690C brings professional communications capabilities to the home or the office. Produce reports, brochures, proposals, financial charts and graphs, banners, labels and more.



**FREE DELIVERY ON THIS PRINTER**

PR-HP2 DESKJET 690C  
**£96.00**  
£112.80

**HP DESKJet 710C**

*The flexible partner that gives you great results with no hassle.*

The HP DeskJet 710C printer is your flexible partner for all your personal projects. It is versatile and delivers Photo quality printing straight out of the box. It is easy to be creative with the DeskJet 710C as it prints on a wide variety of media including plain and premium paper

- Photoquality imaging out of the box - without swapping cartridges
- Easy to set up and hassles free operation



**FREE DELIVERY ON THIS PRINTER**

PR-HP3 DESKJET 710C  
**£134.00**  
£157.45

**HP DESKJet 895Cxi**



**FREE DELIVERY ON THIS PRINTER**

*Professional photo quality imaging & photo performance to increase productivity & efficiency*

The new HP DeskJet 895Cxi professional series printer sets your business apart. It gives you professional performance for a clear advantage - with high impact reports, graphs, spreadsheets and posters.

- photo quality colour printing on a wide range of media
- Increased print speeds of up to 10ppm (Black) + 8ppm (Black with colour)
- Sharp and crisp text with HP pigmented black ink.

HP943D066 DESKJET 895Cxi  
**£186.00**  
£218.55

**HP 2000C**



**FREE DELIVERY ON THIS PRINTER**

*HP2000C/CN Professional series with breakthrough colour printing speed*

The HP Professional Series printers enhance your business performance and image with breakthrough color print speed, substantial cost savings, and brilliant photo quality on any paper - setting a new business standard for color printers.

- Black: 600dpi colour: PhotoRE II for photo quality
- 150 sheet paper tray (2000C)
- 250 sheet paper tray, HP Direct 300X print server (2000CN)

PR-HP4 DESKJET 2000C  
**£450.00**  
£528.75

**HP LASERJet 1100**

*The personal laser printer for business users*

Ideal for business users in Microsoft® Windows®, DOS or OS/2 environments who want the convenience & confidentiality of a desktop laser printer. The HP LaserJet 1100 printer offers up to 8ppm print speed, superior flexibility, optional network capability, & HP's proven laser technology for reliable performance year after year.



**FREE DELIVERY ON THIS PRINTER**

HP943E900 LASERJET 1100  
**£232.00**  
£272.80

Print/copy/scan with the LaserJet 1100A

**STAR BUY**

HP943E959 LASERJET 1100A  
**£329.00**  
£386.58

**HP LASERJet 6P & 6MP**

*Great looking documents, enhanced productivity & room to grow*

Start with high-resolution laser print quality, versatile paper handling and 8 page-per-minute print speed driven by a fast processor. Add expandability with attractive pricing and what you get is the HP LaserJet 6P printer, delivering outstanding value for individual or shared use from the market leader in laser printing for the office.

- 6 Pages Per minute
- 18 secs. for first page
- 600 x 600dpi
- MicroFine Toner
- Sharp Text, Crisp Graphics



**FREE DELIVERY ON THIS PRINTER**

PR404 LASERJET 6P  
**£461.00**  
£517.80

PR404 LASERJET 6MP  
**£562.00**  
£628.80

**HP LASERJet 4000**



*Bringing significant technology improvements to workgroup laser printing*

From paper handling to print quality HP has completely redesigned the best selling HP LaserJet5 printer based on customer needs. You'll find a superior network printing solution that includes industry leading HP JetDirect 600N print servers and HP Web JetAdmin printer management software. The absolute best in network printing. All 4000 series printers are Postscript 1200dpi, 17PPM printers.

**FREE DELIVERY ON THIS PRINTER**

PR411 LASERJET 4000  
**£711.00**  
£836.43

**HEWLETT PACKARD PRINTERS & OFFICEJETS - FREE DELIVERY**

PR-HP1 DJ	420 COLOUR	£66.00	£77.55
PR120 DJ	340 COLOUR PORTABLE	£144.00	£169.20
PR66 DJ	340Cbi (Infrared) COLOUR PORTABLE	£159.00	£186.83
PR-HP2 DJ	690C	£96.00	£112.80
PR-HP3 DJ	710C	£134.00	£157.45
PR58 DJ	720C	£149.00	£175.08
PR-HP6 DJ	895Cxi	£186.00	£218.55
PR-HP01 DJ	1120C	£285.00	£334.88
PR-HP20	LaserJet 1100	£232.00	£272.80
PR-HP25	LaserJet 1100A (with scanner)	£285.00	£334.88
PR51	LaserJet 6L	£270.00	£246.75
PR403	LaserJet 6P	£461.00	£541.68
PR404	LaserJet 6MP	£562.00	£660.95
PR-HP4	LaserJet 2000C	£450.00	£528.75
PR-HP5	LaserJet 2000CN	£675.00	£793.13
PR411	LaserJet 4000	£711.00	£836.43
PR442	OJ 590 COLDUR	£296.00	£347.80
PR443	OJ 635	£339.00	£398.33
LAMP001	LJ 3100 PRINTER-FAX-COPIER-SCANNER	£471.00	£553.43
PR-OJ1	OJ 1170	£491.00	£576.93
CT110	BLACK CARTRIDGE FOR DJ 310/320/340	£13.99	£16.44
CT105	CLR CARTRIDGE FOR DJ 820/870/890/1100	£16.99	£19.96
CT102	BLK FOR DJ 820/720/870/1600/1150	£25.99	£18.79
CT118	CLR CARTRIDGE FOR DJ 720	£18.99	£22.31
CT157	TONER CARTRIDGE FOR LJ 5P/5MP/6P/6MP	£39.99	£46.99
CT150	TONER CARTRIDGE FOR LJ 5L/6L	£30.99	£36.41
CT119	TONER CARTRIDGE FOR LJ 4000	£48.99	£57.56
COHP001	TONER CARTRIDGE FOR LJ 5000	£79.99	£93.99

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**PRINTERS - HP**



# FREE DELIVERY ON ALL PRINTERS

PRINTERS

## Canon

Brighten Up your Homework and all your Work At Home with the BJC 250



**BLOCKBUSTER**

FREE VIDEO RENTAL until the year 2000  
 \* 1 movie per week  
 \* maximum of 52 rentals until 31st December 1999  
 \* any film category  
 \* full terms and conditions available on request from Canon

PR-72  
**£71.00**  
£83.43

The BJC-250 Bubble Jet printer from Canon is the perfect companion for your home computer, and ideal for use in a small office, too.

- 360 x 360dpi with PhotoRealism™
- 720 x 360 dpi mono output

Professional colour printing from Canon's BJC 7000



PR-69  
**£175.00**  
£205.63

- 1200 dpi plain paper output
- True A4 print size
- Print on card up to 550gsm
- Photo printing with BC-62 photo cartridge
- 1 RTB Warranty

Canon BJC 4300



FREE DELIVERY ON THIS PRINTER

Experience the ultimate in colour creativity. Print and scan in striking colours. With the first ever printer that provides a unique, snap-in scanner cartridge.\* Scan in photos and illustrations and produce spectacular photo-realistic printouts. Enjoy unlimited output on everything from banners to T-shirt transfers.

- Drop Modulation Technology™ 720 x 360 dpi
- 720 x 360 dpi mono output
- Opt. Colour Scanner Cartridge (IS-22)
- Smudge Proof & fade resistant
- 1 Yr p/lab Warranty

PR-73 BJC 4300  
**£89.00**  
£104.58

THE RANGE OF CANON PRINTERS

PR-72	BJC 250	£71.00	£83.43
PR-73	BJC 4300	£89.00	£104.58
PR-86	BJC 4650	£194.00	£227.95
PR-61	BJC 80	£139.00	£163.33
PR-69	BJC 7000	£175.00	£205.63
PR-98	BJC 5500	£405.00	£475.88
CAN2422288	BJC 50	£189.00	£222.08
CAN2422632	BJC 5000	£168.99	£198.56

**brother**  
 HL-820  
 The robust, low cost Windows dedicated printer. Ideal for SOHO use

- Up to 8ppm
- Windows dedicated printing
- 600dpi print resolution
- 200 sheet paper input
- Semi-automatic double-sided printing
- Intelligent sleep mode



FREE DELIVERY ON THIS PRINTER

LABR001  
**£159.00**  
£186.83

BROTHER

PR283	HL1660e 8mb 10ppm Laser 1200x600dpi	£609.00	£715.58
PR284	HL1660eN 8mb 16ppm Laser 1200x600dpi	£819.00	£962.33
PR285	HL1660eN 16mb 16ppm Laser 1200x600dpi	£835.00	£981.13
PR276	HC3000 All in One print/scan - col inkjet	£449.00	£527.58
PR278	MIC9000 All in One print/scan/fax - LASER	£548.00	£668.58
PR280	MFC700C All in One print/scan/fax - LASER	£649.00	£762.58
LABR001	HL-820 LASER	£159.00	£186.83
LABR002	HL1040 LASER	£215.00	£252.63
LABR003	HL1050 4MB LASER	£239.00	£280.83
8R05830512	HL1050 8MB LASER	£255.00	£299.63
LABR004	HL1070 4MB LASER	£299.00	£351.33
8R05830513	HL1070 8MB LASER	£315.00	£370.13

HL-1040  
 The flexible high quality entry level laser printer for all your printing needs

- Up to 10ppm
- Windows & direct DOS printing
- 600dpi print resolution
- 2Mb Standard memory
- 200 sheet paper input
- Semi-automatic double-sided printing
- Intelligent sleep mode
- C4 envelope printing
- Auto e-mail printing\*
- Network connectivity option
- Low running costs
- Easy change consumables



FREE DELIVERY ON THIS PRINTER

LABR002  
**£215.00**  
£252.63

\*win95/POP 3 required

HL-1070  
 The high performance dual bin laser printer combining high speed output with advanced paper handling

- Up to 10ppm
- Dual bin as standard
- 1200dpi class print resolution
- 4Mb Standard memory - exp to 36Mb
- PCL6 emulation
- PostScript level2 language emulation standard
- Semi-automatic double-sided printing
- Intelligent sleep mode
- Multiple emulations
- Auto e-mail printing\*
- Network connectivity option
- Low running costs
- USB interface\*\*



FREE DELIVERY ON THIS PRINTER

LABR004  
**£299.00**  
£351.33

\*win95/POP 3 required

\*\*win98 only

**MINOLTA** PagePro 8

The Minolta PagePro 8 is equipped with PCL6 for ease of use, performance and quality. It can handle a variety of media and formats - ideal for SOHO use. Its new fan-less operation ensures an undisturbed working environment.



MLTB810144  
**£327.00**  
£384.23

FREE DELIVERY ON THIS PRINTER

MINOLTA - FREE DELIVERY ON ALL PRINTERS

PR-M1	PAGEPRO 6L	£179.00	£210.33
PR-M2	PAGEPRO 6	£225.00	£264.38
PR-M4	PAGEPRO 12	£363.00	£461.53
PR-M5	PAGEPRO 20	£278.00	£355.14
PR-M6	COLOR PAGEPRO	£1662.00	£1952.85
MLTB810143	PAGEPRO 8L	£209.00	£245.58
MLTB810144	PAGEPRO 8	£248.00	£291.40
MLTB810145	PAGEPRO 8e	£327.00	£384.23

**KYOCERA**

FS-600  
 True 6ppm speed from this robust, low cost printer that's ideal as a personal or shared printer, offering low cost modular upgrade options and a low cost per printed page.

KYOCERA - FREE DELIVERY ON ALL PRINTERS

PR-K30	Kyocera FS-600L	£239.00	£280.83
LAKY001	Kyocera FS-800	£415.00	£487.63
PR-K50	Kyocera FS-1700+	£679.00	£800.45
PR-K25	Kyocera FS-3700	£679.00	£797.83
PR-K36	Kyocera FS-7000	£1779.00	£2090.33



FREE DELIVERY ON THIS PRINTER

PR-K30 FS-600  
**£239.00**  
£280.83

**PRINT LEXMARK**



FREE DELIVERY ON THESE PRINTERS

LEXMARK - FREE DELIVERY ON ALL PRINTERS

INLX005	Colour Jetprinter 1100	£75.00	£88.11
PR401	Colour Jetprinter 2050	£175.00	£205.63
INLX006	Colour Jetprinter 3200	£172.00	£191.60
PR-L14	Colour Jetprinter 5000	£135.00	£158.63
PR-L16	Colour Jetprinter 5700	£157.00	£184.48
PR-L13	Colour Jetprinter 7200	£195.00	£229.13
PR-L5	Optra E+	£229.00	£269.00
PR-L9	Optra ES	£319.00	£374.83
LEX4511017	2380	£269.00	£316.08
LEX4511018	2381	£329.00	£386.58
LEX4511019	2390	£269.00	£316.08
LEX4511020	2391	£329.00	£386.58
INLX004	OPTRA 40	£281.00	£330.18
INLX005	OPTRA 40N	£435.00	£511.13

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# SCANNERS

## UMAX

### ASTRA 1220U



Sizzling performance from this fantastically priced entry level desktop scanner.

- Affordable, professional quality scanning
- 36bit colour scanning
- 600 x 900 dpi
- Single pass colour CCD

UMX1220U ASTRA 1220U  
**£109.00** £128.00

### ASTRA 610P

The Astra 610 series was created for those looking for an easy, affordable way to put the sizzle into everyday documents.

- Affordable, professional quality scanning with parallel interface
- 30bit colour scanning
- 300 x 600 dpi
- Single pass colour CCD
- FREE bundled software PhotoDeluxe, Presto!, PageManager, VistaScan, & OmniPage Direct

SC100-U ASTRA 610S £89.00 £104.58

#### UMAX

SC105-U	ASTRA 610P FLATBED	£59.00	£69.33
SC100-U	ASTRA 610S FLATBED	£89.00	£104.58
UMX1220P	ASTRA 1220P FLATBED	£99.00	£116.33
SC122-U	ASTRA 1220S FLATBED	£125.00	£146.88
UMX1220U	ASTRA 1220U FLATBED	£109.00	£128.08
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SC105-U 610P  
**£59.00** £69.33

**STAR BUY!**



### ASTRA 1220S

The Astra 1220 desktop scanner was created for those looking for an easy, affordable way to obtain professional quality scans at a very competitive price.

- Affordable, professional quality scanning
- 36bit colour scanning
- 600 x 1200 dpi
- Max Res. 9600 x 9600
- FREE bundled software PhotoDeluxe & PageManager



SC122U ASTRA 1220S  
**£125.00** £146.88

## HP HEWLETT PACKARD

### HP ScanJet 5100c

The HP ScanJet 5100C color scanner has the power to make home and office productivity skyrocket. Plus, breakthrough HP technologies act as a built-in expert for great results the first time - and every time you scan.



SC5100 SCANJET 5100C  
**£144.00** £159.20

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SC157	PHOTOSMART SCANNER	£323.00	£379.53

### CASHBACK OFFER

Purchase certain Visioneer Scanners from Insight and receive either a £15 or £30 CashBack Voucher which Visioneer will redeem for a full £30 within 7 days of your purchase! (amounts stated on price box) offer ends 31.10.98

### PAPERPORT. OneTouch Scanner

The high-resolution scanner with OneTouch access to faxing, copying & Visioneer's award winning software.

With the ability to scan at a 600 x 1200 resolution that recognises over 68 billion colours Visioneer's OneTouch is so simple to operate with its 5 convenient buttons for scanning, copying or faxing directly into Visioneer's award winning PaperPort software.

SC1000 ONETOUCH AFTER £15 CASHBACK  
**£134.00** £157.45



### PAPERPORT. 3100

Superb value for money from this 300 x 600 dpi, 30bit scanner.



SC-V35 AFTER £15 CASHBACK  
**£52.00** £76.38

**STAR BUY**

### PAPERPORT. 6000a

Excellent performance with unmatched ease of use.

- Affordable, professional quality scanning
- 30bit colour scanning
- 600 x 1200 dpi
- Single pass colour CCD
- FREE bundled software PaperPort, Web Publishing Kit Xerox TextBridge, Corel CardScan PictureWorks PhotoEnhancer™, Quicken Expensible SE, Connectix QuickCards™ LE

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## EPSON EPSON GT 7000

The GT-7000 combines amazing quality with powerful, easy to use software and hardware at an extremely affordable price.

EP7000 GT 7000  
**£147.00** £172.73

## EPSON GT 5500

The GT-5500 is the highest quality scanner in its class and is ideal for in-house business requirements or for home users who simply need to add visual images to their work.

SC146 GTX 5500  
**£125.00** £146.88

EP7000	GT-7000	£147.00	£172.73
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- High quality 600x2400dpi optical resolution (with EPSON MicroStepDrive)
- Can distinguish 68 billion different colours (36 bit)
- Start button for easy ultra fast One touch scanning - a leader in its class
- Optional film adapter and ADF
- For Win95/98 NT3.51 or later or MAC



- Up to 3200 dpi output resolution - 400 dpi optical resolution
- High speed connectivity - built-in SCSI interface as standard
- 30 bit colour sampling - supporting over 1 billion colours

## Nikon COOLSCAN III

35mm film scanner.

- DIGITAL ICE - removes imperfections on the surface of the film
- RESOLUTION - 2700dpi
- COLOUR DEPTH - 30Bit
- COLOUR MATCHING LIBRARY
- OPTIONAL - APS film adapter



SCN1005 COOLSCAN III  
**£509.00** £598.08

#### NIKON COOLSCAN III

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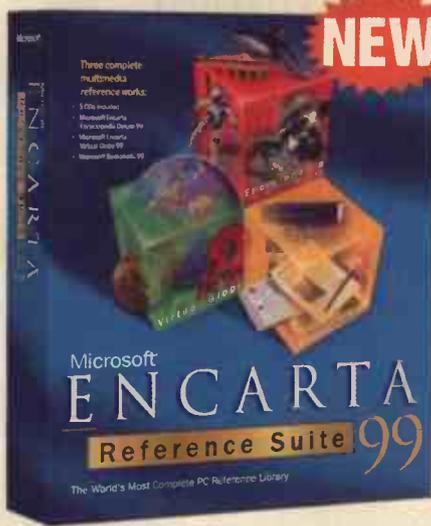


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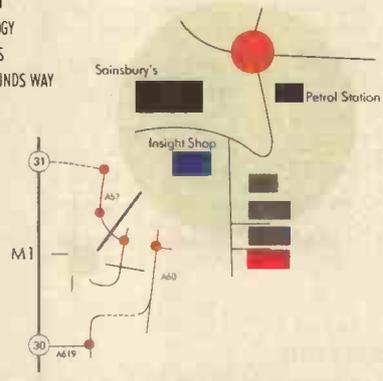
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300MHz G3 (MT)	64MB	8.0GB	Y	CPU1223 £1589 (£1867.08)
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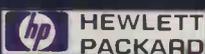
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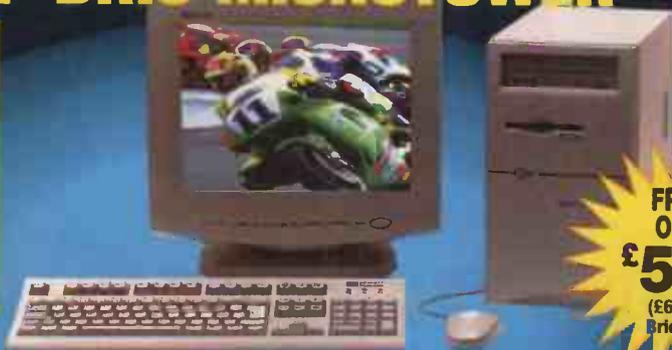
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## The Complete Desktop PC Guide

Model name	Speed	RAM	HDD	CD-ROM	Case	O/S	Network card	SKU	Price	Inc. VAT	Model name	Speed	RAM	HDD	CD-ROM	Case	O/S	Network card	SKU	Price	Inc. VAT										
<b>COMPAQ</b>											<b>IBM</b>																				
Deskpro EP M4300	C 300MHz	32MB	4.3GB	D	95	N		CP9420	£579.00	£580.33	Brio Performance	PI 350MHz/17	64MB	8GB	32X	M	98	N	NEW	£899.00	£1,056.33	PC 300GL	C 333MHz	32MB	3.2GB	D	98	N	CP9244	£555.00	£552.13
Deskpro EN SFF M3200	C 300MHz	32MB	3.2GB	D	95	N		CP9445	£639.00	£750.83	Brio Power	PI 450MHz/17/56K	64MB	8GB	32X	M	98	N	NEW	£1,199.00	£1,408.33	PC 300GL	C 333MHz	32MB	3.2GB	M	98	N	CP9280	£569.00	£668.58
Deskpro EN M3200	C 300MHz	32MB	3.2GB	D	95	N		CP9436	£645.00	£757.88	<b>IBM</b>																				
Deskpro EP M6400	C 300MHz	64MB	6.4GB	32X	D	95	N	CP9422	£645.00	£757.88	PC 300GL	C 333MHz	64MB	3.2GB	32X	D	98	N	CP9247	£669.00	£786.08										
Deskpro EP M4300	C 333MHz	32MB	4.3GB	D	95	N		CP9424	£575.00	£675.83	PC 300GL	C 333MHz	64MB	3.2GB	32X	D	98	N	CP9280	£669.00	£786.08										
Deskpro EN SFF M3200	C 333MHz	32MB	3.2GB	D	95	N		CP9447	£669.00	£786.08	PC 300GL	PI 350MHz	32MB	3.2GB	D	98	N	CP9250	£665.00	£781.38											
Deskpro EN M3200	C 333MHz	32MB	3.2GB	D	95	N		CP9439	£675.00	£793.13	PC 300GL	PI 350MHz	64MB	3.2GB	D	98	N	CP9242	£709.00	£833.08											
Deskpro EP M6400	C 333MHz	64MB	6.4GB	32X	D	95	N	CP9426	£679.00	£797.83	PC 300GL	PI 350MHz	32MB	3.2GB	D	95	N	CP9499	£899.00	£1,056.33											
Deskpro EP M4300	PI 350MHz	64MB	4.3GB	D	NT4	N		CP9429	£785.00	£922.38	PC 300PL	PI 350MHz	32MB	4.2GB	D	95	Y	CP7369	£929.00	£1,091.58											
Deskpro EN 6350	PI 350MHz	32MB	6.4GB	24X	D	95	Y	CP8107	£835.00	£981.13	PC 300PL	PI 350MHz	32MB	4.5GB	D	98	Y	CP9234	£1,069.00	£1,256.08											
Deskpro EP M4300	PI 350MHz	64MB	4.3GB	D	95	N		CP9428	£859.00	£1,009.33	PC 300PL	PI 350MHz	64MB	4.5GB	D	98	Y	CP9235	£1,119.00	£1,314.83											
Deskpro EN SFF 6350	PI 350MHz	32MB	6.4GB	D	95	Y		CP8976	£879.00	£1,032.83	PC 300PL	PI 350MHz	64MB	6.4GB	D	NT4	Y	CP9236	£1,215.00	£1,427.63											
Deskpro EP M10G	PI 350MHz	64MB	10.0GB	32X	D	95	N	CP9430	£879.00	£1,032.83	PC 300PL	PI 350MHz	64MB	6.4GB	32X	M	98	Y	CP9241	£1,265.00	£1,486.38										
Deskpro EN 6350	PI 350MHz	32MB	6.4GB	24X	D	NT4	Y	CP8108	£879.00	£1,032.83	PC 300GL	PI 400MHz	32MB	3.2GB	D	98	N	CP9245	£969.00	£1,138.58											
Deskpro EP M10G	PI 350MHz	64MB	10.0GB	32X	D	NT4	N	CP9431	£929.00	£1,091.58	PC 300PL	PI 400MHz	32MB	4.2GB	D	95	Y	CP7371	£1,025.00	£1,204.38											
Deskpro EN SFF 6350	PI 350MHz	32MB	6.4GB	24X	D	95	Y	CP8877	£939.00	£1,103.33	PC 300PL	PI 400MHz	64MB	3.2GB	32X	D	98	N	CP9249	£1,055.00	£1,239.63										
Deskpro EP S8 6350	PI 350MHz	64MB	3.2GB	24X	D	95	N	CP8985	£1,165.00	£1,368.88	PC 300GL	PI 400MHz	64MB	6.4GB	D	98	N	CP9252	£1,065.00	£1,251.38											
Deskpro EN 6350/CD	PI 350MHz	32MB	4.3GB	24X	D	NT4	Y	CP8104	£1,189.00	£1,397.08	PC 300PL	PI 400MHz	32MB	4.5GB	D	98	Y	CP9237	£1,135.00	£1,333.63											
Deskpro EP M10G	PI 400MHz	64MB	10.0GB	32X	D	NT4	N	CP9433	£1,075.00	£1,263.13	PC 300PL	PI 400MHz	64MB	6.4GB	32X	M	98	Y	CP7375	£1,249.00	£1,467.58										
Deskpro EN 6400/CD	PI 400MHz	64MB	6.4GB	24X	D	95	Y	CP8085	£1,079.00	£1,267.83	PC 300GL	PI 450MHz	64MB	6.4GB	D	98	N	CP9253	£1,219.00	£1,432.33											
Deskpro EN SFF 6400	PI 400MHz	32MB	6.4GB	24X	D	95	Y	CP8979	£1,085.00	£1,274.88	PC 300PL	PI 450MHz	64MB	6.4GB	D	98	Y	CP9239	£1,415.00	£1,662.63											
Deskpro EP M10G	PI 400MHz	64MB	10.0GB	32X	D	95	N	CP9432	£1,145.00	£1,345.38	<b>TOSHIBA</b>																				
Deskpro EN SFF 6400	PI 400MHz	64MB	6.4GB	24X	D	NT4	Y	CP8980	£1,159.00	£1,361.83	Equium 3000	C 300MHz	32MB	3.2GB	32X	M	95/98	N	CP9800	£559.00	£656.83										
Deskpro EN 6400/CD	PI 400MHz	64MB	6.4GB	24X	D	NT4	Y	CP8684	£1,259.00	£1,479.33	Equium 3000	C 333MHz	32MB	3.2GB	32X	M	95/98	N	CP9800	£605.00	£710.88										
Deskpro EN 6400/CD	PI 400MHz	64MB	4.3GB	24X	D	NT4	Y	CP8105	£1,309.00	£1,538.08	Equium 7100S	PI 350MHz	64MB	4.3GB	32X	D	95	N	CP8677	£785.00	£922.38										
Deskpro EN M6400	PI 450MHz	64MB	6.4GB	32X	D	95	N	CP9442	£1,249.00	£1,467.58	Equium 7100D	PI 350MHz	64MB	4.3GB	32X	D	95	N	CP8685	£829.00	£974.08										
Deskpro EP M10G	PI 450MHz	128MB	10.0GB	32X	D	95	N	CP9434	£1,259.00	£1,479.33	Equium 7100S	PI 400MHz	64MB	4.3GB	32X	D	NT4	N	CP8678	£835.00	£981.13										
Deskpro EN M6400	PI 450MHz	64MB	6.4GB	32X	D	NT4	N	CP9443	£1,295.00	£1,521.63	Equium 7100D	PI 350MHz	64MB	4.3GB	32X	D	NT4	N	CP8686	£879.00	£1,032.83										
Deskpro EN SFF M6400	PI 450MHz	64MB	6.4GB	24X	D	95	N	CP9450	£1,299.00	£1,526.33	Equium 7100S	PI 400MHz	64MB	4.3GB	32X	D	95	N	CP8679	£929.00	£1,091.58										
Deskpro EP M10G	PI 450MHz	128MB	10.0GB	32X	D	NT4	N	CP9435	£1,305.00	£1,533.38	Equium 7100D	PI 400MHz	64MB	4.3GB	32X	D	95	N	CP8688	£969.00	£1,138.58										
Deskpro EN SFF M6400	PI 450MHz	64MB	6.4GB	24X	D	NT4	N	CP9452	£1,345.00	£1,580.38	Equium 7100S	PI 400MHz	64MB	4.3GB	32X	D	NT4	N	CP8680	£979.00	£1,150.33										
Deskpro EN M9100	PI 450MHz	64MB	9.1GB	32X	D	NT4	N	CP9444	£1,649.00	£1,937.58	Equium 7100D	PI 400MHz	64MB	4.3GB	32X	D	NT4	N	CP8687	£1,019.00	£1,197.33										
<b>HEWLETT PACKARD</b>																															
Brio Value	C 300MHz/15	32MB	4.3GB	32X	M	98	N	NEW	£589.00	£692.08																					
Brio Corporate	C 333MHz/17	64MB	8GB	32X	M	98	N	NEW	£799.00	£938.83																					



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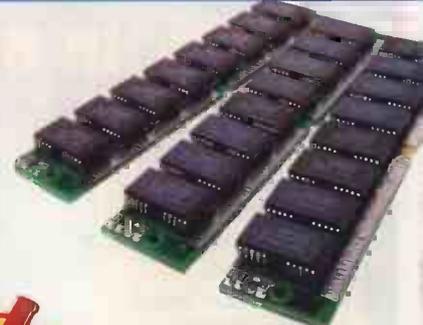
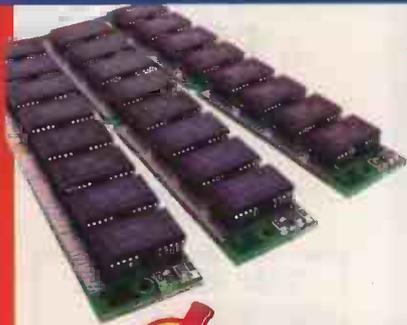
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RAM	Speed	Layout	Order No.	New Sell	Inc. VAT
8MB	60ns	2 x 32	EURMY1332	£7.50	(£8.81)
16MB	60ns	4 x 32	EURMY1555	£19.95	(£23.44)
32MB	60ns	8 x 32	EURMY1643	£49.95	(£58.69)
64MB	60ns	16 x 32	MY6995	£99.00	(£116.33)

### 72-pin FPM Non-Parity SIMMs

RAM	Speed	Layout	Order No.	New Sell	Inc. VAT
8MB	70ns	2 x 32	EURMY1249	£15.00	£17.63
8MB	60ns	2 x 32	EURMY1250	£15.00	£17.63
16MB	70ns	4 x 32	EURMY1252	£26.95	£31.67
16MB	60ns	4 x 32	EURMY1253	£26.95	£31.67
32MB	70ns	8 x 32	EURMY1254	£45.95	£53.99
32MB	60ns	8 x 32	EURMY1293	£45.95	£53.99
64MB	70ns	16 x 32	MY11306	£146.95	£172.67
64MB	60ns	16 x 32	MY11305	£146.95	£172.67

### 168-pin 100MHz (PC100) SDRAM DIMMs

RAM	Speed	Layout	Order No.	New Sell	Inc. VAT
32MB	8ns	4 x 64	MY9369	£ 33.95	£39.89
64MB	8ns	8 x 64	MY9370	£ 69.95	£82.19
128MB	8ns	16 x 64	MY9371	£145.95	£171.49
256MB	8ns	32 x 64	MY9301	£429.00	£504.08

### 168-pin 66MHz SDRAM DIMMs

RAM	Speed	Layout	Order No.	New Sell	Inc. VAT
16MB	10ns	2 x 64	MY6590	£ 17.95	£21.09
32MB	10ns	4 x 64	MY6589	£ 31.95	£37.54
64MB	10ns	8 x 64	MY7504	£ 69.95	£82.19
128MB	10ns	16 x 64	MY8004	£139.00	£163.33

### ACER - NOTEBOOKS

Order No.	Model	Size	Quantity	Price	Inc. VAT
MY6361	AcerNote Lite Nouvo, 350ec, 370, 970	16MB	1	£17.95	£21.09
MY7606	AcerNote Lite Nouvo, 350ec, 370, 970	32MB	1	£37.95	£44.59
MY6361	Extensa 355, 390, 395, 600, 605, 610,	16MB	1	£17.95	£21.09
MY7606	Extensa 355, 390, 395, 600, 605, 610,	32MB	1	£37.95	£44.59
MY6361	TravelMate 6020, 6030, 6050	16MB	1	£17.95	£21.09
MY7606	TravelMate 6020, 6030, 6050	32MB	1	£37.95	£44.59

### AST-Notebooks

Order No.	Model	Size	Quantity	Price	Inc. VAT
EURMY1677	Ascentia J Series	8MB	2	£10.95	£12.87
EURMY1676	Ascentia J Series	16MB	2	£18.95	£22.27
EURMY1673	Ascentia J Series	32MB	2	£33.95	£39.89
MY7018	Ascentia A & M Series	8MB	1	£11.95	£14.04
MY6361	Ascentia A & M Series	16MB	1	£17.95	£21.09
MY7606	Ascentia A & M Series	32MB	1	£37.95	£44.59
MY7633	Ascentia A & M Series	64MB	1	£66.95	£78.67

### COMPAQ - NOTEBOOKS

Order No.	Model	Size	Quantity	Price	Inc. VAT
MY6361	Armada 1500 Series, 7300 Series	16MB	1	£17.95	£21.09
MY7606	Armada 1500 Series, 7300 Series	32MB	1	£37.95	£44.59
MY7633	Armada 1500 Series, 7300 Series	64MB	1	£66.95	£78.67
MY6361	Armada 7700 Series	16MB	1	£17.95	£21.09
MY7606	Armada 7700 Series	32MB	1	£37.95	£44.59
MY7633	Armada 7700 Series	64MB	1	£66.95	£78.67
MY6369	Armada 4110, 4110D	16MB	1	£26.95	£31.67
MY6371	Armada 4110, 4110D	32MB	1	£49.95	£58.69
MY6369	Armada 4120, 4120T, 4125D	16MB	1	£26.95	£31.67
MY6371	Armada 4120, 4120T, 4125D	32MB	1	£49.95	£58.69

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## COMPAQ - DESKTOPS/SERVERS

Order No.	Model	Size	Quantity	Price	Inc. VAT
MY6590	DeskPro 2000/4000 166, 200	16MB	1	£17.95	£21.09
MY6589	DeskPro 2000/4000 166, 200	32MB	1	£31.95	£37.54
MY7504	DeskPro 2000/4000 166, 200	64MB	1	£69.95	£82.19
MY6590	DeskPro 2000/4000 233 (Pentium w/ MMX)	16MB	1	£17.95	£21.09
MY6589	DeskPro 2000/4000 233 (Pentium w/ MMX)	32MB	1	£31.95	£37.54
MY7504	DeskPro 2000/4000 233 (Pentium w/ MMX)	64MB	1	£69.95	£82.19
MY9289	DeskPro 6000 Pentium II w/MMX	64MB	1	£85.95	£100.99
EURMY1555	Deskpro EN/EP 6266, 6300, 6333	16MB	2	£19.95	£23.44
EURMY1643	Deskpro EN/EP 6266, 6300, 6333	32MB	2	£49.95	£58.69
MY9369	Deskpro EN/EP 6350, 6400	32MB	1	£33.95	£39.89
MY9370	Deskpro EN/EP 6350, 6400	64MB	1	£69.95	£82.19
MY9899	Proliant 1200, 1600, 3000, 5500	32MB	2	£79.95	£93.94
MY9969	Proliant 1200, 1600, 3000, 5500	64MB	2	£94.95	£115.57
EURMY1555	Prolinea 2000/ML 5133, 5150, 5166	16MB	2	£19.95	£23.44
EURMY1643	Prolinea 2000/ML 5133, 5150, 5166	32MB	2	£49.95	£58.69

## DELL - DESKTOPS/SERVERS

Order No.	Model	Size	Quantity	Price	Inc. VAT
EURMY1252	Dimension 4**V, Performance 425s/L/M	16MB	1	£26.95	£31.67
MY6590	Dimension XPS 166s, 200s	16MB	1	£17.95	£21.09
MY6589	Dimension XPS 166s, 200s	32MB	1	£31.95	£37.54
MY6590	Dimension XPS M166s, M200s	16MB	1	£17.95	£21.09
MY6589	Dimension XPS M166s, M200s	32MB	1	£31.95	£37.54
MY6590	Dimension XPS P133s, P166s, P200s	16MB	1	£17.95	£21.09
MY6589	Dimension XPS P133s, P166s, P200s	32MB	1	£31.95	£37.54
EURMY1252	Dimension XPS 450, 466, 4100	16MB	1	£26.95	£31.67

## HP - DESKTOPS/SERVERS

Order No.	Model	Size	Quantity	Price	Inc. VAT
MY6590	Kayak XA Series	16MB	1	£17.95	£21.09
MY6589	Kayak XA Series	32MB	1	£31.95	£37.54
MY7504	Kayak XA Series	64MB	1	£69.95	£82.19
MY9289	Kayak XU and XW Series	64MB	1	£85.95	£100.99
MY7507	NetServer LH Pro 6/200, 6/200 SMP	16MB	1	£29.9	£35.19
MY7044	NetServer LH Pro 6/200, 6/200 SMP	32MB	1	£55.95	£65.74
MY7506	NetServer LH Pro 6/200, 6/200 SMP	64MB	1	£91.95	£108.04
EURMY1252	Vectra VE 5/75, 5/90, Vectra VL2 5/60	16MB	1	£26.95	£31.67
EURMY1252	Vectra XM Series 3 Pentium	16MB	1	£26.95	£31.67
EURMY1238	Vectra XP/60, Vectra XU 5/90, 5/90C (GX)	16MB	1	£34.95	£41.07
MY7464	Vectra XP/60, Vectra XU 5/90, 5/90C (GX)	32MB	1	£67.95	£79.84
EURMY1555	Brio 266, 300, 333	32MB	1	£19.95	£23.44
EURMY1643	Brio 266, 300, 333	64MB	1	£49.95	£58.69
MY9369	Brio 350, 400, 450	32MB	1	£33.95	£39.89
MY9370	Brio 350, 400, 450	64MB	1	£69.95	£82.19
MY6589	Vectra VE 266, 300, 333	32MB	1	£31.95	£37.54
MY7504	Vectra VE 266, 300, 333	64MB	1	£69.95	£82.19
MY9369	Vectra VE 350, 400, 450	32MB	1	£33.95	£39.89
MY9370	Vectra VE 350, 400, 450	64MB	1	£69.95	£82.19
MY6589	Vectra VL 266, 300, 333	32MB	1	£31.95	£37.54
MY7504	Vectra VL 266, 300, 333	64MB	1	£69.95	£82.19
MY9369	Vectra VL 350, 400, 45	32MB	1	£33.95	£39.89
MY9370	Vectra VL 350, 400, 450	64MB	1	£69.95	£82.19

## SIEMENS NIXDORF - NOTEBOOKS

Order No.	Model	Size	Quantity	Price	Inc. VAT
MY6361	Scenic Mobile 510, 710	16MB	1	£17.95	£21.09
MY7606	Scenic Mobile 510, 710	32MB	1	£37.95	£44.59
MY7633	Scenic Mobile 510, 710	64MB	1	£66.95	£78.67

## SIEMENS NIXDORF - DESKTOPS

Order No.	Model	Size	Quantity	Price	Inc. VAT
MY7044	Scenic D6 Pentium Pro 200, 266	32MB	1	£55.95	£65.74
MY7506	Scenic D6 Pentium Pro 200, 266	64MB	1	£91.95	£108.04

## IBM - DESKTOPS

Order No.	Model	Size	Quantity	Price	Inc. VAT
MY6589	PC 300GL 266, 300, 333	32MB	1	£31.95	£37.54
MY7504	PC 300GL 266, 300, 333	64MB	1	£69.95	£82.19
MY9369	PC 300GL 350, 400, 450	32MB	1	£33.95	£39.89
MY9370	PC 300GL 350, 400, 450	64MB	1	£69.95	£82.19
MY6589	PC 300PL 266, 300, 333	32MB	1	£31.95	£37.54
MY7504	PC 300PL 266, 300, 333	64MB	1	£69.95	£82.19
MY9369	PC 300PL 350, 400, 450	32MB	1	£33.95	£39.89
MY9370	PC 300PL 350, 400, 450	64MB	1	£69.95	£82.19

## IBM - NOTEBOOKS

Order No.	Model	Size	Quantity	Price	Inc. VAT
MY6361	ThinkPad 365 X Models(X & XD)	16MB	1	£17.95	£21.09
MY7606	ThinkPad 365 X Models(X & XD)	32MB	1	£37.95	£44.59
MY6361	ThinkPad 380/D, 385	16MB	1	£17.95	£21.09
MY7606	ThinkPad 380/D, 385	32MB	1	£37.95	£44.59
EURMY0868	ThinkPad 365C/CS/CD/CSD; 365E/ED	16MB	1	£33.95	£39.89
MY6361	ThinkPad 560E, ThinkPad 760 E/EL/ELD	16MB	1	£17.95	£21.09
MY7606	ThinkPad 560E, ThinkPad 760 E/EL/ELD	32MB	1	£37.95	£44.59
MY6361	ThinkPad 760XD, 760XL, 765D, 765L	16MB	1	£17.95	£21.09
MY7606	ThinkPad 760XD, 760XL, 765D, 765L	32MB	1	£37.95	£44.59
MY10749	Thinkpad 770	32MB	1	£54.95	£64.57
MY8895	Thinkpad 770	64MB	1	£109.95	£129.19
MY10749	Thinkpad 600	32MB	1	£54.95	£64.57
MY8895	Thinkpad 600	64MB	1	£109.95	£129.19
MY7606	Thinkpad 380	32MB	1	£37.95	£44.59
MY7633	Thinkpad 380	64MB	1	£66.95	£78.67

## DIGITAL - NOTEBOOKS

Order No.	Model	Size	Quantity	Price	Inc. VAT
EURMY0868	HiNote Ultra/ Ultra II	16MB	1	£33.95	£39.89
MY10749	HiNote VP 703, 710, 715	32MB	1	£54.95	£64.57
MY8895	HiNote VP 703, 710, 715	64MB	1	£109.95	£129.19
MY10749	HiNote VP 717, 725, 735, 745	32MB	1	£54.95	£64.57
MY8895	HiNote VP 717, 725, 735, 745	64MB	1	£109.95	£129.19

## TOSHIBA - NOTEBOOKS

Order No.	Model	Size	Quantity	Price	Inc. VAT
EURMY1308	Satellite 100/110/200/210	16MB	1	£58.95	£69.27
EURMY1462	Satellite 100/110/200/210	32MB	1	£98.95	£116.27
MY6556	Satellite 100/110/200/210	64MB	1	£138.95	£163.27
EURMY1308	Satellite 400/410/420/430	16MB	1	£58.95	£69.27
EURMY1462	Satellite 400/410/420/430	32MB	1	£98.95	£116.27
MY6556	Satellite 400/410/420/430	64MB	1	£138.95	£163.27
MY9274	Portege 650CT, 660CDT	16MB	1	£48.95	£57.52
MY9275	Portege 650CT, 660CDT	32MB	1	£69.95	£82.19
MY6876	Portege 650CT, 660CDT	64MB	1	£132.95	£156.22
MY9274	Satellite 445CDT/CDX	16MB	1	£48.95	£57.52
MY9275	Satellite 445CDT/CDX	32MB	1	£69.95	£82.19
MY6875	Satellite 445CDT/CDX	48MB	1	£134.95	£158.57
MY6876	Satellite 445CDT/CDX	64MB	1	£132.95	£156.22
MY9274	Satellite 460CDT/440CDT/CDX	16MB	1	£48.95	£57.52
MY9275	Satellite 460CDT/440CDT/CDX	32MB	1	£69.95	£82.19
MY6875	Satellite 460CDT/440CDT/CDX	48MB	1	£134.95	£158.57
MY6876	Satellite 460CDT/440CDT/CDX	64MB	1	£132.95	£156.22
MY9274	Tecra 520CDT, 530CDT, 750CDT	16MB	1	£48.95	£57.52
MY9275	Tecra 520CDT, 530CDT, 750CDT	32MB	1	£69.95	£82.19
MY6875	Tecra 520CDT, 530CDT, 750CDT	48MB	1	£134.95	£158.57
MY6876	Tecra 520CDT, 530CDT, 750CDT	64MB	1	£132.95	£156.22
EURMY1308	Tecra 710CDT/720CDT/730/740CDT	16MB	1	£58.95	£69.27
EURMY1462	Tecra 710CDT/720CDT/730/740CDT	32MB	1	£98.95	£116.27
MY6556	Tecra 710CDT/720CDT/730/740CDT	64MB	1	£138.95	£163.27

\* See page 32 for Terms &amp; Conditions

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## HP Laser Printers as Low as £232 (€272.60)

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\*On selected printers

#### HP LASERJET 4000

From Only **£711** (€835.43)



HP's most advanced printer for business

- 16ppm
- ProRes 1200 for quality graphics

BN5586	HP LaserJet 4000	£711	€835.43
PR12878	HP LaserJet 4000T	£787	€924.73
BN5585	HP LaserJet 4000N	£914	€1073.95
BN5587	HP LaserJet 4000TN	£990	€1163.25

Ask for item # BN5586.

#### HP LASERJET 6P

From Only **£461** (€541.68)



Professional Quality

- 8ppm
- 600 x 600 dpi

BN5588	HP LaserJet 6P	£461	€541.68
INP0975	HP LaserJet 6MP (Mac/PC)	£562	€660.25
PR12232	HP Laser Jet Companion	£79	€92.82

Ask for item # BN5588.

#### HP LASERJET 8100

Only **£1687** (€1982.23)



Versatile departmental printing solutions

- Up to 32ppm, first page out in 17 secs
- HP FastRes 1200
- Duty cycle: up to 150,000 per month

PR14282	HP LaserJet 8100	£1687	€1982.23
PR14233	HP LaserJet 8100N	£1875	€2203.13
PR14227	HP LaserJet 8100DN	£2145	€2520.38

Ask for item # PR14282

#### HP COLOUR LASERJET 8500

Only **£3862** (€4537.85)



Great Colour Out of the Box

- Up to 24ppm black A4, 12ppm A3
- Up to 6ppm colour A4, 3ppm A3
- 600 x 600 dpi, Image Ret 2400

PR14276	HP LaserJet 8500	£3862	€4537.85
PR14275	HP LaserJet 8500N	£4425	€5199.38
PR14273	HP LaserJet 8500DN	£5242	€6159.35

Ask for item # PR14276.



## NEW LaserJet Printers from Hewlett Packard

### HP LaserJet 1100 Printer HP LaserJet 1100A Printer . Copier . Scanner

HP LaserJet efficiency at your desk

The personal HP LaserJet 1100 Printer and HP LaserJet 1100A Printer.Copier.Scanner provide you with high-performance print function for all your office printing needs. For even more efficiency, the HP

LASERJET 1100A ONLY  
**£285** (€334.88)  
Item # PR14157



LaserJet 1100A Printer.Copier.Scanner integrates copy and scan functions for state-of-the-art management and communication of business documents

- Printing (HP LaserJet 1100 & 1100A)
- 8ppm, first page out in 18 seconds
- 600 x 600 dpi plus Ret
- Copying & Scanning (HP LaserJet 1100A only)
- Copy speed up to 8ppm
- Scanner resolution 600 dpi (300 dpi optical)

PR14158	HP LaserJet 1100 Printer	£232.00	€272.60
PR14157	HP LaserJet 1100A Printer . Copier . Scanner	£285.00	€334.88
553093	HP Support Pack	£105	€123.38

#### HP LASERJET 5000

- 16ppm print speed
- 100MHz RISC processor
- True 600x1200dpi FastRes (600x2400)
- 110 scalable TrueType Postscript Level II compatible Typefaces

BN5592	HP LaserJet 5000	£929	€1091.58
BN5593	HP LaserJet 5000N	£1334	€1567.45
BN5594	HP LaserJet 5000GN	£1649	€1937.58
207471	HP Support Pack	£235	€276.13

Only **£929** (€1091.58)  
Item # BN5592



#### HP COLOUR LASERJET 4500

Affordable Colour LaserJet printer for the corporate workgroup

- Up to 16ppm black, 4ppm colour
- 600 x 600 dpi, Image Ret 2400
- 110 scalable TrueType fonts
- MET for colour PCL and HP Postscript

As low as **£1597** (€1876.48)  
Item # PR14280



PR14280	HP LaserJet 4500	£1597	€1876.48
PR14168	HP LaserJet 4500N	£1875	€2203.13
PR14162	HP LaserJet 4500DN	£2422	€2845.85

Ask for item # PR14280.

#### HP LASERJET 8000

- 24 pages per minute print speed and 133 MHz processor
- RIP once technology that reduces print job processing time
- FastRes 1200 that allows 1200 dpi quality

PR13444	HP LaserJet 8000	£1574	€1849.45
PR13445	HP LaserJet 8000N	£1762	€2070.35
PR13447	HP LaserJet 8000DN	£2062	€2422.85

Only **£1574** (€1849.45)  
Item # PR13444



#### HP LASERJET 3100

Printer . Fax . Copier . Scanner

- 600 dpi output
- 6pp print, copy, scan, 6 seconds per page fax

PR13320	HP LaserJet 3100	£471.00	€553.43
C3906A	Black Toner Cart	£33.95	€39.89
EURWR112	SupportPack	£118.00	€138.65

Only **£471** (€553.43)  
Item # PR13320



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**AMAZING NEW INKJETS FROM EPSON**

**EPSON Stylus Color 440**

**ONLY £103**  
(£121.03)  
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Setting the standard for entry-level colour printing

**EPSON Stylus Color 640**

A perfect combination of price and performance

**ONLY £133**  
(£156.28)  
Item # PR13911

State-of-the-Art Colour Inkjet Printer for advanced Home and Business Users

**EPSON Stylus Color 740**

**ONLY £177**  
(£207.98)  
# PR13909

FREE Colour Starter Kit with every Epson Stylus Printer! Call For Details\*  
\*while stocks last

PR13909	EPSON Stylus Color 740	£177.00	(£207.98)
PR13912	EPSON Stylus Color 440	£103.00	(£121.03)
PR13911	EPSON Stylus Color 640	£133.00	(£156.28)



**DOT MATRIX PRINTERS FROM AS LOW AS £97 (£113.98)**

**EPSON PRINTERS**

201457	EPSON DOT MATRIX LX-300	£97.00	£113.98
234460	EPSON DOT MATRIX LQ-300	£115.00	£135.13
96595	EPSON DOT MATRIX LQ-870	£230.00	£270.25
97485	EPSON DOT MATRIX FX-1170	£219.00	£257.33
PR14301	EPSON DOT MATRIX DX-8500E1,779.00	£2,090.33	
BURPR1617	EPSON DOT MATRIX LQ-2170	£468.00	£549.90
PR14304	EPSON DOT MATRIX FX-2180	£395.00	£464.13
PR12408	EPSON DOT MATRIX LQ-670	£230.00	£270.25
PR4480	EPSON DOT MATRIX LQ-570+	£216.00	£253.80
PR12990	EPSON DOT MATRIX DLQ-3000+E791.00	£929.43	
PR13065	EPSON DOT MATRIX FX-880	£247.00	£290.23
PR12124	EPSON STYLUS COLOUR 1520	£451.00	£529.93
PR12407	EPSON STYLUS COLOUR 3000 A2E1,118.00	£1,313.65	
PR13450	EPSON STYLUS PHOTO 700	£163.00	£191.53
PR13449	EPSON STYLUS COLOR 850	£207.00	£243.23
PR13448	EPSON STYLUS PHOTO EX	£308.00	£361.90
PR13644	EPSON STYLUS PRO 5000	£1,587.00	£1,864.73
PR13782	EPSON LASER EPL-5700	£304.00	£357.20
PR13783	EPSON LASER EPL-5700EN	£458.00	£538.15
PR13784	EPSON LASER EPL-5700PS	£458.00	£538.15
PR11953	EPSON LASER EPL-N2000PS E1,193.00	£1,401.78	
PR11954	EPSON LASER EPL-N2000	£954.00	£1,120.95
PR11955	EPSON LASER EPL-N1200PS E1,193.00	£1,401.78	
PR11952	EPSON LASER EPL-N1200	£477.00	£566.48
PR11956	EPSON LASER EPL-N1200EN	£636.00	£747.30
PR14231	EPSON LASER EPL-N1600	£598.00	£702.65
PR14336	EPSON LASER EPL-N1600T	£716.00	£841.30
PR14401	EPSON LASER EPL-N1600ENT E835.00	£981.13	
IN5905	EPSON GT-7000 Scanner	£146	(171.55)
INP5906	EPSON GT-7000 Photo Scanner	CALL	

**NEW LASER PRINTERS FROM BROTHER**

**HL-820**

- 8ppm
- Windows dedicated printing
- 2MB standard memory
- 600 dpi resolution
- Semi automatic double sided-printing
- Intelligent sleep mode



Only **£159**  
(£188.83)

**HL-1070**

High quality printing at a surprisingly low price.

- 10ppm
- 4MB standard memory, upgradable to 36MB
- Network connectivity option
- PCL6 & PostScript 2 language emulation
- Dual paper tray
- 1200 dpi
- One year on-site warranty
- Intelligent sleep mode

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The future at your fingertips



As low as **£669**  
(£786.08)

**HL-2060**

- True 1200dpi Print Resolution
- 8MB Standard Memory
- PCL6 & Postscript Level 2 Emulation
- Up to 20ppm Print Speed
- Optional Duplex Unit – up to 8ppm
- Advanced Paper Handling
- Job Re-print function



**NEW**

PR13781	HL-820 2MB	£159	(£186.83)
PR13843	HL-1040 2MB	£215	(£252.63)
PR13842	HL-1050 4MB	£239	(£280.83)
PR13772	HL-1070 4MB	£299	(£351.33)
PR13362	HL-2400C 40MB	£2145	(£2,520.38)
PR13492	HL-2400CN 80MB	£2495	(£2,931.63)
PR13498	HL-1660e 8MB	£609	(£715.58)
PR13657	HL-1660en 8MB	£819	(£962.33)
PR13653	HL-1660en 16MB	£835	(£981.13)
PR12578	HL-2060 8MB	£669	(£786.08)
PR12579	HL-2060N 8MB	£899	(£1,056.33)
PR14319	HL-2060 16MB	£685	(£804.88)

**EPSON STYLUS COLOR 850**

- Stunning 1440dpi print quality
- Fast print speed: Mono 6ppm, colour 6ppm
- Over A3 print area for printing full A3 pages with bleeds and crop marks



Only **£451**  
(£529.93)

Item # PR12124

**EPSON STYLUS COLOR 1520**

- Ultra fast print speed – up to 9ppm mono and up to 8.5 ppm colour
- PhotoReal Colour and laser-sharp black output as standard



Only **£207**  
(£243.23)

Item # PR13449

**EPSON STYLUS PHOTO 700**

ONLY **£163**  
(£191.53)  
PR13450



- 1440 DPI
- Up to 3.5ppm
- Photo reproduction quality output

**EPSON LASER EPL-N1600**

ONLY **£569**  
(£700.30)  
PR14231



- Fast print speeds – 16ppm
- Superb 1200dpi with EPSON MicroGray and RITech printing technologies
- Comprehensive network connectivity
- Duplex option available for two-sided printing

\* See page 32 for Terms & Conditions

PRINTERS



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**GREAT CONSUMABLE PRICES!**

### TONERS

Desc	Order No	Price
Optra E/E+ Toner Cartridge	PR12113	£96.95
PagePrinter 4216 Print Cartridge	6759	£21.15
4019/4029/4028/4015E High Yield Cartridge	72071	£126.95
4037 SE/WinWriter 400 Print Cartridge	206577	£117.25
3912/4039/3916 12,800 pages Print Cartridge	206563	£137.95
3912/4039/3916 12,800 pages Marathon Cartridge	206564	£137.95
Optra all models 7,000 pages Print Cartridge	220717	£114.95
Optra all models 14,000 pages Print Cartridge	220718	£140.95
Optra C Toner Cartridge Blk	PA0261	£74.95
4039 10 Plus Laser Toner Cartridge	553442	£158.95
WinWriter 200 Toner Cartridge	EURPA1642	£110.95
Optra Toner Cartridge	EURPA1275	£139.95
Optra C Magenta Toner Cart	PR11443	£86.95
Optra C Cyan Toner Cart	PR11442	£86.95
Optra C Yellow Toner Cart	PR11767	£86.95
Optra N Black Toner Cart	PA0959	£166.63
Optra 1200N Black Toner Cart	PR13877	£66.95
Optra 1200N Magenta Toner Cart	PR13887	£90.95
Optra 1200N Cyan Toner Cart	PR13888	£90.95
Optra 1200N Yellow Toner Cart	PR13889	£90.95
Optra SC 1275/1275N Black Toner Cart	PR14100	£42.50
Optra SC 1275/1275N Cyan Toner Cart	PR14101	£39.10
Optra SC 1275/1275N Magenta Toner Cart	PR14102	£39.10
Optra SC 1275/1275N Yellow Toner Cart	PR14110	£39.10

### INK CARTRIDGES

Desc	Order No	Price
LEXMARK CART INK COLOUR 150C/1020/2030/1100	220656	£25.95
LEXMARK CART INK BLK COLOUR/ET 7000/3200/5700/Optra 45	PR12829	£19.95
LEXMARK CART INK COLOUR 5700/3200/Optra 45	AC24524	£22.80
ExecJet III/IC/WinWriter 100	201112	£20.95
Colourjet 1020/2050	Black AC20528	£23.50
Colourjet 1020/2050	Tri Colour AC20509	£25.95
Colourjet 7000	Tri Colour AC24080	£22.95
Colourjet 7000	Black PR12829	£19.95
ColourJet Plus/Plus Pro	Black 553129	£14.15
ColourJet Plus/Plus Pro	Cyan 553130	£19.95
ColourJet Plus/Plus Pro	Magenta 553131	£19.95
ColourJet Plus/Plus Pro	Yellow 553132	£19.95
KODAK Diconi+	Black 52432	£10.95
90/94	Black 54383	£11.25
DJ4+, DJ500 to 560C	Black 54612	£14.95
DJ500C/540/550C/560C	Colour 55218	£16.25
StyleWriter Pro High Capacity	Black ACC1416	£6.95
StyleWriter III/1200/1500	Black APCACC1003	£14.95
StyleWriter 1500	Tri-Colour APCACC1447	£24.95
StyleWriter 4500	Black ADCC3176	£22.95
StyleWriter 4500	Tri-Colour ADCC3177	£24.95
ExecJet III/IC/1100 Black Ink Cart	201112	£20.95
1500/1020/2030/1100 Colour Ink Cart	220656	£25.95
Colourjet 7000/3200/5700/Optra 45 Blk Ink Cart	PR12829	£19.95
Colourjet 5700/3200/Optra 45 Colour Ink Cart	AC24524	£22.80
Colourjet 2070 Tri-Colour Ink Cart	AC20508	£27.95

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Desc	Order No	Price
Premium Paper A4 (300dpi)	1402650	£5.95
High Resolution Coated Paper A4 (600-720dpi)	1402781	£8.95
Glossy White Film A4 50 Pack	1372361	£22.95
Glossy White Film A4 10 Pack	1402796	£5.50
Transparency Film A4	1402796	£9.95

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**PAGE 10 OF 32**

## Lexmark 3200 Color Jetprinter

### Easy to Use

The the new express install driver only a few key strokes are need to load the driver. You are literally ready to print within minutes of taking the printer out of the box.

Micrografix Windows Draw 6.0 SE

This easy to use software which comes free with the 3200 provides you with powerful graphics tools for business and pleasure.

### Quality that lasts

You will be amazed by the quality of the output of your 3200. and what's more, you'll be saying the same thing 10,000 pages later! Why? Because every time you replace the ink cartridge, you get a new printhead too, so your 3200 will always perform at peak quality. Not only that, the 3200 printhead is extra wide so you get two lines of print at once - quality combined with speeds up to 6 pages per minute.



**ONLY £135**  
 (£158.63)  
 Item # PR14216

**NEW**

- Laser Quality Output
- 1200 x 1200 dpi
- Photo quality images
- Fast Dependable Performance
- Up to 6ppm black
- Up to 2.5 ppm colour
- Easy to Use
- Quick set up
- Easy operation

### LEXMARK 1100 COLOR JETPRINTER

Add the power of colour to your documents

#### Features:

- Up to 600 x 600 dpi
- Up to 3.5ppm black, 1.5ppm colour
- Windows 3.1x, 95 & 98
- Input capacity : 30 paper sheets in automatic mode
- Windows Draw 6 Special Edition

**Only £79!**  
 (£92.83)  
 Item # 14215



### LEXMARK 5700 COLOR JETPRINTER

Ultimate quality at work

#### Features :

- Up to 8ppm black, 4ppm colour
- Up to 1200 x 1200 dpi
- Windows 3.1 & 95, NT 4.0

**As low as £195!**  
 (£229.13)  
 Item # PR13493



### LEXMARK OPTRA E+

- 600 x 600 dpi
- Up to 6ppm
- 150 sheet input tray

**Only £235!**  
 (£276.13)  
 Item # PR13731



### LEXMARK OPTRACOLOR 45

Enjoy professional colour in a big way

- 1200 dpi
- From A4 to Oversize A3
- Up to 8ppm black, 4ppm colour (A4)

**From Only £589!**  
 (£692.08)  
 Item # PR13828



Lexmark Optra 45n PR13829 £945 (£1110.38)

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**HP Colour InkJet Printers** From **£65<sup>95</sup>** as low as **£77.49** (~~£77.49~~)

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**HP 2000C/CN**



**FROM ONLY £450**  
 (£528.75)  
 Item # BN5589

**COLOUR**

**TAKE COVER**  
 Has HP Support Pack

**HP Ink Cartridge FREE!**

- Up to 600dpi
- Up to 10ppm black
- Up to 7ppm colour

BN5589	HP 2000C Printer	£450.00	(£528.75)
C4601A	250 sheet accessory paper tray for 2000C	£139.00	(£163.33)
BN5590	HP 2000CN Printer (with JetDirect 300X & accessory paper tray)	£675.00	(£793.13)
201325	HP Support Pack	£139.00	(£163.33)



**HP 2500C**

**NEW**

**Professional Colour Printer**

Fast high-impact colour documents at low cost per page

- From postcard to A3 oversize
- Up to 600 dpi black. PhotoRet II for Photo Quality
- Up to 9ppm A4 black
- Colour print speed: up to 7ppm colour A4 4ppm A3

**ONLY £705**  
 (£828.38)  
 Item # PR14169



PR14169	HP 2500C Printer	£705	(£828.38)
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**HP DESKJET 420C & 1120C**

**HP DeskJet 420C**

**Only £65<sup>95</sup>**  
 (£77.49)  
 Item # PR13996

- Up to 3ppm black, 0.25ppm colour
- 600dpi black, 300dpi colour



**HP DeskJet 1120C**

- 6.5 ppm black, 2ppm colour
- Up to 600 x 600 dpi black

**Only £285**  
 (£334.88)  
 Item # BN5597



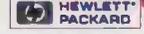
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**HP DESKJET 710C & 340C**

**HP DeskJet 710C**

**Only £134**  
 (£157.45)  
 Item # BN5596

- PhotoRet II for photo-quality. Kodak image enhancement
- Up to 6ppm black, 3ppm colour



**HP DeskJet 340C**

- Colour option, 30 sheet feeder, 2 ppm
- 600 x 300 dpi black with HP RET



224340	HP DeskJet 340C	£135.00	(£158.63)
PR11832	HP DeskJet 340CBI	£159.00	(£186.83)

**Photo Paper FREE! SAVE £6\***

**HP DESKJET 895Cxi**

Print quality and performance that meets business demands

- Up to 10ppm
- USB and parallel ports

**Only £186**  
 (£218.55)  
 Item # PR14029



**NEW**

**HP DESKJET 690C**

- Up to 5ppm black, 1.7ppm colour
- Up to 600 dpi



**Only £96**  
 (£112.80)  
 Item # PR13997



**HP BRANDED CONSUMABLES**

**HP DESKJET CARTRIDGES**

51626A	HP InkJet Cartridge, black for DJ, DJ4/DJ400/500-560C/OfficeJet	£14.95	(£17.57)
51625A	HP InkJet Cartridge, colour for DJ 5000 - 560C, DJ Portable 310/320/340	£15.95	(£18.74)
51625A	HP InkJet Cartridge, black for DJ 600/660C/670C/690C/694C	£16.65	(£19.56)
51649A	HP InkJet Cartridge, colour for DJ 90/660C/670C/690C/694C	£18.85	(£22.15)
51633M	HP InkJet Cartridge, black for DJ Portable 310/320/340	£13.85	(£16.27)
51640A	HP InkJet Cartridge, black for DJ 1200C/CopyJet	£15.85	(£18.62)
51640C	HP InkJet Cartridge, cyan, for DJ 1200C/1600C/CopyJet	£18.45	(£21.67)
51640M	HP InkJet Cartridge, magenta for DJ 1200C/1600C/CopyJet	£18.45	(£21.67)
51640Y	HP InkJet Cartridge, yellow for DJ 1200C/1600C/CopyJet	£18.45	(£21.67)
51645A	HP InkJet Cartridge, black for DJ 720C/850C/820C/870C/890C/895C/1100C/1600C/OfficeJet Pro	£16.60	(£19.50)
51641A	HP InkJet Cartridge, colour for DJ 850C/820C/870C/890C/OfficeJet Pro	£17.65	(£20.73)
C1823A	HP InkJet Cartridge, colour for DJ 720C/850C/895C	£24.40	(£28.67)
51629TE	HP InkJet twin pack 600 Series	£31.95	(£37.54)
51626TE	HP InkJet twin pack 500 Series	£29.45	(£34.60)
C4844AE	HP InkJet Cartridge large black for C2000C/Cv2500C	£33.95	(£39.89)
C4841AE	HP InkJet Cartridge Cyan for C2000C/Cv2500C	£33.95	(£39.89)
C4842AE	HP InkJet Cartridge Yellow for C2000C/Cv2500C	£33.95	(£39.89)
C4843AE	HP InkJet Cartridge Magenta for C2000C/Cv2500C	£33.95	(£39.89)

**HP INKJET PAPER AND FILM**

C3831A	HP Premium Glossy Paper, A4, 10 sheets	£7.55	(£8.67)
C3837A	HP Premium Glossy Paper, A4, 50 sheets	£31.45	(£36.95)
C3832A	HP Premium Transparency Film, A4, 20 sheets	£12.35	(£14.51)
C3835A	HP Premium Transparency Film, A4, 50 sheets	£26.95	(£31.66)
51630S	HP CX JetSeries Transparency Film for PaintJet, A4, 50 sheets	£39.90	(£46.88)
51630R	HP 2-Fold CX JetSeries Paper for PaintJet (210 x 305), 250 sheets	£16.95	(£19.91)
51630Z	HP CX JetSeries Paper (PaintJet), A4, 200 sheets	£12.20	(£14.33)
51631B	HP CX JetSeries Paper (PaintJet), A3, 200 sheets	£29.95	(£35.19)
51634Z	HP Premium InkJet Paper, A4, 200 sheets	£12.65	(£14.86)
C1856A	NEW! HP Premium InkJet Paper, A3, 100 sheets for DJ 1100C	£18.95	(£22.26)
C5042A	NEW! HP Greeting Card Paper, A4, 20 sheets / 2 envelopes	£5.50	(£6.58)

**HP LASERJET TONER CARTRIDGES**

C4129X	LJ5000	£35.95	(£112.74)
C4127A	Toner Cartridge for LJ4000	£54.95	(£64.56)
C4127A	High Capacity Cartridge for LJ4000	£76.95	(£90.41)
92274A	Toner Cartridge for LJ 4L/4ML/4P/4MP	£38.95	(£45.77)
92275A	Toner Cartridge for LJ 10/10P+ / 10P	£47.70	(£56.05)
92291A	Toner Cartridge for LJ 15/15AS/ 45/45X	£63.95	(£75.14)
92295A	Toner Cartridge for LJ 10/10D, 10/10D	£40.95	(£48.11)
92296X	High Capacity Toner Cartridge for long life LJ 4/4M, 4+/4M+, 5/5M/5M	£64.45	(£75.72)
92298A	Toner Cartridge for LJ 4/4M, 4+/4M+, 5/5M/5M	£51.95	(£64.57)
C3000A	Toner Cartridge for LJ 4V/4VM	£81.45	(£95.70)
C3003A	Toner Cartridge for LJ 5P/5MP, 6P/6MP	£45.95	(£53.99)
C3006A	Toner Cartridge for LJ 9L	£33.95	(£39.89)
C3009A	Toner Cartridge for LJ 5SI, 5S/5X	£104.95	(£123.32)
92285A	Toner Cartridge for LJ Plus, LJ 500 Series	£66.95	(£85.72)

**HP COLOUR LASERJET 5 TONER**

C3102A	Colour Toner cyan	£26.95	(£31.66)
C3103A	Colour Toner yellow	£26.95	(£31.66)
C3104A	Colour Toner magenta	£26.95	(£31.66)
C3105A	Colour Toner black	£5.85	(£6.88)
C3664A	Coating Kit	£37.95	(£44.59)
C3665A	Black Developer	£128.95	(£151.51)
C3666A	Colour Developer	£391.95	(£460.54)
C3667A	Drums Unit	£236.00	(£277.30)
C3668A	Transfer Belt	£128.95	(£151.51)
C3669A	220 Volt Fuser	£179.95	(£211.44)

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HP PRINTERS AND CONSUMABLES



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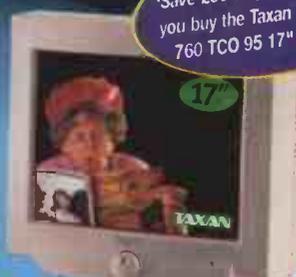
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- 19" FST (18" viewable)
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- ARASC face treatment
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- 1600 x 1200 up to 75Hz
- Fully TCO 95 Compliant
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#### ERGOVISION 760 TCO 95

- 17" "ZenTan" FST
- 30-70 kHz (Multiscan)
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- Footprint equivalent to 14" monitor
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MT1825	Ergovision 760 TCO 95-S 17"	£262	£307.85
MT1274	Ergovision 740 TCO 95	£305	£358.38
MT1239	Ergovision 740 TCO S 95	£315	£370.13
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MT1170	Crystalvision 650 Plus 14.5" TFT	£1139	£1338.33
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MT2378	Crystalvision 670 TCP-95S 15.1" TFT	£949	£1115.08

Taxan Ergovision 760TC095 / Conventional 17" FST Monitor

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- Fully TCO99 Compliance



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- Short Neck Tube (428mm deep)
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- Multimedia Software bundle



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- 19" DiamondTron NF (18" viewable)
- 0.25mm aperture grille
- 1600 x 1200 @ 90Hz refresh
- TCO-95 compliant



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#### S702GT

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- 1600 x 1200 @ 75Hz refresh



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MT1186	IYAMA MONITOR 17" VISION MASTER 17ES	MF-8617ES	£349.00	(€410.07)	MT2174	IYAMA MONITOR 17" DIAMONDTRON	A701GT	£315.00	(€370.12)
MT1277	IYAMA MONITOR 15" VISION MASTER 350	MF-8515G	£129.00	(€151.58)	MT2175	IYAMA MONITOR 17" VISION MASTER 400	S701GT	£285.00	(€334.88)
MT1744	IYAMA MONITOR 19" VISION MASTER 450	S901GT	£399.00	(€468.83)	MT2357	IYAMA MONITOR 14.1" TFT PROLITE 36	TXA3602GT	£659.00	(€774.32)
MT12440	IYAMA MONITOR VISION MASTER PRO 450	A901GT	£435.00	(€511.13)	MT2358	IYAMA MONITOR 15" TFT PROLITE 38	TXA3811HT	£685.00	(€804.87)
MT2083	IYAMA MONITOR 21" VISION MASTER 501	S101GT	£679.00	(€797.83)	MT2123	IYAMA MONITOR LCD 14.1" TFT PROLITE 36	TXA3601GT	£495.00	(€581.62)

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MT1976	15" S50	£129.00	(€151.58)
MT1977	15" P50	£145.00	(€170.38)
MT1978	15" SM50	£155.00	(€182.13)
MT1979	17" S70	£245.00	(€287.88)
MT2236	17" SL70	£269.00	(€316.08)
MT1980	17" P70	£289.00	(€339.58)
MT1981	17" SM70	£279.00	(€327.83)
MT2235	17" E70	£229.00	(€269.08)
MT1983	21" S110	£665.00	(€781.38)
MT1984	21" P110	£699.00	(€821.33)
MT2398	15" LCD LC50	£899.00	(€1,056.33)

SHYV			
MT1456	WS00 24	£1,399.00	(€1,643.83)
MT1899	200GST	£315.00	(€370.13)
MT1898	500PST	£769.00	(€903.58)
MT1857	200PST	£395.00	(€464.13)
MT1343	300SFT	£705.00	(€823.38)
MT1896	100EST	£169.00	(€198.58)
MT1897	100GST	£215.00	(€252.63)
MT1898	200EST	£295.00	(€346.63)
MT1857	GDM 200	£395.00	(€464.13)
MDN0635	GDM 400 PST	£485.00	(€569.88)
MT1856	120A	£289.00	(€339.58)
MT1856	220A	£425.00	(€499.38)

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MT1260	14 COLOUR MONITOR 104S	£69.00	(€81.08)
MT1251	15 COLOUR MONITOR 105S	£109.00	(€128.08)
MT1259	17 107B MM	£249.00	(€292.58)
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- 36-bit
- Network Ready



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EX8851	Voodoo2 12MB PCI	£75.00	£88.13
EX9517	3D Blaster Banshee 16MB PCI	£69.00	£81.08

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EX9480	Viper V550 16MB PCI TV Out	£115.00	£135.13
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EX9460	Viper V550 16MB AGP TV Out	£115.00	£135.13
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EX8254	Winner2000/Office 4MB	£145.00	£170.38
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EX9566	Millennium G200 8MB PCI	£75.00	£88.13
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EX9567	Marvel G200 8MB AGP	£145.00	£170.38
EX9568	Marvel G200 8MB PCI	£149.00	£175.08
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MT2140	Diamond Plus 72	£315.00	(€370.13)	MT5649	Diamond Pro 900u	£475.00	(€558.13)
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- 16-bit data transfer rate - up to 3.3MB/sec
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DR9383	ProMax 3.0GB	£299	(£351.33)
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# Zip Drive & 7 Disks only **£95** (£111.63) Ask for item DR8960

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- Professional Quality Home Video**
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 (£276.13)  
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- What you get!**
- External 2GB Jaz Drive
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  - 1 Jaz Tools Cartridge
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ONLY **£95!**  
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- Parallel Port Zip Drive
  - 6-pack of Multicoloured disks
  - Recordit software
  - Iomega Tools on Zip Disk

## IOmega DECEMBER DEALS!

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- Faster than many hard drives
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- Ideal for storing legal documents
- Ultra SCSI connection

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- Multiple customised capacity up to 10GB (compressed)
- 125MB FlashFile allows 5 second average access
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- Includes a Complete Windows NT backup suite

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- Store 100MB per disk
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Iomega's coloured Zip disks offer you a whole new world of possibilities for organising your files. You now can keep all your multimedia files on blue disks, documents on red disks or even colour code your work by client.



**NEW! MEDIA BUNDLES**

Zip disk from **£6.15** per disk  
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## Iomega Jaz Cartridges

The software included with the Jaz drive has a cataloguing feature that tracks all your files on your disks. Existing files on floppy disks, hard drives, or any other removable media can be easily consolidated onto Jaz disks with a few simple clicks!!

- Use one Jaz cartridge to:
- Record a 2-hour movie
  - Save over 8 hours of CD-Quality sound
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Jaz 2GB Cartridges from only **£53**  
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## Iomega Ditto Tapes

10GB of backup from only **£21.95**  
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IOmega			
DESCRIPTION	ORDER No.	PRICE	(INC. VAT)
<b>Iomega Zip Disks</b>			
6-pack of disks (multicolour)	ME7941	£39	(£45.83)
20-pack of disks (multicolour)	ME7940	£129	(£151.58)
100-pack of disks (multicolour)	BN5575	£615	(£722.63)
<b>Iomega Jaz Cartridges</b>			
Single 2GB cartridge	ME7527	£65	(£76.38)
3-pack of 2GB cartridges	ME7529	£159	(£186.83)

IOmega			
DESCRIPTION	ORDER No.	PRICE	(INC. VAT)
<b>Iomega Ditto and Ditto Max Tapes</b>			
Ditto 2GB Singles	ME6953	£11.95	(£14.04)
Ditto 2GB Triple pack	ME6954	£33.95	(£39.89)
DittoMax 3GB Singles	ME7454	£12.50	(£14.69)
DittoMax 3GB Triple pack	ME7455	£35.95	(£42.24)
DittoMax 5GB Singles	ME7456	£14.95	(£17.57)
DittoMax 7GB Singles	ME7458	£17.95	(£21.09)
DittoMax Pro 10GB Singles	ME7533	£21.95	(£25.79)

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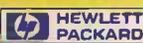
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**£119**  
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- Up to 5GB compressed capacity
- Disaster recovery for Windows 95 with full system protection
- Low cost HP Colorado 5GB media
- Internal IDE interface

Ask for item # DR7034

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- Up to 20GB compressed capacity
- Uses TR-5 cartridge
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- 2-year Express Exchange hardware warranty

DR9164: 10/20GB TR-5 Internal SCSI **£299** (£351.33)  
DR9163: 10/20GB TR-5 External SCSI **£349** (£410.08)

#### DLT Tapes



- |                                 |                        |
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| ME7419: Maxell DLT III TK85     | <b>£26.95</b> (£31.66) |
| ME7591: Maxell DLT III XT TK87  | <b>£34.45</b> (£40.48) |
| ME7954: Sony DLT III XT TK87    | <b>£36.95</b> (£43.41) |
| ME7590: Quantum DLT III XT TK87 | <b>£37.95</b> (£44.59) |
| ME7020: HP DLT III XT TK87      | <b>£38.95</b> (£45.76) |
| ME7080: Fuji DLT IV TK88        | <b>£60.95</b> (£71.61) |
| ME7823: Quantum DLT IV TK88     | <b>£62.95</b> (£73.96) |
| ME7021: HP DLT IV               | <b>£75.95</b> (£89.24) |



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#### HP Colorado 8GB

#### HP Surestore CD-Writer 8100i

Great software included  
Adaptec Direct CD/Easy CD,  
HP Simple Trax, HP Disaster  
Recovery, HP Fast Format,  
Multimedia Tutorial,  
Install Assistant

ONLY  
**£229**  
(£269.08)  
Item # DR8786



- 24X Read, 4X Write CD-R and 2X Re-write CD-RW
- Supports CD-R and CD-RW
- Create Multiple types of CD
- Up to 650MB Storage Capacity
- Fast Format CD-RW media in under 5 minutes

Includes your first tape

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**£149**  
(£175.08)  
Item # DR8149

The HP Colorado 8GB drives deliver extremely high performance and high capacity at an astonishingly low price. Allowing you to store 8GB on a single data cartridge\* and store data at a rate of up to 3GB in well under an hour.\*\*

\* Disaster recovery for Windows 95 with full system protection

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- Includes Colorado Backup by Computer Associates for Windows 95, Windows and DOS

DR8149 Colorado 8GB Internal IDE	<b>£149</b> (£175.08)
DR8151 Colorado 8GB External Parallel	<b>£175</b> (£205.63)
DR7035 Colorado 5GB External Parallel	<b>£145</b> (£170.38)
DR7763 Colorado T3000 3.2GB Internal	<b>£89</b> (£104.58)

\* via compression \* speeds may vary according to PC

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**£555!**  
(£652.13)  
Item # DR7156

- |                                  |                         |
|----------------------------------|-------------------------|
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| DR5721 20/40GB DLT External SCSI | <b>£2099</b> (£2466.33) |
| DR7450 35/70GB DLT External SCSI | <b>£3999</b> (£4698.83) |
- \* Please call for internal models

### DATA CARTRIDGES



#### DATA CARTRIDGES

236597 Sony QTR1 8MB Travan	<b>£10.75</b> (£12.63)
ME6601 Sony QTR3 3.2GB Travan	<b>£14.45</b> (£16.97)
ME6936 Sony QTR4 8.0GB Travan	<b>£19.25</b> (£22.62)
99329 Verbatim DC2120 QIC80	<b>£4.50</b> (£5.29)
54373 Verbatim DC2120XL QIC80	<b>£6.95</b> (£8.17)
EURME1357 Verbatim MC3010XL QIC3010	<b>£14.45</b> (£16.98)
236684 Verbatim ME3020XL QIC3020	<b>£15.95</b> (£18.74)
220920 Imation Travan TR1	<b>£12.45</b> (£14.63)
ME7701 Imation Travan 5GB	<b>£19.95</b> (£23.44)
62160 Imation Travan 1.0	<b>£22.95</b> (£26.97)

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### Ultra ATA Hard Drives



Item	Model	Part Number	Capacity	Price	Inc VAT
<b>SEAGATE</b>					
EX8304	Medalist	ST32122A	2.1GB	£57	£66.98
DR8848	Medalist	ST33221A	3.2GB	£77	£90.47
DR8077	Medalist	ST34321A	4.3GB	£93	£97.53
DR8187	Medalist Pro	ST34520A	4.5GB	£102	£119.33
DR8078	Medalist	ST36531A	6.5GB	£105	£123.38
DR8079	Medalist	ST38641A	8.6GB	£139	£163.33
DR8195	Medalist Pro	ST39140A	9.1GB	£165	£193.88



Item	Model	Part Number	Capacity	Price	Inc VAT
<b>QUANTUM</b>					
DR9154	Fireball EX	QM303200EX-A	3.2GB	£75	£88.13
DR9155	Fireball EX	QM305100EX-A	5.1GB	£89	£104.58
DR7434	Bigfoot TX	QM508000TX-A	8.0GB	£109	£128.08
DR7413	Bigfoot TX	QM512000TX-A	12.0GB	£155	£182.13
DR9156	Fireball EX	QM3010200EX-A	10.2GB	£169	£198.58

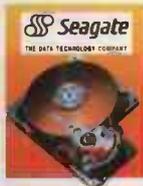


Item	Model	Part Number	Capacity	Price	Inc VAT
<b>WESTERN DIGITAL</b>					
DR6335	Caviar	AC23200	3.2GB	£82	£96.35
DR8666	Caviar	AC24300	4.3GB	£84	£98.70
DR6912	Caviar	AC35100	5.1GB	£99	£118.33
DR7049	Caviar	AC36400	6.4GB	£109	£128.08
DR8631	Caviar	AC38400	8.4GB	£145	£170.38
DR9100	Caviar	AC310100	10.1GB	£179	£210.33



Item	Model	Part Number	Capacity	Price	Inc VAT
<b>IBM</b>					
DR9067	Deskstar 4GP	00K4125	4.3GB	£105	£123.38
DR6918	Deskstar 8	00K4115	6.4GB	£115	£135.13
DR8066	Deskstar 8	00K4101	8.4GB	£142	£166.85
DR8683	Deskstar 16	00K4091	10.1GB	£169	£198.58
DR8687	Deskstar 16	00K4071	14.1GB	£339	£398.33
DR8685	Deskstar 16	00K4073	16.8GB	£305	£358.38

### Ultra SCSI Hard Drives



Item	Model	Part Number	Capacity	Price	Inc VAT
<b>SEAGATE</b>					
DR8734	Medalist Pro (W)	ST34520W	4.5GB	£169	£198.58
DR8573	Barracuda	ST34573N	4.5GB	£285	£334.88
DR8750	Medalist Pro	ST36530N	6.5GB	£219	£257.33
DR8748	Medalist Pro (W)	ST36530W	6.5GB	£253	£297.28
DR8745	Medalist Pro	ST39140N	9.1GB	£315	£370.13
DR8746	Medalist Pro (W)	ST39140W	9.1GB	£319	£374.83
DR8188	Barracuda	ST118273N	18.0GB	£749	£808.08
DR8756	Cheetah (W)	ST118202LC	18.2GB	£948	£997.58



Item	Model	Part Number	Capacity	Price	Inc VAT
<b>QUANTUM</b>					
DR8278	Viking II	QM304550PK-SW4	5GB	£195	£229.13
DR8489	Viking II (W)	QM309100PK-LW9	1GB	£329	£386.58
DR8457	Atlas III	QM309100TDS	9.1GB	£405	£475.88
DR8781	Atlas III (W)	QM309100TD-SCA9	1GB	£399	£468.83
DR8609	Atlas III	QM318200TDS18	2GB	£699	£821.33
DR8495	Atlas III (W)	QM318200TD-LW18	2GB	£689	£809.58



Item	Model	Part Number	Capacity	Price	Inc VAT
<b>WESTERN DIGITAL</b>					
DR9139	Enterprise (W)	WDE2170-00072	1GB	£169	£198.58
DR6106	Enterprise	WDE4360-0003	4.3GB	£225	£264.38
DR6110	Enterprise (W)	WDE4360-00074	3GB	£235	£276.13
DR8020	Enterprise	WDE9100-0003	9.1GB	£355	£417.13
DR7975	Enterprise (W)	WDE9100-00079	1GB	£359	£421.83



Item	Model	Part Number	Capacity	Price	Inc VAT
<b>IBM</b>					
DR8958	Ultrastar 2ES	09J1035	4.3GB	£145	£170.38
DR8238	Ultrastar 2ES (W)	09J1037	4.3GB	£159	£186.83
DR8515	Ultrastar 9ES	00K3970	9.1GB	£359	£421.83
DR8514	Ultrastar 9ES (W)	00K3990	9.1GB	£359	£421.83
DR8167	Ultrastar 18XP	59H6589	18.0GB	£679	£797.83
DR8168	Ultrastar 18XP (W)	59H6591	18.0GB	£719	£844.83

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Plextor CD-recorders provide the highest standards for dependability and performance. The Plexwriter writes your data at 4X and reads at a maximum speed of 12X offering an amazing 5MB/sec data transfer rate and a 190ms access time. The combination of a Fast SCSI burst rate, low CPU utilization, a large 2MB buffer and synchronous data transfer all add up to increase the efficiency and the reliability of CD writing.



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- Max 5MB/sec burst data transfer rate
  - Fast SCSI-2 Interface
  - MultiRead Compatible
  - Caddy loading Mechanism
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DR7731	Plexwriter 4X/12X External SCSI	£289 (£339.58)
DR7917	Ultralex 32X Internal SCSI Tray	£85 (£99.88)
DR7916	Ultralex 32X Internal SCSI Caddy	£113 (£132.78)
DR7422	Ultralex 32X External SCSI Tray	£125 (£146.88)

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- 32-bit, PCI-to-Ultra SCSI host adapter
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### CDR & CDRW



CDR					
220720	Maxell	74min	650MB	£1.50	(£1.76)
ME8399	Sony	74min	650MB	£1.65	(£1.93)
ME7399	TDK	74min	650MB	£1.70	(£2.00)
6005043	Verbatim	74min	650MB	£1.95	(£1.82)
ME7889	HP	74min	650MB	£1.85	(£2.17)
CDRW					
ME7724	Maxell	74min	650MB	£12.45	(£14.62)
ME7723	Sony	74min	650MB	£14.95	(£17.57)
ME7661	TDK	74min	650MB	£12.95	(£15.21)
ME7350	Verbatim	74min	650MB	£10.95	(£12.86)
ME7858	HP	74min	650MB	£11.95	(£14.04)

\* See page 32 for Terms & Conditions

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HARD DRIVES/PC ENHANCEMENTS/MEDIA



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- Slimline connector

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**Voice Faxmodem with Answerphone Facility**  
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**56K\* Faxmodem with Personal Voice Mail**

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 Item # DMD3587

DMD3587	56K* Professional Message Modem	£139.00	(£163.33)
DMD3573	3Com 56K* Voice Faxmodem Ext	£85.00	(£99.88)
DMD3473	Sportster Flash 56K* Internal	£85.00	(£99.88)
DMD3588	3Com 56K* Message Modem	£125.00	(£146.88)
DMD3151	Sportster Winmodem PC card 33.6 (Win 95)	£75.00	(£88.13)
DMD3601	Sportster 56K* Internal Winmodem	£75.00	(£88.13)
DMD3129	Sportster ISDN TA External	£99.00	(£116.33)
234937-5	Courier V34 33.6 External	£195.00	(£229.13)
DMD1316	Courier V34 33.6 Internal	£195.00	(£229.13)
MM3994	Courier-1 ISDN/V34 External	£239.00	(£280.83)
MM3993	Courier-1 ISDN V34 Internal	£239.00	(£280.83)
DMD3335	3Com Megahertz 56K* Global PCMCIA Modem	£129.00	(£151.58)

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  - Professional Voice Message System
  - Speakerphone voice answerphone
  - FREE Windows Data/FAX/Voice communications software

#### Hayes Accura V.90 56K

- Internet download speeds of up to 56,000 bit/s from compatible ISPs\*
- One month free access to the Internet\*
- Send and Receive faxes.
- Voice answer phone facility
- Built in speakerphone
- \* Excludes telephone charges

**ACCURA V.90 56K FROM £79** (£92.83)  
 Item # DMD2425

DMD2424	Accura V.90 56K Internal	£79.00	(£92.83)
DMD3098	MSN V.90 56K Internal	£84.00	(£98.70)
DMD2425	Accura V.90 56K External	£79.00	(£92.83)
DMD3099	MSN V.90 56K External	£89.00	(£104.58)
DMD2531	Accura 336 PC Card	£89.00	(£104.58)
DMD3281	Optima V.90 56K PC Card	£141.00	(£165.68)
AC24394	Nokia 8110/3110 GSM kit	£95.00	(£111.63)
AC24393	Nokia 2110 GSM kit	£95.00	(£111.63)
AC24395	Panasonic Global GSM kit	£95.00	(£111.63)
MM4018	Optima 336 Business Ext	£139.00	(£163.33)
MM4051	Accura ISDN TA	£169.00	(£198.58)
DMD3775	Optima V.90 56k Business External	£174.99	(£205.61)
DMD3989	Hayes/BT V.90 Internet Kit	£99.00	(£116.33)

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3CS096 Combo	DEC1477	DEC1478	DEC1479
EtherLink III Combo	£64.99 (76.36)	£284.99 (334.86)	£1049.00 (1232.58)
3CS098TPC	DEC2425	DEC2426	DEC2427
EtherLink III SMC/UTP	£37.99 (44.64)	£177.99 (209.14)	£699.99 (822.49)
3C905-TX	DEC2338	DEC2340	DEC2339
FastEtherLink 10/100 PCI	£49.99 (58.74)	£239.99 (281.99)	£879.00 (1032.83)
3CS890-TP	DEC1481	DEC2858	DEC3004
EtherLink III LAN PC Card TP	£7.99 (85.76)	£365.00 (417.13)	£1399.00 (1643.83)
3CS890-Combo	DEC1483	DEC2522	DEC2551
EtherLink III LAN PC Card Combo	£97.99 (115.14)	£479.00 (562.83)	£1889.00 (2219.58)

DEH2289	OfficeConnect Hub TP4	£26.99 (€31.63)
DEH1721	OfficeConnect Hub 8 TPO	£44.99 (€52.86)
DEH1720	OfficeConnect Hub 8TPC	£59.99 (€70.49)
DEH1719	OfficeConnect Hub 8TPM	£192.99 (€226.76)
DEH3670	OfficeConnect Dual Speed 10/100 8 port hubs NEW!	£234.99 (€276.11)
DEH3227	OfficeConnect Hub TP400 4 100BTX Ports	£84.99 (€99.86)

**CABLES**

**SCSI CABLES**

Description	Length	Order No.	Price	Inc. VAT
<b>SCSI I - I</b>				
Centronics 50 (M) - Centronics 50 (M)	0.5m	ACA1238	£5.95	(€8.17)
Centronics 50 (M) - Centronics 50 (M)	1.0m	EURAC3670	£9.95	(€11.68)
Centronics 50 (M) - Centronics 50 (M)	2.0m	EURAC3697	£19.95	(€12.87)
Centronics 50 (M) - Centronics 50 (M)	3.0m	EURAC3671	£15.95	(€18.79)
Centronics 50 (M) - Centronics 50 (F)	1.0m	EURAC3672	£12.95	(€15.22)
Centronics 50 (M) - Centronics 50 (F)	2.0m	EURAC3673	£15.95	(€18.74)
Centronics 50 (M) - DB25 (M)	1.0m	EURAC2158	£8.95	(€14.01)
Centronics 50 (M) - DB25 (M)	2.0m	EURAC3674	£19.95	(€23.44)
<b>SCSI II - I</b>				
Mini - 50 SCSI II (M) - Centronics 50 (M)	0.5m	DCA2170	£10.95	(€12.87)
Mini - 50 SCSI II (M) - Centronics 50 (M)	1.0m	EURAC3700	£19.95	(€23.44)
Mini - 50 SCSI II (M) - Centronics 50 (M)	2.0m	EURAC3675	£25.95	(€30.49)
Mini - 50 SCSI II (M) - Centronics 50 (M)	3.0m	DCA2650	£29.95	(€35.19)
<b>SCSI II - II</b>				
Mini - 50 SCSI II (M) - Mini - 50 SCSI II (M)	0.5m	DCA2173	£16.95	(€19.92)
Mini - 50 SCSI II (M) - Mini - 50 SCSI II (M)	1.0m	DCA2659	£22.95	(€26.97)
Mini - 50 SCSI II (M) - Mini - 50 SCSI II (M)	2.0m	DCA2657	£28.95	(€35.19)
Mini - 50 SCSI II (M) - Mini - 50 SCSI II (M)	3.0m	DCA2648	£35.95	(€42.26)

**USB CABLES**

Description	Order No.	Price	Inc. VAT
USB cable, plug A to plug B, 2 metre	DCA3746	£5.79	(€6.80)
USB cable, plug A to plug B, 3 metre	DCA3135	£6.49	(€7.63)
USB cable, plug A to plug B, 5 metre	DCA3745	£7.59	(€9.08)
USB cable, plug A to plug A, 2 metre	DCA3749	£4.95	(€5.82)
USB cable, plug A to plug A, 3 metre	DCA3130	£5.49	(€6.53)
USB cable, plug A to plug A, 5 metre	DCA3748	£7.79	(€9.15)
USB cable, plug B to plug B, 2 metre	DCA3744	£5.79	(€6.80)
USB cable, plug B to plug B, 5 metre	DCA3751	£9.95	(€11.92)
USB Hub (4 ports)	DEP2983	£99.95	(€119.14)
USB to Parallel Adapter	DAD1563	£39.99	(€46.99)

**PATCH CABLES**

Length	Price Each	(Inc. VAT)	Price 10+	(Inc. VAT)	Qty
0.5m	£3.89	(€4.57)	£32.99	(€39.78)	DCA4645
1m	£4.29	(€5.04)	£26.49	(€31.78)	DCA3868
2m	£4.69	(€5.51)	£29.99	(€35.99)	DCA4040
3m	£5.49	(€6.45)	£46.99	(€55.21)	DCA2240
5m	£5.99	(€7.04)	£49.99	(€59.74)	DCA4650
10m	£8.89	(€10.56)	£76.99	(€90.46)	DCA4061
15m	£10.99	(€12.91)	£94.99	(€111.61)	DCA2246
30m	£19.95	(€23.44)	£169.99	(€199.74)	DCA2247

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**PRINTER CABLES**

Length	Order No.	Price	Inc. VAT
<b>A-B DB25-C36 Cable</b>			
2m	DCA3868	£5.95	(€8.17)
3.0m	DCA3869	£9.95	(€11.89)
5m	DCA3670	£16.95	(€19.92)
<b>A-C DB25-Mini C36 Cable</b>			
2m	DCA3871	£12.95	(€15.22)
3.0m	DCA3872	£16.95	(€19.92)
5m	DCA3815	£24.95	(€29.32)
<b>A-A DB25-DB25 Cable</b>			
2m	DCA3811	£5.95	(€8.17)
3.0m	DCA3812	£9.95	(€11.89)
5m	DCA3867	£24.95	(€29.32)

Serial Cable (foil-shielded)	Length (m)	Order No.	Price	Inc. VAT
DB25F/DB25M	2.4	1964-4	£12.99	(€15.26)
DB25M/DB25M	2.4	1965-4	£9.99	(€11.73)
DB25M/DB25F	4.5	1966-4	£11.99	(€14.44)
DB25F/DB25F	2.4	1968-4	£11.99	(€14.44)
DB9F/DB25M	2.4	0749-4	£9.75	(€11.48)
DB9F/DB25M	4.5	0749-5	£11.45	(€13.43)

**PC TO MAINS CABLES**

Order No.	Description	Price	Inc. VAT
DCA2325	Cable for 3.5" Floppy	£1.29	(€1.52)
DCA2194	Power Supply Y Cable	£1.29	(€1.52)
DCA2193	Extension Cable	£1.29	(€1.52)

PC to Mains Cables			
DCA3923	IEC Mains Cable 2m	£2.09	(€2.46)
DCA4093	IEC Mains Cable 3m	£3.29	(€3.87)
DCA4084	IEC Mains Cable 6m	£5.59	(€6.74)

IEC M-F Mains Cables			
DCA2900	IEC M-F 2m	£2.09	(€2.46)
DCA4085	IEC M-F 3m	£3.29	(€3.87)
DCA4086	IEC M-F 6m	£5.59	(€6.74)

SCSI II Internal Ribbon Cables			
DCA3916	w/3 x DC 50s-45cm	£1.95	(€2.29)
A3914	w/4 x DC 50s-45cm	£2.79	(€3.28)
DCA3918	w/5 x DC 50s-45cm	£3.95	(€4.64)
DCA3971	w/6 x DC 50s-45cm	£4.99	(€5.86)

**IDE Hard Drive Cables**

DCA3919	Single IDE HD-40cm	£1.99	(€1.99)
DCA3920	Dual IDE HD-60cm	£1.99	(€2.34)

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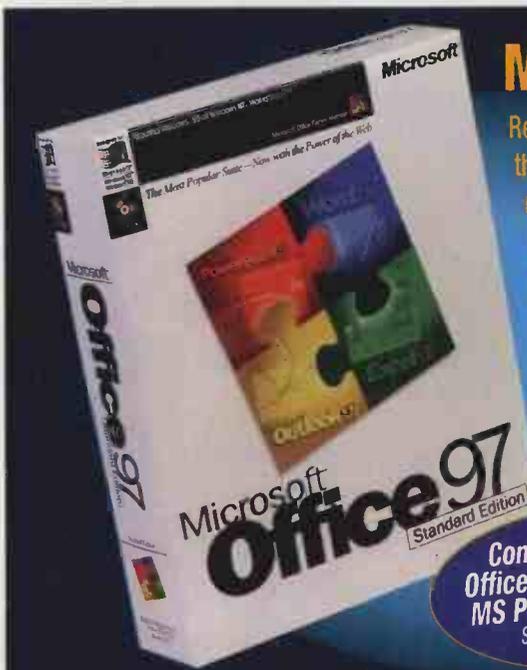


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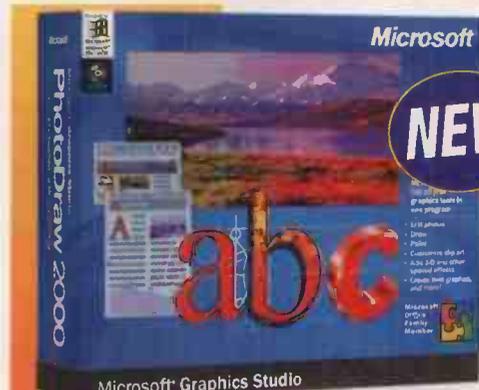
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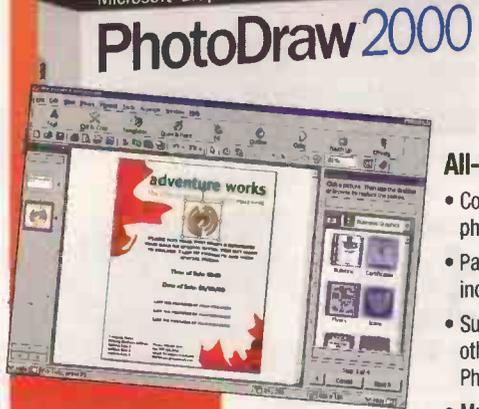


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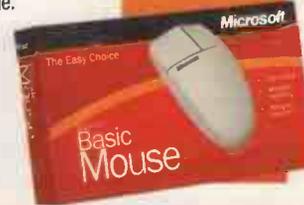


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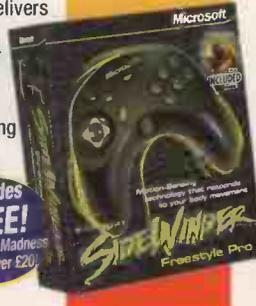
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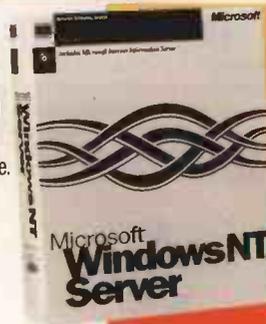
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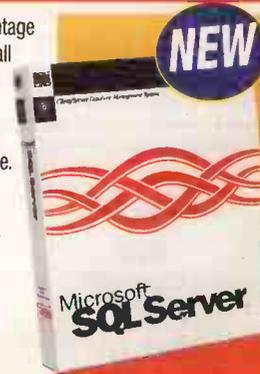
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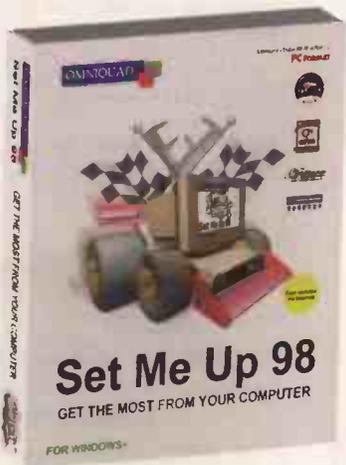
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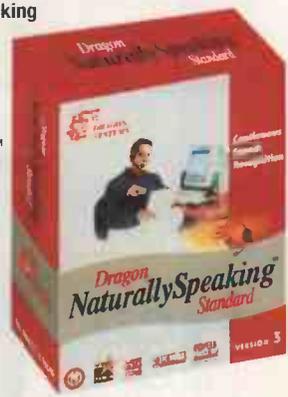
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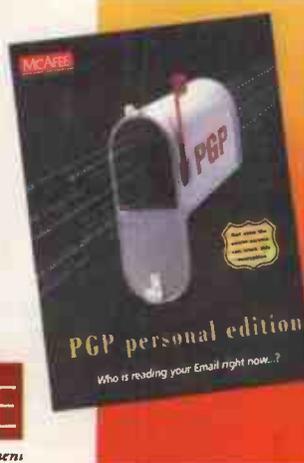
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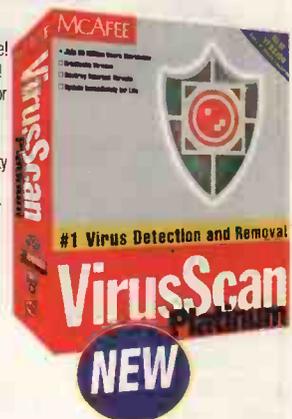
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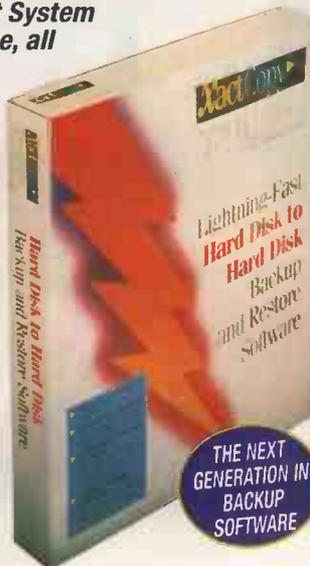


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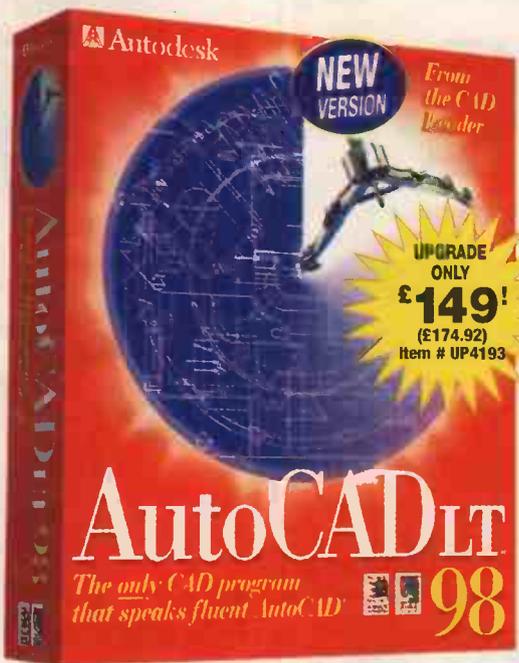
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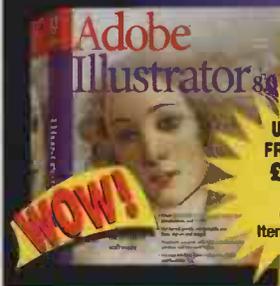
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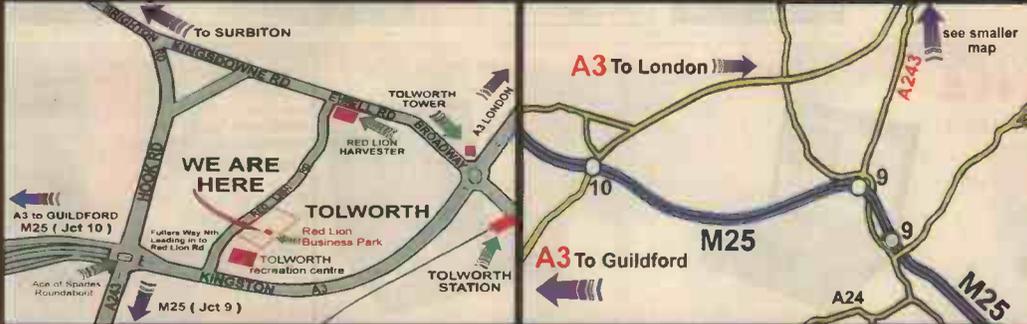


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7330T P150 TFT	£1498	£1760.15
7350MT P166 TFT	£1649	£1937.57
7360DMT P200 TFT	£1739	£2043.32
7370DMT P233 TFT	£1899	£2231.32
7380DMT P266 TFT	£2149	£2525.07
7710MT P150 TFT	£1575	£1850.62
7750MT P166 TFT	£1699	£1996.32
7770MT P233 TFT	£1799	£2133.82
7790MT P233 TFT	£2159	£2536.82
7792DMT P266 TFT	£2325	£2731.87
S8520 P200 DSTN	£1299	£1526.32
S8523 P233 DSTN	£1449	£1702.57

#### HEWLETT PACKARD

2100 P200MMX	£1099	£1291.32
2100 P233MMX	£1549	£1820.07
2100 P1123	£1349	£1585.07
2100 P1123	£1449	£1702.57
2100 P1126	£1599	£1878.82
2100 P1130	£2175	£2555.62
3100 P266MMX	£2149	£2525.07
4100 P266MMX	£2299	£2701.32
4100 P1123	£2099	£2466.32
4100 P1126	£2399	£2818.82
4100 P1130	£2149	£2525.07
4100 P1130	£2699	£3171.32
7100 P1126	£2799	£3298.82
7100 P1126	£2999	£3485.07
7150 P1130	£2949	£3465.07
Sojourn P233MMX	£2349	£2760.07

#### olivetti

P233 32 2.0 12.1	£999	£1173.82
P1123 32 3.0 13.3	£1449	£1702.57
P1126 32 3.0 13.3	£1599	£1878.82
Echos P200 DSN	£799	£938.82
Echos P200 TFT	£949	£1115.07

#### Twinhead

SLE2 233 2 XGA	£1499	£1761.32
SLE2 233 2 DVD	£1725	£2026.87
SLE2 233 2 64 XGA	£1599	£1878.82
SLE2 233 3 64 DVT	£1795	£2109.12
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SLE2 266 4 64 DVD	£2149	£2525.07
SLE2 266 6 64 XGA	£1999	£2348.82
SLE2 300 3 64 XGA	£1999	£2348.82
SLE2 300 4 64 XGA	£2149	£2525.07
SLE2 300 4 64 DVD	£2349	£2760.07
SLE2 300 6 64 XGA	£2249	£2642.57
SLE2 300 6 64 DVD	£2399	£2818.82

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Minerva MT-6670	£949	£1115.07
Minerva MT-6680	£1049	£1232.57
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ERA 1100	£1499	£1761.32
ERA 1000	£1399	£1643.82

#### Handhelds

#### CASIO

Cassiopia E-10		
Windows CE v2.0	£249	£292.57
Cassiopia A-20		
Windows CE v2.0	£285	£334.87

#### IK Robotics

PalmPilot Personal	£108	£126.90
Professional	£158	£185.65
PalmPilot III	£205	£240.87

#### Carry Cases

#### Targus

Air Universal	£69	£81.07
Digital Camera	£34	£39.95
Folio Pac 3	£34	£39.95
Leather Wallet	£18	£21.15
Leather Mini Notebook	£28	£32.90
Leather Notebook	£68	£79.60
Leather Organizer	£34	£39.95
Leather Portfolio	£48	£56.40
Notepac	£25	£29.37
Notepac Plus	£48	£56.40
Pilot	£34	£39.95
Universal Notebook	£48	£56.40
Universal Deluxe	£68	£79.60

#### Accessories

#### Xircom

RealPort 10/100 + Modem 56 PC Card	£195	
CEM56-100BTX	£185	
CE3-100BTX	£94	
CM56	£135	

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- PII 266 MMX, 64 Mb
- 13.3" XGA TFT Colour Screen
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**£2329 ex vat**  
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- 12.1" DS Colour Screen
- 1 Year WorldWide warranty

**£915 ex vat**  
**£1075.12 inc vat**

### LIBRETTO 100CT

- P120 MMX, 16 Mb
- 6.1" TFT Screen
- 1.5GB Hard Drive
- Floppy Drive inc.
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**£1075 ex vat**  
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## COMPAQ WHICH COMPAQ ARMADA IS RIGHT FOR YOU?

### Armada 1700 Series

The Armada 1700 offers the latest key technologies. The advanced MultiBay design supports an optional second hard drive, LS120 SuperDisk drive, Zip drive or DVD drive. These can be configured in seconds to help store, manage and transfer information.

**Premium N 233 Model**

- PII 233MHz, 32Mb SDRAM, 4GB Hard drive
- 12.1" CRTFT XGA
- 24x CD-ROM standard (optional DVD-ROM drive)
- Optional 2nd Li-Ion battery
- Optional 56K fax modem
- MS Windows 95 or Windows 98

### Armada 6500 Series

The Armada 6500 is a slim notebook offering a large 14.1" display for impressive 'off the screen' presentations. The internal MultiBay supports CD-ROM drive, FDD, DVD drive, LS120 SuperDisk drive or a second HDD.

**Premium 510 Model**

- PII 300MHz, 64Mb SDRAM, 6.4GB Hard drive
- 14.1" CRTFT XGA
- 24x CD-ROM standard
- Integrated 56K modem
- Network connection integrated 10/100Mb/s
- MS Windows 95 or Windows NT

### Armada 7800 Series

For users requiring the highest performance the Armada 7800 narrows the gap between desktop and mobile computing by offering the largest hard drives, screens and memory expansion options of the entire Compaq Armada product range.

**Premium 800 Series**

- PII 266MHz, 64Mb SDRAM, 5GB Hard drive
- 13.3" CRTFT XGA
- 20x CD-ROM, 1.44Mb FDD standard
- Optional 2nd HDD, 2nd Li-Ion battery
- DVD-ROM drive, LS-120 drive
- MS Windows 95 or Windows NT

P200MMX 3.2 32 12.1	£1049	£1232.57
P233MMX 4.0 32 13.3	£1279	£1502.82
Armada 1700 Series		
PII233MHz 4.0 32 12.1	£1349	£1585.07
PII266MHz 4.0 32 13.3	£1635	£1921.12
PII300MHz 5.0 32 14.1	£1945	£2285.37
Armada 3500 Series		
PII266MHz 4.1 32 12.1	£1719	£2019.82
PII266MHz with NT 4	£1809	£2125.57
PII300MHz 6.4 64 13.3	£2209	£2595.57
PII300MHz with NT 4	£2295	£2696.62
Armada 6500 Series		
PII300MHz 6.4 64 14.1	£2999	£3523.82
Armada 7400 Series		
PII266MHz 4.0 32 13.3	£2029	£2384.07
PII266MHz with NT 4	£2119	£2489.82
PII300MHz 6.4 64 13.3	£2475	£2908.12
PII300MHz with NT 4	£2559	£3005.82
Armada 800 Series		
PII 266MHz 5.0 64 13.3	£2199	£2583.82
PII 266MHz 5.0 64 13.3	£2295	£2696.62
PII 266MHz 8.0 64 14.1	£2649	£3112.57
PII 266MHz 8.0 64 14.1	£2739	£3213.32
PII 300MHz 8.0 64 14.1	£2999	£3523.82
PII 300MHz 8.0 64 14.1	£3089	£3629.57

## ThinkPad

### Extreme performance and technology

Once again, IBM leads the way by engineering the industry's most advanced technology into one sleek notebook - new ThinkPad 770 models include Intel Mobile Pentium II processors at 300MHz, up to an incredible 8.1GB internal storage (upgradeable to 16.2Gb with a second 8.1Gb hard disk drive), up to 128Mb standard high-speed SDRAM memory and more.

	ex vat	inc vat
TP380-HGO	£1549	£1820.07
TP380-JGO	£1899	£2231.32
TP380-FGO	£1799	£2113.82
TP560-900	£1499	£1761.32
TP560-800	£2049	£2407.57
TP600-410	£2249	£2642.57
TP600-510	£2299	£2736.32
TP600-450	£2649	£3112.57
TP600-550	£2849	£3347.57
TP770-510	£2449	£2877.57
TP770-5A0	£2999	£3523.82
TP770-7A0	£3199	£3758.82
TP770-7A0	£3375	£3965.62
TP770-7B0	£3349	£3935.07

## HEWLETT PACKARD

### Expanding Possibilities

### OmniBook 5700

- Intel Pentium 166 MMX processor
- 32-bit PCI Bus architecture
- Cache 32 KB Level 1 on MMX processors
- 12.1" SVGA TFT
- 20 x CD ROM drive (optional for £100+vat)
- 2.0Gb Enhanced-IDE hard drive
- Removable 3.5" 1.44Mb drive
- 16Mb of enhanced Fast Page RAM.
- PC card Slots 1 PCMCIA or CardBus Type III, or 2 PCMCIA or CardBus Type II
- Windows 95
- TrackPoint III pointing device
- HP's legendary WorldWide 3 Year Warranty

HEWLETT PACKARD 5700	£799 ex vat
	£938.83 inc vat
HEWLETT PACKARD 5700CD	£899 ex vat
	£1056.33 inc vat

## Acer A fresh perspective.

### TravelMate 310 from

**£749 ex vat**  
**£880.07 inc vat**

The TravelMate 310 series notebooks are under half the size and half the weight of conventional notebooks with all the features & performance you'd expect from a full size notebook.

- Small, portable sub-notebook
- Full Microsoft Win 95/98 & NT compliant
- Feature rich but compact and light

### Extensa 500 from

**£899 ex vat**  
**£1056.32 inc vat**

The new Extensa 500 Series notebooks encompass convenient "all-in-one" features and state-of-the-art audio technology, with "PlayNow" design for playback of music CD's with system on or off.

- All-in-one modular design, Inc FDD, HDD & CD-ROM
- State-of-the-art audio technology, with "PlayNow" design for playback of music CD's with system on or off
- Heuristic Power Management for longer battery life
- Integrated 56Kbps modem

### Extensa 710 from

**£1299 ex vat**  
**£1526.32 inc vat**

The new Extensa 710 series - convenient "all-in-one" features, a Pentium II processor, and up to 5 hours battery life makes this the perfect notebook PC.

- Modular system for fast & efficient switching of devices - CD-ROM, DVD-ROM, LS-120, 2nd FastBack HDD
- Heuristic Power Management for longer battery life
- Network ready docking station and LDCM support
- 13.3" XGA TFT display for high quality resolution (TE)



# THE AWARD WINNING NOTEBOOKS



## Why buy an ANR?

ANR is a company that moves with the latest technology. Our philosophy is to produce advanced specification notebooks incorporating the latest standards in mobile computing and bring them to the marketplace ahead of our competitors. Our prices are very competitive, whilst not compromising quality for price. All our products offer upgradeability and flexibility, using only the finest brand named components. ANR has been recognised as the notebook manufacturer that offers high specification and top performance notebooks, coupled with first class back-up and support programmes, at a very competitive price.

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### NEUTRON MMO

- Intel Mobile Module Processor with MMX
- Intel Triton 82430 TX Chipset - PCI Bus
- 12.1" SVGA (1024 x 768) TFT Display
- 32Mb SDRAM (Upgradeable)
- 512Kb Level 2 Cache
- 2.1GB Toshiba E-IDE Hard Drive (Upgradeable)
- 24 x CD-ROM & 1.44Mb FDD
- 16 Bit Stereo Sound with Wavetable & SRS 3D Sound
- 2 PCMCIA Type II or 1 Type III Slot
- Lithium Ion battery
- USB Port
- Weight 2.9Kg
- Dimensions 303 x 234 x 51.5mm
- MS Windows 95 Pre-loaded
- Lotus SmartSuite Software bundle
- International AC Adapter
- Deluxe Carry Case
- 1 Year Worldwide Warranty (Courier Collect & Return)

### NEUTRON PII

- Intel Mobile Module Processor with Pentium II
- Intel Triton 82430 TX Chipset - PCI Bus
- 12.1"/13.3" SVGA (1024 x 768) TFT Display
- 48Mb SDRAM (Upgradeable)
- 512Kb Level 2 Cache
- 3.2GB Toshiba E-IDE Hard Drive (Upgradeable)
- 24 x CD-ROM & 1.44Mb FDD
- 16 Bit Stereo Sound with Wavetable & SRS 3D Sound
- 2 PCMCIA Type II or 1 Type III Slot
- Lithium Ion battery
- USB Port
- Weight 2.9Kg
- Dimensions 303 x 234 x 51.5mm
- MS Windows 95 Pre-loaded
- Lotus SmartSuite Software bundle
- International AC Adapter
- Deluxe Carry Case
- 1 Year Worldwide Warranty (Courier Collect & Return)

### PHOTON PII

- Intel Mobile Module Processor with Pentium II
- Intel Triton 44313 X Chipset - PCI Bus
- 13.3"/14.1" XGA (1024 x 768) TFT Display
- 64Mb SDRAM (Upgradeable to 96Mb)
- 512Kb Level 2 Cache
- 3.2GB Toshiba E-IDE Hard Drive (Upgradeable)
- 24 x CD-ROM & 1.44Mb Floppy Drive
- 17mm DVD Module (optional)
- 16 Bit Stereo Sound with Wavetable & SRS 3D Sound
- 2 PCMCIA Type II or 1 Type III Slot
- Lithium Ion 45W Battery
- USB port
- Dimensions 316 x 250 x 34mm
- MS Windows 95 Pre-loaded
- Lotus SmartSuite Software bundle
- International AC Adapter
- Deluxe Carry Case
- 1 Year Worldwide Warranty (Courier Collect & Return)

## ANR NOTEBOOKS ALL FEATURE AS STANDARD

Intel Mobile Processor  
Fast Neomagic Graphics Accelerator  
Toshiba Hard Drives

Low Cost Upgrades  
Next Day Delivery  
1 Year International Warranty

Smart Li-ion Battery  
Lifetime Technical Support  
14 Day Money Back Guarantee

Windows 98 available with all Notebooks.

	ex vat	inc vat	ex vat	inc vat
<b>NEUTRON MMO RANGE</b>				
P233 MMO	£999	£1173.82		
P266 MMO	£1049	£1232.57		
<b>NEUTRON PII</b>				
P233 MMO	£1399	£1643.82	£1479	£1737.82
P266 MMO	£1499	£1761.32	£1649	£1937.57
P300 MMO	£1699	£1996.32	£1849	£2172.57
<b>PHOTON PII RANGE</b>				
P233 MMO	£1749	£2055.07	£1899	£2231.32
P266 MMO	£1899	£2231.32	£1999	£2348.82
P300 MMO	£2049	£2407.57	£2199	£2583.82

## ALL ANR NOTEBOOKS ARE YEAR 2000 COMPLIANT!!



### CREDIT EXAMPLE:

Neutron P233 MMO £1173.82 - £117.38 deposit. Then after 6 months pay £1056.44 & no interest or choose to repay by 36 payments of £41.37 Total repayable £1489.57 A.P.R.26.9% Finance subject to status written quotation available on request. OTHER FINANCE SCHEMES AVAILABLE WRITTEN DETAILS ON REQUEST.

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## SONY VAIO

"The road warrior's ultimate dream machine."

### The 700 Series

- Pentium 233 MHz with MMX Technology
- 32-128Mb SDRAM
- 2.1GB Hard Drive
- 12.1" TFT Colour display
- Multi-purpose drive bay for CD-ROM, Floppy drive or optional second battery
- Built-in 56K/ GSM ready/ ISDN ready/ Ethernet ready fax Modem
- Built in Speakers, microphone for multimedia applications
- Lithium-ion battery, Windows 98 pre installed
- Dimensions: 297 x 38 x 214mm (W x H x D) - Weight 2.5kg

## The 500 Series - The World's Thinnest Notebook!

- Pentium 233 MHz with MMX Technology
- 32-96Mb SDRAM
- 2.1GB Hard Drive
- 10.4" TFT Colour display (800 x 600 dpi)
- External CD-ROM drive / Floppy drive
- Built-in 56K/ GSM ready/ ISDN ready/ Ethernet ready fax Modem
- Cables required for above: GSM £75 + vat, ISDN £89 + vat
- 16-bit Sound Blaster compatible "SONY" MPEG1 Digital Video with full screen play-back, Built in Microphone, 1 built in Speaker
- PC Card 1x type II
- Lithium-ion battery, Windows 98 pre installed
- Dimensions: 259 x 23.9 x 208mm - Weight: 1.35kg

Model	Processor	RAM/Max	HD	CD-ROM	Display	Modem	ex vat	inc vat
VAIO 735	233MHz P/MMX	32/128Mb	2.1GB	YES	12.1" HPA	56K	£1195	£1404.12
VAIO 737	233MHz P/MMX	32/128Mb	2.1GB	YES	12.1" TFT	56K	£1425	£1674.37
VAIO 505	233MHz P/MMX	32/96Mb	2.1GB	Ext	10.4" TFT	56K	£1799	£2113.82

## SHARP

PCWEEK Winners Circle £299.99

11.3" TFT SCREEN

- Pentium 233MMX
- 64Mb RAM
- 3.2GB Hard Drive
- 11.3" active matrix LCD
- Dimensions: 259 x 206 x 21.2mm
- USB port, VGA monitor port, & an expansion PC Bus (included) for a combined FDD, serial, printer and mouse/keyboard port.

### SHARP ULTRALITE NOTEBOOKS

PCA 100 Ultra Lite Notebook excluding CD player	£1699	£1996.32
PCA 100B as above plus PCMCIA CD player	£1799	£2113.82
PCA 150 as above except P266, 4.3Gb HDD, no CD	£1799	£2113.82
PCA 150 as above except P266, 4.3Gb HDD & CD	£1899	£2231.32

The PC-A100 UltraLite sets the standard for a new class of lightweight notebook. The fully featured B5 sized PC weighs just 1.4kg & is less than one inch thick. It is the only machine in it's class to offer a super bright 11.3" SVGA TFT display & a CRT port on the main unit for presentations. It is designed for mobile professionals looking for full computing power with an ultra-light form-factor with an extended battery life of up to 8.5 hours. Measuring 259x206x21.2mm, it is one of the thinnest, most portable yet fully featured products on the market. It offers a USB port, VGA monitor port, & an expansion Bus (included) for a combined FDD, serial, printer & mouse/keyboard port. These features, combined with an 89% sized keyboard and a powerful 233MHz Pentium processor with MMX technology, give users a full-featured, mobile computing solution, in a very lightweight & compact package. The PC-A100 Includes a revolutionary Sharp 11.3" SVGA TFT LCD screen. The screen, which shows more than 65,000 colours, is the largest screen available in the B5 notebook class & is ideal for presentations and multimedia. It also comes with 64MB of EDO RAM & a 3.2GB hard drive for maximum power in it's class. It is supported by a three year courier collect & return service at Sharp's cost in the UK. In addition a one year bundled software support cover, LCD & battery cover is also included.

## HC-4500A

- 16Mb RAM
- 6.5" Colour screen
- 410g weight
- HC-4100 £325 + vat
- NiMH battery
- Touch screen with pen
- 1 Type II PCMCIA slot

### SHARP HC-4500A

£399 ex vat  
£468.82 inc vat

CE-AG404 PCMCIA Digital camera £275+vat

## olivetti

COMPUTERS WORLDWIDE

TFT for just £849 ex vat

The ECHOS 1200 is our top selling entry level notebook. It boasts an array of features all backed by the build quality you have come to expect from the Olivetti brand. The ECHOS 1200 is closely followed by the Xtrema Pentium MMX models.

Xtrema is our top-of-the-range notebook, featuring Intel's Pentium® MMX™ technology and Pentium® II processors, making it the perfect multimedia and communications desktop alternative for the executive on the move.

1200	200MMX	12.1" TFT	2.0GB	20X	32MB	2MBVRAM	£849	£997.57
1235	233MMX	12.1" TFT	2.1GB	24X	32MB	2MBVRAM	£999	£1173.82
1265	266MMX	12.1" TFT	2.1GB	24X	32MB	2MBVRAM	£1075	£1263.12

Olivetti also offer a comprehensive range of accessories for both the ECHOS & the Xtrema series. Please call us for pricing or more details on any of the following:  
MultiMedia Docking station, Port Replicator, memory expansion modules, Car adapter, carrying cases or extra battery packs.

323S	PII266	12.1" TFT	2.1GB	24X	32MB	2MBVRAM	£1199	£1408.82
423S	PII233	12.1" TFT	3.0GB	20X	32MB	2MBVRAM	£1299	£1526.32
426S	PII266	12.1" TFT	4.0GB	20X	32MB	2MBVRAM	£1499	£1761.32
423X	PII233	13.3" XGA	3.0GB	20X	32MB	2MBVRAM	£1399	£1643.82
426X	PII266	13.3" XGA	3.0GB	20X	32MB	2MBVRAM	£1549	£1820.07
426X	PII266	13.3" XGA	6.0GB	20X	64MB	2MBVRAM	£1699	£1996.32

### BABY ZIP

Portable Zip Drive

AMACOM

KEY FEATURES

- Powered directly from computer
- Uses standard omega 100Mb Zip disks
- PCMCIA connection or optional parallel port cables
- 16 bit data transfer - up to 3.3Mb/sec
- Automatic media verification during format
- No specific drivers required (Win 95), real Plug & Play

£186.82

### FLIP DISK

Portable Hard Drive

KEY FEATURES

- No Power or interface cables required
- Instantly increase your hard disk capacity
- PCMCIA interface - Plug & Play
- Up to 12.8GB using Novadisk compression software
- Store & run programs & files
- Transfer data between Laptop or Desktop\*

\*Requires optional Parallel port cables

2.1 - 4.2GB	£295	£311.37	Novadisk Software	£19.95	£23.44
3.2 - 6.4GB	£299	£351.32	Parallel/Power Cables	£20.95	£35.19
4.0 - 8.0GB	£305	£452.37			
6.4 - 12.8GB	£475	£558.12			

### BRAVO DRIVE

Portable CD ROM & Audio Player

KEY FEATURES

- 20 Speed Unit
- No need for bulky mains adaptors, powered from your computer
- Mobile Audio CD player
- Fully hot swappable
- Up to 3Mb/sec (20 speed unit)
- Easy to install software drivers
- Can also be used with mains adaptor or 6 AA batteries (not supplied)

£205.62

### EZCD

Portable Drives Parallel Port & PCMCIA

EZCD Parallel X24	£79	£92.82
EZCD Parallel X32	£85	£99.87
EZCD Parallel Sound X24	£129	£151.57
EZCD Parallel Sound X32	£135	£158.62
EZCD Card PCMCIA X24	£95	£111.62
EZCD Card PCMCIA X32	£98	£116.32



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**PSION SERIES 5**

Take your office wherever you go. The PSION SERIES 5 gives you the computing power you need without the excess weight. With a fully featured, built in time manager, contact database, voice recorder and drawing package, the SERIES 5 is as valuable personally as it is professionally.

4MB	£285	£334.87
8MB	£295	£346.62

**digital HI-NOTE ULTRA 2000**

The truly revolutionary DIGITAL HiNote 2000 notebook will change the way you look at notebooks forever. It's the first premium notebook to offer a 14.1" XGA TFT display, and sizzling performance in a thin and light form factor.

- 14.1" XGA TFT Screen
- 166MHz Pentium processor with MMX technology, 512K L2 cache
- Outstanding graphics with 2MB VRAM
- 3.2 GB storage; user-removable hard disk drive
- Long life Lithium Ion battery
- Only 33mm thin and weighing only 3.0 kilos
- Windows95 and Windows NT Workstation 4.0 configurations available
- 32MB EDO RAM (max configuration 144MB)
- Three year limited international warranty

HiNote Ultra 2000	166MMX,32Mb,14.1TFT,3.2Gb,20xCD,33.6modem	£2299	£2701.32
HiNote Ultra 2000	233MMX,32Mb,14.1TFT,4Gb,20xCD,56Kmodem	£2599	£3053.82
HiNote Ultra 2000	266MMX,32Mb,14.1TFT,4Gb,20xCD,56Kmodem	£2999	£3523.82
HiNote VP717	200MMX,32Mb,12.1TFT,2.1Gb,20xCD	£1499	£1761.32
HiNote VP745	266MMX,32Mb,13.3TFT,4.0Gb,20xCD	£2299	£2701.32
HiNote VP765	P11266MMX,32Mb,13.3TFT,4.0Gb,20xCD,modem	£2599	£3053.82

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- HP 360LX Palmtop PC
- HP 620LX Palmtop PC

£65	£76.38
£6	£7.05
£45	£52.88
£59	£69.33
£89	£104.58
£159	£186.82
£339	£398.32
£469	£551.07

**SIEMENS NIXDORF**

The Siemens Nixdorf SCENIC Mobile 710 notebook provides the ultimate high end multimedia notebook solution. Unique Pro view model comes with detachable screens allowing you to deliver professional presentations in conjunction with an OHP display unit. You simply remove the 12.1" TFT SVGA display, place it on the projector and start your presentation. The projector in combination with Full screen/Full motion MPEG video playback and stereo audio function gets your message across in a big way!!

P233MMX	3.0Gb	12.1" Removable	32Mb	Win95	20x	£2195	£2583.82
P233MMX	3.0Gb	12.1" Removable	32Mb	WinNT	20x	£2295	£2701.32

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Today's Portable Computing

**LG H120S Handheld PC**

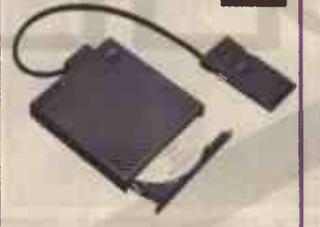
- 2.0 optical drive
- Pocket word, excel, Powerpoint Viewer, Explorer & Schedule
- 12.1" LCD screen and large keyboard
- Built-in VGA for full colour Powerpoint
- 16Mb ROM inc. Pre-installed applications
- PCMCIA & Compact flash expansion slots

£339 ex vat £398.32 inc vat

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**Nova - cdMAX** £165 £193.87



**Lightest Smallest 20X CD-ROM Audio 'Diskman' Style Function High Speed Data Transfer 3.3Mb/s**

**Nova - zipMAX** £169 £198.57



**Compact Design, Pocket Size ZIP Drive Works With All Manufacturers ZIP100 Disks Data Transfer As Fast As A Notebook HDD**

**Nova - diskMAX** £199 £233.82

2.1Gb

3.2Gb 4.1Gb

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£323.12 £468.83

**Pocket Size Design Mobile Hard Drive Large True Capacity 5Gb Plus High 16Bit Data Transfer 3.3Mb/s +**

ALL NOVAMAX PRODUCTS ARE: PCMCIA TYPEII COMPATIBLE. WINDOWS 95 PLUG AND PLAY AND COVERED BY FREE TECHNICAL SUPPORT AND A 3 YEAR WARRANTY

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**RM OPTIONS** 2.1Gb 3.0Gb 4.0Gb 5.0Gb 6.0Gb 8.0Gb

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**KENSINGTON**

Microsaver Notebook lock £35 ex vat £41.12 inc vat

SaddleBag (Brown) & (Black) £49 ex vat £57.58 inc vat

Leather Bag £69 ex vat £81.08 inc vat

The Kensington Leather Carrier is a two compartment design featuring separate padded computer and printer compartments. It's numerous inside pockets hold a variety of business, computing and personal accessories

Sky Runner £39 ex vat £45.82 inc vat

- Top-loading design means ease of use in any working environment
- Single zipper access to three large interior compartments is fast and convenient
- Dimensions 17.50"L x 6.50"W x 12.25"H
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**5**

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## Projectors

InFocus	ex vat	inc vat
LP225		
350Lumens SVGA	£1499	£1761.32
LP725		
750Lumens SVGA	£3299	£3876.32
LP735		
650Lumens XGA	£4399	£5168.82
LP1000		
1000Lumens XGA	£7599	£8928.82
LP740		
650Lumens SXGA	£1499	£1761.32
1yrs FREE Insurance on all INFOCUS Models.		
<b>ASK</b>		
ASK 880	£1749	£2055.07
ASK 970	£3450	£4053.75
ASK A4+	£3499	£3993.82
ASK A6+	£4249	£4992.57
A10	£7399	£8693.82
ASK 1280	£1895	£10216.62
<b>MITSUBISHI</b>		
LVP-X100E	£3999	£4228.82
<b>NEC</b>		
MT820 SVGA	£1145	£3695.37
MT1020 XGA	£1995	£4576.62
<b>PROXIMA MULTIMEDIA PROJECTORS</b>		
DS1	£2995	£3284.12
DP5800	£2545	£2990.37
DP5900	£3299	£3876.32
DP9200	£3899	£4581.32
<b>PHILIPS</b>		
4100	£1999	£2348.82
4650 Endurance	£2695	£3166.62
4650 Impact	£2795	£3284.12
4750	£4595	£5399.13
<b>SANYO</b>		
PLC-8605 SVGA 700	£2195	£3754.12
PLC-8805 XGA	£3895	£4576.62
PLC-8815 XGA 600	£4395	£5164.12
PLC-9005 XGA 1800	£6595	£7749.12
<b>SONY</b>		
CPJ-D500	£1099	£1291.32
VPL-5600 SVGA 65	£3949	£4640.07
VPL-7600 XGA 600	£4599	£5403.82
<b>ViewSonic</b>		
PJ800	£2999	£3529.82
PJ802	£2849	£3347.57
PJ1000	£4299	£5051.32

## Video Conferencing

Connectix	ex vat	inc vat
QuickCam VC USB	£73	£85.77
QuickCam VC	£73	£85.77
<b>Software</b>		
Digital Radar	£18	£21.15
PhotoBadge	£18	£44.65
Wig Out	£18	£21.15
<b>CREATIVE CREATIVE LABS</b>		
VideoBlaster		
WebCam II	£54	£63.45
<b>intel</b>		
Create & Share USB	£98	£115.15
Create & Share PCI	£138	£162.15
ProShare Video Conferencing 200	£795	£699.12
ProShare Video System 200	£899	£985.82
<b>Kodak</b>		
DVC323 Desktop USB	£125	£146.87
<b>pace</b>		
Desktop Colour Camera USB	£68	£79.90
<b>VideoLogic</b>		
Captivator PCI/VC	£145	£170.37



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## InFocus



**Presents The Smallest multi-media projector in the World.**

### the AWARD WINNING LP425

Portability & Powerful Performance from **InFocus** the World's Largest manufacturer of data/video projectors

**7 Day No Quibble Money-Back Guarantee.**

**InFocus LP425**  
 £2999 ex vat £3523.82 inc vat



## DLP LP425 Spec

- 3.1Kg
- 700 ANSI Lumens
- SVGA (800 x 600)
- Plug & Project
- Full Video Compatibility
- Soft Carry Case
- 1 Years **FREE** Insurance
- 2 Year Warranty

### Personal Pack

Includes remote mouse **InFocus** cable wizard, Dual carry case (Laptop & Projector).

£275 ex vat £323.12 inc vat

## DMS

**DL450 PERSONAL PROJECTOR GOES WHERE YOU GO... EASILY.**

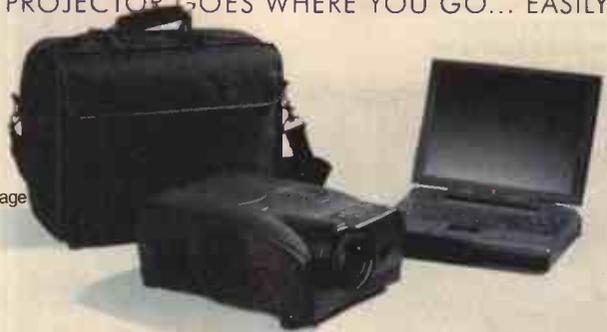
- Weight: Lightweight 9.9 pounds
- Brightness: 500 ANSI lumens
- Colour Palette: 16.7 million colours (24-bit)
- Display: Single-Chip DMD (Digital Mirror Device)
- Projection Lamp: 120-watt Metal Halide
- Lamp Life: 2000 hours
- Projection Lens: Motorized zoom 1.2:1.7 with 17-degree keystone adjusted image
- Image Configuration: Plug & Project auto image positioning, auto-tracking and auto synchronization
- Audio System: Built-in 10-watt loudspeaker
- Warranty: 2 Year, 24 hour swap out warranty
- Guarantee: 7 Day No Quibble Money Back
- TV Tuner: Includes built-in TV tuner

DL650 Same as above except

- XGA resolution
- Bright 800 ANSI Lumens

**DMS DL650**  
 £3899 ex vat £4581.32 inc vat

**DMS DL450**  
 £2299 ex vat £2701.32 inc vat



## HITACHI



- True resolution 800 x 600
- Compressed resolution 1024 x 768
- 700 ANSI Lumens
- Remote mouse pointer
- 2w Stereo Speakers
- 16.7 million colours
- Remote control

The CPL850 (800x600 resolution) Hitachi Video data projector has stunning brightness with 700 ANSI lumens, the display on both models is incredible in bright rooms. With Polysilicon technology the projectors will astound and add to every corporate presentation and training session. The other unique feature about this model is that it includes 2 video and 2 VGA outputs.

**HITACHI CPS 830**  
 £2145 ex vat  
 £2520.37 inc vat

**HITACHI CPL 850**  
 £2445 ex vat  
 £2872.87 inc vat

**HITACHI CPX 950**  
 £3299 ex vat  
 £3876.32 inc vat

### PROJECTORS FOR HIRE BY TECH DIRECT

	VGA	SVGA	XGA
Per day	£125 ex vat £146.87 inc vat	£150 ex vat £176.25 inc vat	£225 ex vat £264.37 inc vat
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## SHARP

**XGA INTELLIGENT COMPRESSION**



**300" SVGA AMP AUTO**  
 762 cm 800 X 600 SPEAKER Table Top Ceiling VOLTAGE

### XG-NV2E

**SHARP's NEW Compact Full SVGA High-Resolution Data Projector with 700 ANSI Lumen Brightness Expands Multimedia Presentation Possibilities.**

- 700 ANSI Lumens Brightness
- Full SVGA (832 x 624) High Resolution Images
- XGA (1024 x 768) Compression
- Wireless Remote Control with Mouse Control, Laser Pointer and Backlit Functions
- Built-in Amplifier and Stereo Speakers
- Large 300", 16.7 million Full-colour projection
- **NEW!** XGN-V3E £3945 + vat

**SHARP XG-NV2E**  
 £2899 ex vat  
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**EPSON**



**NEW EPSON EMP7300**

**NEW Projector Ultra Bright 1200 ANSI Lumens**



**BRING YOUR PRESENTATIONS TO LIGHT.**

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- How to set up your Epson Projector
- Features of EMP5100 & 7100
- How to best use your Epson Projector
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- Ultra Compact multimedia projector
- XGA 1024 x 768 Resolution
- Supports SXGA, SVGA and VGA
- Ultra bright 1200 ANSI Lumens
- Surround Sound audio capability
- Multiple Input Sources with Auto Recognition
- World Wide video format support
- Automatic setup, resizing and positioning
- Weighs only 6.2Kg
- Remote Control Operation from up to 10m

**EPSON EMP 7300**  
£6749 ex vat  
£7930.07 inc vat

**EPSON EMP 5500**  
£3299 ex vat  
£3876.32 inc vat

**NEW Projectors Ultra Light Ultra Bright 750 ANSI Lumens**

Check Out [www.maverick.co.uk](http://www.maverick.co.uk) for specs on lots more projectors.

The EPSON EMP 5100 & 7100 enable you to project screen images directly from your computer (laptop, Mac or workstation) and incorporate graphics, animated sequences, even live video - all with superb stereo sound. As brand leader EPSON are always at the forefront of development, using new lamp technology the EMP7300 shown above produces an amazing 1200 ANSI Lumens making it the brightest compact available.

**EPSON EMP-7100**

**XGA RESOLUTION**  
*Compact, light and ultra bright*

- XGA resolution with VGA, SVGA and SXGA support
- Weighs only 6.7 Kg
- 650 ANSI lumens
- Advanced connectivity
- Auto Source recognition
- Rear and ceiling projection
- Stereo Speakers

**£4299 ex vat**  
£5051.32 inc vat

**EPSON EMP-5100**

*Compact, light and ultra bright*  
**SVGA RESOLUTION**

- SVGA with XGA and VGA support
- Weighs only 6.6 Kg
- 750 ANSI lumens
- Multi-connectivity
- Stereo Speakers
- Remote Control

**£3299 ex vat**  
£3876.32 inc vat

**CTX**



**CTX - Can now offer a comprehensive range of Projectors - for every budget and every application.**

Model	Weight	ANSI	Resolution Lumens	Lamp Type	Elevation & Keystone	Image Size	Power	PC & Mac Compatible	FAL/SECAM/NTSC/Composite Video, S-Video	Warranty	
EZ Pro500	4.2Kg	350	640x480	800x600	400watt halogen	Elevation 20 Keystone 25	40-160"	3watts x 2	✓	✓	✓
EZ Pro550	4.2Kg	350	800x600		400watt halogen	Elevation 20 Keystone 25	40-160"	3watts x 2	✓	✓	✓
EZ Pro 550M	4.3Kg	350	800x600	1024x768	250watt metal halide	Elevation 20 Keystone 25	40-160"	3watts x 2	✓	✓	✓
EZ Pro600	5.4Kg	550	800x600	1024x768		Elevation 20 Keystone 25	40-160"	3watts x 2	✓	✓	✓
EZ Pro680	5.4Kg	450	1024x768	1280x1024		Elevation 20 Keystone 25	40-160"	3watts x 2	✓	✓	✓
EZ Pro680M	5.4Kg	450	1024x768	1280x1024		Elevation 20 Keystone 25	40-160"	3watts x 2	✓	✓	✓

**EZPRO 550/550M**



**CTX EZPRO 550**  
£1425 ex vat  
£1674.37 inc vat

**CTX EZPRO 550M**  
£1645 ex vat  
£1932.87 inc vat

- 350 ANSI lumens
- Compact design for portability
- High power, low cost 400W EVD halogen lamp
- Less than half the weight of most LCD projectors
- Pop-up lens folds into projector for extra durability
- Will play from PC, MAC or video source

**EZPRO 500/600**



**CTX EZPRO 500**  
£1049 ex vat  
£1232.57 inc vat

**CTX EZPRO 600**  
£2299 ex vat  
£2701.32 inc vat

- 550 ANSI lumens
- 800 x 600 SVGA resolution
- 1024 x 768 XGA (compressed)
- 16.7 million colours
- Weight 12lbs

**NEW EZPRO 680**



**CTX EZPRO 680**  
£3275 ex vat  
£3848.12 inc vat

- 450 ANSI Lumens target brightness
- 1024 x 768 resolution
- 1280 x 1024 SXGA (compressed)
- Remote Control mouse function
- 16.7 million colours
- SXGA/XGA/SVGA/VGA/ VESA Mac NEC PC - 98/ FM Towns compatible

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**SANYO**

The brightest, most advanced, most versatile and most user friendly RANGE OF LCD PROJECTORS available.



- True XGA resolution of 1024 x 768
- 110W UHP lamp, life span 2000 hrs
- 600 ANSI lumens picture brightness
- Ultra Compact
- Weight 3.9Kg, only 11cm high
- PCMCIA slot

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£2995 ex vat  
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- SVGA resolution of 800 x 600
- New DRIT technology
- 700 ANSI lumens brightness
- 120W UHP lamp, life span 3900 hrs
- Infrared remote control
- 2x data & 2 x video inputs

**SANYO PLC 5605B**  
£3195 ex vat  
£3754.12 inc vat



- True XGA resolution of 1024 x 768
- 110W UHP lamp, life span 2000 hrs
- 600 ANSI lumens picture brightness
- Newly developed control panel
- Image diagonal of up to 16.3m
- Max projection distance of 23m

**SANYO PLC 8815B**  
£4395 ex vat  
£5164.12 inc vat



- True XGA resolution of 1024 x 768
- SXGA Compatible thanks to DRI
- 1500 ANSI lumens brightness
- Complete Workstation Compatibility
- Image size up to 15m (diagonal)
- In-Built Keystone Correction (+/-10°)

**SANYO PLC 9005B**  
£6595 ex vat  
£7749.12 inc vat

**Panasonic**



The high-performance Panasonic PTL 595. Now with a light output of 700 ANSI lumens the PT-L595 has to be one of the best value-for-money projectors.

- True SVGA resolution of 800 x 600
- 280W metal halogen lamp, life span 2000 hrs
- 700 ANSI lumens brightness
- Clever compression of XGA resolution images without loss of data
- Image diagonal of up to 7.6m
- Max projection distance of 16m
- Infrared mouse remote control

**Panasonic PT-L 595**  
£2595 ex vat  
£3049.12 inc vat

**Panasonic PT-L 795**  
£3895 ex vat  
£4576.62 inc vat

**Pioneer**

DRI (Digital Reflective Imaging) projector.

When the best image counts, you need the brilliance of the new DRI - XGA data projector from Pioneer.



- True XGA resolution of 1024 x 768
- 150W Novarc lamp, life span 2000 hrs
- 800 ANSI lumens brightness
- DRI (Digital Reflective Imaging)
- Image diagonal of up to 16.3m
- Max projection distance of 23m

**Pioneer RVD - XG10ED**  
£3595 ex vat  
£4224.12 inc vat

A wide range of screens to accompany every need.

Mobile Screen 90 x 120cm	£275	£323.12
Mobile Screen 120 x 160cm	£325	£381.87
Mobile Screen 125 x 125cm	£275	£323.12
Mobile Screen 160 x 160cm	£375	£440.62
Mobile Screen 130 x 180cm	£399	£468.82
Fast Fold Screen 180 x 240cm	£399	£468.82
Fast Fold Screen 200 x 200cm	£399	£468.82
Fast Fold Screen 250 x 250cm	£475	£558.12
Fast Fold Screen 300 x 300cm	£549	£645.07
Fast Fold Screen 350 x 350cm	£599	£703.82



Desktop video cameras.



**FlexCam Pro**  
The color camera for people, rooms and 3D objects. With PAL composite video and S-Video output signal.

**FlexCam Pro**  
£349 ex vat  
£410.07 inc vat



**FlexCam Scientific Pro**  
The CDD color camera with an 8mm C-Mount lens is especially suited to applications such as the magnification of objects for scientific and medical use.

**FlexCam Scientific Pro**  
£549 ex vat  
£645.07 inc vat



**FlexCam Document Pro**  
High-quality camera especially designed for the presentation and scanning of documents. With Iris for impressive picture quality even in poor light conditions.

**FlexCam Document Pro**  
£549 ex vat  
£645.07 inc vat

**Pioneer**

The Largest & Thinnest XGA 50" Plasma Display Panel



- 40" Full Colour Plasma Display
- 16.7 Million Colours
- 150:1 Contrast ratio
- 400 cd/m<sup>2</sup>
- Composite, RGB, VGA
- Hand-remote and RS-232 control

**Pioneer PDR V50**  
£9495 ex vat  
£11156.62 inc vat

**Pioneer PDR V401E**  
£5095 ex vat  
£5986.62 inc vat



- 42" Plasma Display monitor
- Extra High Contrast Ratio of 400:1
- 16.7 Million Colours
- Totally flat screen for distortion free pictures
- Built-in RGB input for PC Connection
- Wide ranging input capability

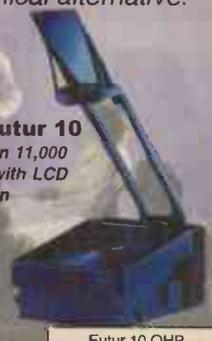
**JVC GD-V425P2W**  
£5699 ex vat  
£6696.32 inc vat

LCD Panels Medium LCD panels with reliable technology - the economical alternative.



**Medium LCD panel SVGA Professional**  
demonstrate your Win 95 files to your audience in full SVGA 800 x 600 pixel resolution.

**SVGA LCD Panel**  
£999 ex vat  
£1173.82 inc vat



**OHP Futur 10**  
More than 11,000 lumens with LCD projection

**Futur 10 OHP**  
£749 ex vat  
£880.07 inc vat



# Canon

Since 1982 Canon (UK) have grown to become a leading supplier of digital cameras, and now they have used their technical innovation to design a range of flatbed scanners which are ideal for use at home or in the office. With a number of high-end features and remarkably low prices these products offer excellent value for money.



- PowerShot A5**  
DIGITAL CAMERA
- Rechargeable NiMH battery
  - Disposable 2CR5 Lithium battery
  - Battery charger/mains adapter
  - 8Mb CompactFlash card
  - Connecting cables
  - Adobe Photoshop Plug-in module

- PowerShot 600**  
DIGITAL CAMERA
- Rechargeable NiCad battery
  - Battery charger/mains adapter
  - Sound recording facility with each image
  - Connecting cables
  - TWAIN driver

- CanoScan 320P**
- 300 x 300 dpi Optical resolution
  - Parallel port interface
  - Will scan 1 sheet of full colour A4 in 60 secs
  - 30 Bit colour scanning
  - LIDE technology allows for more accurate scans & near silent scanning

- CanoScan 620P**
- 600 x 600 dpi Optical resolution
  - Parallel port interface
  - 30 Bit colour scanning
  - LIDE technology allows for more accurate scans & near silent scanning

<b>Canon A5</b>	
£365 ex vat	£428.87 inc vat

<b>PowerShot 600</b>	£499	£586.33
<b>PowerShot 350</b>	£299	£351.32
<b>PowerShot 30T</b>	£199	£233.82

<b>Canon CanoScan 320P</b>	£119.99	£121.12 inc vat
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<b>Canon CanoScan 620P</b>	£139.99	£139.82 inc vat
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**OLYMPUS** "This looks like being the best digital camera available to consumers. Ever." - What Digital Camera on the C-1400L

- C-1400XL SLR**
- 1.4 Million Progressive CCD
  - 1280 x 1024 SXGA Resolution
  - 3x Optical zoom
  - Autofocus & Intelligent flash
  - 2" TFT High Res LCD Screen
  - Two 4Mb SmartMedia cards
  - Leather case, Charger Set, PhotoSoap

- C-900**
- Smallest 3x Optical Zoom Camera
  - 35-105 (equiv 35mm) Zoom lens
  - 2x Digital Zoom up to 210mm
  - 1.31 Million pixels for true Photo quality
  - 1280 x 960 Megapixel resolution
  - Panorama option on SmartMedia card for landscape shots

- C-840L**
- 1.3 million Pixels
  - 1280 x 960 Resolution
  - Digital 2x zoom
  - 4Mb card stores 9/18/60+ images
  - NEW D-RAM faster processing tech
  - Close focusing to 10cm

- P330-E Dye Sub Printer**
- Prints photos direct without a PC
  - SmartMedia card input for cameras
  - Video Input for Video/camcorder image capture
  - Video output for connecting to TV
  - Produces A6 prints at 1376 x 14024 res
  - Also MAC/PC compatible

<b>OLYMPUS C-1400XL</b>	£849 ex vat	£997.57 inc vat
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<b>OLYMPUS C-900</b>	£549 ex vat	£645.07 inc vat
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<b>OLYMPUS C-840L</b>	£419 ex vat	£492.32 inc vat
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<b>OLYMPUS P330-E</b>	£339 ex vat	£398.32 inc vat
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# SONY

## Mavica Digital Still Cameras

There are two models to choose from, the Digital Mavica MVC-FD5 and the more advanced MVC-FD7. The MVC-FD7 has all the functions of the MVC-FD5, plus 10x optical zoom lens, manual focus, and five pre-programmed auto exposure modes.



- 2.5" TFT LCD display
- stores up to 20 high resolution or 40 standard resolution images on one 3.5" 2HD floppy
- 640 x 480 (VGS) image size

<b>SONY MVC-FD5</b>	£329 ex vat	£386.57 inc vat
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<b>SONY MVC-FD7</b>	£439 ex vat	£515.82 inc vat
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# Kodak

## The Award Winning DC210 Zoom camera



- True megapixel CCD with 1152 x 864 image resolution
- 4Mb picture card included stores 16 - 60 pictures
- 1.6" TFT colour LCD for picture preview & review
- 2X Focus Free Zoom Lens with close-up mode
- easy function select via Mode Dial
- Finished File Format (JPEG or FLASHPIX)
- Drag & Drop image straight into application
- serial (RS232C), Infrared (IrDA) & Video Out (NTSC & PAL) interfaces display pictures straight to TV!
- Supplied with Kodak PictureEasy 2.0 Adobe PhotoDeluxe & PageMill software, Windows '95 mounter & TWAIN Acquire module
- Optional Macintosh Interface Kit

<b>Kodak DC210</b>	£349 ex vat	£410.07 inc vat
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<b>Kodak DC200</b>	£215 ex vat	£252.62 inc vat
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Also Available

DC220	£345	£405.37
DC260	£619	£727.32
DVC323	£115	£135.12

DC200 is as DC210 except: No carry case, No Adobe software, No infrared Interface, No zoom lens

## MEMORY SOLUTIONS FOR DIGITAL CAMERAS.

### Compact Flash Cards

<b>8MB</b>	£39	£45.82
<b>15MB</b>	£69	£81.07
<b>30MB</b>	£99	£116.32
<b>45MB</b>	£149	£175.07

Compact Flash works with the following cameras:

- Canon PowerShot 350, A5
- Casio QV-700
- Epson PhotoPC 600,700
- Kodak DC-120, 210, 220, 260
- Mustek VDC-200
- Nikon Coolpix 900 (8 & 15Mb only)
- Panasonic KXL-600A, 601A
- Samsung SSC-410N
- Umax Photoron

Add a PCMCIA adapter to convert Compact Flash to ATA Flash.

ATA Flash works with the following cameras:

- Agfa ActionCam
- Canon EOS-1, DCS1, DCS3, PowerShot 600
- Fuji DS-300, 505, 515, HC-2000
- Fuji DS 220
- Kodak DC-50, DCS420, 460, 465, EOS
- DCS1, DCS1, DCS5
- Minolta RD-175
- Nikon E2, E2N, E2S
- Pentax E1-C90
- Ricoh RDC-2, 2E
- Sony DKC-1D1

<b>Adapter</b>	£10.57
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### External Parallel Port Memory Card Readers

Compact Flash/ATA Flash	£79	£92.82
Smart Media/ATA Flash	£89	£104.57

### Smart Media cards

<b>4Mb</b>	£21	£24.67
<b>8Mb</b>	£32	£37.60
<b>16Mb</b>	£55	£64.62

Smart Media cards work with the following cameras:

- Agfa ePhoto 780, 1280
- Epson PhotoPC 550
- Fuji DX-5, 7, 9, MX-700
- Olympus C-420L, 820L, 840L, 1400LO
- Ricoh RDC-300Z, RDC4300
- Sanyo VPC X300, DSC-X1
- Toshiba PDR-2A

## Cameras

<b>AGFA</b>	ePhoto 307	£139	£163.32
	ePhoto 780	£245	£287.87

<b>CASIO</b>	QV-300	Call	
	QV-100	Call	
	QV-11	Call	
	QV-700	£229	£269.07
	QV-5000SX	£325	£381.87
	QV-7000SX	£329	£386.57
	DP8000	£199	£233.82

<b>EPSON</b>	PhotoPC 600	£303	£356.02
	PhotoPC 700	£361	£424.17
<b>Accessories</b>	PhotoPC 600 AC Adaptor	£49	£57.57
	PhotoPC 600 4Mb Card	£99	£116.32
	PhotoPC 600 15Mb Card	£259	£304.32

<b>FUJIFILM</b>	DX-8	£149	£175.07
	DX-9	£239	£280.82
	MX-500	£299	£351.32
	MX-700	£399	£468.82
	DS 300	£1249	£1467.57

<b>HEWLETT PACKARD</b>	PhotoSmart	£398	£467.65
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<b>HITACHI</b>	MPEG Video camera	£1425	£1674.37
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<b>JVC</b>	GC-S1 Still Camera	£299	£351.32
	GR-DVL 9000 Video	£1347	£1582.72

<b>Konica</b>	Q-M100	Call	
	Q-Mini	Call	
	Q-EZ	Call	

<b>LG</b>	ArtShot LDC-F25P	Call	
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<b>MINOLTA</b>	Dimage V	£315	£370.12
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<b>Nikon</b>	CoolPix 100	£245	£287.87
	CoolPix 300	£328	£385.40

<b>PENTAX</b>	KXL600a	£199	£233.82
	NV-DF2	Call	

<b>Panasonic</b>	EK-C90	Call	
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<b>Polaroid</b>	PDC-2000	Call	
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<b>PRAKTIKA</b>	PD-100	Call	
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<b>Premier</b>	DC600	Call	
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<b>RICOH</b>	RDC-2E	£499	£586.32
	RDC-4300	£399	£468.82

<b>SANYO</b>	DigiCam 210	£239	£280.82
	DigiCam 250	£259	£304.32
	DigiCam 300 XGA	£315	£370.12
	VPC-X300	£299	£351.32
	VPC-X350	£469	£551.07

<b>Accessories</b>	200 AC Adaptor	£75	£88.12
	300 AC Adaptor	£45	£52.87

<b>SHARP</b>	VE-1C1	Call	
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<b>SONY</b>	DSC-F1	£369	£433.57
	DKC-ID1	£489	£574.57

<b>Vivitar</b>	VivCam 2500	Call	
	VivCam 3100	Call	

<b>YASHICA</b>	KC600L	Call	
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# Scanners & Cameras

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## Scanners

EPSON	x	vat	inc vat
GTx-5500 Wins	£129		£151.57
GTx-5500 SCSI	£125		£146.87
GTx-9500 Parallel	£445		£522.87
GTx-9500 SCSI	£468		£549.90
GTi-9500 Parallel	£537		£630.97
FilmScan 200 SCSI	£302		£354.85
Accessories			
GT Automatic			
Document Feeder	£308		£361.90
Transparency Unit	£358		£420.65
HEWLETT PACKARD			
ScanJet 5s Parallel	£133		£156.27
ScanJet 5100c	£145		£170.37
ScanJet 6200C	£237		£278.47
ScanJet 5 Ethernet	£1604		£1884.70
Accessories			
6100 Automatic			
Document leader	£258		£303.15
6100 Transparency Unit	£368		£432.40
Logitech			
ScanMan Colour 2000	£42	£49.35	
PageScan Parallel	£84	£98.70	
FreeScan Parallel	£98	£115.15	
MICROTEK			
Phantom 330 Parallel	£69	£81.07	
Phantom 636 Parallel	£89	£104.57	
Phantom 336CX P	£59	£69.32	
ScanMaker 330 SCSI	£89	£104.57	
ScanMaker 366 SCSI	£119	£139.82	
ScanMaker 636 SCSI	£179	£210.32	
ScanMaker X6 SCSI	£199	£233.82	
35T Plus SCSI	£595	£699.12	
ScanMaker 4 SCSI	£649	£782.57	
ScanMaker 5 SCSI	£1799	£2113.82	
ScanMaker 6400XL A3 SCSI	£899	£1056.32	
ScanMaker 9600XL A3 SCSI	£1499	£1761.32	
Accessories			
330/630 Transparency Unit	£158	£185.65	
Polaroid			
SprintScan 35LE S	£418	£491.15	
SprintScan Plus S	£1189	£1397.07	
visioneer			
PaperPort 3000	£94	£110.45	
PaperPort Strobe Colour	£168	£197.40	
PaperPort 6000	£138	£162.15	

# AGFA



FREE technical support hotline: 0181 231 5511

## NEW - SnapScan 1212P - NEW

This 600 x 1200 ppi EPP scanner offers exceptional value for money.



AGFA SnapScan 1212P  
£95 ex vat  
£111.62 inc vat

- High Optical resolution of 600 x 1200 ppi with enhancement to 9600 x 9600 ppi
- Impressive internal 36-bit colour depth
- High reliability and tested compatibility with other EPP devices
- Built-in Agfa colour management system compatible with Win 95, Win 98 and Win NT
- Software inc: Agfa FotoSnap, Agfa FotoLook, Photo Express, OmniPage Limited Edition and Visioneer PaperPort
- Market-leading service and support

## NEW - SNAPSCAN 1212U - NEW

A high-quality A4 scanner that is designed specifically for PC's equipped with a Universal Serial Bus (USB).

- High Optical resolution of 600 x 1200 ppi with enhancement to 9600 x 9600 ppi
- Outstanding internal 36-bit colour depth
- The USB interface transfers 1Mb per sec
- Built-in Agfa colour management system
- Compatible with Windows 98 and the latest USB technology
- Software inc: Agfa FotoSnap, Agfa FotoLook, Photo Express, OmniPage Limited Edition and Visioneer PaperPort
- Market-leading service and support

Windows 98



AGFA SnapScan 1212U  
£109 ex vat  
£128.07 inc vat

## NEW - ePhoto 780 - NEW

PhotoGenie™ technology for resolution up to 1204x768 pixels.



- 4 image quality options for resolutions up to 1024 x 768 with Agfa PhotoGenie
  - Virtually no waiting between pictures
  - Record, playback or delete images using the 1.8" LCD screen
  - Store up to 96 photos on each removable memory card (12MB SmartMedia card inc)
  - View pictures on T.V (NTSC/PAL cable inc)
  - Use pictures right away with Agfa PhotoWise
- The ePhoto 780 includes everything you need - camera, cables (PC, MAC, TV), software, removable memory, batteries, and wrist strap.

AGFA ePhoto 780  
£189 ex vat  
£222.07 inc vat

- ePhoto 1680
- ePhoto 1280
- Arcus II Solo
- SnapScan 600
- SnapScan 310P

- £459
- £539.32
- £349
- £410.07
- £575
- £675.62
- £175
- £205.62
- £79
- £92.82

## NEW - SNAPSCAN 1236S - NEW

Top of the range, high-performance A4 scanner for both home and office use.



- SCSI-port connection for maximum scanning speed and cross-platform use
- High Optical resolution of 600 x 1200 ppi with enhancement to 9600 x 9600 ppi
- Outstanding internal 36-bit colour depth - ideal for transparency scanning
- Built-in Agfa colour management system
- PC scanner controls supports Windows 95, Win 98 and Win NT
- Software inc: Agfa FotoSnap, Agfa FotoLook, Photo Express, Caere OmniPage LE (PC only), Visioneer PaperPort inc OmniPage Lite.

AGFA SnapScan 1236S  
£129 ex vat  
£151.57 inc vat

AGFA 1236S Artline  
£159 ex vat  
£186.82 inc vat

- SnapScan 600 Artline
- T1200
- T2500
- DuoScan solo
- Snapscan 310S

- £199
- £233.82
- £429
- £504.07
- £2899
- £3406.32
- £1745
- £2050.37
- £89
- £104.57

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- MOSBY'S MEDICAL ENCYCLOPEDIA 1.0
- FAMILY TREE 30 WORLD ATLAS
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- COMPTONS BATTLES OF THE WORLD

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- LETS START LEARNING
- THINK & TALK FRENCH
- KITCHEN GOURMET
- DESIGN CENTRE 3D
- TYPING TUTOR PRO

# UMAX

The Award Winning UMAX scanners



## ASTRA 1220S FLATBED SCANNERS



Umax continues its run of PC Pro awards with the Astra 1220S. With a high 600x1200 optical resolution the Astra delivers the best quality scans of any of the devices on test. Detail is sharp, colour accurate and contrast realistic. Using a 30-bit sample, the Astra achieves a better tonal range than scanners with 24-bit processes.

At £125, the Umax is reasonably priced and is one of the better value scanners on test. But no corners have been cut in build quality, with solid, stylish chassis sporting extendable lid hinges which rise when a thick magazine or book is being scanned. You can also remove the lid for scanning very large objects.

In all, the Umax Astra 1220S is an amazing quality scanner at a very reasonable price, making it a worthy Quality winner.



NEW 1220S 36-Bit Model ONLY £125 + vat

- 1220S SCSI scanner
- 600 x 1200 dpi optical resolution
- New 1220S 36-Bit model
- Free Umax VistaScan software
- Easy-to-fit user friendly model
- Adobe Photoshop LE £30 + vat

PC QUALITY SPEED VALUE FOR MONEY OVERALL

UMAX Astra 1220S  
£125 ex vat  
£146.87 inc vat

- Astra 1220S Flatbed Scanner
- Astra 1220S with PhotoShop 4.0
- With PhotoShop & Transparency Adapter
- 2nd year extended warranty for ASTRAS
- Powerlook ColourStudio 2LE
- Powerlook III
- Mirage II Pro

- £125
- £146.87
- Call
- £548
- £643.90
- £29.95
- £35.25
- £749
- £880.08
- £1995
- £2344.12
- £5999
- £7048.82

(Powerlook II & III Inc. MetaCreations Painter 5 OEM version & Wacom Artpad II FREE while stocks last)

## ASTRA 610S AND 610P INCLUDE ADOBE PHOTO DELUXE SOFTWARE - FREE!!

### ASTRA 610S SCSI

The Astra 610 flatbed scanner offers exceptional value for those who are looking for an easy and low cost introduction to scanning. Offering 4,800 dots per inch resolution (300 x 600 dpi optical resolution) and over one billion colours (30 bit colour depth).

- Single pass colour scanner
- 30-bit, over one billion colours
- 600 x 300 dpi optical resolution
- Easy-to-fit user friendly model
- Presto file management software inc.



UMAX 610S SCSI  
£79 ex vat  
£92.82 inc vat

### ASTRA 610P PARALLEL

- Single pass colour scanner
- 30-bit, over one billion colours
- 600 x 300 dpi optical resolution
- Easy-to-fit user friendly model
- Presto file management software inc.



UMAX Astra 610P  
£59 ex vat  
£69.33 inc vat

## ASTRA 1220P/1220U FLATBED SCANNER

Amazing low price 30 bit scanner

- 1200P Parallel scanner
- 600 x 600 dpi optical resolution
- New 30-Bit model
- Free Umax VistaScan software
- Easy-to-fit user friendly model
- Adobe Photoshop LE £30 + vat



UMAX Astra 1220P  
£85 ex vat  
£99.87 inc vat

UMAX Astra 1220U  
£109 ex vat  
£128.07 inc vat



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## Nikon COOLSCAN III

*The Personal Film Scanner With Revolutionary New Technology!!*

- Digital ICE - automatically removes surface imperfections such as dust & scratches from scans.
- Resolution - high optical resolution of 2700dpi
- 30-bit colour depth - shows detail even in the shadow & highlight areas of the image.
- Colour Matching Library - provides vivid & extremely accurate colour matching on both monitors & printers.
- Versatile film loading - 35mm strip film & slide mount adapter
- Advanced Photo System - optional adapter for scanning APS
- Hot swap adapters for simple switching between film types

NEW!! LS2000 SuperCoolScan (with Nikon Scan)	£1190.64	£1399.00
NEW!! LS2000 SuperCoolScan (with SilverFast, Nikon Scan + Photoshop LE)	£1310	£1539.25
NEW!! CoolPix 600 Digital camera Premier	£365.11	£429.00
NEW!! CoolPix 900 Digital camera Standard	£594.89	£698.99
NEW!! CoolPix 900 Digital camera Premier	£680	£799.00
NEW!! LS1000 SuperCoolScan	£295	£1169.12
Coolscan III with Nikon Scan 2.1	£509.79	£599.00
Coolscan III with Nikon Scan 2.1 (with Adaptec 1505E SCSI Card)	£526.81	£619.00
Coolscan II Ext (with SilverFast, Nikon Scan, PhotoShop LE & SCSI card)	£561	£659.17
Coolscan II Int (with SilverFast, Nikon Scan, PhotoShop LE & SCSI card)	£476	£559.30

## PhotoPC 700

Megapixel (1280 x 960) Auto Focus Digital Camera

**EPSON**

- Megapixel (1280 x 960) Auto Focus Digital Camera
- Large, high quality, built-in 2" LCD colour view finder
- PAL TV & Video output for large screen viewing
- Extensive range of software included
- Up to 10 exposure continuous-shot mode
- Direct Printing to the Epson Stylus Photo range
- Amazing close-up 10cm macro facility

EPSON PhotoPC 700 £424.17 inc vat

## GT 7000 Scanner

High quality 9600 dpi scanner

- Affordable, compact colour flatbed scanner
- High Quality 600 x 2400 dpi optical resolution with EPSON Micro Step Drive
- Can distinguish 68 billion different colours (36 bit)
- Start button for easy one touch scanning
- Ultra fast scanning - a leader in it's class

EPSON GT 7000 £172.72 inc vat

**Lowest UK Prices** td

Providing value for money to our customers is of great importance to us. If our price isn't right, please call us - We want your business.

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**Instant Cheque Clearance** td

No need to wait. This service is FREE and applies to both business & personal cheques. If you are paying by personal cheque write your cheque card No., expiry date & tel No. on the reverse of the cheque.

## Genius FANTASTIC NEW MODEL!!

### COLORPAGE VIVID PRO II

- 36 bit single pass flatbed scanner
- Easy set up - plugs right into your printer port
- 600 x 1200 dpi optical resolution
- 9600 dpi Interpolated resolution
- Powerful Image editing software iPhotoExpress & PhotoImpact SE
- Recognita OCR software
- TWAIN support for Win 95/98/NT

**ONLY £49 + vat**

30 BIT ColorPage View Flatbed Scanner £39 £45.82  
30 BIT SCSI ColorPage HR5 Flatbed Scanner £99 £116.32

## Just LOOK at these prices!!

### WizardPad

Pressure sensitive tablet with cordless stylus

Wizard pad is the natural tool for drawing, painting, sketching and tracing. With the 256-level pressure sensitive pen, you can achieve all types of shapes and thicknesses. Bundled with the powerful Dabber 2.0 program, you can become the artist you have always wanted to be. Up to 2540dpi

*"This is the most must-have gadget I have seen and used in recent times" William Poel Computer Shopper.*

Genius WizardPad £49 ex vat £57.57 inc vat

### NetMouse PRO

Scrolling Mice

Use magic button for scrolling windows. PRO PS/2 with a serial adapter included. Side button supports Office 97/ Internet Explorer 3.0 with one-step zoom and auto-panning and auto-scrolling functions in eight directions.

Genius NetMouse PRO £9 ex vat £10.57 inc vat

## hp HEWLETT PACKARD

Expanding Possibilities

### HP C20 Digital camera

- 1 megapixel (1152 x 872) resolution & 24 bit color
- Supplied with AC adapter & 4Mb compact Flash card (stores up to 40 images) as standard
- Color 1.8in LCD preview/postview display
- Offers very fast download to a PC or TV

HP Scanjet 5100C £145 £170.37  
HP Scanjet 6200C £237 £278.47  
PhotoScanner £318 £373.65

HP C20 Digital camera £299 ex vat £351.32 inc vat

## HP Scanjet 4100c

- Flatbed, color and monochrome scanner
- Enhanced scan resolution 1200dpi
- 600dpi Hardware Super Sampling
- 36-bit processing
- Automatic image & text optimisation
- Scan only once for text & image data acquisition
- USB connection for improved connectivity

HP Scanjet 4100c £116 ex vat £136.30 inc vat

## HP Scanjet 6250c

- Scans B/W line art for editing or enlargement with no loss of quality (Vectorization)
- Includes Auto document feeder as standard
- Enhanced scan resolution 1200dpi
- 1200dpi Hardware Super Sampling
- 36-bit processing
- USB & SCSI Interfaces for Max compatibility

HP Scanjet 6250c £277 ex vat £325.47 inc vat

## UMAX DC-F1 Digital Still Camera

The DC-F1 is the lowest cost - High Quality digital camera in the world. It is based upon a revolutionary Active Pixe CMOS image sensor that provides 1920x1600 pixel high quality 30 bits/pixel images.

**Our highest resolution Digital camera**

- 800,000 pixel CMOS sensor
- High Quality images (1920 x 1600 x 30bits/pixel)
- JPEG compression
- Integrated Automatic Electronic Flash
- 2M Removable Flash Memory Cards, Included - stores up to 30 images
- Sound Recording at 20 sec. Per image
- Included software: Adobe PhotoDeluxe, Adobe PageMill, Presto I PhotoAlbum

UMAX DC-F1 £279 ex vat £327.82 inc vat

## 4800 + FLATBED SCANNER

- Single pass, A4 size/letter
- 300 dpi - 36 bit true colour
- Parallel port EPP mode
- TWAIN driver: Win3.1, 95, NT
- 205 - 260 volt
- Image editing software included: DocuMan 2.06 ArcSoft Art-Copy

4800+ £39 ex vat £45.82 inc vat

## 9600 PRO FLATBED SCANNER

- Single pass, A4 size/letter
- 600 dpi - 30 bit true colour
- Parallel port EPP mode
- TWAIN driver for Win 3.1, 95 & NT
- 205 - 260 volt
- Image editing software included: DocuMan 2.06 ArcSoft Art-Copy

9600 £59 ex vat £69.32 inc vat

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**11**  
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**InkJet Printers**

<b>Canon</b>		
BJC 5500 A3 Clr	£399	£468.82
BJC 4300 A3 Clr	£87	£102.22
BJC 4650	£193	£226.77
BJC 5000	£164	£192.70

**LEXMARK**

1100	£74	£86.95
3200	£129	£151.57
5700	£165	£193.87
7200	£189	£222.07

**Laser Printers**

<b>brother.</b>		
HL-820	£154	£180.95
HL-1040	£205	£240.87
HL-1050	£225	£264.37
HL-1050 8MB	£245	£287.87
HL-1070	£289	£339.57
HL-1070 8MB	£299	£351.32
HL-1660E	£569	£668.57
HL-1660EN	£769	£903.57
HL-1660EN 16Mb	£795	£922.37
HL-2060	£329	£373.07
HL-2060 16Mb	£349	£397.57
HL-2060N	£849	£997.57
HL-2060N 16Mb	£859	£1009.32
HL-2400C	£1949	£2290.07
HL-2400CN	£2299	£2701.32

<b>Canon</b>		
LBP 1760 16ppm	£625	£734.37
LBP 2460+ 24ppm Colour Laser	£1425	£1674.37

<b>Panasonic</b>		
KX-P6300	£169	£198.57
KX-P6500	£235	£276.12
KX-P8410	£1099	£1291.32

<b>QMS</b>		
DeskLaser 600	£155	£182.12
DeskLaser 1400P	£649	£762.57
DeskLaser 2000Net A3 Ethernet	£879	£1032.82
DeskLaser 2000Net A3 Duplex Ethernet	£1299	£1526.32
2060WX	£1049	£1232.57
2060BX	£1299	£1526.32
2060GX	£1549	£1820.07
2060IS	£1975	£2320.62
2060EX	£2649	£3112.57
2425PS	£2849	£3347.57
2425EX	£4099	£4816.32

<b>MagiColor II</b>		
DeskLaser	£1525	£1791.87
MagiColor II		
CX 24Mb	£2149	£2525.07
MagiColor II CX Exec 80Mb	£2899	£3406.32

<b>SHARP</b>		
JX-9680 Twin Cassette	£539	£633.32
JX-9685 Duplex	£789	£927.07
JX-9865N Duplex Ethernet	£889	£1044.57

<b>Tally</b>		
T9006	£167	£196.22
T9208	£215	£252.82
T9012	£248	£296.40
T8104 colour	£2259	£2654.32

<b>Faxes / Multifunction</b>		
<b>Canon</b>		
MPC-20 Colour Inkjet	£288	£338.40
MPL-90 Laser	£768	£902.40

<b>Panasonic</b>		
UF-52	£178	£209.15
UF-S1 TAM	£208	£244.40
UF-S10	£248	£291.40
KX-F2680	£184	£216.20
KX-F2780	£205	£240.87
KX-F1810	£239	£280.82
KX-F1100E	£339	£398.32
UF-332 Plain Paper	£295	£346.62
UF-280M	£758	£890.65
UF-550 Laser	£628	£737.90
UF-560 Laser	£678	£796.65
UF-342 Inkjet	£638	£749.65
UF-344 Inkjet	£878	£1031.65
UF-770 Laser	£999	£1173.82

<b>SAMSUNG</b>		
SF-150	£114	£133.95
F-150	£144	£169.20
SF-910 TAM	£158	£185.65
SF-2900M TAM	£188	£220.90
SF-4000 Inkjet	£224	£263.20
SF-5500 Laser	£358	£420.65
SF-5600 Laser	£488	£573.40
SF-6000 Laser	£538	£632.15
SF-6100 Laser	£598	£702.65
SF-4200 Colour Inkjet	£258	£303.15

<b>SHARP</b>		
UX-108	£98	£115.15
UX-178	£114	£133.95
UX-258	£148	£173.90
FO-1460	£114	£134.90
FO-4500W laser	£1140	£1348.90
FO-1660M	£224	£263.20
F-3600M laser	£428	£502.90

<b>TOSHIBA</b>		
TF-461 Colour	£438	£514.65
TF-601 Laser	£638	£749.65
TF-605 Laser	£748	£878.90

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**HP InkJet Printers**

**NEW!**

**DeskJet 710c**

£134 ex vat  
£157.45 inc vat

- 600 dpi Black, 300 dpi Colour Printing
- 6 ppm Black, 3 ppm Colour
- 100 sheet input tray
- Plain & glossy paper, photo, transparency, envelopes, card, banner paper, iron-on transfers
- 1 year Warranty

**HP 2000**

£450 ex vat  
£528.75 inc vat

- 600 dpi Black. PhotoREt II for photo-quality
- 10 ppm Black, 7 ppm Colour
- 150 sheet input tray
- 2 Mb RAM
- 4 high capacity ink cartridges & 4 long-life printheads
- Ink level indicator
- Transparency sensor & job cancel button
- HP 2000CN version: Inc HP 2000C printer, HP JetDirect 300X print server & 250 sheet accessory paper tray

**HP LaserJet Printers**

**LaserJet 1100**

£232 ex vat  
£272.60 inc vat

- 600 dpi Black plus RET
- 8 ppm Black
- 100 sheet input tray straight through paper path
- Up to 6000 pages/month
- 1 year Warranty
- 1 MB standard memory, expandable to 9MB

**LaserJet 4000**

£711 ex vat  
£835.42 inc vat

- First page out in 15secs
- Up to 16ppm print speed
- 1200dpi resolution
- 500 sheet tray
- Up to 5 input bins (1,100 sheets)
- 1 year return to HP warranty

**Other InkJet Printers**

HP DESKJET 340	£135	£158.82
HP DESKJET 340 CBI	£159	£186.82
HP DESKJET 420	£66	£77.55
HP DESKJET 690C	£96	£112.80
HP DESKJET 710C	£134	£157.45
HP DESKJET 720C	£149	£175.07
HP DESKJET 895Cx	£186	£218.55
HP DESKJET 1120C	£285	£334.87
HP DESKJET 2000C	£450	£528.75
HP DESKJET 2000CN	£675	£793.12
HP DESKJET 2500C	£705	£828.37

**Other LaserJet Printers**

LaserJet 1100	£232	£272.60
LaserJet 1100A	£285	£334.87
LaserJet 6P	£461	£541.67
LaserJet 6MP	£562	£660.35
LaserJet 3100	£489	£574.57
Col LJ 4500	£1875	£2203.12
LJ 4500N	£2130	£2502.75
LJ 4500DN	£2610	£3066.75
Col LJ 8500	£3862	£4537.85
LJ 8500N	£4425	£5199.37
LJ 8500DN	£5242	£6159.35
Laser 4000	£711	£835.42
Laser 4000T	£787	£924.72
Laser 4000N	£914	£1073.95
Laser 4000TN	£990	£1163.25
Laser 5000	£929	£1091.57
Laser 5000N	£1334	£1567.45
Laser 5000CN	£1649	£1937.57
Laser 8000	£1574	£1849.45
Laser 8000N	£1762	£2070.35
Laser 8000DN	£2062	£2422.65
Laser 8100	Call	

**HP All-In-One Products**

**LaserJet 3100**

£489 ex vat  
£574.57 inc vat

- Print:** 600 dpi Black, 6 ppm laser
- Copy:** 6 ppm copier (with scan ahead to memory), 50-200% reduce/enlarge
- Scan:** Sheetfed scanner, 300 dpi optical/600 dpi enhanced
- Fax:** Single-Point installer, 6 secs pp (with scan ahead to memory), 150 page memory, 175 number speed dial, 1 year Warranty, Bi-directional parallel interface/connection

**OfficeJet 635**

£322 ex vat  
£378.35 inc vat

- Print:** 600 dpi Black/600 dpi Colour with HP ColourSmart, 5 ppm black/2 ppm colour
- Copy:** black 1.2 ppm, 50-200% reduce/enlarge
- Scan:** Sheetfed scanner, 300 dpi optical/600 dpi enhanced
- Fax:** 20 page auto document feeder, 65 page memory, 100 number speed dial, 1 year Warranty, Bi-directional parallel (centronics) interface

**Other All-In-One Products**

HP OFFICEJET 1170	£489	£574.57
HP OFFICEJET 1175	£614	£721.45

**Canon Blockbuster Promotion - Any Customer purchasing a Blockbuster promotional Printer will be able to hire one video a week for a year!!**

*(This offer applies to other printers in the range please ask your sales person for details.)*

**Canon BJC - 50 BJC - 80 LBP - 660 BJC - 250 BJC - 4300 BJC - 7000**

**Canon BJC-50** £185 ex vat £217.37 inc vat

**Canon BJC-80** £138 ex vat £162.15 inc vat

**Canon LBP-660** £158 ex vat £185.65 inc vat

**Canon BJC-250** £68 ex vat £79.90 inc vat

**Canon BJC-4300** £87 ex vat £102.22 inc vat

**Canon BJC-7000** £159 ex vat £186.82 inc vat

**MINOLTA** Minolta offer a product to suit almost every user. From the high spec, competitively-priced PagePro 8 series to the fully fledged Colour Page Pro laser printer, each unit features engineering excellence designed to offer the best performance possible in every home or office environment.

**MINOLTA PagePro 8** £239 ex vat £280.82 inc vat

**MINOLTA Colour PagePro** £1525 ex vat £1791.87 inc vat

**MINOLTA PagePro 8L** £194 ex vat £227.95 inc vat

**MINOLTA PagePro 8E** £315 ex vat £370.12 inc vat

**MINOLTA PagePro 12** £539 ex vat £633.32 inc vat

**MINOLTA PagePro 20** £699 ex vat £821.32 inc vat

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Software includes: PrintArtist v.4 - Imaging editing graphics software - LivePix v.1 - Professional photo image editing software (Windows & Macintosh) - Photo Quality Media pack - a selection of EPSON print media. Customisable Mouse Mat - free mouse mat that allows users to insert their own printed designs under the transparent cover.



- 3 Year extended warranty service available on all EPSON printers, scanners and video projectors
- Flexible cover - RTB or On-Site response packages
- Product history known as own product is repaired not replaced
- Warranty is transferable if product is sold on
- EPSON trained engineers and EPSON spares used
- Options also covered if included with registered product
- Refer to specific product for price

### THE NEW EPSON STYLUS COLOR 740

EPSON Ultra MicroDot - the world's smallest ink droplet in black & colour

- 1440dpi with Variable-Sized Droplet Technology
- Advanced PhotoReal colour printing
- 40% Speed Improvement
- Parallel, Serial & USB interfaces
- Win 95,98,NT 4.0 & MAC compatible
- Highest quality output on all media types inc plain paper
- Advanced 4 colour Dual-Cartridge Ink System
- New Printer Driver Enhancements
- New full function Status Monitor
- Free NEW Advanced 'PerfectPicture Pak' software & paper media bundle



**£177 ex vat**  
**£207.97 inc vat**

### THE NEW EPSON STYLUS COLOR 640

1440 dpi PhotoReal output with no hidden extras

- 1440dpi colour & true black printing with EPSON Super MicroDot
- Fast print speeds
- EPSON PhotoEnhanced 3 for Optimisation of Digital Images
- Windows 95 & 98 compatible
- High quality output on all media types including plain paper
- Free NEW 'PerfectPicture Pak' software bundle
- Advanced Dual-Cartridge Ink System
- New Printer Driver Enhancements
- New full function Status Monitor



**£133 ex vat**  
**£156.27 inc vat**

### EPL- 5700 LASER PRINTER

- 8ppm with 100MHz RISC processor for fast, efficient printing
- True 600 x 600dpi
- 1200dpi with MicroGray 1200 and RITech
- 4Mb RAM as standard-upgradeable to 36Mb
- Up to 650 sheets capacity (optional paper cassette)
- Parallel & Serial interfaces as standard
- Standard, Network & PostScript ready configurations
- 1 Year RTB Warranty



**£304 ex vat** **£357.20 inc vat**

### THE NEW EPSON STYLUS COLOR 440

A perfect introduction to colour printing at home

- 720dpi PhotoReal colour & black printing
- Designed for ease of use - ideal for first time buyers
- Easy to use Interactive Online help
- Fast print speeds
- Free NEW 'PerfectPicture Pak' Home Creativity software bundle
- Free PhotoQuality Paper Pack
- High quality output on all media types including plain paper
- Advanced Dual-Cartridge Ink System
- New Printer Driver Enhancements
- New full function Status Monitor
- Windows 95 ICM Colour Compliance



**£103 ex vat**  
**£121.02 inc vat**

### EPSON STYLUS COLOR 850

- Ultra-fast Print Speed up to 9ppm mono, 8.5ppm Colour
- PhotoReal colour, Laser-sharp Black output standard
- 1440dpi colour printing on plain paper
- Win 3.1, Win 95, Win NT and Mac compatible
- High capacity dual ink cartridge system
- New full function status monitor
- 1 Year RTB warranty as standard



**£207 ex vat** **£243.22 inc vat**

### EPSON STYLUS PHOTO 700

New Generation Home Printer for Photos & Text

- 1440dpi Photo Reproduction Quality output
- Prints on a wide range of media
- EPSON PhotoEnhanced 2 - automatically optimises photo output
- Win 3.1, Win 95, Win NT and Mac compatible
- 1 Year RTB Warranty as standard



**£163 ex vat** **£191.52 inc vat**

	ex vat	inc vat		NEW	
FilmScan 200	£303	£356.03	Stylus Pro 5000	£303	£356.02
StylusColor 300	£76	£89.30	PhotoPC 600	£593	£696.77
StylusColor 800	£207	£243.22	EPL-N1200	£791	£929.42
StylusColor 850	£207	£243.22	EPL-N1200EN	£986	£1158.55
StylusColor 1000	£292	£343.10	EPL-N2000	£1278	£1501.65
StylusColor 1520	£451	£529.92	EPL-N2000PS	£1582	£1858.85
StylusColor 3000	£1118	£1313.65	EPL-5700EN	NEW	NEW
StylusPhoto	£147	£172.72	EPL-5700PS	NEW	NEW

### EPSON DOT-MATRIX RANGE

	ex vat	inc vat		NEW	
LX 300	£97	£113.97	DFX 8000+	£1911	£2245.42
LX 1050+	£154	£180.95	DFX 8100	NEW	NEW
FX 870	£247	£290.22	LQ 300	£115	£135.12
FX 880	£247	£290.22	LQ 570+	£216	£253.80
FX 1170	£230	£270.25	LQ 670	£230	£270.25
FX 2170	£395	£464.12	LQ 870	£377	£442.97
FX 2180	NEW	NEW	LQ 2070	£330	£387.75
DFX 5000+	£1226	£1440.55	LQ 2170	£468	£549.90
			DLQ 3000+	£791	£929.43

#### Original Toners

brother	ex vat	inc vat
HL-630/631/660	£17	£19.97
HL-730/760	£12	£14.10
HL-1060	£13	£15.27
HL-1260/1660	£61	£71.67
EPSON		
EPL-9000	£128	£150.40
EPL-N1200	£65	£76.37
EPL-N2000	£113	£132.77
HEWLETT PACKARD		
LaserJet IIP/III	£51	£59.92
LaserJet IIIi	£19	£20.52
LaserJet 4/4+5	£41	£48.17
LaserJet 4L/4P	£42	£49.35
LaserJet 4V	£42	£49.35
LaserJet 5P/6P	£49	£57.57
LaserJet 5L	£38	£44.65
LaserJet 5Si/5000	£94	£110.45
LaserJet 4000	£54	£63.45
LaserJet 5000	£92	£108.10
KYOCERA		
FS-400	£11	£12.92
FS-1550/1600/3400/3600	£37	£43.47
FS-1700/3700	£38	£44.65
FS-1700/3700 HiCap	£43	£50.52
LEXMARK		
Optra 7k Diamond	£111	£130.42
Optra 15k Diamond	£151	£177.42
Optra S 7k Diamond	£128	£150.40
Optra S 17k Diamond	£153	£179.77

#### Inkjet Cartridges

Canon	ex vat	inc vat
BJ-10 Black	£11	£12.92
BJ-200/210/230/240/ Black	£11	£12.92
BJC-210/240/250 CI	£13	£15.27
BJC-240/250 Photo	£12	£14.10
BJC-240/250 Photo Kit	£18	£21.15
BJC-4550 Photo	£14	£16.45
BJC-4550 Photo Kit	£18	£21.15
BJC-4550	£23	£27.02
Fluorescent	£7	£8.22
BJ-300/330 Black	£10	£11.75
BJC-800 Black	£14	£16.45
BJC-800 Colour	£4	£4.70
BJC-600/610/620/6k	£4	£4.70
BJC-600/610/620/CI	£19	£22.32
BJ-3070 Black	£8	£9.40
Tank 3 pack	£22	£25.85
BJC-70 Colour	£6	£7.05
BJC-70 Black Tank	£10	£11.75
3 Pack	£17	£19.97
BJC-70 Colour Tank	£23	£27.02
3 Pack	£4	£4.70
BJC-4000/5500 Bk	£10	£11.75
BJC-4200/4300 Colour	£18	£21.15
BJC-4000/5500 Black Tank	£20	£23.50
BJC-4000/5500 Colour Tank	£28	£32.90
BJC-7000 Photo Ink Tank	£18	£21.15
EPSON		
Stylus 800/1000 Bk	£6	£7.05
Stylus 300 Black	£14	£16.45
Stylus Colour/Pro Bk	£8	£9.40
Stylus Colour/Pro CI	£16	£18.80
Stylus 200/820/II Bk	£11	£12.92
Stylus 200/500 CI	£17	£19.97
Stylus 1500 Black	£26	£30.55
Stylus Pro XL- CI	£17	£19.97
Stylus 4/5/600/1520 Colour	£13	£15.27
Stylus 4/5/600 Pbk	£12	£14.10
Stylus 200/500 CI	£17	£19.97
Stylus 800/1520 Bk	£13	£15.27
Stylus Photo 5 CI	£11	£12.92
Stylus 3000 Bk/CI	£31	£36.42
Stylus 300 Colour	£12	£14.10

HEWLETT PACKARD	ex vat	inc vat
DU 400/500 Black	£17	£19.97
DU 400/500 Colour	£18	£21.15
DU 600/670/690 Bk	£17	£19.97
DU 720/800/1100 Bk	£17	£19.97
DU 690 PhotoReal	£19	£22.32
DU 720/890 Colour	£21	£24.67
DU Port110/320/340	£14	£16.45
DJ 1800 Bk/CI	£17	£19.97
PJ XL300 Black	£20	£23.50
PJ XL300 Colour	£21	£24.67

LEXMARK	ex vat	inc vat
PS 4079 Black	£14	£16.45
PS 4079 Colour	£21	£24.67
ColourJet 77200 Bk	£18	£21.15
ColourJet 77200 CI	£21	£24.67
ColourJet 1020 Bk	£16	£18.80
ColourJet 2070 Bk	£23	£27.02
ColourJet 2070 CI	£26	£30.55
ColourJet 2050 Bk	£18	£21.15

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COMPTONS BATTLES OF THE WORLD

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TRUMP CASTLE  
STRIKE BASE

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## Photo Quality Range

### EX2 Technology

*the laser that made it all possible*

Technological advancements made in the development process of manufacturing printheads have allowed Lexmark to construct the new high resolution cartridge which prints at a high resolution of 1.44 million dots per square inch. This laser crafted printhead, not only has a 38% higher resolution than any other printer in it's class, but combined with Lexmark's patented inks, produces laser quality text and images that show finer detail, smoother blends and better reproduction than ever before.



## 3200 JETPRINTER

**Laser Quality Output**

- Hi-Resolution Photo Quality
- True 1200 x 1200 dpi resolution

**Fast Dependable Performance**

- Up to 6 ppm Black
- Up to 2.5 ppm Colour

**Easy to use**

- Quick set up
- Easy operation

**Media**

- Optimised for plain paper
- Photo, Card, Envelopes & Banners

FREE 65,000 COREL GALLERY MAGIC



LEXMARK Jetprinter 3200  
£126 ex vat £148.05 inc vat

**NEW**

## 1100 JETPRINTER

**Fast Dependable Performance**

- Up to 3.5 ppm Black draft
- Up to 1.5 ppm Colour draft

**Technology**

- Thermal inkjet printing
- 600 x 600 dpi fine resolution

**Media**

- 30 sheet automatic capacity
- Transparencies, Envelopes, Card & Banners

**Environmental**

- Ink-saver mode
- Quiet 46dBA

Draw 6 PRINT STUDIO

Disney's PRINT STUDIO

FREE 65,000 COREL GALLERY MAGIC



LEXMARK 1100  
£75 ex vat  
£88.12 inc vat

## 5700 JETPRINTER

**Laser Quality Output**

- Hi-Resolution Photo Quality
- True 1200 x 1200 dpi resolution

**Fast Dependable Performance**

- Up to 8 ppm Black
- Up to 4 ppm Colour

**Technology**

- 6-colour photo capable\*
- \*using the optional Photo Print Cartridge

**Media**

- Optimised for plain paper

FREE 65,000 COREL GALLERY MAGIC



LEXMARK 5700  
£143 ex vat £168.02 inc vat

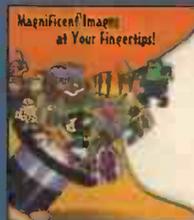
With Photo cartridge  
£160 ex vat £188.00 inc vat

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People to People Technology



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(ON REQUEST)



**OKIPAGE 4W PLUS**



- 4ppm print speed
- 600dpi resolution
- Software fonts under PCL 4.5 RIP
- 100 sheets standard paper tray
- Time to first print 23 seconds
- Toner recycling system

**£135 ex vat**  
£158.63 inc vat

**OKIPAGE 8p**



- 8ppm print speed
- True 600 x 1200dpi resolution
- 45 scaleable fonts
- 100 sheets standard paper tray
- 2Mb Memory (up to 6Mb)
- Time to first print 23 seconds
- Toner recycling system

**£189 ex vat**  
£222.07 inc vat

**OKIPAGE 10ex**



- 10ppm print speed
- True 600 x 1200dpi resolution
- 45 scaleable fonts
- 250 sheets standard paper tray
- 500 sheets A4 optional paper tray
- 2Mb Memory (up to 35Mb)
- Time to first print 12 seconds
- 10exs £272 + vat

**£239 ex vat**  
£280.82 inc vat

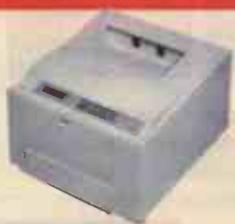
**OKIPAGE 12i/n**



- 12ppm print speed
- True 600 x 1200dpi resolution
- 45 scaleable fonts, 37 PostScript
- 250 sheets standard paper tray
- 500 sheets A4 optional paper tray
- 4Mb Memory (up to 36Mb)
- Time to first print 9 seconds
- Toner recycling system

**£409 ex vat**  
£480.57 inc vat

**OKIPAGE 16n**



- 16ppm print speed
- 600 dpi resolution
- 45 scaleable fonts
- 500 sheets standard paper tray
- 500 sheets A4 optional paper tray
- 6Mb Memory (up to 66Mb)
- Optional Network Interface Card
- Time to first print 10 seconds
- Toner recycling system

**£579 ex vat**  
£680.32 inc vat

**OKIPAGE 20n**



- 20ppm print speed
- True 600 x 1200dpi resolution
- 45 scaleable fonts
- 530 sheets standard paper tray
- 2 Optional 530 sheets A4 paper trays
- 8Mb Memory (up to 66Mb)
- Optional Network Interface Card
- Time to first print 7 seconds
- Toner recycling system

**£729 ex vat**  
£856.57 inc vat

**OKIPAGE 20enps**



- Ethernet and Postscript model
- 20ppm print speed
- True 600 x 1200dpi resolution
- 45 scaleable fonts
- 530 sheets standard paper tray
- 2 Optional 530 sheets A4 paper trays
- 8Mb Memory (up to 68Mb)
- Optional Network Interface Card
- Toner recycling system

**£1039 ex vat**  
£1220.82 inc vat

**OKIPAGE 8c**



- 8ppm print speed
- True 600 x 600dpi LED resolution
- 45 scaleable fonts, 37 PostScript
- Auto 500 sheets standard paper tray
- 500 sheets 2nd bin optional
- 16Mb Memory (up to 80Mb)
- Optional Network Interface Card
- Time to first print 32 seconds

**£2199 ex vat**  
£2583.82 inc vat

16NPS	£699	£821.32	20EN	£889	£1044.57	20ENPS	£1039	£1220.82	8CN	£2379	£2795.32
16EN	£749	£880.07	20NPS	£899	£1056.32	20ENDX	£1069	£1256.07	Toner	Call	
16ENPS	£869	£1021.07	20NDX	£909	£1068.07						

**OKI DOT MATRIX**

**MicroLine280**

**MicroLine590P**

- Compact & robust 9 pin printer.
- Print width: 80 columns
- Print speed: 300cps (super speed draft), 200cps (utility), 50cps (NLQ)
- Short forms tear off, bottom feed, optional pull tractors & cut sheet feed
- Interface: parallel, optional serial versions.



- Print width: 80 columns
- Emulation IBM & Epson EscP2
- Ideal 24 pin printer
- Intelligent printhead
- Print speed: 450cps max, 300cps draft, 100cps LQ
- Zero tear off, auto sheet loading, push tractors, resident barcodes
- Interface: parallel. Optional serial



ML320P	£299	£346.63	ML3390	£329	£381.87
ML321P	£375	£417.13	ML3321	£365	£428.88
ML380P	£209	£245.58	ML3391	£379	£445.33
ML385	£319	£374.83	ML521P	£105	£452.38
ML395M	£639	£739.08	ML590P	£429	£504.08
ML395C	£714	£838.95	ML591P	£499	£581.63
ML520P	£329	£388.98	ML3410	£799	£934.13
ML3320	£309	£363.08			

**OKI 280P**  
£179 ex vat  
£210.33 inc vat

**OKI 590P**  
£429 ex vat  
£504.07 inc vat

**OKI FAXES**

**OKIFAX 610**

**OKIFAX 660**

- Plain paper facsimile
- High speed transmission
- 10 one-touch dials
- Alpha dialling for 99 numbers
- Auto F/T switching
- Memory for fax transmission and reception (up to 50 pages in total)



- Plain paper facsimile
- High speed transmission
- Speakerphone
- Multi-user answering machine
- Memory for fax transmission & reception (up to 50 pages in total)



OKIFAX 740	£279	£327.82
OKIFAX 740MF	£329	£386.57
OKIFAX 4100	£419	£492.32
OKIFAX 5200	£769	£927.07
OKIFAX 5500	£989	£1162.07
OKIFAX 2600	£1489	£1749.57

**OKI 610**  
£199 ex vat  
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**OKI 660**  
£229 ex vat  
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**Ecosys**

**FS-6700**

The new FS-6700 has the lowest cost of any laser printer, courtesy of its ECOSYS cartridge-free technology, bringing the cost of printing down to just 0.3p per page.

The **NEW FS-6700** has the lowest consumables cost of any laser printer, courtesy of its ECOSYS cartridge-free technology, bringing the cost of printing down to just 0.3p per page.

- A4 and A3 printing!
- 20ppm ECOSYS laser printer
- Up to 1200dpi resolution\*  
 \*with Kyocera Image Refinement

£999 ex vat    £1173.82 inc vat



**FS-1700+**



**KYOCERA FS-1700+**  
 £489 ex vat  
 £574.57 inc vat

- 12ppm network laser printer
- 2mb pre-installed memory
- 250sht cassette / 100sht multi-feed
- SNMP compliant / Plug & Play

**PRICE CRASH ON 8PPM LASER**

**FS-800**

£339 ex vat    £398.32 inc vat

The **FS-800** is now down in price to just £339 + vat and includes the following award winning functions:

- 8ppm print speed
- 4Mb RAM, upgradeable to 36Mb
- Ultra fast 50MHz power PC processor
- 600dpi plus resolution enhancement
- PCL5e and PostScript level 2 emulations



**FS-600**



**KYOCERA FS-600**  
 £229 ex vat  
 £269.07 inc vat

- 600dpi, 6ppm laser printer
- Cartridge free technology
- 50MHz PowerPC processor
- Ethernet/Serial interface options

FS-3700+	£669	£786.07	FS-1700+	£489	£574.57	FS-6500 A3	£1170	£1374.75
FS-3700T+	£745	£875.37	FS-1700N+	£649	£762.57	FS-7000 A3	£1699	£1996.32
FS-3700N+	£850	£998.75	FS-1700T+	£565	£663.87	FS-600	£229	£269.07
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XEROX have a history of excellence in document management - With products installed in many leading corporates worldwide. Now, as they focus on the direct channel, Tech Direct are proud to be able to supply their products. Their feature rich, price competitive products are already winning awards.

**DOCUPRINT 4512**



Let the DocuPrint 4512 show you a new side of productivity. Xerox have included many features in this model as standard that are expensive options on printers from some other manufacturers: Duplex printing, 2 x 250 sheet paper input bins and a one year on site "swap out" warranty to name but a few.

- 600 x 600 dpi laser technology
- Up to 12ppm print speed
- Duplex standard - two sided printing
- Two built-in 250 sheet universal trays
- Long-life recyclable cartridge

XEROX 4512	XEROX 4512N	XEROX 4512MP
£649 ex vat	£749 ex vat	£989 ex vat
£762.57 inc vat	£880.07 inc vat	£1162.07 inc vat

**DOCUPRINT C55**

**The No.1 colour laser in the U.K here's why -**

PC Plus, Editors Choice beating Lexmark, HP and QMS "Xerox has come through with a stonking little colour laser printer, which offers a lot at a low price." Network World, Recommended against HP 5Si mopier, Lexmark Optra S 2450n, QMS 2425Ex Print System "Yes, even against the cream of monochrome printers, the C55 more than holds its own - it beats them!"

- 600 x 600 dpi colour and mono resolution
- Upto 12 pages per minute performance
- 30Mb standard memory - upgradeable
- Multiple media versatility
- PCL 5C emulation, Adobe PostScript L2

XEROX C55	XEROX C55MP	XEROX C55MPV
£1499 ex vat	£1999 ex vat	£2799 ex vat
£1761.32 inc vat	£2348.82 inc vat	£3288.82 inc vat

**HOMECENTRE or WORKCENTRE**

**Colour printer, Colour Copier, Detachable Colour Scanner ALL IN ONE!**



The Ultra compact, affordable Homecentre from Xerox only takes up the space of a typical printer, but is also a high quality full colour scanner and colour copier! The Homecentre comes bundled with scanning, creative & image enhancement software which allows you to get up and running immediately.

- Scanning, creative and image enhancement software
- High quality colour and monochrome output
- Copying up to 99 pages
- Up to 6ppm mono
- Up to 1ppm colour

XEROX HomeCentre	XEROX WorkCentre
£114 ex vat	£249 ex vat
£175.07 inc vat	£292.57 inc vat

**DOCUPRINT XJ4C/6C/8C**



- 4 ink print head system
- Prints 6 ppm Mono, 1.5 ppm Colour
- Suitable for both DOS and Win Printers
- Free image software enhancement
- 600x600 dpi (1200x600 dpi High Res)
- Prints 8 ppm Mono, 2.5 ppm Colour
- Separate Ink cartridges
- Free image software enhancement
- 1200x1200 dpi on plain paper
- Prints 8 ppm Mono, 4 ppm Colour
- Laser Sharp waterproof black printing
- Optional Photocopy print cartridge

XEROX XJ4C	XEROX XJ6C	XEROX XJ8C
£89 ex vat	£109 ex vat	£149 ex vat
£104.57 inc vat	£128.07 inc vat	£175.07 inc vat

4508	£249	£292.57	N32	£1649	£1937.57
N17B	£649	£762.57	N32CN	£2599	£3053.82
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The fastest performance for greater productivity in Win NT and Win 95

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- A one card solution for competitive performance
- 3D, 2D and video acceleration, with AGP Chipset
- Superior 3D quality with bilinear filtering, alpha blending and special effects
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3Dxpert@Play 8mb	£65	£76.37
3Dxpert@Play AGP 4mb	£33	£36.27
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Advanced 2D, 3D and software DVD Video acceleration  
NEW MGA-G200 1280-Bit DualBus graphics  
High quality 3D rendering engine  
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Acceleration for demanding business graphics

- 64-bit AGP-ATX graphics card
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- 1600 x 1200 resolution in true colour for spreadsheets and large documents
- 3D acceleration with excellent API support
- Ideal for computer based training
- High speed 230 Mhz RAMDAC for flicker free displays
- Fully multimedia upgradeable

4Mb AGP OEM  
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- High performance Video card with full AGP 2X support
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6Mb AGP OEM  
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ProNitron 20" TT	£609	£715.57
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Multisync M500 15"	£205	£240.87
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Multisync M700 17"	£389	£457.07
Multisync P750 17"	£368	£432.40
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449Xa Plus 15"	£179	£210.32
447za 17"	£259	£304.32
447X Pro 17"	£289	£337.82
447X Pro A 17"	£459	£539.32
445Xi Plus 21"	£649	£762.57
445X Pro 21"	£669	£786.07

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Ergovision 740 17"	£295	£346.62
Ergovision 740S 17"	£299	£351.32
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Ergovision 760S 17"	£259	£304.32
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E771 17"	£109	£128.07
GS771 17"	£299	£351.32
GA771 17"	£169	£198.57
G771 17"	£299	£351.32
GT775 17"	£189	£220.87
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P775 17"	£149	£170.07
PT775 17"	£169	£198.57
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**STB**

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BlackMagic 3D		
Voodoo 2 12Mb	£155	£182.12
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WinTV Radio PCI	£84	£98.70
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WinTV Cinema Pro		
MPEG UG	£74	£86.95
WinTV Video Output Module	£89	£104.57
Video Wizard	£115	£135.12
Win Motion 50	£295	£346.62

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**DIAMOND Monster Fusion**

The first Monster board with 2D and 3D acceleration met together

- No further graphics boards required
- Supports games via the Microsoft Direct3D™ API or 3Dfx Glide™ API
- Available with up to 16 Mb SDRAM with PCI or AGP

DIAMOND PCI 16Mb	£29 ex vat	£34 inc vat
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- Supports Direct 3D, Glide, Open GL
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Next generation in NVIDIA TNT technology

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Sleath II G460 AGP	£42	£49.87	Monster 3D II Games 8mb	£65	£71.62
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- Complete with drivers for Win 95/98/NT
- TV out connector

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 • Integrated stereo amplifier with DOME stereo speakers  
 • Built-in mic plus earphone lock  
 • Flicker-free up to 1024 x 768 NI @ 85Hz  
 • 0.28mm Dot Pitch  
 • Digital controls with on-screen display  
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**SW57i**  
 15" (13.8" viewable) screen  
 • Multi-sync support from 640 x 480 up to 1280 x 1024 NI  
 • Flicker-free up to 1024 x 768 NI @ 85Hz  
 • 0.28mm Dot Pitch  
 • Digital controls with on-screen display  
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CPD-200est	£259	£304.32	CPD-500pst	£739	£868.32
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 • Features Mitsubishi's 100% Flat DiamondTron CRT technology  
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- Plug & Play, Win 95 compatible
- 3 year On Site warranty



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- Black Matrix CRT screen

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- Autoscan
- On Screen display
- Digital Control
- Black Matrix CRT screen

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- 15" FST 0.26mm Dot pitch
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- Complies with MPRII requirements

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- TCO 95 and MPRII compliant

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- VM Pro 400
- 17" DiamondTron
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- On-Screen Display Menu
- Colour Balance Control
- TCO 95 and MPRII compliant

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- VM 450
- 19" FST 0.26mm Dot pitch
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- Colour Balance Control
- TCO 95 and MPRII compliant

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- 21" DiamondTron
- Up to 1600x1200 @ 85Hz
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- Colour Balance Control
- TCO 95 and MPRII compliant

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- Digital on-screen display
- Conforms to TCO 95



Model: 10 60 20

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Model: 10 70 50

**Belinea 10 70 50**  
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10 50 46	15"	0.28	£116	£139.82	10 70 50	17"	0.25	£259	£304.32
10 50 80	15"	0.27	£134	£163.32	10 60 20	19"	0.26	£295	£346.62
10 70 20	17"	0.28	£169	£198.57	10 90 15	21"	0.25	£614	£721.45
10 70 25	17"	0.27	£188	£220.90	10 90 50	21"	0.26	£559	£656.82
10 70 40	17"	0.26	£189	£233.82	10 15 10	15"	TFT	£599	£703.82
10 70 60	17"	0.27	£225	£264.37					

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- Flat screen, invar shadow mask, anti-glare
- Ultra high resolution to 1280 x 1024 @ 60Hz
- Full screen eliminates black border
- EasyScreen on-screen menu
- Win 95 Plug & Play compatibility
- Energy Star, MPRII, TCO 95 compliant

**19 inch** **MICROSCAN 6P 19"**

- Flat screen, invar shadow mask, anti-glare
- Ultra high resolution to 1600 x 1200 @ 75Hz
- Full screen eliminates black border
- EasyScreen on-screen menu
- Win 95 Plug & Play compatibility
- ProColor colour adjustment
- Energy Star, MPRII, TCO 95 compliant

ProVista V30	£74	£86.95	MicroScan 6G	£525	£616.87
ProVista E44 15"	£95	£111.62	MicroScan 4P	£109	£128.07
ProVista E33	£84	£98.70	MicroScan 5P	£179	£210.32
MicroScan 5G 17"	£245	£287.87	MicroScan 6P 19"	£349	£410.07
MicroScan 5GT	£266	£311.37	MicroScan 5T 14"	£599	£703.82

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**CM641ET 17"**

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- New high contrast tube - superior display
- 0.21mm horizontal mask pitch
- Flicker free screen
- Up to 1600 x 1200 resolution
- PC, Mac and Workstation compatible
- TCO '95 compliance

**CM500ET** **£119 ex vat** **£139.82 inc vat**

**CM500ET 15"**

- 15" Colour display monitor
- Fully featured compact desktop monitor
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*A new professional model for 1998, capable of ultra high resolutions & refresh rates. An On Screen Display provides full control of picture quality, including RGB Adjustment & Dynamic Focus*

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- Easy-to-use On Screen Display
- Ultra High resolution to 1600 x 1200 @ 75 Hz
- Recommended resolution 1280 x 1024 @ 85Hz
- Dot pitch 0.25mm
- Windows 95 Plug & Play Compatibility
- TCO 95 Compliant

**Smile CA6729SL**  
 £242 ex vat £284.35 inc vat

**CA6746SL 17" Monitor**  
*Hailed by PC Pro as managing a stable and crisp image, even in the far reaches of the screen.*

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- Recommended resolution 1024 x 768 @ 85Hz
- 0.28mm dot Pitch
- 17 Display Modes

**Smile CA6746SL**  
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**CA6536SL 15" Monitor**  
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**Smile CA6536SL**  
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**Futura L 4031**

- 14", 0.28mm Dot Pitch Non glare
- Viewable Image 13.6"
- 1024 x 768 Non Interlaced
- Compatibility: VGA 640 x 480, SVGA 800 x 600 @ 56/60/72/75 Hz, VESA 1024 x 768
- Memory modes: 8 factory, 12 user settings

**Likom Futura L 4031**  
 £69 ex vat £81.07 inc vat

**Futura L 5032**

- 15", 0.28mm Dot Pitch Non glare, FST
- Viewable Image 14"
- 1280 x 1024 Non Interlaced
- Compatibility: VGA 640 x 480, SVGA 800 x 600 @ 56/60/72/75 Hz, VESA 1024 x 768 @ 60/70/75/85 Hz 1280 x 1024 @ 60Hz
- Memory modes: 12 factory, 12 user settings

**Likom Futura L 5032**  
 £85 ex vat £99.87 inc vat

**Futura L 7031**

- 17", 0.26/0.27/0.28mm Dot Pitch Non glare, FST, Invar mask, Double focus.
- Viewable Image 16.3"
- 1280 x 1024 Non Interlaced
- Compatibility: VGA 640 x 480, SVGA 800 x 600 @ 56/60/72/75 Hz, VESA 1024 x 768 @ 60/70/75/85 Hz 1280 x 1024 @ 60Hz
- Memory modes: 12 factory, 12 user settings

**Likom Futura L 7031**  
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# LG MULTI-MEDIA RANGE

Nobody is further ahead in IT than LG. £1.5m is spent every day on R&D and £2bn is being invested in a manufacturing plant in Wales, ensuring LG Electronics' position as a leading player in a very exciting digital future.

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When it comes to monitors, our commitment is second to none. Our new manufacturing plant in Wales is the largest in Europe and is dedicated to making monitors and tubes. LG monitors are packed with high-end features such as TCO '95 emissions compliance and the 'Genesis chip' in the 500LC, which allows viewing of SVGA/VGA graphics modes as well as XGA at full screen size.

Then there's the Flatron with its 99.9% flat screen for almost zero distortion, brilliant for viewing graphics intensive designs where accuracy really counts.

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Our handheld PC really is 'Totally portable computing'. We are one of only a few exclusive manufacturers authorised to use WINDOWS CE. In addition it is the only HPC that can run POWERPOINT presentations without any additional software or hardware.

### CD-ROM

LG is the UK's industry leading manufacturer of branded CD-ROM drives.

The magnetised ball balance mechanism ensures minimum vibration (which improves efficiency for increased speeds eg 32X).



Features available on all monitors

## Serious hardware for the digital age

### MONITORS



#### 500LC

15.1" (15.1" viewable) screen

- Brilliant active matrix TFT display
- Genesis chip allows full SVGA/VGA
- Wide viewing angle: 40° left and right
- Bright 200cd/m display
- Multi-sync supports up to 1024x768 @ 75Hz

£675 ex vat £793.12 inc vat



#### SW77TS

17" (15.8" viewable) screen

- Ultra contrast tube ensures greater levels of contrast and colour purity
- Flicker-free up to 1024x768 NI (non-interlaced) @ 85Hz
- 0.28mm Dot Pitch
- Digital controls with on-screen display
- Made in the UK

£175 ex vat £205.62 inc vat



#### SW216SC

21" (20" viewable) screen

- 30-95KHz PST
- Flicker-free 1600x1200 NI (non-interlaced) @ 75Hz
- Digital controls with on-screen display
- 0.28mm Dot Pitch with Double Focus Circuitry

£589 ex vat £692.07 inc vat



#### SW77M

17" (15.7" viewable) screen

- Integrated stereo amplifier with DOME stereo speakers
- Built in mic plus earphone jack
- Flicker-free up to 1024x768 NI (non-interlaced) @ 85Hz
- 0.28mm Dot Pitch

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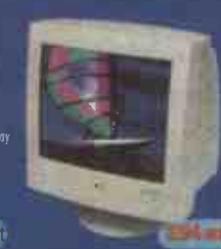


#### SW795SC

17" (16" viewable) screen

- 100Hz ultra high resolution mode
- 0.26mm Dot Pitch
- Maximum Flicker-free resolution of 1600x1200 @ 80Hz
- Digital controls with on screen display
- TCO '95 approval
- Made in the UK

£269 ex vat £316.07 inc vat



#### SW57i

15" (13.8" viewable) screen

- Multi-sync support from 640x480 up to 1280x1024 NI
- Flicker-free up to 1024x768 NI (non-interlaced) @ 85Hz
- 0.28mm Dot Pitch
- Digital controls with on-screen display
- Made in the UK

£94 ex vat £110.45 inc vat

All monitors come with a 3 year on-site, swap-out warranty. \*TCO '95 on all monitors except SW57i.

### HANDHELD PC



#### PREMIUM H-1200 HANDHELD PC

- Windows CE 2.0 operating system inc. Pocket Word, Excel, PowerPoint Viewer, Explorer & Schedule
- Extra wide LCD screen & large keyboard
- In built VGA for full colour PowerPoint presentations
- 8MB RAM & 16MB ROM inc. Pre-installed software
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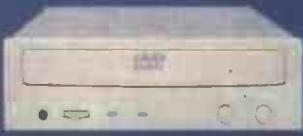
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24X MAX EXTERNAL CD-ROM Drive

- Operates through PCMCIA attached
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- Fast 130ms Average Access Time
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- MPC III Compliant

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#### DVD-830B

Double Speed DVD-ROM Drive

- Plays all DVD-ROM Discs including MPEG2 discs with MPEG2 decoder card
- Single & dual Layer Support in DVD Mode
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- 2x Speed DVD-ROM Data Transfer (2.7MB/sec)
- 24x Speed CD-ROM Data Transfer (3.6MB/sec Max)

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#### CRD-4370K

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**Rockwell chipset K56flex with V.90 code and modem wizard to tell you when your ISP has upgraded to V.90. Fax/data/voice plus video with the QuartSight camera system. Flash upgradeable, plug & play, internal telephone line splitter. QuartSight Camera System only £49 +vat.**

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The Official retail box Yamaha Value kit - The World's first & fastest 4x2x6x CD-ReWritable drive from Yamaha. (IDE or SCSI)

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4 WRITE 2 REWRITE 6 READ

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- Adaptec 1505 SCSI card £29 + vat
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**YAMAHA 4260Internal**  
£189 ex vat £222.07 inc vat

**CDRW4260 External**

The VK on the end of the product code stands for "Value Kit", this kit contains most of what you need to start using your CD-ReWritable straight away. The spec of the actual CRW unit is exactly the same as the non value kit version, or in this case a CRW 4260tx Ext tray loading unit.

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£229 ex vat £269.07 inc vat



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- Internal IDE 4x2x6x CD Re-Writer
- 1 piece of CDR & CDRW media included
- Includes: Mounting hardware, audio cable, user guide
- Direct CD & Easy CD Creator software

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**CRW4416T VK Int SCSI 4x4x16 retail boxed CDRW**

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**32X IDE CD-ROM FULL RETAIL KIT**

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- Cable set
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- 4x write, 12x read CD recorder
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ATAPI interface for high speed data transfer 13.3Mb/sec  
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High loading durability  
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The 24 speed CD-524E drive offers a combination of speed and multiple enhancement such as advanced noise/vibration control.

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**8 speed, 6 disk, internal**

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A Complete, easy-to-use CD-RW solution for storing and sharing information.

This solution contains a complete suite of software packages that provides business professionals with comprehensive rewritable CD technology.

- Software inc: Adaptec Direct CD, HP SimpleTrax, Norton Anti-Virus, Corel PrintHouse Magic, Adobe Photo Deluxe, DocuMagix PaperMaster Live, Spector Photo Organiser and Adaptec Easy CD Creator.
- Stores up to 650Mb of data or up to 74 mins audio.
- Norton Antivirus software protects data and ensures virus free CD creation.
- Drag and Drop files onto CD or write direct to disc from applications (Windows 95 & Win NT v4.0).
- Create CDs for CD-ROM drives and audio players
- Use rewritable technology to write, erase and rewrite files or use write-once CD-R media to create safe, permanent storage.
- Comes with Install Assistant for quick and easy set-up.
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£166.95 ex vat  
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Professional PC users in small business are likely to find that the HP CD-Writer Plus 7200 is the ideal solution to store, share and transport files. It will also appeal to departments within larger organisations, professional communicators, sales people, software developers and CAD users.

- Software inc: Adaptec Direct CD, HP SimpleTrax, Norton Anti-Virus, Corel PrintHouse Magic, Adobe Photo Deluxe, DocuMagix PaperMaster Live, Spector Photo Organiser and Adaptec Easy CD Creator.
- Stores up to 650Mb of data or up to 74 mins audio.
- Norton Antivirus software protects data and ensures virus free CD creation.
- Drag and Drop files onto CD or write direct to disc from applications (Windows 95 & Win NT v4.0).
- Create CDs for CD-ROM drives and audio players
- Use rewritable technology to write, erase and rewrite files or use write-once CD-R media to create safe, permanent storage.
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NEW Product!!  
24x4x2

Leading edge CD-RW performance gives users the power to create CDs quickly for maximum convenience and versatility

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- Formats CD-RW media in under 5 mins - as simply as formatting a floppy disk.
- Up to 24 speed read; 4 speed write for CD-R and 2 speed write for CD-RW.
- Uses rewritable and write once-media
- Creates CDs compatible with most future DVD ROM and DVD+RW players.
- Software inc: Adaptec Direct CD/Adaptec Easy CD Creator., HP SimpleTrax, HP Disaster Recovery, HP Install Assistant.
- Drag and Drop files onto CD or write direct to disc from applications (Windows 95,98 & Win NT v4.0).
- Comes with Install Assistant for quick and easy set-up.
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OUR BEST VALUE, BEST SELLING CD - RECORDER

NEW!! 4x8 Recorder Out Now!!



Mitsumi's new CR - 4801TE comes bundled with the "Mitsumi music centre" (including the original Magix Software for producing your own music) Also included is TO GO! V4.5 CD writer Software, Packet CD UDF software and 3 blank CDR's. At only £175 + vat, it's hardly surprising that this is our best selling CD writer. Important note: Unlike CD-RW media self-written audio CD's can be played on any audio CD player in any CD-ROM drive.

Mitsumi's new CR-4801TE lets you easily create custom CD's holding up to 650Mb of data or 74 minutes of audio - in around 15 minutes!

- Combines a 4x writer and 8x reader
- Playback Speed: 1200KB/s
- Write up to 650Mb of data per disk
- Easy installation
- Unique dust-proof design reduces the possibility of writing errors, increases reliability
- 2Mb buffer cuts underruns and gives high data accuracy
- ATAPI Enhanced IDE interface
- Windows 95 Compatible.
- Ideal for data intensive applications such as multimedia, electronic publishing, training, promotional tools, and data archiving
- 1 year warranty

NEW!! MITSUMI CR 4801TE  
£144.99 ex vat £170.36 inc vat

2x8 CD-R

MITSUMI CR 2801TE  
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PHILIPS CDD3600  
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Just what you've always wanted is now available. The CD-Rewritable Kit from Philips. You get a 6X CD-ROM player that lets you create your own CD's. Play any CD-ROM, record information on low cost CD-Recordable (CD-R) media and write or rewrite standardized CD-Rewritable discs.

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MPB3043 4.3GB	£79	£92.82
MPB3064 6.4GB	£99	£116.32
MPB3084 8.4GB	£119	£139.82
MPB3102 10.2GB	£144	£169.20
<b>WESTERN DIGITAL</b>		
<b>IDE</b>		
WDAC22500 2.5GE	£74	£86.95
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WDAC34300 4.3GE	£85	£99.87
WDAC35000 5.1GE	£94	£110.45
WDAC36400 6.4GE	£99	£116.32
WDAC38400 8.4GE	£119	£139.82
WDAC31010 10GB	£139	£163.32

### The 100Mb Power Diskette

Zip is 20 times as fast and offers 70 times the space of a traditional floppy.

- 100Mb and 25Mb capacity
- Affordable personal storage and backup
- Fast, Easy, Worry-free back-up
- Zip Tools software included
- Move your work easily to any location



Zip Drive Int Retail	£55	£64.62	Zip Ext + 6 Disks	£80.99	£10.73
Zip Drive Int OEM	£49.95	£58.69	Zip Zoom Card	£24	£28.20
Zip Drive Ext/SCSI	£69	£81.07	Zip 100Mb Disk	£5.99	£7.03
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### The Buz MultiMedia

The easiest way to get multimedia into your PC, personalise it, and share it with others!

- Ultra SCSI technology
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- Motion JPEG video capture and Play back
- Onboard hardware compression up to 80:1
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**Buz MultiMedia £103.95 £129.19**

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PD Drive 650Mb IDE	£179	£210.32
PD Drive 650Mb P	£224	£263.20
PD Drive 650Mb S	£199	£233.82
<b>Quantum</b>		
DLT 4000 SCSI	£1599	£1878.82
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Tapestor 8000L IDE	£153	£179.77
Tapestor 8000S SCSI	£159	£186.82
Tapestor 8000S Ext	£225	£264.37
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STD2400N 4GB	£339	£398.32
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SDT-5200 SCSI	Call	
SDT-7000 SCSI	£429	£504.07
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### Ditto 2GB

- Int version fits any standard 5.25" bay
- 2Gb with data compression
- Win 3.1, 95, NT and OS/2 Compatible
- Ext version sits horizontally or vertically

**Ditto 2Gb Bundle consists of:**

- One Ditto 2Gb tape drive - including usual software etc.
- One large Ditto carry case. FREE!
- Three Ditto 2Gb pieces of media
- One Ditto NT driver. FREE!



**Ditto 2Gb Int £64 £64.62**

### Ditto Max and Ditto Max Pro

Powerful desktop storage and tape backup in one simple device

- Customise capacity with 3.5Gb, 5Gb, 7Gb and 10" cartridges
- Back up while you work
- Easy 1-step software
- Flash!File - 5 second average access time
- FullBack system recovery software



**Ditto Max Pro Ext (10Gb) £155 £182.12**  
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- Available as an External drive for Maximum portability
- Jaz Tools utility software



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External	£174	£204.45
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- 2Gb of storage space on each Jaz cartridge
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- Ideal as a HD backup. Provides 4Gb capacity with 2.1 compression
- Complete set of software
- Packaged to suit you



Jaz 2Gb Int	£199	£233.82
Jaz 2Gb Ext	£199	£233.82
2Gb Disk x 1	£58	£68.15
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Internal drive for the same price as the external drive.  
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**NEW! SparQ 1.0GB drive... "The Personal Solution"**

is the latest from SyQuest! - a superb combination of performance and value, it's the ideal choice for small / home offices, business travellers, families, students, web surfers, gamers, presenters, and writers. Gain unlimited capacity at a fraction of the cost of buying an additional computer.

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- Play games 2x faster than a CD!

**NEW! Syjet 1.5GB drive... "The Professional Solution"**

Award winning, high performance drive with enormous capacity and blazing speed. The perfect choice for musicians, graphics / dtp, publishers, webmasters & multimedia gurus.

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Syjet 1.5Gb Parallel Port - Ext	£179	£210.32	Syjet 1.5Gb Cartridge - 3 pack	£115	£135.12
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Born of 3M Innovation



- Includes 4 Imation Superdisk Diskettes
- 120MB storage on one 3.5" Superdisk Diskette
- Reads & Writes to Superdisk 120Mb diskettes and standard 1.44Mb floppy diskettes
- Up to five times faster than a standard floppy drive
- Parallel port for easy hook-up and portability

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**Inc. 4 LS-120 Disks.**

<b>MITSUBISHI</b>	Internal LS-120	LS-120 Disk
Provides 120MB storage in a format compatible with conventional 3.5" HD and DD diskettes.	£49 ex vat	£9 ex vat
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CAPACITY FOR THE EXTRAORDINARY™

**FireBall EX - The NEW Super Fast HD!**

With a 9.5ms access time and a 512kb buffer the enhanced performance of the new FireBall EX series is an attractive option for those users wanting to attain near-SCSI performance through the IDE interface. Drives are available from 2.5GB to a massive 10.2GB.

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
Fireball EX series	3.2Gb	EIDE/Ultra DMA	9.5ms	5400	£72	£84.60
Fireball EX series	5.1Gb	EIDE/Ultra DMA	9.5ms	5400	£86	£101.05
Fireball EX series	6.4Gb	EIDE/Ultra DMA	9.5ms	5400	£97	£113.97
Fireball EX series	10.2Gb	EIDE/Ultra DMA	9.5ms	5400	£139	£163.32
Fireball EX series	12.7Gb	EIDE/Ultra DMA	9.5ms	5400	£188	£220.90

**FireBall EL - The Choice for Power Users!**

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
Fireball EL series	2.5Gb	EIDE/Ultra DMA	9.5ms	5400	£62	£72.85
Fireball EL series	5.1Gb	EIDE/Ultra DMA	9.5ms	5400	£87	£102.22
Fireball EL series	7.6Gb	EIDE/Ultra DMA	9.5ms	5400	£109	£128.07
Fireball EL series	10.2Gb	EIDE/Ultra DMA	9.5ms	5400	£139	£163.32

**Atlas III - Ideal for workstation and high-end Users!**

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
Atlas III	9.1Gb	SCAU SCSI	8ms	7200	£379	£445.32
Atlas III	9.1Gb	UltraWide SCSI	8ms	7200	£379	£445.32
Atlas III	18.2Gb	SCAU SCSI	8ms	7200	£639	£750.82
Atlas III	18.2Gb	UltraWide SCSI	8ms	7200	£639	£750.82

**Viking II - For Maximum Storage Potential!**

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
Viking II	4.5Gb	SCAU SCSI II	7.5ms	7200	£184	£216.20
Viking II	4.5Gb	UESCSI	7.5ms	7200	£184	£216.20
Viking II	9.1Gb	SCAU SCSI II	7.5ms	7200	£315	£370.12
Viking II	9.1Gb	UltraWide SCSI	7.5ms	7200	£315	£370.12

**Bigfoot Tsunami - For the home user!**

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
BFTsunami 512K cache	6.4Gb	EIDE/Ultra DMA 33	10.5ms	4000	£86	£101.05
BFTsunami 512K cache	8.4Gb	EIDE/Ultra DMA 33	10.5ms	4000	£129	£151.57
BFTsunami 512K cache	12.7Gb	EIDE/Ultra DMA 33	10.5ms	4000	£145	£170.37
BFTsunami 512K cache	19.2Gb	EIDE/Ultra DMA 33	10.5ms	4000	£208	£244.40

**Seagate** HARD DRIVES

**EIDE Hard Drives**

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
Medalist ST33210A	3.2Gb	EIDE/Ultra ATA3	9.5ms	5400	£69	£81.07
Medalist ST34321A	4.3Gb	EIDE/Ultra ATA3	10.5ms	5400	£76	£89.30
Medalist ST36531A	6.5Gb	EIDE/Ultra ATA3	10.5ms	5400	£95	£111.32
Medalist ST36841A	8.6Gb	EIDE/Ultra ATA3	10.5ms	5400	£115	£135.12
Medalist ST39140A	9.1Gb	EIDE/Ultra ATA3	9.5ms	7200	£134	£157.45

**SCSI Hard Drives**

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
Barracuda ST34573N	4.5Gb	UltraSCSI	8ms	7200	£289	£339.57
Barracuda ST34573W	4.5Gb	UltraWide SCSI	8ms	7200	£289	£339.57
Barracuda ST39173N	9.1Gb	UltraSCSI	8ms	7200	£349	£410.07
Barracuda ST39173W	9.1Gb	UltraWide SCSI	8ms	7200	£349	£410.07
Barracuda ST118273N	18.2Gb	UltraSCSI	8ms	7200	£649	£762.57
Barracuda ST118273W	18.2Gb	UltraWide SCSI	8ms	7200	£649	£762.57
Cheetah ST34501N	4.5Gb	UltraSCSI	8ms	10000	£315	£370.12
Cheetah ST34501W	4.5Gb	UltraWide SCSI	8ms	10000	£315	£370.12
Cheetah ST39102LW	9.1Gb	UltraWide LVD	6ms	10000	£475	£558.12
Cheetah ST39102LC	9.1Gb	UltraWide LVD SCA	6ms	10000	£435	£511.12
Cheetah ST118202LW	18.2Gb	UltraWide LVD	6ms	10000	£795	£934.12
Cheetah ST118202LC	18.2Gb	UltraWide LVD SCA	6ms	10000	£795	£934.12

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**IBM Titan 14GXP**

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
03L5261	10.1Gb	EIDE/Ultra DMA/33	9.5ms	7200	£155	£182.12
00K4071	14.4Gb	EIDE/Ultra DMA/33	9.5ms	7200	£229	£269.07

**Titan 16GP**

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
00K4115	6.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	£105	£123.37
00K4101	8.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	£112	£131.60
00K4091	10.1Gb	EIDE/Ultra DMA/33	9.5ms	5400	£129	£151.57
00K4083	12.9Gb	EIDE/Ultra DMA/33	9.5ms	5400	£169	£198.57
00K4073	16.8Gb	EIDE/Ultra DMA/33	9.5ms	5400	£229	£269.07

**UltraStar**

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
9ES 1"	9.1Gb	UltraSCSI	7.5ms	7200	£309	£363.07
9ES 1"	9.1Gb	UltraWide SCSI	7.5ms	7200	£325	£381.87
9XZ 1.6"	9.0Gb	UltraWide SCSI	6.3ms	10020	£409	£480.57
18XP 1.6"	18Gb	UltraSCSI	7.5ms	7200	£649	£762.57
18XP 1.6"	18Gb	UltraWide SCSI	7.5ms	7200	£649	£762.57

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8.4Gb	ULTRA DMA	<9ms	5400	£115	£135.12
13Gb	ULTRA DMA	<9ms	5400	£178	£209.15
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**DiamondMax 3400 Series ULTRA DMA33**

Capacity	Interface	Access time	Speed	ex vat	inc vat
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6.8Gb	ULTRA DMA	9ms	5400	£98	£111.62
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13.6Gb	ULTRA DMA	9ms	5400	£178	£209.15

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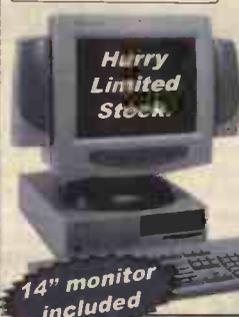


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- ALI Aladdin 5 chipset
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- 3 X PC100 DIMM sockets
- 3 X PCI, 2 X ISA, 1 X AGP slots
- PC health monitoring
- Baby AT Form factor



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- ASUS P5A
- ALI Aladdin 5 chipset
- 100MHz Super socket 7 for AMD K6-2
- 3 X PC100 DIMM sockets
- 5 X PCI, 2 X ISA, 1 X AGP slots
- PC health monitoring
- ATX Form factor

- ASUS P2B
- Intel 440BX chipset
- 100MHz Bus supports up to PII 450MHz
- 3 X PC100 DIMM sockets
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- ATX Form factor

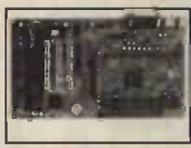
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**Excellent 1 Motherboard**

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- 1x AGP, 3x PCI, 3x ISA slots
- Supports IrDA, USB, ACPI
- Intelligent monitoring system for system voltage, temperature, chassis intrusion and fan speed (optional)
- DMI compliance and built-in NCR 53C810 BIOS support
- SpeedEasy for jumperless CPU upgrade or jumper emulation mode



QDI Excellent 1 £59 ex vat £69.32 inc vat

**Advance 3 Motherboard**

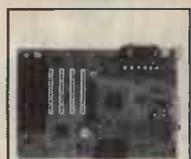
- Super Socket 7 Motherboard - Supports AMD K6-2 series up to 350MHz
- 2x PCI, 2x ISA slots
- Supports IrDA, USB, ACPI
- Supports bootable LS-120 & Wake on LAN
- Supports Win 95/98 software Power-Down



QDI Advance 3 £55 ex vat £64.62 inc vat

**Brilliant 1 Motherboard**

- Intel PII processor up to 450MHz
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- Supports IrDA, USB, ACPI
- Intelligent monitoring system for system voltage, temperature, chassis intrusion and fan speed (optional)
- DMI compliance and built-in NCR 53C810 BIOS support
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- 5 PCI slots, 2 ISA slots, 1 AGP 2x slot
- Onboard Dual USB ports
- ATX form factor



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**Micronics C300**

- Intel PII 233-333MHz (66MHz FSB)
- Intel 440LX AGP chipset
- 3 x 3.3v DIMMS (max 384Mb)
- 5 PCI slots, 2 ISA slots, 1 AGP 2x slot
- Onboard Dual USB ports
- ATX form factor

**Micronics C200**

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- 3 x 3.3v DIMMS
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- Onboard Dual USB ports
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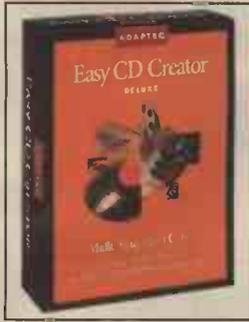
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JANUARY 1999 EDITION

ISSUE 43

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**YEAR 2000**

# DIRECT

*focus*

DABS DIRECT PRODUCT NEWS & PRICE GUIDE



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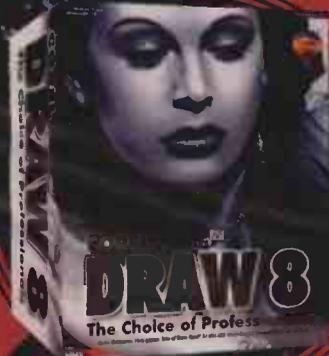
**Only £995** (£1169.12 inc VAT) See page 48 for details



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**TFT Notebook**

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Sales **0870 129 3000** Sales Fax **0870 129 7000** Edinburgh **0131 556 4114** London **0171 582 4777**  
All 0870 calls charged at national rate

**CUSTOMER SERVICES 0870 129 3220 cs@dabs.com**

We are fast approaching our busiest quarter and would like to remind you of the contact numbers you may require if you have a problem. We have added our email addresses (Customer Services [cs@dabs.com](mailto:cs@dabs.com) or Technical Support [ts@dabs.com](mailto:ts@dabs.com)) which should ensure you a speedier response. Can I also remind you that to avoid disappointment on Christmas Day, please check your products on receipt, don't wait until the 25th. If you have a faulty or incorrect item the following procedures below. Remember we replace faulty goods with in 28 days of purchase.  
Wishing you all a Merry Christmas and a Happy New Year.



Diane Dillon, Customer Services Manager

The CS section of your 'Direct Focus' aims to help you get efficient service and effective results from the CS department. If you would like to know more our service commitment to you, or if you need to access that service please read on...

**What do I do if my order is late in arriving?**

1. Ring the sales number where you originally placed the order (or use our general sales number 0870 129 3000)
2. Quote your sales order number, account number or post code (this will enable us to find your account). We first have to establish if we have sent the order out or not. If not, usually because the product was out of stock when you ordered, and has still not arrived from our supplier, the salesperson will try to give you an up-to-date delivery date. You can then decide whether to wait, cancel, or buy an alternative product. This doesn't happen often, but when it does, the actual lead time is often indeterminate (ie the dates given to us by suppliers are not reliable). If we have sent out the product, then the problem will be with the carrier, and your call will be passed to Customer Service Department, who will take the details, call the carrier, and then call you back. Please note that our carrier Amtrak normally delivers by 1pm, so we are only able to trace late deliveries after that time.

**What if the carrier arrives but the box looks damaged?**

1. Sign for the box as 'unchecked'. Failure to do so will mean we have no claim on the carrier if the item inside is damaged in any way.
2. Ring the Customer Service number to report even if there is no damage. If your item is damaged, we will issue a returns number and arrange the collection and replacement. Please note that the collection and replacement delivery may not be on the same carrier visit.

**What do I do if the carrier arrives but the note says two boxes and he only has one?**

1. Cross out the number 2 and change it to read 1. If necessary write "only one received" on the note.
2. Ring Customer Services to report and they will contact the carrier/supplier and keep you informed.

**What do I do if it's not the correct product - the delivery note does not match the goods?**

1. Ring Customer Services. We will check the part number on the delivery note with the part number on your product. If the product has been shipped incorrectly a returns number will be issued and a collection and replacement arranged.

**What do I do if it's not the correct product - I ordered the wrong thing?**

1. Ring us before opening or using the product. Provided the package has not been opened at all it may be accepted back with a re-stocking fee. If an agreement has been reached to take the product back a returns number will be issued. You will be responsible for the cost of returning the product and only if it is in pristine condition will a credit be raised.

**What do I do if it's not the correct product - you have not sent what I ordered?**

1. Initially ring the sales number and speak to the original salesperson you ordered from.
2. Go through it with them to check that it is our misunderstanding and not yours. If we have misunderstood your requirements, you will be passed through to Customer Service, who will issue a returns number and arrange a collection and replacement.

**What if my order has just arrived but won't work?**

1. Ring Technical Support on 0870 129 3350. If possible have your product close to hand to enable you to try out any fixes technical may give you. If it has been established your product is faulty you will be issued with a returns number.
2. We will arrange collection of the goods and arrange a replacement. Provided that stock is available we will try to collect and replace within 24 hours.

**What do I do if my equipment has stopped working - how do I action my warranty?**

1. Ring Technical Support. They will try to establish what the fault is and offer you the warranty procedure for that product. A returns number will be issued.
2. You will return the goods to us and in turn we will send off for warranty repair. In some instances the warranty asks for the customer to ring the repair agent direct, this will be relayed to you when you call.

**PC's only**

- Any software fault ring 0870 129 3350
- Hardware fault within 14 days ring 0870 129 3350
- Hardware fault outside 14 days ring 0990 133322

**What do I do if I experience a problem with software?**

1. Please note that once a software package is opened you have accepted the package under the manufacturer's software licensing agreement and therefore no opened packages will be accepted back.
2. Check the details on the box are correct before opening. If a fault occurs with any disc the manufacturer will exchange. If a manual or disc is missing or incomplete the manufacturer will supply these.

When you buy from us we are here to support you...

**HELP US TO HELP YOU.**

NOTE: If our Technical lines are busy and your product has direct support from the manufacturer (vendor) please ring them.

The following manufacturers (Vendors) offer technical support/DOA/warranty direct to customers.

Vendor	Number	Technical	DOA	Warranty
3COM	0800 966197	✓	✓	✓
Acer (scanners)	01379 649200	✓	✓	✓
Adaptec	0032 235 23470	✓	✓	✓
ADI	0181 236 0064	✓	✓	✓
Adobe	0131 451 6888	✓	✓	✓
Agfa	0891 615770	✓	✓	✓
Amacom	0181 993 7373	✓	✓	✓
APC	0800 132990	✓	✓	✓
ATI	0035 318 077 826	✓	✓	✓
Brother	0161 330 6531	✓	✓	✓
Beline	0118 936 2906	✓	✓	✓
Canon	0990 143723	✓	✓	✓
Casio	0181 450 9131	✓	✓	✓
Compaq	0541 541555	✓	✓	✓
Creative	01734 344744	✓	✓	✓
CTX	01923 018081	✓	✓	✓
Daewoo	01543 504888	✓	✓	✓
Diamond	01189 444444	✓	✓	✓
Epson	01442 227277	✓	✓	✓
Evergreen	07000 808586	✓	✓	✓
Fujitsu	01925 433533	✓	✓	✓
Hauppauge	0171 378 0202	✓	✓	✓
Hayes	01252 755533	✓	✓	✓
HP	0171 512 5202	✓	✓	✓
Hitachi	0181 849 2092	✓	✓	✓
IBM	0990 509090	✓	✓	✓
Iiyama	01438 314416	✓	✓	✓
Intel	01793 404900	✓	✓	✓
Imega	0800 973194	✓	✓	✓
Kyocera	01606 867017	✓	✓	✓
Macromedia	0800 374128	✓	✓	✓
Matrox	01793 441100	✓	✓	✓
Maxtor	003531 204 1111	✓	✓	✓
Microsoft	01189 270000	✓	✓	✓
Mitsubishi	01707 278782	✓	✓	✓
Mitsumi	01276 671029	✓	✓	✓
Motorola	0990 134810	✓	✓	✓
Mustek	01386 769429	✓	✓	✓
NEC	0181 993 8111	✓	✓	✓
Nikon	0181 541 4440	✓	✓	✓
Nokia	01794 830775	✓	✓	✓
OKI	01753 819819	✓	✓	✓
Orchid	01256 844899	✓	✓	✓
Pace	01274 537031	✓	✓	✓
Panasonic	01344 853508	✓	✓	✓
Philips	0181 665 6350	✓	✓	✓
Psion	0181 575 9919	✓	✓	✓
Quantum	01344 353500	✓	✓	✓
Ricoh	01782 717100	✓	✓	✓
Samsung (Monitors)	01525 718444	✓	✓	✓
Sanyo	01483 301970	✓	✓	✓
Seagate	01628 894083	✓	✓	✓
Sharp (Sharpers)	01623 413800	✓	✓	✓
Sony (Monitors Only)	0990 166848	✓	✓	✓
Tally	01734 771688	✓	✓	✓
Taxan	01344 484646	✓	✓	✓
Twinhead	01256 300300	✓	✓	✓
US Robotics	01734 441000	✓	✓	✓
Videologic	01923 271300	✓	✓	✓
Visioneer	0171 519 5023	✓	✓	✓

Customer Services . Terms & Conditions . Maps

**TERMS AND CONDITIONS OF SALE**

1. EU residents pay the VAT inclusive price shown (VAT at appropriate rate, currently 17.5%). Non-EU/exempt pay the exclusive price.
2. Payment accepted by credit/debit card, bank transfer/draft, postal/money order, or cash. Credit terms (14 days) to approved accounts only (normally public sector and quoted PLCs)
3. Personal cheques over £1,000 and business cheques take up to 14 days to clear. Express clearance available at a small charge.
4. Finance and leasing available subject to status. Details available on request.
5. We do not warrant the suitability of goods for any particular purpose, and you should check specifications and suitability with manufacturers before ordering.
6. Goods not sold on a trial basis.
7. Goods offered subject to being unsold. In the event of non-availability of goods, we reserve the right to rescind the contract.
8. All goods remain Dabs Direct property until paid for in full.
9. Prices and manufacturers specifications subject to change without notice. Minor specification variations do not entitle the purchaser to rescind the contract. Prices may change because of currency fluctuations.
10. Claims for damage, non-functionality, and mis-shipping must be made within seven days of receipt.
11. After this date, and in all circumstances after 28 days, repair and not replacement will be offered.
12. A restocking fee of up to 25% is charged on returns, which prove to be non-defective.
13. You must use any manufacturer or on-site arrangements provided. On-site maintenance applies in mainland GB only. Details of maintenance in other areas will be supplied on request.
14. All returns must be in stock condition and be authorised by Dabs Direct.
15. No opened software will be accepted for credit. Faulty discs swapped by manufacturer.
16. You are responsible for ensuring safe delivery of the returned item.
17. We are not liable for any consequential loss or expenses, howsoever caused, including incidental returns costs.
18. If part of these terms is found to be unlawful, it shall not affect the validity of the remainder.
19. These terms and conditions do not affect consumer statutory rights.
20. Errors and omissions excepted.

A full copy of the terms and conditions is supplied on the reverse of every invoice, and is available on request. E.&O.E

**CARRIAGE**

Standard GB/N.Ireland/10M 1-3 working days	£10.00 (£11.75)	<b>SMALL/LOW COST ITEMS</b>	
Next working day	£15.00 (£17.62)	Standard UK 1-3 working days	£5.00 (£5.87)
Channel Islands/Eire 1-3 days	£20.00 (£23.50)	Next working day	£7.50 (£8.81)
Saturday (Mainland GB & N.Ireland)	£20.00 (£23.50)	Call for quotes on other areas/times	

**PRICES ARE PER ORDER NOT PER BDX. PRICES IN BRACKETS INCLUDE VAT. ALL DELIVERY TIMES SUBJECT TO CLEARED FUNDS, BEING IN STOCK AND UNSOLD.**

**PAYMENT TERMS**

- INSTANT CREDIT - 14 day credit terms available to public sector & quoted PLC's.
- NEW ACCOUNT OPENING - Please call our sales team to arrange to open a credit account now (subject to status)
- PERSONAL FINANCE - Competitive interest rates for individual purchasers, with a range of payment plans (subject to status)
- BUSINESS LEASING - We can offer very competitive rates on Business Leasing (subject to status) for companies.
- CREDIT CARD PAYMENTS - We can also accept payment by all major credit cards including AMEX, VISA & Mastercard

**HOW TO FIND US**

**DABS DIRECT DIRECT HOUSE**  
30 WINGATES IND PARK  
WESTHOUGHTON  
BOLTON BL5 3XU

**DABS DIRECT THE WESTERN CENTRE**  
WESTERN ROAD  
BRACKNELL  
BERKSHIRE  
RG12 1RW





- ✓ Serving you since 1987
- ✓ Over £50m annual turnover
- ✓ Over 200,000 satisfied customers
- ✓ Highly trained specialist staff
- ✓ Repair & upgrade services

# DABS DIRECT

PERSONAL COMPUTER SYSTEMS

**Trade 0870 129 3003** **Corporate 0870 129 3010** **Export +44 1942 853001** **Email sales@dabs.com**  
All 0870 calls charged at national rate

## WHAT'S NEW

### WHAT'S NEW IN THIS ISSUE...

- **NEW Tektronix colour capable laser range**  
 Tektronix has launched a new series of colour capable lasers, starting with the Phaser 740L. These colour lasers offer outstanding value for money with their high spec and competitive pricing.
- **NEW Umax ActionBook**  
 The first notebook featuring the AMD K6®-2 3D Now!™ processor, offers 300MHz processor, 12.1" SVGA TFT display, built-in 3D audio with microphone and stereo speakers, see page 11 for full details.
- **Modem Price Reductions**  
 Pace and 3Com have reduced the prices on some of their best selling modems, check out the award-winning Pace 56K External and the 3Com 56K Message Modem in the modem section starting on page 42.
- **Kyocera Price Drop**  
 The prices on the FS-600, FS-800 & FS-7000 have all been slashed dramatically, these ECOSYS lasers can save you hundreds of pounds with their ceramic drum. Also the FS-1700 has been upgraded to the FS-1700+ with the inclusion of Adobe PostScript Level 2 compatibility as standard.



...and don't forget, for the latest Product Releases & Special Offers go to [www.dabs.com](http://www.dabs.com)

## INTRODUCTION



Welcome to the January 1999 issue of Direct Focus, the monthly magazine and price list from Dabs Direct. As I write this in November it is already apparent that the next few months will be very exciting with the release of lots of new products, and the reduction in price of existing models. At Dabs we always offer the widest choice, with the best prices to give you the most for your money.

My advise, as we approach the seasonal holiday, is to order as early to avoid the stock constraints the take hold the closer we get. A useful tip is to read the advise opposite from Dianne Dillon, Dabs Customer Services Manager, with regard to checking your purchases on arrival and not waiting until the 25th!

*David Atherton*

David Atherton, Managing Director, Dabs Direct PLC  
[da@dabs.com](mailto:da@dabs.com)

## OPENING TIMES

	GENERAL SALES	COUNTERS	OTHER DEPTS
Monday to Thursday*	08.00 - 20.00	09.00 - 19.00	09.00 - 17.00
Friday*	08.00 - 17.00	09.00 - 17.00	09.00 - 17.00
Saturday	09.00 - 15.00	09.00 - 17.00	Closed
Sunday	10.00 - 15.00	Closed	Closed
Exceptions to above			
*December 24th, 31st	08.00 - 17.00	09.00 - 17.00	09.00 - 17.00
*December 25th, 28th, Jan 1st 1999	Closed	Closed	Closed

Full Terms and Conditions available on request. Prices valid from 1st to 31st December 1998.

E&OE [06.11.98].

## DIRECT focus

DABS DIRECT PRODUCT NEWS & PRICE GUIDE  
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If you have any comments or suggestions about Direct Focus please write to me at the Bolton address or email me on:  
[dwilson@dabs.com](mailto:dwilson@dabs.com)

## IMPORTANT NUMBERS

<b>GENERAL SALES</b>	0870 129 3000
<b>BOLTON</b> Apple/MacOS Sales	0870 129 3040
Corporate Sales	0870 129 3010
Corporate Fax	0870 129 7010
Counter	0870 129 3500
Trade Sales	0870 129 3003
<b>BRACKNELL</b> Counter	0870 129 3900
<b>EDINBURGH</b> Sales	0131-556 4114
<b>LONDON</b> Sales	0171-582 4777
All Customer Services	0870 129 3220
All Customer Services email	cs@dabs.com
General Technical Support	0870 129 3350
Technical Support email	ts@dabs.com

All 0870 calls charged at national rate  
 (long distance rate)

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**DABS DIRECT**  
 PERSONAL COMPUTER SYSTEMS

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custom build PC division

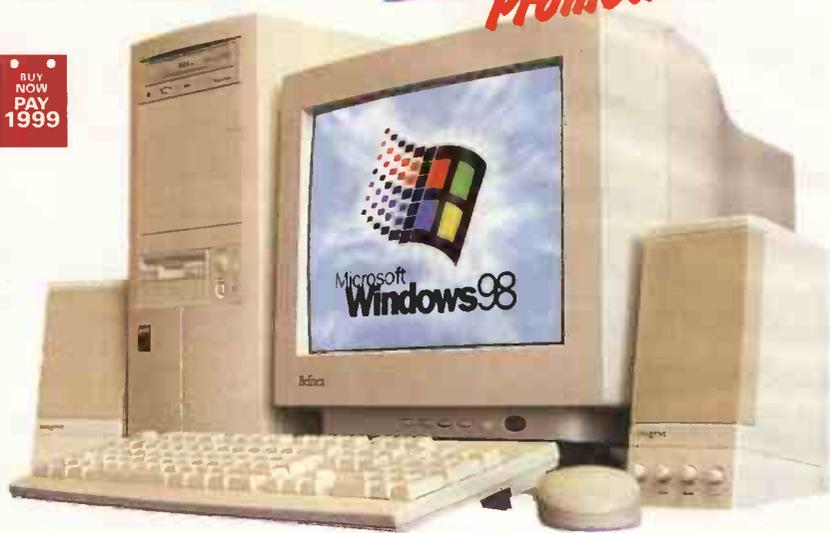
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Dabs PC Systems

# Atlantis Home Office

**BLOCKBUSTER**  
Promotion

- Intel Celeron™ 300A Processor with MMX Technology with 128k on-chip cache
- 440LX ATX Motherboard
- 32Mb SDRAM Memory (expandable to 256Mb)
- 6.4Gb UltraDMA Hard Disk Drive
- Creative 32x CD ROM Drive
- 4Mb AGP Graphics Card
- 15" Digital SVGA Monitor
- Creative Vibra 16 Sound Card
- Creative CSW-20 Speakers
- 56Kbps Internal Voice/Data/Fax Modem (inc 1 months free Internet Access)
- 105 Key Windows 95 PS/2 Keyboard & Mouse
- Joystick
- Microsoft Windows 98
- Lotus SmartSuite 97
- Dabs Multimedia Software Bundle (13 titles)
- 1 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)
- FREE Canon BJC-250 A4 Colour Inkjet Printer
- FREE Canon CanoScan FB310 Colour Flatbed Scanner
- FREE Modular Technology TV / Teletext Tuner Card



Dabs Multimedia Software Bundle (13 titles)



with FREE Canon Printer, FREE Canon Scanner & FREE TV Card

### FREE Canon BJC-250

Colour Inkjet Printer

- Up to 3.4 pages per minute
- Free black & colour cartridge
- Optional Photo cartridge
- One Year return to Canon Warranty



Canon

### FREE Canon CanoScan FB310

Colour Flatbed Scanner

- 30 bit colour scanning
- 300 x 600dpi optical resolution
- 9600dpi maximum interpolated
- 3 year warranty
- Includes: iPhoto Express and OmniPage LE

Canon

### FREE Modular Technology TV / Teletext Tuner Card

Full Screen TV and Video from your PC

- Automatic Channel Tuning
- TV Picture adjustable from icon size to full screen
- Teletext, instantly displayed
- Display and capture from VCR, Cable, Satellite,
- Games Console & Camcorder



MODULAR

# Atlantis Home Office

with FREE Canon BJC-250 Printer  
FREE Canon Scanner & FREE TV Card

only £ **799**  
(£938.82)

BUY NOW  
PAY  
1999

## Buy Now Pay May 1999

Payment Example: Typical example: Dabs PC £950.58 inc VAT & Delivery. Pay 10% deposit of £95.06 and then no payments for 6 months. If the amount borrowed is repaid before the first payment is due then no interest will be payable, otherwise pay £48.41 for 24 months, APR 23.9%, Total Amount Payable £1256.90. Includes optional Cover Care Credit Protection.

Written quotation available on request. Credit subject to status and applicants must be at least 18 years of age. Offer available until 31st December 1998.

All software boxes are shown for illustrative purposes only - Bundled software may not come with full retail packaging

Prices shown in brackets are inclusive of VAT



Belnea



iomega.

CREATIVE



ADI Systems UK

Canon



PRICE MATCHING - We can usually match competitors prices, please call for details.

## Dabs PC Systems

### Atlantis Workstation

- Cyrix MII™ P300 Processor
- 512Kb Pipeline Burst Cache Memory
- Aladdin5 ATX Motherboard
- 16Mb SDRAM Memory (expandable)
- 2.1Gb UltraDMA Hard Disk
- Creative 32x CDROM Drive
- 2Mb PCI Graphics Card
- 14" Digital SVGA Monitor
- 105 Key Windows 95 PS/2 Keyboard & PS/2 Mouse
- 16bit ISA RJ45/BNC Network Card
- Microsoft Windows 98
- Lotus SmartSuite 97
- Multimedia upgrade option (Sound Card & Speakers) add £25 (£29.38)
- 1 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)



**£449**  
(£527.57)

**Atlantis Workstation**  
with Cyrix MII™ P333 and 32Mb SDRAM

**£499** (£586.32)

### Atlantis Value

- Intel Celeron™ 266MHz Processor with MMX Technology
- 440LX ATX Motherboard
- 32Mb SDRAM Memory (expandable)
- 2.1Gb UltraDMA Hard Disk
- Creative 32x CD ROM Drive
- 4Mb AGP Graphics Card
- 14" Digital SVGA Monitor
- 56Kbps Internal Voice/Data/Fax Modem (inc 1 months free Internet Access)
- Creative Vibra 16 Sound Card
- Creative CSW-20 Speakers
- 105 Key Windows 95 PS/2 Keyboard & PS/2 Mouse
- Microsoft Windows 98
- Lotus SmartSuite 97
- Dabs Multimedia Software Bundle (13 titles)
- 1 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)

**£549**  
(£645.07)

**Atlantis Value**  
with Intel® Celeron™ with 300MHz

Processor (no cache) **£569** (£668.57)



**Atlantis Workstation**  
Entry level Network Ready Mini Tower PC



**Atlantis Value**  
Multimedia Internet Ready Mini Tower PC

Dabs Multimedia Software Bundle (13 titles)



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#### What the magazines say....



"Quality components plus upgrade potential combine to win Dabs the top spot".  
 "... Dabs has made a PC that can be upgraded quite cheaply when needed".  
 "... it's a fine deal".  
 December 1998 - Dabs Atlantis Value

"Amazingly, Dabs has managed to supply a Philips DVD-ROM drive and Real Magic Hollywood MPEG2 decoder card.", "... a feature-rich home entertainment system at a commendable price"  
 PC Pro, Dabs Power 300 - December 1998

"provides an excellent games platform", "The amount of software shipped by Dabs is way above average", "This is a very competent configuration which excels as a games platform but which would also be equally suited to graphics or video work".  
 Computer Shopper, Dabs Pentium II 400 Home - August 98

Shopping Spree. PCW ran a feature on where to buy a PC and the Dabs Atlantis Home Office (with bundled printer) was selected as the best mail order offering. This was based on value for money, specification, delivery time and presales service. Here's what they found;

"Good value for money ... the spec was generous"  
 and with regard to the presales, as they put it: ...  
 "Success. A Salesperson who's sussed!"  
 Personal Computer World, Dabs Atlantis Home Office - August 98

"Great performance in 20 tests. Plenty of room for expansion"  
 "This machine performed well in our tests, recording impressive scores in both NT and 95 SYSMark tests" Personal Computer World - Dabs Pentium II 400 Business  
 "built to a high standard... quality brand names... prices that won't break the bank"  
 PC Direct - June 1998, Dabs Group Test Dabs Atlantis Home Office, Navigator, Voyager PCs

"the inclusion of a printer ... enables users to start working productively straight out of the box"  
 PC Pro - July 1998, found the Atlantis Home Office to be a 'HIT'



"Good value for money with some quality components ... well equipped to run even the most demanding applications at full throttle and the software bundle is particularly impressive ... incredible feature list"  
 PC Advisor - Dabs Power PC



"qualifies as the Most Generous Package we received ... represents excellent value for money"  
 Personal Computer World - Dabs Atlantis Home Office



"great value package"  
 Computer Buyer Top 50 - Dabs Navigator PII, April 1998  
 "A fine PC - should last you years"  
 Computer Buyer Top 50 - Dabs Navigator MMX, August 1997

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## Dabs PC Systems

### Challenger

- AMD K6®-2 3D Now!™ Processor
- Aladdin 5 100MHz FSB motherboard
- 64MB PC100 SDRAM
- Seagate 6.5GB UltraDMA Hard Disk
- Creative 32x CDROM Drive
- ATI 3D Xpert 98 8MB AGP Graphics Card
- ADI E44 15" Digital Monitor
- 56kbps Internal PCI Voice/Data/Fax Modem (including 1 months free Internet Access)
- Creative Labs SoundBlaster PCI Sound Card
- Creative CSW-100 Speakers
- Cherry PS/2 Keyboard & Microsoft PS/2 Mouse
- Microsoft Windows 98
- Lotus SmartSuite 97
- Multimedia Software Bundle (13 titles)
- 1 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)



### Navigator

- Intel® Pentium II Processor with MMX technology
- Abit 440BX 100MHz FSB motherboard
- 64MB PC100 SDRAM
- Seagate 6.5GB UltraDMA Hard Disk
- Creative 32x CDROM Drive
- ATI 3D Xpert 98 8MB AGP Graphics Card
- ADI E44 15" Digital Monitor
- 56kbps Internal PCI Voice/Data/Fax Modem (including 1 months free Internet Access)
- Creative Labs SoundBlaster PCI Sound Card
- Creative CSW-100 Speakers
- Cherry PS/2 Keyboard & Microsoft PS/2 Mouse
- Microsoft Windows 98
- Lotus SmartSuite 97
- Multimedia Software Bundle (13 titles)
- 1 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)



### Challenger

High Performance AMD K6® -2 3D Now!™ with MMX Technology



### Navigator

Pentium II Multimedia & Internet Ready PC  
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1. The guarantee applies to the PC, monitor, keyboard and any bundled software offered as standard, and not to any printer, other software or other items ordered at the same time.
2. The PC and monitor must be returned correctly and securely packed in the original packaging as delivered. It must be undamaged, and all parts (manuals, bags etc.) must be included
3. You are responsible for the return freight and delivery. We can arrange collection which will cost £10+VAT.

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### Discovery DVD

- Intel Pentium II Processor with MMX technology
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- Creative PC-DVD Encore 5x DVD ROM Drive
- Creative 3D Blaster Banshee 16MB Graphics Card
- Creative DXR2 MPEG2 Decoder Card
- ADI 5P 17" Digital Monitor
- 56kbps Internal PCI Voice/Data/Fax Modem (including 1 months free Internet Access)
- Creative Labs SoundBlaster Live! Value PCI Sound Card
- Creative FourPoint Surround Speakers
- Cherry PS/2 Keyboard & Microsoft PS/2 Mouse
- Microsoft Windows 98
- Multimedia Software Bundle (13 titles)
- 1 DVD title (Chosen from the 4 titles shown below)
- 1 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)

### Voyager DVD

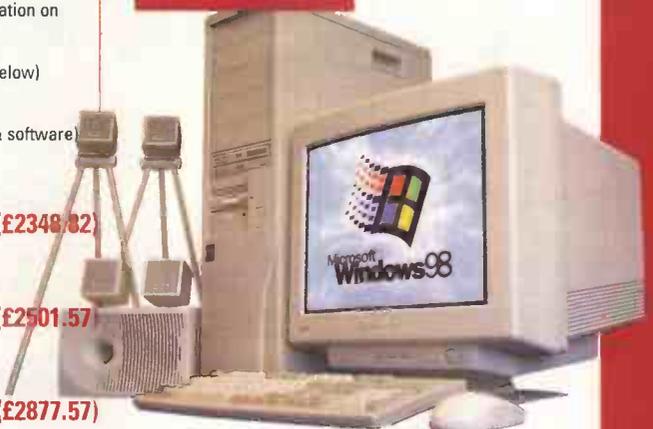
- Single or Dual Intel Pentium II Processor
- Super Micro 440BX 100MHz FSB motherboard with onboard Adaptec UltraWide SCSI
- 128MB PC100 SDRAM
- IBM 9.1GB UltraWide SCSI Hard Disk
- Creative PC-DVD Encore 5x DVD ROM Drive
- Iomega Internal ZIP Drive
- Creative Riva TNT 16MB AGP Graphics Card
- Creative DXR2 MPEG2 Decoder Card
- Iiyama VisionMaster 400 17" DiamondTron Monitor
- 56kbps Internal PCI Voice/Data/Fax Modem (including 1 months free Internet Access)
- Creative Labs SoundBlaster Live! Value PCI Sound Card
- Creative FourPoint Surround Speakers
- Cherry USB Keyboard & Microsoft USB Mouse
- Microsoft Windows 98 (Windows NT Workstation on Dual Processor Systems)
- 1 DVD title (Chosen from the 4 titles shown below)
- 1 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)



### Discovery DVD

Pentium II Power PC

Single or Dual Intel® Pentium II



### Voyager DVD

Ultimate Pentium II PC

Intel® Pentium II with 350MHz Processor

**£1249** (£1467.57)

Intel® Pentium II with 400MHz Processor

**£1399** (£1643.82)

Intel® Pentium II with 450MHz Processor

**£1529** (£1796.57)

Single Intel® Pentium II with

400MHz Processor **£1999** (£2348.82)

Single Intel® Pentium II with

450MHz Processor **£2129** (£2501.57)

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400MHz Processors **£2449** (£2877.57)

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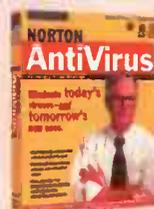
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**Satellite 4000CDS £1015 (€1192.62)**

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- 32MB SDRAM expandable to 160MB
- 3.8GB Hard Drive
- 24xSpeed CD-ROM
- 12.1" DSTN Colour SVGA Display
- SoundBlaster Pro compatible sound system
- 2x 32bit CardBus PC Card slots with ZV port

**NEW LOWER PRICE**

**Satellite 4000CDT £1269 (€1491.07)**

- Intel Pentium II with 1.8v core 233MHz
- 32MB SDRAM expandable to 160MB
- 3.8GB Hard Drive
- 24xSpeed CD-ROM
- 12.1" TFT Colour Display
- SoundBlaster Pro compatible sound system
- 2x 32bit CardBus PC Card slots with ZV port

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- 12.1" DSTN Colour Display
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- Intel Pentium II with 1.8v core 266MHz
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- SoundBlaster Pro compatible sound system
- 2x 32bit CardBus PC Card slots with ZV port

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Upgrading memory is the single most cost effective way of increasing system performance and productivity. All Kingston memory products are guaranteed 100% compatible and come with a full lifetime warranty.

Size	8MB	16MB	32MB	64MB	128MB
ex VAT	£30	£43	£83	£155	£303
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The Portégé family is specifically designed to cater for those users for whom ultimate lightweight mobility is just as important as quality, high performance and functionality. With a footprint smaller than an A4 sheet of paper, the Portégé is ideal for the frequent traveller who refuses to accept any compromise in performance levels.

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- 800x600 resolution with up to 16.7 million colours

**PORTÉGE 7010CT £1949 (€2290.07)**

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- 3.82GB Hard Drive
- External Swappable 10xSpeed CD-ROM
- 12.1" TFT Colour Display
- 800x600 resolution with up to 16.7 million colours

Accessories	<b>Satellite</b>	<b>PORTÉGE</b>
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Spare Battery	£130 (€152.75)	Portege
In-Car Adaptor	£65 (€76.37)	Accessories

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The Libretto family represents Toshiba's most spectacular example of miniaturised PC technology to date and underlines the company's ability to deliver innovative mobile solutions to its customers. The world's smallest, lightest Windows95 PC, the Libretto mini notebooks weigh less than two pounds and offer unprecedented portability and full functionality.

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- 800x480 resolution with up to 16.7 million colours
- SoundBlaster Pro compatible stereo sound system
- 1x 16bit PC Card slot
- IrDA compliant infrared interface
- Optional Libretto Enhanced Port replicator

**Libretto 110CT £1269 (€1491.07)**

- Intel Pentium 233MHz with MMX
- 32MB EDO RAM
- 3.82GB Hard Drive
- 7.1" TFT Colour Display
- 800x480 resolution with up to 16.7 million colours
- SoundBlaster Pro compatible stereo sound system
- 1x 16bit PC Card slot
- IrDA compliant infrared interface
- Optional Libretto Enhanced Port replicator

"Perfect performer"



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- 3.8GB Hard Drive
- 24xSpeed CD-ROM optional DVD ROM
- 12.1" DSTN Colour SVGA Display
- SoundBlaster Pro compatible sound system
- 2x 32bit CardBus PC Card slots

**LOWER PRICE**

**TECRA 8000CDT £1599 (€1878.82)**

- Intel Pentium II with 1.8v core 233MHz
- 32MB SDRAM expandable to 256MB SRAM
- 3.8GB Hard Drive
- 24xSpeed CD-ROM optional DVD ROM
- 12.1" TFT Colour SVGA Display
- SoundBlaster Pro compatible sound system
- 2x 32bit CardBus PC Card slots

**LOWER PRICE**

**TECRA 8000CDT £2035 (€2391.12)**

- Intel Pentium II with 1.8v core 266MHz
- 64MB SDRAM expandable to 256MB SRAM
- 6.0GB Hard Drive
- 24xSpeed CD-ROM optional DVD ROM
- 13.3" TFT Colour XGA Display
- SoundBlaster Pro compatible sound system
- 2x 32bit CardBus PC Card slots

**LOWER PRICE**

**TECRA 8000CDT £2289 (€2689.57)**

- Intel Pentium II with 1.8v core 300MHz
- 64MB SDRAM expandable to 256MB SRAM
- 6.0GB Hard Drive
- 16xSpeed CD-ROM 2x DVD ROM
- 13.3" TFT Colour XGA Display
- SoundBlaster Pro compatible sound system
- 2x 32bit CardBus PC Card slots

**LOWER PRICE**

**TECRA 8000DVD £2699 (€3171.32)**

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- 64MB SDRAM expandable to 256MB SRAM
- 7.6GB Hard Drive
- 16xSpeed CD-ROM 2x DVD ROM
- 14.1" TFT Colour XGA Display
- SoundBlaster Pro compatible sound system
- 2x 32bit CardBus PC Card slots

**LOWER PRICE**

Accessories	<b>TECRA</b>	<b>Libretto</b>
Card Station III	£250 (€293.75)	-
Mini Card Station	-	£175 (€205.62)
MPEG PC Card	£100 (€117.50)	-
In-Car Adaptor	£65 (€76.37)	£65 (€76.37)

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300 Celeron 300 32/4300 W95	540	634.50
300 Celeron 300 64/6400CDS W95	614	721.45
333 Celeron 333 32/4300 W95	571	670.92
333 Celeron 333 64/6400CDS W95	673	790.77
333 Celeron 333 64/6400CDS W98	673	790.77
6350 PII 350 64/4300 W95	736	864.80
6350 PII 350 64/10GB CDS W95	874	1026.95
6350 PII 350 64/10GB CDS W98	874	1026.95
6400 PII 400 64/10GB CDS W95	1022	1200.85
6400 PII 400 64/10GB CDS W98	1022	1200.85
6450 PII 450 64/10GB CDS W95	1195	1404.12
6450 PII 450 128/10GB CDS W95	1249	1467.57
<i>MS Windows NT 4.0 models available, please call for specifications and pricing.</i>		
<b>Deskpro EN</b>		
300 Celeron 300 32/3200 W95 (No LAN)	638	749.65
300 Celeron 300 32/3200 W95	680	799.00
333 Celeron 333 32/3200 W95 (No LAN)	669	786.07
333 Celeron 333 32/3200 W95	711	835.42
5266 PII 266 32/3200 W95	806	947.05
6300 PII 300 32/3200 W95 (No LAN)	861	1011.67
6300 PII 300 32/3200 W95	903	1061.02
6333 PII 333 32/3200 W95 (No LAN)	787	924.72
6333 PII 333 32/3200 W95	829	974.07
6350 PII 350 32/6400 W95 (No LAN)	815	957.62
6350 PII 350 32/6400 W95	829	974.07
6350 PII 350 64/6400 W95	857	1006.97
6350 PII 350 64/6400CDS W95	914	1073.95
6400 PII 400 64/6400 W95 (No LAN)	970	1139.75
6400 PII 400 64/6400 W95	1012	1189.10
6400 PII 400 64/6400CDS W95	1070	1257.25
<i>MS Windows NT 4.0 models available, please call for specifications and pricing.</i>		
<b>ProSignia</b>		
200 PII 233 32/0 EIDE	682	801.35
200 PII 233 32/3200 EIDE	929	1091.57
200 PII 233 32/0 SCSI	724	850.70
200 PII 233 32/4300 SCSI	1024	1203.20
200 PII 266 32/0 SCSI	787	924.72
200 PII 266 32/4300 SCSI	1032	1212.60
200 PII 300 32/0 SCSI	892	1048.10
200 PII 300 32/4300 SCSI	1137	1335.97
<i>MS Small Business Server Solutions, call for pricing</i>		
<b>Proliant</b>		
800 PPro 200 32/0	1207	1418.22
800 PPro 200 32/1200	1489	1749.57

## Kingston TECHNOLOGY

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Updating memory is the single most cost effective way of increasing system performance and productivity. All Kingston memory products are guaranteed 100% compatible and come with a full lifetime warranty.

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	32Mb	KTC2428/32	242804-B21	46	54.05
	64Mb	KTC2428/64	242805-B21	87	102.22
Compaq Presario 1220	16Mb	KTC-P1600/16	293820-001	28	32.90
	32Mb	KTC-P1600/32	293821-001	59	69.32
	64Mb	KTC-P1600/64	293822-001	111	130.42
Compaq Deskpro EN, EP Series SDRAM 100MHz (non ECC)	32Mb	KTC6611/32	166612-B21	56	65.80
	64Mb	KTC6611/64	166613-B21	98	115.15
	128Mb	KTC6611/128	166614-B21	180	211.50
HP LaserJet 4000s and 5000s	16Mb	KTH-LJ4000/16	C4142A	28	32.90
	16Mb	KTH-LJ4000E/16	C4137A	36	42.30
	32Mb	KTH-LJ4000/32	C4143A	59	69.32
HP Omnibook 800CS, CT	16Mb	KTH-OB800/16	F1168A	43	50.52
	32Mb	KTH-OB800/32	F1169A	65	76.37
	64Mb	KTH-OB800/64	F1119A, F1191A	134	157.45
HP Vectra VE8, VL8	32Mb	KTH6501/32	D6501A	67	78.72
	64Mb	KTH6501/64	D6502A	123	144.52
	128Mb	KTH6501/128	D6503A	245	287.88
Toshiba Portege 300, 310, 320CT	16Mb	KTT300/16i	PA2052U	80	94.00
	32Mb	KTT300/32i	PA2053U	73	85.77
	64Mb	KTT300/64i	n/a	167	196.22
Toshiba Libretto 50, 70CT	16Mb	KTT-LBT/16i	PA2056U	50	58.75
	32Mb	KTT-LBT/32i	PA2059U	146	171.55
	32Mb	KTT500/32i	PA2040U, NW2040U	65	76.37
Toshiba Tecra 500, 510CDS/CDT Toshiba Satellite Pro 440, 445, 460, 470 480 CDX/CDT	48Mb	KTT500/48i	PA2041U, NW2041U	90	105.75
	128Mb	KTT500/128i	PA2042U, NW2042U	195	229.12

Kingston manufactures memory for nearly every PC, Notebook, Workstation and Server in use today.



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COMPAQ continued	ex VAT	inc VAT
<b>Proliant continued</b>		
800 PPro 200 32/4300	1507	1770.72
1200 PII 233 32/0	1207	1418.22
1600 PII 266 64/0	1444	1696.70
1600 PII 300 64/0	1496	1757.80
1600 PII 350 64/0	1580	1856.50
<b>HEWLETT PACKARD</b>		
<b>Brio Mini Tower</b>		
7113 Celeron 300 32/2100	493	579.27
8511 PII 350 32/4300	690	810.75
8532 PII 400 64/8000 NT	916	1076.30
8533 PII 450 64/8000	1097	1288.97
<b>Vectra VE</b>		
VE Celeron 300 32/3200	543	638.02
VE Celeron 300 32/3200 LAN	Call	Call
VE Celeron 333 32/3200	621	729.67
<b>Vectra VL Desktop</b>		
VL7 PII 333 32/4300 LAN	790	928.25
VL8 Celeron 333 64/4300 LAN	824	928.25
VL8 PII 350 32/4300	802	942.35
VL8 PII 350 64/4500	1003	1178.52
<b>Vectra VL MultiMedia Desktop</b>		
VL7 PII 333 32/4300CDS	790	928.25
VL8 PII 400 64/6400	982	1153.85
VL8 PII 450 64/10GB DVD LAN	1317	1547.47
<b>Vectra VL MultiMedia Mini Tower</b>		
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VL8 PII 400 64/6400CDS	997	1171.47
VL8 PII 450 64/9000	1423	1672.02
VL8 PII 450 128/10GB DVD LAN	1432	1682.60
<b>Kayak Desktop</b>		
XA-s 6/350 PII 350 64/9100 SCSI	1656	1945.80
XA-s 6/400 PII 400 64/9100 SCSI	1896	2227.80
<b>Kayak Mini Tower</b>		
XA-s 6/350 PII 350 64/6400	1394	1637.95
XA-s 6/400 PII 400 64/6400	1652	1941.10
XA-s 6/450 PII 450 128/9100 SCSI	2173	2553.27
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E50 PII 300 32/0	1026	1205.55
E50 PII 300 64/4200	1284	1508.70
E50 PII 300 64/4200 + T4i Backup	1415	1662.62
E50 PII 333 32/0	1026	1205.55
E50 PII 333 64/4200	1284	1508.70
E50 PII 333 64/4200 + T4i Backup	1415	1662.62
E50 PII 333 64/9000	1441	1693.17

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- Microsoft Windows 98
- Microsoft Word 97
- Microsoft Works 4.0

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Intel® Celeron™ processor 300MHz, Intel® LX Chipset, 32MB SDRAM, 4.3GB Hard Disk Drive

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Intel® Pentium®II processor 333MHz, Intel® LX Chipset, 32MB SDRAM, 4.3GB Hard Disk Drive, 512K Cache, 32x CD ROM Drive

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#### MT350BX

Intel® Pentium®II processor 350MHz, Intel® BX Chipset, 64MB SDRAM, 6.4GB Hard Disk Drive, 512K Cache, 32x CD ROM Drive

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## PORTABLES

ACER / Texas Instruments	ex VAT	inc VAT
Extensa 500DX P233MMX 32/3200 HPA	1049	1232.57
Extensa 500T P233MMX 32/3200CD TFT	1149	1350.07
Extensa 501T P266MMX 32/3200CD TFT	1199	1408.82

ANR	ex VAT	inc VAT
Neutron P233MMO 48/2100CD 12.1" TFT	999	1173.82
Neutron P266MMO 48/2100CD 12.1" TFT	1049	1232.57
Neutron PII 233 48/3200CD 12.1" TFT	1399	1643.82
Neutron PII 233 48/3200CD 13.3" TFT	1479	1737.82
Neutron PII 266 48/3200CD 12.1" TFT	1499	1761.32
Neutron PII 266 48/3200CD 13.3" TFT	1649	1937.57
Neutron PII 300 48/3200CD 12.1" TFT	1699	1996.32
Neutron PII 300 48/3200CD 13.3" TFT	1849	2172.57
Photon PII 233 64/3200CD 13.3" TFT	1749	2055.07
Photon PII 233 64/3200CD 14.1" TFT	1899	2231.32
Photon PII 266 64/3200CD 13.3" TFT	1899	2231.32
Photon PII 266 64/3200CD 14.1" TFT	1999	2348.82
Photon PII 300 64/3200CD 13.3" TFT	2049	2407.57
Photon PII 300 64/3200CD 14.1" TFT	2199	2583.82

COMPAQ ARMADA	ex VAT	inc VAT
1573D P233MMX 32/3200CD DSTN	932	1095.10
1592DT PII 266 32/4000CD TFT	1039	1222.82
1598DT PII 266 32/4000CD TFT	1245	1462.87
S85200 P200MMX 32/3200CD DSTN	966	1135.05
S85233 P233MMX 32/4000CD DSTN	1151	1352.42
1700 PII 233 32/4000CD TFT W95	1156	1358.30
1700 PII 233 32/3200CD TFT W98	1156	1358.30
1700 PII 266 32/4000CD TFT W95	1513	1777.77
1700 PII 300 32/5000CD TFT W95	1870	2197.25
4210T P233MMX 32/3000 TFT	1245	1462.87
4220T P266MMX 32/4000 TFT	1424	1673.20
3500 PII 266 32/4100CD TFT W95	1647	1935.22
3500 PII 266 32/4100CD TFT NT4	1692	1988.10
3500 PII 300 64/6400CD TFT W95	2136	2512.15
3500 PII 300 64/6400CD TFT NT4	2182	2563.85

HEWLETT PACKARD OMNIBOOK	ex VAT	inc VAT
2100 P233MMX 32/3200 TFT W95	1327	1559.22
2100 P233MMX 32/3200CD TFT W95	1447	1700.22
2100 PII 233 32/4000 TFT W95	1287	1512.22
2100 PII 266 32/4000 TFT W95	1450	1703.75
2100 PII 300 32/4000CD TFT W95	1737	2040.97
4100 PII 233 32/4000CD 13.3" TFT W95	1871	2198.42
4100 PII 266 32/4000CD 14.1" TFT W95	2120	2491.00
4100 PII 266 32/6400CD 14.1" TFT W95	2328	2735.40
4100 PII 300 64/6400 14.1" TFT W98	2578	3029.15



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- Cardbus Ready
- Lithium Ion Battery
- USB port ( Dimensions 316 x 250 x 34mm)
- Weight 2.8Kg
- 16 bit Stereo Sound with Wavetable & SRS 3D sound
- 2 PCMCIA Type II or 1 Type III slot
- VGA, Docking Connector and PS/2 port
- Windows 95 Preloaded
- Lotus SmartSuite 97 on CD
- International AC Adaptor
- Deluxe carry case



Processor	13.3" TFT	14.1" TFT
PII233	£1749 (€2055.07)	£1899 (€2231.32)
PII266	£1899 (€2231.32)	£1999 (€2348.82)
PII300 NEW!	£2049 (€2407.57)	£2199 (€2583.82)

### Neutron PII

- Intel Mobile Module Processor with Pentium II Technology
- Intel Mobile Triton 82430 TX chipset
- 48Mb SDRAM (Upgradeable)
- Up to 13.3" TFT XGA screen (12.1" SVGA)
- 3.2Gb Toshiba Hard Disk Drive (Upgradeable)
- 24x CD-ROM internal swappable with FDD
- 16 bit Stereo Sound with Wavetable & SRS 3D sound
- 2 Type II 1 type III PCMCIA slots
- Lithium Ion Battery
- USB Port
- Dimensions 303x234x52mm
- Weight 2.9kgs
- Windows 95 Preloaded
- Lotus SmartSuite 97 on CD
- International AC Adaptor
- Deluxe carry case



Processor	12.1" TFT	13.3" TFT
PII 233	£1399 (€1643.82)	£1479 (€1737.82)
PII 266	£1499 (€1761.32)	£1649 (€1937.57)
PII 300 NEW!	£1699 (€1996.32)	£1849 (€2172.57)

### Neutron MMO

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- 12.1" TFT SVGA screen
- 2.1Gb Toshiba Hard Disk Drive (Upgradeable)
- 24x CD-ROM internal swappable with FDD
- 16 bit Stereo Sound with Wavetable & SRS 3D sound
- 2 Type II 1 type III PCMCIA slots
- Lithium Ion Battery
- USB Port
- Dimensions 303x234x52mm
- Weight 2.9kgs
- Windows 95 Preloaded
- Lotus SmartSuite 97 on CD
- International AC Adaptor
- Deluxe carry case



Processor	12.1" TFT
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P266 MMX	£1049 (€1232.57)

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PalmPilot Personal	109	128.07
PalmPilot Professional	145	170.37
Palm III	199	233.82
<b>Accessories</b>		
14k4 Data/Modem	69	81.07
1Mb RAM card	85	99.87
Docking Station	23	27.02
Sync Cable	16	18.80
Modem Cable	16	18.80
Palm III Cradle PC	25	29.37
Palm III Colour Pack	19	22.32
Palm III Leather Carry Case	25	29.37
Palm III Leather Case Deluxe	49	57.57
Palm III Leather Belt Clip	25	29.37

<b>CASIO</b>		
Cassiopia E-10 Windows CE v2.0	255	289.62
Cassiopia A-20 Windows CE v2.0	295	346.62

<b>COMPAQ</b>		
C-Series 810 8MB Mono	357	419.47
C-Series 810c 8MB Colour	420	493.50
C-Series 2010c 24MB Colour	487	572.22

<b>HEWLETT PACKARD</b>		
360LX 8Mb Windows CE v2.0	359	421.82
620LX Colour Windows CE v2.0	549	645.07
<b>Accessories</b>		
320LX AC Adaptor	25	29.37
320LX Windows CE v2.0 Upgrade	89	104.57
320LX Leather Case	49	57.57
320LX/360LX/620LX Li-Ion Battery	49	57.57
360LX AC Adaptor	29	34.07
620LX AC Adaptor	25	29.37
620LX Docking Cradle	25	29.37
620LX Battery Charger	49	57.57
620LX Video Output	79	92.82

<b>PSION</b>		
Siena 512k	99	116.32
Series 3mx 2Mb Backlit	209	245.57
Series 5 8Mb	299	351.32
Series 3/Siena Accessories		
1MB Flash SSD	55	64.62
2MB Flash SSD	79	92.82
1MB RAM SSD	119	139.82
Desk Stand	14	16.45
Leather Case	20	23.50
Mains Adaptor	12	14.10

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NOVADISK SOFTWARE £20 (£23.50 inc VAT)

\*Requires optional parallel port cables

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**PORTABLE CDROM & AUDIO PLAYER**

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- Fully hot swappable
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Targus, the market innovator introduce the latest technology in notebook computer protection - the Air Protection System (APS)

**Air Universal £59 (£69.32)**

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\* Also available in standard Universal Notebook

Please see Carry Case line listing for the full Targus range

## HANDBELDS continued

	ex VAT	inc VAT
<b>PSION continued</b>		
Series 3/Siena Accessories continued		
Parallel Cable	29	34.07
PCMCIA Modem adaptor	79	92.82
PsiWin Comms Link	65	76.37
Siena SSD Drive	64	75.20
<b>Series 5 Accessories</b>		
Leather Case	25	29.37
Mains Adaptor	15	17.62
Parallel Cable	29	34.07
PCMCIA Modem Adaptor	79	92.82
Ericsson GS18 Cable	20	23.50
4MB Compact Flash	49	57.57
8MB Compact Flash	59	69.32
12MB Compact Flash	85	99.87
16MB Compact Flash	99	116.32
32MB Compact Flash	199	233.82
<b>Series 5 Software</b>		
Allegro	35	41.12
Arcade Games	25	29.37
Backgammon/Chinese Chess	35	41.12
Chess	35	41.12
En Route	39	45.82
Expense Manager	39	45.82
Financial Calculator	39	45.82
Monopoly	25	29.37
Navigator	29	34.07
Presentation Manager	39	45.82

<b>SHARP</b>		
HC-4100 Windows CE v2.0	325	381.87
HC-4500 Colour Windows CE v2.0	519	609.82

## CARRY CASES

	ex VAT	inc VAT
<b>TARGUS</b>		
Air Universal	59	69.32
Digital Camera	35	41.12
FolioPac 3	35	41.12
Leather Wallet	19	22.32
Leather Mini Notebook	29	34.07
Leather Notebook	69	81.07
Leather Organizer	35	41.12
Leather Portfolio	49	57.57
NotePac	26	30.55
NotePac Plus	49	57.57
Pilot	85	99.87
Universal Notebook	49	57.57
Universal Deluxe	69	81.07

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- Enhanced HotSync technology
- Broad desktop application support

**PalmPilot Personal**

- Backlight display
- Instantly syncs data with your PC
- Data book, address book, memo pad, to do list, calculator
- Easy expense tracking
- Stores thousands of entries
- User upgradeable to Professional edition

**PalmPilot Professional**

All PalmPilot Personal features plus:

- E-mail functionality
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**Professional £145** (£170.37)

**Palm III £199** (£233.82)

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BackUPS 500MI	75	88.12
BackUPS 650MI	109	128.07
BackUPS Pro 280Si PnP	79	92.82
BackUPS Pro 420Si PnP	115	135.12
BackUPS Pro 650Si PnP	155	182.12
BackUPS Pro 1000i	229	351.32
BackUPS Pro 1400i	309	363.07
<b>SmartUPS</b>		
SmartUPS 420i & PowerChute	145	135.12
SmartUPS 620i & PowerChute	165	193.87
SmartUPS 700i & PowerChute	189	222.07
SmartUPS 1000i & PowerChute	259	304.32
SmartUPS 1400i & PowerChute	375	440.62
SmartUPS 2200i & PowerChute	539	633.32
SmartUPS 3000i & PowerChute	899	1056.32
<b>SmartUPS Extended Run</b>		
SmartUPS 700i Extended Run	349	410.07
SmartUPS 1000i Extended Run	429	504.07
SmartUPS 2200i Extended Run	819	962.32
<b>SmartUPS Rackmount</b>		
SmartUPS 700i Rack Mount	299	351.32
SmartUPS 1000i Rack Mount	439	515.82
SmartUPS 1400i Rack Mount	589	692.07
SmartUPS 2200i Rack Mount	919	1079.82
SmartUPS 3000i Rack Mount	1049	1232.57
<b>Matrix</b>		
Matrix 3000VA	1449	1702.57
Matrix 5000VA	2099	2466.32
<b>Accessories</b>		
Control-UPS	169	198.57
PowerManager	49	57.57
Share-UPS	155	182.12
SmartSlot Call-UPS II	79	92.82
SmartSlot Interface Expander	69	81.07
SmartSlot Relay I/O Module	79	92.82
SmartSlot SNMP Adaptor	179	210.32
<b>LIEBERT</b>		
Powersure 250VA	85	99.87
Powersure 400VA	115	135.12
Powersure 600VA	159	186.82
Powersure 700VA	209	245.57
Powersure 1000VA	289	339.57
Powersure 1400VA	439	515.82

**APC Back-UPS®, APC Back-UPS Pro®**

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Product	Typical Runtime	Price
Back-UPS 300MI	5-15 min.	£55 (£64.62)
Back-UPS Pro 280Si	7-17 min.	£85 (£99.87)
Back-UPS 500MI	5-30 min.	£75 (£88.12)
Back-UPS 650MI	5-54 min.	£109 (£128.07)
Back-UPS Pro 420Si	5-18 min.	£109 (£128.07)
Back-UPS Pro 650Si	6-44 min.	£155 (£182.12)

**APC Smart-UPS®**

- Extended protection against long duration brownouts and overvoltages with SmartBoost™ and SmartTrim™ automatic voltage regulation
- FREE PowerChute®plus software for advanced UPS power management and diagnostics, including graceful, unattended shutdown
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Runtime Product/VA	Capacity Half/Full load	Price
<b>APC Smart-UPS</b>		
Smart-UPS 420	10/4 min.	£115 (£135.12)
Smart-UPS 620	14/6 min.	£165 (£193.87)
Smart-UPS 700	17/5 min.	£189 (£222.07)
Smart-UPS 1000	18/6 min.	£259 (£304.32)
Smart-UPS 1400	18/7 min.	£385 (£452.37)

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- \* Ether Express Pro 100 Mobile CardBus £95 (£111.62 inc VAT)

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- InBusiness 8-Port Hub £55 (£64.62 inc VAT)
- InBusiness 4-Port Fast Hub £115 (£135.12 inc VAT)
- InBusiness 8-Port Fast Hub £215 (£252.62 inc VAT)
- InBusiness 8-Port Fast Hub Plus £419 (£492.32 inc VAT)
- InBusiness 8-Port Switch £279 (£327.82 inc VAT)
- InBusiness 8-Port Switch Plus £409 (£480.57 inc VAT)
- InBusiness Internet Station £245 (£287.87 inc VAT)



[www.intel.com/network](http://www.intel.com/network)

**PRINTER SERVERS**

<b>BAY NETGEAR</b>		
PS104 with 4port RJ45 Hub	95	111.62
PS110 2port 10/100 RJ45	129	151.57
<b>DLINK</b>		
DP-100 2 parallel 1 serial Combo	89	104.57
DP-301 10/100 1 parallel RJ45	85	99.87
DP-300 10/100 2 parallel, 1 serial RJ45	99	116.32
DP-602 10/100 Internet Server	99	116.32
DP-802 10/100 Multiple Server	109	128.07
<b>HP JETDIRECT</b>		
<b>Internal MIO</b>		
J2550B JetDirect RJ45	205	240.87
J2552B JetDirect Combo/LocalTalk	242	284.35
J2556B JetDirect 10/100	264	310.20
<b>Internal EIO</b>		
J3110A JetDirect 600N RJ45	181	212.67
J3111A JetDirect 600N Combo/LocalTalk	216	253.80
J3113A JetDirect 600N 10/100	232	272.60
<b>External</b>		
J2590A JetDirect Plus3 10/100	351	412.42
J2591A JetDirect Plus Combo	186	218.55
J2538A JetDirect 170X	96	112.80
J3263A JetDirect 300X 10/100	186	218.55
J3265A JetDirect 500X 10/100 3 parallel	220	258.50
<b>INTEL NETPORT EXPRESS</b>		
Pro MIO Combo	159	186.82
Pro Combo 2 parallel 1 serial 10/100 1 parallel	245	287.87
10/100 1 parallel 3 pack	149	175.07
10/100 1 parallel 3 pack	415	487.62
Pro 100 2 parallel 1 serial	239	280.82
Pro 100 2 parallel 1 serial 3 pack	629	739.07
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MR121T AUJ-RJ45	155	182.12
MR123 AUJ-AUJ	185	217.37
MR124 AUJ-BNC	185	217.37
MR125 BNC-BNC	185	217.37
MR126F AUJ-Fibre	249	292.57
<b>DLINK</b>		
DE-802 BNC-AUI 2port	125	146.87
DE-803 BNC-AUI 3port	85	99.87
DE-804 BNC-AUI 4port	169	198.57
DE-805 BNC-AUI 5port	115	135.12
DE-855 BNC-RJ45 Media Converter	45	52.87



## External Print Servers



### HP JetDirect 170x HP JetDirect 300x

The Small Business Print Server

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- \* Embedded Web Server - for status and configuration using a web browser
- \* All -In-One scanning support for LJ1100, OJPI170c & OJPI175c, enabling scanning across the network

HP JetDirect 170x for 10Base-T **£96** (£112.80 inc VAT)

HP JetDirect 300x for 10/100Base-T **£186** (£218.55 inc VAT)

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- \* Connects 3 parallel printers using only one network address
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HP JetDirect 500x for 10/100Base-T **£220** (£258.50 inc VAT)

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3C16732 280 8x10Mb, 2x10/100Mb	369	433.57
3C16733 400 4x10/100Mb	255	299.62
<b>SuperStack II</b>		
3C16460 Switch 320 12port	449	527.57
3C16464 10/100 Switch 12port	689	786.07
3C16465 10/100 Switch 24port	1015	1192.62
3C16902 Desktop Switch 24port	949	1115.07
3C16951 1100 12x10Mb, 2x10/100Mb	595	699.12
3C16950 1100 24x10Mb, 2x10/100Mb	829	974.07
3C16981 3300 12x10/100Mb	1089	1279.57
3C16980 3300 24x10/100Mb	1599	1878.82
3C39024 3900 24x10/100Mb	3399	3993.82
<b>BAY NETGEAR</b>		
SW108 8x10Mb	159	186.82
SW502 1x10Mb, 1x100Mb	299	351.32
SW507 6x10Mb, 1x100Mb	239	280.82
SW510 8x10Mb, 2x100Mb	239	280.82
SW518 16x10Mb, 2x100Mb	539	633.32
FS102 2x 10/100Mb	129	151.57
FS104 4x 10/100Mb	229	269.07
FS508 8x 10/100Mb	495	581.62
FS516 16x 10/100Mb	799	938.82
<b>DLINK</b>		
DES02 2x10/100Mb	109	128.07
DES05 4x10Mb, 1x10/100Mb	119	139.82
DES15 12x10Mb, 3x100Mb	245	287.87
DES18 16x10Mb, 2x10/100Mb	235	276.12
DES1004 4x10/100Mb	175	205.62
DES1008 8x10/100Mb	309	363.07
DES1012 12x10/100Mb	659	774.32
DES2208 6x10Mb, 2x10/100Mb	845	999.32
DES3208 8x10/100Mb Managed	379	445.32
DES3216 16x10/100Mb Managed	825	969.37
<b>INTEL</b>		
Express 10 Switch 24x10Mb	1099	1291.32
Express 10/100 Switch 8x10/100Mb	1289	1514.57
Express 510T Switch 24x10/100Mb	1449	1702.57
Express 550T Routing Switch 8port	1269	1491.07
<b>INTEL INBUSINESS</b>		
SS10T8 8x10Mb	279	327.82
SS110T8 8x10Mb, 2x10/100Mb	409	480.57

## NETGEAR

Award Winning Price Leader

NETGEAR Hubs are available for Ethernet or Fast Ethernet networks. The new Dual Speed Hub auto-senses 10 or 100 on every port - allowing you to mix different speed devices on one hub. If you want to share a printer without slowing down a network PC, choose NETGEAR PS104 printer server with a built-in 4 port Ethernet hub.



EN104TP	4 Port Hub	£25	(£29.37)
EN104	4 Port Hub + BNC	£45	(£52.87)
EN108TP	8 Port Hub	£39	(£45.82)
EN108	8 Port Hub + BNC + AUI	£59	(£69.32)
EN116	16 Port Hub + BNC + AUI	£89	(£104.57)
FE104	4 Port Fast Hub	£69	(£81.07)
FE108	8 Port Fast Hub	£129	(£151.57)
FE116	16 Port Fast Hub	£275	(£323.12)



DS108	8 x 10/100 Auto-sense Hub	£269	(£316.07)
PS104	4 Port-Hub + Print Server	£95	(£111.62)
PS1104	10/100 Print Server	£129	(£151.57)



NETGEAR cards are compatible with Windows, NetWare or UNIX networks. They come with a Lifetime warranty for peace of mind. Plug-n-Play makes installation simple.

FA310	10/100 PCI Card	£25	(£29.37)
FA410	10/100 PC Card	£75	(£88.12)
EA20T	10BaseT ISA Card	£19	(£22.32)

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Bay Networks

Prices in brackets are inclusive of VAT

## NETWORK ROUTERS

3COM	ex VAT	inc VAT
<b>Officeconnect</b>		
3C410002 Remote 511S Data	269	316.07
3C410007 Remote 521S Data/Voice	295	346.62
3C410012 Remote 531S Data/Voice/WAN	449	527.57
<b>AccessBuilder</b>		
3C400000 Remote Office 600 1port	1499	1761.32
3C400010 Remote Office 600 2port	1995	2344.12
3C400020 Remote Office 700	1699	1996.32
<b>BAY NETGEAR</b>		
RT210 ISDN Voice/Data	219	257.32
RH348 ISDN Voice/Data & 4port Hub	249	292.57
<b>DLINK</b>		
DI-106 IP Data/Voice & 6port Hub	185	217.37
DI-300 10/100 IP	195	229.12
DI-300M 10/100 IP/IPX	269	316.07
DI-1132P-11 IP Data	265	311.37
DI-1133PX-11 IP/IPX Data	375	440.62
DI-1133PX-11/V IP/IPX Data/Voice	449	527.57
DI-1135-11/TP ISDN Data	425	499.37
DI-1135C-11/TP ISDN Data	465	546.37
<b>INTEL</b>		
Express 8100	349	410.07
Express 9100	599	703.82
Express 9201	599	703.82
Express 9300	599	703.82
<b>INTEL INBUSINESS</b>		
Internet Station	245	287.87
<b>RAMP WEBRAMP</b>		
M3t	299	351.32
Entre ISDN Data/Voice & 4port Hub	339	398.32

## NETWORK TRANSCEVERS

ALLIED TELESYN	ex VAT	inc VAT
AT-210T AUI-RJ45	25	29.37
AT-MX10S BNC-RJ45	25	29.37
<b>DLINK</b>		
DE-851 BNC	19	22.32
DE-852N AUI	39	45.82
DE-853 RJ45	15	17.62
DE-854 Fibre	69	81.07
DPE-855 10/100 Fibre	149	175.07



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## OfficeConnect Ethernet Hubs

Ethernet hubs for small businesses or offices

No office should be an island. With 3Com's™ family of products, you can enjoy the same seamless access to information and computer resources provided to larger organisations, but at a price and convenience designed for smaller offices and workgroups. OfficeConnect hubs provide a central point of connection that makes resource sharing possible. OfficeConnect hubs offer a range of features and costs to meet the needs of any small but growing organisation, from an economical basic unit to a full-function model with network monitoring and management capabilities.

3C16704	Hub TP4	4port	£35	(£41.12 inc VAT)
3C16703	Hub TP4C	4port & BNC & AUI	£49	(£57.57 inc VAT)
3C16700	Hub 8/TPO	8port	£49	(£57.57 inc VAT)
3C16701	Hub 8/TPC	8port & BNC	£65	(£76.37 inc VAT)
3C16702	Hub TP16C	16port & BNC	£115	(£135.12 inc VAT)
3C16723	Hub TP400	4port & 100TX	£85	(£99.87 inc VAT)
3C16722	Hub TP800	8port & 100TX	£145	(£170.37 inc VAT)
3C16721	Hub TP1200	12port & 100TX	£255	(£299.62 inc VAT)

## OfficeConnect Network Starter Kit

The most reliable way to build your network

3Com™ understands the importance of reliable, compatible, and affordable networking. Sharing information and peripherals is what makes your office more productive and your business more successful. The OfficeConnect Networking Kit was designed with these needs in mind. Whether you are networking your office for the first time or expanding your existing network, the OfficeConnect Networking Kit is the right connection for you.

- For 10BASE-T Ethernet networks
- 3 EtherLink® III ISA Network Interface Cards
- 1 OfficeConnect 8-Port Ethernet Hub
- Connecting Cabling & Instructions

### 4 Port Starter Kit

£89 (£104.57 inc VAT)



## Network Interface Cards

Ever since local area networking began, 3Com™ network interface cards (NIC's) have set the standard for excellence. Broad compatibility, reliability, superior performance, and value make 3Com™ NIC's the most popular LAN Network Interface Cards in the world.



3C509B-TP	RJ45 ISA	£35	(£41.12 inc VAT)
3C509B-COMBO	Combo ISA	£75	(£88.12 inc VAT)
3C900B-TP	RJ45 PCI	£35	(£41.12 inc VAT)
3C900B-COMBO	Combo PCI	£75	(£88.12 inc VAT)
3C905B-TX	10/100BASE-TX PCI	£55	(£64.62 inc VAT)
3CCFE575	10/100BASE-TX PC Card CardBus	£89	(£104.57 inc VAT)
3CCC5556	10/100BASE-TX & 56k Modem PC Card	£185	(£217.37 inc VAT)
3CXE589BT	RJ45 PC Card XJACK	£79	(£92.82 inc VAT)
3CXE589BC	Combo PC Card XJACK	£109	(£128.07 inc VAT)
3CXEM556T	LAN+56k Modem PC Card RJ45 XJACK	£165	(£193.87 inc VAT)
3CXEM556C	LAN+56k Modem PC Card Combo XJACK	£185	(£217.37 inc VAT)

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**NETWORK HUBS**

3COM	ex VAT	inc VAT
OfficeConnect		
3C16700 8TPD 8port	49	57.57
3C16701 8TPC 8port	65	76.37
3C16702 TP16C 16port	115	135.12
3C16703 TP4 Combo 4port	49	57.57
3C16704 TP4 4port	35	41.12
3C16710 8TPM 8port	209	245.57
3C16721 TP1200 12port 100TX	255	299.62
3C16722 TP800 8port 100TX	145	170.37
3C16723 TP400 4port 100TX	85	99.87
SuperStack II		
3C16405 Port Switch 40 12port	249	292.57
3C16406 Port Switch 40 24port	529	621.57
3C16450 Port Switch 50 24port	565	663.87
3C16440 Entry Hub 12port	119	139.82
3C16441 Entry Hub 24port	185	217.37
3C16592 Dual Speed 10/100 12port	709	833.07
3C16593 Dual Speed 10/100 24port	1169	1373.57
3C16610 Dual Speed 500 12port	579	680.32
3C16611 Dual Speed 500 24port	859	1009.32
3C16670 Hub10 12port	299	351.32
3C16671 Hub10 24port	525	616.87
3C250C-TX-12 100TX 12port	495	581.62
3C250C-TX-24 100TX 24port	719	844.82
<b>BAY NETGEAR</b>		
SB104 4port Starter Kit PCI	69	81.07
FB104 4port Fast Startef Kit PCI	115	135.12
EN104TP 4port	25	29.37
EN106TP 6port	35	41.12
EN108TP 8port	39	45.82
EN104 4port & BNC	35	41.12
EN108 8port & BNC	55	64.62
EN308 8port & BNC & AUJ	59	69.32
EN116 16port & BNC & AUJ	89	104.57
EN516 16port & BNC & AUJ	105	123.37
EN524 24port & BNC & AUJ	145	170.37
FE104 4port 100TX	69	81.07
FE108 8port 100TX	129	151.57
FE116 16port 100TX	275	323.12
FES08 8port 100TX Rack	219	257.32
FE516 16port 100TX Rack	329	386.57
DS108 10/100 8port	185	217.37
DS508 8port 10/100 Rack	255	299.62
DS516 16port 10/100 Rack	385	452.37
DS524 24port 10/100 Rack	475	558.12
<b>COMPAQ</b>		
100S 5port	45	52.87
1009B 8port & BNC	55	64.62
10017A/B 16port & BNC & AUJ	115	135.12
1108 8port 100TX	269	316.07
HB2120 4port 100TX	85	99.87
HB2121 8port 100TX	149	175.07
HB2122 16port 100TX	249	292.57
HB3120 8port 10/100	219	257.32
HB3130 16port 10/100	309	363.07
HB3220 8port 10/100 & Switch	275	323.12
HB3230 16port 10/100 & Switch	439	515.82
<b>DABS</b>		
5port	25	29.37
8port	39	45.82
16port	79	92.82
8port 100TX	179	210.32
<b>DLINK</b>		
DE905TP 5port	25	29.37
DEB09TC 8port & BNC	35	41.12
DEB09TP 8port	45	52.87
DEB16TP 16port	75	88.12
DEB24TP 24port	119	139.82
DE1824 24port Client	159	186.82
DE1824i 24port Master	215	252.62
DFE808 8port 100TX	139	163.32
DFE816 16port 100TX	199	233.82
DFE904 4port 10/100	55	64.62
DFE908 8port 10/100	159	186.82
DFE908X 8port 10/100 & Switch	165	193.87
DFE916 16port 10/100	245	287.87
DFE916X 16port 10/100 & Switch	275	323.12
DFE2616 16port 10/100 Client	285	334.87
DFE2616X 16port 10/100 Client & Switch	325	381.87
DFE2616i 16port 10/100 Master	425	499.37
DFE2616iX 16port 10/100 Master & Switch	465	546.37
<b>INTEL</b>		
Express 100 8port	215	252.62
Express 130T 8port 10/100	299	351.32
Express 210 10/100 12port	459	539.32
Express 210 10/100 24port	625	734.37
Express 220 10/100 12port	499	586.32
Express 220 10/100 24port	655	769.82
<b>INTEL INBUSINESS</b>		
SH10T5 5port	39	45.82
SH10T8B 8port & BNC	55	64.62
SH100TX4 4port 100TX	115	135.12
SH100TX8 8port 100TX	215	252.62
SH101TX8 8port 10/100	299	351.32

**NETWORK CARDS**

3COM	ex VAT	inc VAT
Bare Cards		
3C-509TPO RJ45 ISA	28	32.90
3C-509B Combo ISA	49	57.57
3C-900TPO RJ45 PCI	28	32.90
3C-900 Combo PCI	49	57.57
3C-905TX 10/100 PCI	44	51.70
Retail Boxed		
3C-509TPO RJ45 ISA	35	41.12
3C-509B Combo ISA	75	88.12
3C-515TX 10/100 ISA	95	111.62
3C-900TPO RJ45 PCI	35	41.12
3C-900 Combo PCI	75	88.12
3C-905BTX 10/100 PCI	55	64.62
3C-980TX 10/100 Server PCI	99	116.32
3C-574 10/100 PCMCIA	89	104.57
3C-592 Combo EISA	129	151.57
3C-597TX 10/100 EISA	149	175.07
3CXE589DT RJ45 PCMCIA XJack	79	92.82
3CXE589DC Combo PCMCIA XJack	109	128.07
3CCFE575TX 10/100 CardBus PCMCIA	89	104.57
3CCFE575BT 10/100 CardBus XJack	89	104.57
3CCFEM556 10/100 & 56K PCMCIA	185	217.37
3CXEM556T RJ45 & 56K PCMCIA XJack	165	193.87
3CXEM556C Combo & 56K PCMCIA XJack	185	217.37
<b>BAY NETGEAR</b>		
FA310TX 10/100 PCI	25	29.37
FA410 10/100 PCMCIA	75	88.12
<b>COMPAQ NETELLIGENT</b>		
10/100TX PCI	39	45.82
550 10/100 & 56K Modem PCMCIA	139	163.32
<b>DABS</b>		
Combo ISA	9	10.57
Combo PCI	11	12.92
10/100 PCI	24	28.20
Combo PCMCIA	45	52.87
<b>DLINK</b>		
DE-220PCT Combo ISA	10	11.75
DE-528CT Combo PCI	15	17.62
DFE-530TX 10/100 PCI	25	29.37
DE-620CT Combo Parallel	65	76.37
DE-660CT Combo PCMCIA	39	45.82
DME-560CT Combo & 56K PCMCIA	155	182.12
DFE-650TX 10/100 PCMCIA	75	88.12
DFE-660TX 10/100 CardBus PCMCIA	85	99.87
<b>GENIUS</b>		
Combo ISA	15	17.62
Combo PCI	19	22.32
10/100 PCI	25	29.37
Pocket Parallel	45	52.87
Combo PCMCIA	45	52.87
<b>INTEL</b>		
Ether Express Pro 10+ Combo	65	76.37
Ether Express Pro 10+ Combo PCI	69	81.07
Ether Express Pro 100 WOL PCI	49	57.57
Ether Express Pro 100 ISA	99	116.32
Ether Express Pro 100-PCI	49	57.57
Ether Express Pro 100 Mobile PCMCIA	89	104.57
Ether Express Pro 100 Mobile CardBus	95	111.62
Ether Exp Pro 100 & 56K Modem PCMCIA	185	217.37
<b>PSION DACOM</b>		
GoldCard Combo PCMCIA	85	99.87
GoldCard Combo & V34 Modem PCMCIA	159	186.82
NetGlobal PCMCIA	65	76.37
NetGlobal 10/100 PCMCIA	95	111.62
NetGlobal 10/100 CardBus	95	111.62
NetGlobal 10Mb & 56K Modem PCMCIA	179	210.32
<b>TDK/GREYCELL</b>		
GCS-2210 RJ45 PCMCIA	89	104.57
GCS-2220 Combo PCMCIA	105	123.75
10/100 CardBus	109	128.07
DF-3410 RJ45 & 33k6 Modem PCMCIA	199	233.82
DF-3412 Combo & 33k6 Modem PCMCIA	209	245.57
<b>SMC</b>		
1660BT EZ Card 10 Combo ISA	22	25.85
1208BT EZ Card 10 Combo ISA	22	25.85
8416BT EtherEZ Combo ISA PnP	39	45.82
8432BT EtherPower Combo PCI	49	57.57
9432BT EtherPower II 10/100 PCI	45	52.87
8020T EtherEZ RJ45 PCMCIA	79	92.82
8020BT EtherEZ Combo PCMCIA	105	123.37
<b>XIRCOM</b>		
RJ45 PCMCIA (10/100 upgradeable)	79	92.82
Combo PCMCIA (10/100 upgradeable)	105	123.37
10/100 PCMCIA	89	104.57
CardBus Ethernet II 10/100	89	104.57
CardBus Ethernet 10/100 & 56K Modem	189	222.07
RJ45 & 33k6 Modem PCMCIA	159	186.82
Combo & 33k6 Modem PCMCIA	175	205.62
10/100 RJ45 & 56K Modem PCMCIA	169	202.07
10/100 Combo & 56K Modem PCMCIA	205	240.87
RealPort Ethernet 10/100 PCMCIA	85	99.87
RealPort CardBus Ethernet 10/100	89	104.57
RealPort RJ45 & 56K Modem PCMCIA	169	202.07
RealPort 10/100 & 56K Modem PCMCIA	209	245.57



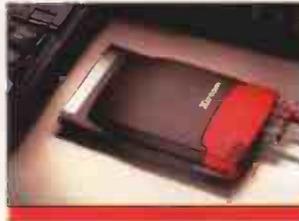
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RBEM 56-100BTX	RealPort CardBus 10/100 + Modem 56	£219	(£257.32)

**ETHERNET**

RE -100BTX	RealPort 10/100	£85	(£99.87)
RBE -100BTX	RealPort CardBus 10/100	£89	(£104.57)

**MODEM**

RM56G	RealPort Modem 56 GlobalACCESS	£89	(£104.57)
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**MEMORY**

\* The price of memory is very volatile, please call to confirm prices \*

30pin parity SIMM		168pin EDO DIMM 3.3v	
1Mb x 9 (1MB) 3chip	£5 (£5.87)	2Mb x 64 (16MB) 60ns	£15 (£17.62)
4Mb x 9 (4MB) 3chip	£9 (£10.57)	4Mb x 64 (32MB) 60ns	£29 (£34.07)
<b>72pin EDO SIMM</b>		8Mb x 64 (64MB) 60ns	£59 (£77.55)
2Mb x 32 (8MB) 60ns	£10 (£11.75)	16Mb x 64 (128MB) 60ns	£Call (£Call)
4Mb x 32 (16MB) 60ns	£20 (£23.50)	<b>168pin SDRAM DIMM 3.3v</b>	
8Mb x 32 (32MB) 60ns	£40 (£47.00)	2Mb x 64 (16MB) 10ns	£15 (£17.63)
16Mb x 32 (64MB) 60ns	£Call (£Call)	4Mb x 64 (32MB) 10ns	£28 (£32.90)
32Mb x 32 (128MB) 60ns	£Call (£Call)	8Mb x 64 (64MB) 10ns	£55 (£64.62)
<b>72pin FPM SIMM</b>		16Mb x 64 (128MB) 10ns	£109 (£128.07)
2Mb x 32 (8MB) 60ns	£10 (£11.75)	<b>72 &amp; 144pin SODIMM EDO 3.3v</b>	
4Mb x 32 (16MB) 60ns	£25 (£29.37)	8MB 60ns	£15 (£17.63)
8Mb x 32 (32MB) 60ns	£49 (£57.57)	16MB 60ns	£19 (£22.32)
16Mb x 32 (64MB) 60ns	£89 (£104.57)	32MB 60ns	£39 (£45.82)
32Mb x 32 (128MB) 60ns	£Call (£Call)	<b>PC66 DRAM (LX Chipset)</b>	
<b>168pin FPM or EDO DIMM 5v</b>		4M x 64 (32MB)	£30 (£35.25)
2Mb x 64 (16MB) 60ns	£18 (£21.15)	8M x 64 (64MB)	£60 (£70.50)
4Mb x 64 (32MB) 60ns	£25 (£29.37)	16M x 64 (128MB)	£100 (£117.50)
8Mb x 64 (64MB) 60ns	£49 (£57.57)	<b>PC100 DRAM (BX Chipset)</b>	
16Mb x 64 (128MB) 60ns	£Call (£Call)	4M x 64 (32MB)	£33 (£38.77)
		8M x 64 (64MB)	£60 (£70.50)
		16M x 64 (128MB)	£115 (£135.12)

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## Iomega Media

### Zip Drives

Zip PC 100Mb Single	<b>£9</b> (£10.57)
Zip PC 100Mb 6 pack	<b>£40</b> (£47.00)
Zip Mac 100Mb 6 pack	<b>£50</b> (£58.75)

### Jaz Drives

Jaz PC 1GB Single	<b>£59</b> (£69.32)
Jaz PC 1GB 3 pack	<b>£159</b> (£186.82)
Jaz PC 2GB Single	<b>£65</b> (£76.37)
Jaz PC 2GB 3 pack	<b>£159</b> (£186.82)
Jaz Mac 1GB 3 pack	<b>£159</b> (£186.82)
Jaz Mac 2GB 3 pack	<b>£159</b> (£186.82)

### Ditto 3.7GB

Ditto 3.7GB Single	<b>£14</b> (£16.45)
Ditto 3.7GB 3 pack	<b>£40</b> (£47.00)

### Ditto Max Pro

Ditto Max 3GB Tape Single	<b>£14</b> (£16.45)
Ditto Max 5GB Tape Single	<b>£17</b> (£19.97)
Ditto Max 7GB Tape Single	<b>£19</b> (£22.32)
Ditto Max 10GB Tape Single	<b>£23</b> (£27.02)

# Media

### 10 Pack Zip Disks

**£65**  
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## The Zip Starter Kit



## NEW Zip Starter Bundle

(100Mb parallel Port Zip drive solution for PC Notebooks and Laptops. Includes drive, cable, power adaptor and one Zip starter disk with multi lingual ZIP tools. Plus six-pack of media, and Recordit software)

Starter Bundle **£109** (£128.07)



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The easiest way to get multimedia into your PC, personalise it, and share it with others!

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- Ultra SCSI technology
- Data transfer rate of up to 20MB/sec

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- Onboard hardware compression up to 80.1
- 768 x 576 @ 25 frames per second
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- Videowave SE Plue, Hotshots, RecordIt

Buz Multimedia **£149**  
 (£175.07)



## The 100mb Zip Drive

The light weight Zip is 20 times as fast and offers 70 times the space of a traditional floppy. Ideal for mobile users Zip allows you to archive huge multimedia projects with ease.



Zip 100 USB External	<b>£99</b>	(£116.32)
Zip 100 SCSI Internal	<b>£79</b>	(£92.82)
Zip 100 SCSI External	<b>£79</b>	(£92.82)
Zip 6 disk pack	<b>£40</b>	(£47.00)

## Ditto Max Pro



Powerful desktop storage & tape backup in one simple device

- Customise capacity with 3.5GB, 5GB, 7GB and 10 cartridges
- Back up while you work
- Easy 1-Step software
- Flash!File - 5 second average access time
- FullBack system recovery software



Ditto Max Pro Internal (10GB)	<b>£139</b> (£163.32)
Ditto Max Pro External (10GB)	<b>£169</b> (£198.57)

## The 2GB Removable



The Super-Fast, Extremely Vast Personal Storage Drive that gives you a whopping 2GB per disk

- 2GB of storage space on each compact Jaz cartridge
- Fast - 7.35MB/s average transfer rate
- Ideal as a hard drive backup. Provides 4GB capacity with 2.1 compression
- Share data between PCs or from Mac to a PC
- Complete set of software utilities and tools make Jaz versatile and easy to use
- Packaged to suit you



Jaz 2GB Drive + (4 Jaz disks)	<b>£382</b> (£448.85)
Jaz 2GB Internal	<b>£249</b> (£292.57)
Jaz 2GB External	<b>£249</b> (£292.57)

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(£317.25 inc VAT)

PRODUCT	ex VAT	inc VAT	PRODUCT	ex VAT	inc VAT
CDR-4120Pro*	£225	£274.37	CDEW-4260ELPro	£310	£384.25
CDR-4120ELPro*	£190	£233.25	ACC002	£40	£47.00
CDE-4120ELPro*	£260	£325.50	ACC004	£30	£35.25
CDRW-2260Pro*	£269	£331.07	PRESSIT	£20	£23.50
CDRW-2260ELPro	£175	£216.62	CD-R disc	£1.40	£1.64
CDRW-2260ELPlus*	£204	£253.70	TXRW0074	£9	£10.57
CDRW-4260ELPro	£270	£337.25			

\*Includes Media

## Panasonic

### PANASONIC DVD-RAM DRIVE

The latest re-writable DVD drive



- Internal SCSI re-writable DVD-RAM drive, Win 95 support.
- The ultimate in CD/DVD media compatibility:
  - Read: DVD-ROM, DVD-RAM, CD-ROM, CD-R, CD-RW, PD
  - Write: DVD-RAM, PD Discs
  - Playback: Audio and Video CD, DVD-Video\*
- Ideally suited for large multimedia file storage, internet downloading and data backup

\*Additional MPEG2 playback hardware or software is required

PART NUMBER: LF-D101E **£390** (£458.25 inc VAT)

---



Includes one piece of LS-120 media

#### PANASONIC SUPERDISK 120MB

The next generation floppy disc drive

- Internal 3.5" Atapi floppy disk drive
- 120Mb media compatibility
- 100% backwards compatibility with existing 720k, 1.44MB floppy discs

PART NUMBER: LS-120S **£59** (£69.32 inc VAT)



#### PANASONIC ZIP DRIVES

- 3.5" internal Atapi ZIP drive
- 100Mb capacity
- 100% compatibility with lomega Zip media

PART NUMBER: JU-811TS **£59** (£69.32 inc VAT)

## REMOVABLE DRIVES & STREAMERS



### REMOVABLE DRIVES

OMEGA	Capacity	Interface	Internal	inc vat	External	inc vat
Zip	100Mb	EIDE	69	81.07	-	-
Zip	100Mb	SCSI	79	92.82	79	92.82
Zip	100Mb	Parallel	-	-	79	92.82
Jaz 1Gb	1Gb	SCSI	169	198.57	199	233.82
Jaz 2Gb	2Gb	SCSI	249	292.57	249	292.57

SUPERDISK	Capacity	Interface	Internal	inc vat	External	inc vat
LS-120 bare	120Mb	IDE	59	69.32	-	-
LS-120 kit	120Mb	Parallel	-	-	107	125.72

PANASONIC	Capacity	Interface	Internal	inc vat	External	inc vat
LS-120 bare	120Mb	IDE	59	69.32	-	-
PD Drive	650Mb	IDE	199	233.82	-	-
PD Drive	650Mb	Parallel	-	-	259	304.32
PD Drive	650Mb	SCSI	249	292.57	-	-
Zip JU811T	100Mb	IDE	59	69.32	-	-

SYQUEST	Capacity	Interface	Internal	inc vat	External	inc vat
EZFlyer	230Mb	Parallel	-	-	95	111.62
EZFlyer	230Mb	SCSI	-	-	95	111.62
Syjet	1.5Gb	Parallel	-	-	199	233.82
Syjet	1.5Gb	IDE	199	233.82	-	-
Syjet	1.5Gb	SCSI	199	233.82	199	233.82
SparQ	1Gb	IDE	131	153.92	-	-
SparQ	1Gb	Parallel	-	-	131	153.92

### BACKUP DEVICES

HEWLETT PACKARD	Capacity	Interface	Internal	inc vat	External	inc vat	Parallel	inc vat
Colorado T3000	1.6/3.2Gb	Floppy	92	108.10	-	-	-	-
Colorado 5Gb	2.5/5Gb	Floppy	117	137.47	-	-	144	169.20
Colorado 8Gb	4/8Gb	Floppy	140	164.50	-	-	168	197.40
Colorado T4	4/8Gb	SCSI	209	245.57	264	310.20	-	-
2/4Gb DAT Internal	2/4Gb	SCSI	259	304.32	-	-	-	-
SureStore 2000	2Gb	SCSI	302	354.85	388	455.90	-	-
SureStore 5000	2/4Gb	SCSI	330	387.75	409	480.57	-	-
SureStore 8	4/8Gb	SCSI	499	586.32	590	693.25	-	-
SureStore 24	12/24Gb	SCSI	727	854.22	805	945.87	-	-
SureStore DLT40	20/40Gb	SCSI	1902	2234.85	2105	2473.37	-	-
SureStore DLT70	70Gb	SCSI	-	-	4252	4996.10	-	-

OMEGA	Capacity	Interface	Internal	inc vat	External	inc vat	Parallel	inc vat
Ditto Max Pro	3/10Gb	IDE	139	162.32	-	-	169	198.57

QUANTUM	Capacity	Interface	Internal	inc vat	External	inc vat	Parallel	inc vat
DLT 4000	20/40Gb	SCSI	1633	1918.77	1744	2049.20	-	-
DLT 7000	35/70Gb	SCSI	3622	4255.85	3733	4386.27	-	-

SEAGATE	Capacity	Interface	Internal	inc vat	External	inc vat	Parallel	inc vat
Tapestor 8000I	4/8Gb	IDE	154	180.95	-	-	-	-
Tapestor 8000S	4/8Gb	SCSI	176	206.80	264	310.20	-	-

SEAGATE DAT	Capacity	Interface	Internal	inc vat	External	inc vat
STD24000N	2/4Gb	SCSI	345	405.37	349	410.07
STD28000N	4/8Gb	SCSI	386	453.33	488	573.40
STD22400N	12/24Gb	SCSI	589	692.07	661	776.67

SONY	Capacity	Interface	Internal	inc vat	External	inc vat
SDT-7000	4/8Gb	SCSI	433	508.77	483	567.52
SDT-9000	12/24Gb	SCSI	564	662.70	615	722.62
TSL-7000 Autoloader	4/8Gb	SCSI	1167	1371.22	1312	1541.60

Removable Drives





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- ✓ Highly trained specialist staff
- ✓ Repair & upgrade services

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	ex VAT	inc VAT
<b>DISCS</b>		
1.44Mb DSHD x 10 each	0.25	0.29
650Mb CD Recordable x 10 each	1.00	1.17
650Mb CD Recordable x 100 each	0.90	1.05
650Mb CD ReWritable x 10 each	10.50	12.33
650Mb CD ReWritable x 100 each	10.00	11.75
<b>TAPES</b>		
2Gb/4Gb 90m DAT	3	3.52
4Gb/8Gb 120m DAT	8	8.81
12Gb/24Gb 125m DAT	19	22.32
Travan TR-1 400/800Mb	16	18.80
Travan TR-3 1.6/3.2Gb	22	25.85
Travan TR-4 4/8Gb	25	29.37
omega Ditto 2000 1/2Gb	14	16.45
omega Ditto 2000 1/2Gb 3pack	38	44.65
omega Ditto Max 3Gb	14	16.45
omega Ditto Max 5Gb	17	19.97
omega Ditto Max 7Gb	19	22.32
omega Ditto Max 10Gb	23	27.02
<b>REMOVABLE CARTRIDGES</b>		
omega ZIP 100Mb	9	10.57
omega ZIP 100Mb 6 pack	40	47.00
omega JAZ 1Gb	59	69.32
omega JAZ 1Gb 3 pack	159	186.82
omega JAZ 2Gb	65	76.37
omega JAZ 2Gb 3 pack	159	186.82
LS-120 120Mb 3.5"	14	16.45
Panasonic 5.2Gb DVD-RAM	22	25.85
SyQuest SyJet 1.5Gb	51	59.92
SyQuest Spar0 1.0Gb	28	32.90
SyQuest Spar0 1.0Gb 3 pack	68	79.90
230Mb 3.5" MO	5	5.87
640Mb 3.5" MO	17	19.97
1.3Gb 5.25" MO	24	28.20
2.6Gb 5.25" MO	36	42.30

## DATA SWITCHES

	ex VAT	inc VAT
2/1 Parallel Manual	10	11.75
4/1 Parallel Manual	15	17.62
2/2 Crossover Parallel Manual	29	34.07
2/1 Parallel Auto	19	22.32
4/1 Parallel Auto	29	34.07
8/1 Parallel Auto	99	116.32
2/1 VGA & keyboard	15	17.62
4/1 VGA & keyboard	25	29.37

**Fujifilm, world leaders in the fields of photographic and electronic imaging, have incorporated their technical expertise into a comprehensive range of computer media products suitable for all data storage applications.**

**NEW PRODUCT - DLT TAPE**  
**TK88 DLT Type IV\* £55.00**  
 \*(20/40Gb) on 4000 Drive - (35/70Gb) on 7000 Drive

DISCS		TAPES	
650Mb CD-Recordable	£1.25 (£1.46)	2/4Gb 90m 4mm DAT	£3.00 (£3.52)
650Mb CD-ReWritable	£11.25 (£13.21)	4/8Gb 120m 4mm DAT	£7.50 (£8.81)
1.44Mb Floppy	£0.25 (£0.29)	12/24Gb 125m 4mm DAT	£19.00 (£22.32)
100Mb Zip	£7.50 (£8.81)	1.2Gb 54m 8mm DAT	£3.00 (£3.52)
230Mb MO	£4.65 (£5.46)	2.3Mb 112m 8mm DAT	£5.00 (£5.87)
640Mb MO	£17.00 (£19.97)	7Gb 160m 8mm DAT	£6.00 (£7.05)

## CABLES/DATA SWITCHES

	ex VAT	inc VAT
<b>CABLES</b>		
Printer		
Parallel Printer 2m	4	4.70
Bi-Directional Parallel Printer 2m	5	5.87
Bi-Directional Parallel Printer 3m	7	8.22
Bi-Directional Parallel Printer 5m	9	10.57
C36M-C36M Centronics 2m	5	5.87
C36M-C36M Centronics 3m	7	8.22
C36M-C36M Centronics 5m	9	10.57
Macintosh Printer 2m	5	5.87
Serial		
D25-D25 Serial 2m	5	5.87
D25-D25 Serial 3m	7	8.22
D25-D25 Serial 5m	9	10.57
D9F/D25F-D25M Modem 2m	5	5.87
D9F/D25F-D25M Modem 5m	9	10.57
Ethernet		
RG58 (Thin) Ethernet 2m	4	4.70
RG58 (Thin) Ethernet 3m	5	5.87
RG58 (Thin) Ethernet 5m	7	8.22
RG58 (Thin) Ethernet 10m	10	11.75
RJ45 (Twisted Pair) Ethernet 2m	3	3.52
RJ45 (Twisted Pair) Ethernet 3m	5	5.87
RJ45 (Twisted Pair) Ethernet 5m	7	8.22
RJ45 (Twisted Pair) Ethernet 10m	10	11.75
Mains		
IEC Mains 2m	5	5.87
IDE		
IDE HD 140F-140F-140F Internal 1m	3	3.52
Floppy 134F-134F-34F Internal 1m	3	3.52
SCSI		
SCSI 150F-150F-150F Internal 1m	5	5.87
SCSI D25M-C50M 1m	6	7.05
SCSI D25M-HC50M 1m	10	11.75
SCSI C50M-C50M 1m	8	9.40
SCSI C50M-C50M 2m	12	14.10
SCSI HC50M-C50M 1m	10	11.75
SCSI HC50M-C50M 2m	12	14.10
SCSI HC50M-HC50M 1m	10	11.75
SCSI HC50M-HC50M 2m	18	21.15
WideSCSI HC68M-C50M 1m	15	17.62
WideSCSI HC68M-HC50M 1m	18	21.15
WideSCSI HC68M-HC68M 1m	20	23.50
Other		
USB 2m	5	5.87
Keyboard Extension DIN5M-DIN5F 2m	5	5.87
VGA Extension HD15M-HD15F 2m	5	5.87

### CD-ReWritable

Release the artistic genius within - Create your own CD's  
 • Play any CD-ROM. Record on CD-R media. Write or rewrite CD-RW discs  
 • Includes Adaptec Easy CD Creator & Adaptec Direct CD software  
 • Multiread compatible (able to read CD-RW discs) • All drives support Digital Audio Extraction

PCA363RW Parallel External	£205 (£240.87 inc VAT)
PCA362RW IDE Internal	£155 (£182.12 inc VAT)
PCA350RW SCSI Internal	£169 (£198.57 inc VAT)

### CD-ROM

The ultimate solution for high speed data throughput  
 • Up to 6MB/s data transfer rate • Plug & Play  
 • All drives support Digital Audio Extraction

PCA36xCD IDE External	£35 (£41.12 inc VAT)
PCA40xCD IDE External	£47 (£55.22 inc VAT)

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**£245**

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- Reads all CD-, CD-R- & CD-RW formats (multi read)

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**£139**

### Portable CD-RW-, DVD- and CD-ROM solutions

Description	Order No.	Price	Inc VAT
Freecom CD-RW 2X/2X/6X	12661	£199	£233.82
Freecom CD-RW 4X/4X/20X	12659	£245	£287.87
Freecom DVD-ROM 2X/24X	12685	£139	£163.32
Freecom CD-ROM 32X	12683	£78	£91.65
Freecom IQ PCMCIA Cable	12545	£33	£38.77
Freecom IQ Parallel Cable	12544	£25	£29.37

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Freecom Traveller CD-ROM 20X	12687	£116	£136.30
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Freecom Traveller DVD 2X/20X	12692	£219	£257.32
Freecom IQ PCMCIA Cable	12545	£33	£38.77
Freecom IQ Parallel Cable	12544	£25	£29.37
PCMCIA MPEG II controller	12647	£162	£190.35

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- \*6x Read

Create your own CD ROM and CD-Audio. The CD Recordable is ideal for archiving and exchanging any kind of information.

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**HP SureStore CD-Writer 7200i/e**

The HP SureStore CD-Writer 7200 allows you to write, update and rewrite. Create CDs for CD ROM and audio players. Save and share up to 650MB of information worldwide

A complete solution in the box - contains industry leading software for business and home

- Adaptec DirectCD and mastering software
- HP's SimpleTrax software for file tracking and efficient file management
- DocuMagix PaperMaster Live acquire data from scanners, the www and desktop and store in 'filing cabinets' on CD
- Adobe Photo Deluxe for exciting photographic projects and screen savers
- Use Corel PrintHouse Magic and Multimedia Content to make an impact with your presentations
- Adaptec's Audio CD for creating audio CD's
- Digital Now Photo Album for cataloguing pictures and photos
- Includes Norton AntiVirus, which provides virus-free CD creation and distribution

HP SureStore CD-Writer 7200i Internal EIDE **£185** (€217.37 inc VAT)  
HP SureStore CD-Writer 7200e External Parallel **£249** (€292.57 inc VAT)

**HP SureStore CD-Writer Plus**

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Whether you want to create multimedia or audio CDs, or simply backup or archive your data, an HP SureStore CD-Writer Plus can handle the job with speed, convenience and complete reliability. With the widespread use of CD-ROM drives, CDs are also the ideal medium for exchanging files with co-workers and friends.

**HP SureStore CD-Writer 8100i**

The high performance CD creation kit for audio, multimedia, digital imaging and data CDs. With HP Fast Format, formatting CD-RW media takes less than five minutes, saving up to one hour or more.

The fastest, easiest way to makes your own CDs

- Fast Format of CD-RW in under 5 minutes
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- Up to 650MB, 74 minutes audio
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HP SureStore CD-Writer 8100i Internal EIDE **£229** (€269.07 inc VAT)

**ULTRAPLEX 40MAX**

The UltraPlex 40max offers improved performances over its previous generations. It features a Data Transfer rate between 2.6Mb - 6.0Mb and a fast random access time of 85ms for smooth multi-user and multi-tasking performances. In addition, the improved control of the 512Kb buffer enables faster transfer of large scaled data.

- PX-32TSi internal **£79** (€92.82)
- PX-32Csi internal **£113** (€132.77)
- PX-32TSe external **£117** (€137.47)

All Plexor CD ROM drives are backed up with a two-year warranty



**PLEXWRITER**

PX-R412Ci internal **£258** (€303.15)

The Plexor CD-Recorder writes at 4-speed that maximises the ability of a high speed backup. By 12-speed reading, the access time is 190ms, which is one of the highest performances among CD-R drives. Due to a massive buffer of 2MB, a stable writing can be secured.

The CD-Recorder includes a one year warranty.



Create custom CDs of up to 650MB of data or 74min of audio

\* Mitsumi CR 4801 TE  
8x read, 4x write internal IDE CDRecorder **£165** (€193.87 inc VAT)

This Plug and Play CD-Recorder supports all current CD-standards, reading at a speed of 1200 Kbytes per second and comes with a full 12 month warranty.

The drive comes with WinToGo 4.5 by CeQuadrat developed for Microsoft Windows 95 - including incremental Packet Writing software. The package includes: audio and data cables, a multi-language manual, three blank CD-R discs, screws, and the music software *Magix Music Centre*.

\* Mitsumi CR 2801 TE  
8x read, 2x write internal IDE CDRecorder **£125** (€146.87 inc VAT)

Mitsumi FX320 32x CD-ROM Drive **£27** (€31.72 inc VAT)

Mitsumi 1.44Mb Floppy Disk Drive **£10** (€11.75 inc VAT)

Mitsumi Serial/PS/2 Mouse **£6** (€7.05 inc VAT)

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**\*SPECIAL OFFER**  
CR 4801 TE & CR 2801 TE **FREE** CIRCLE SOUND  
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## CD. DVD. CD-R. CD-RW DRIVES

### CD-ROM & DVD-ROM DRIVES

Model	Interface	Speed	Int/Ext	Exc Vat	Inc Vat
<b>AMACOM</b>					
EZCD x24	Parallel	Twenty Four	Ext	95	111.62
EZCD x32	Parallel	Thirty Two	Ext	105	123.37
EZCD Sound x24	Parallel	Twenty Four	Ext	140	164.50
EZCD Sound x32	Parallel	Thirty Two	Ext	150	176.25
EZCD Card x24	PCMCIA	Twenty Four	Ext	110	129.25
EZCD Card x32	PCMCIA	Thirty Two	Ext	120	141.00
EZCD Bravo x20	PCMCIA	Twenty	Ext	165	193.87
<b>AOPEN</b>					
CD936E 36	IDE	Thirty Six	Int	32	37.60
CD940E 40	IDE	Forty	Int	40	47.00
<b>ASUSTEK</b>					
CD-S340 34	IDE	Thirty Four	Int	35	41.12
CD-S400 40	IDE	Forty	Int	45	52.87
<b>COMPUTER CONNECTIONS</b>					
Connect 36 (12306)	Parallel/IDE	Thirty Six	Ext	119	139.82
Connect 36 (12307)	Parallel/SCSI	Thirty Six	Ext	139	163.32
<b>CREATIVE LABS</b>					
32x DEM	IDE	Thirty Two	Int	25	29.37
CL 36x OEM	EIDE	Thirty Six	Int	36	42.30
DVD OEM	IDE		Int	75	88.12
DiscoveryPCI 128 Kit	IDE	5x, 32x + SB128PCI + Spkrs	Int	135	158.62
PC-DVD Encore 5x DXR2	IDE	5x, 32x + MPEG Card	Int	135	158.62
<b>LG</b>					
CRD-8322B	IDE	Thirty Two	Int	33	38.77
CRN-8240E	PCMCIA	Twenty Four	Ext	115	135.12
DRD-820B DVD-RDM	IDE	2x DVD, 24x CDRDM	Int	77	90.47
<b>MITSUMI</b>					
FX-320	IDE	Thirty Two	Int	30	35.25
<b>PANASONIC</b>					
CR588	IDE	Thirty Two	Int	33	38.77
CR508	SCSI	Twenty Four	Int	55	64.62
SR8528B DVD-RDM	SCSI	2x DVD, 20x CDRDM	Int	80	94.00
LFD101 DVD-RAM	SCSI	1x DVD, 20x CDRDM	Int	390	458.25
<b>PHILLIPS</b>					
36x	IDE	Thirty Six	Int	33	38.77
DVD-RDM	IDE	5x, 32x+ H/WPlusMPEG card	Int	165	193.87
<b>PIONEER</b>					
DRA-32x	IDE	Thirty Two	Int	36	42.30
DRS-32x	SCSI	Thirty Two	Int	53	62.27
DRA-04S Slot loading	IDE	Thirty Two	Int	36	42.30
<b>PLEXTOR</b>					
UltraPlex PX32T5I	SCSI	Thirty Two	Int	70	82.25
UltraPlex PX32C5I	SCSI	Thirty Two	Int	113	132.77
UltraPlex PX32T5E	SCSI	Thirty Two	Ext	117	137.47
<b>SAMSUNG</b>					
SCR-3230	IDE	Thirty Two	Int	32	37.60
<b>TEAC</b>					
CD-524E	IDE	Twenty Four	Int	31	36.42
CD-532E	IDE	Thirty Two	Int	34	39.95
CD-532S	SCSI	Thirty Two	Int	55	64.62
<b>TOSHIBA</b>					
XM6202B	IDE	Thirty Two	Int	34	39.95
XM6201B	SCSI	Thirty Two	Int	57	66.97

### CD RECORDABLE & CD REWRITEABLE

Model	Interface	Read/Write Speed	Int/Ext	Software Included	SCSI Card Included	Media	Ex VAT	Inc VAT
<b>COMPUTER CONNECTIONS</b>								
CDRW Satellite 12486	SCSI	6x 2 x 2x	Ext	Yes	No	2 CDR, 1 CDRW	209	245.57
CDRW Satellite 12487	SCSI	6x 4 x 2x	Ext	Yes	No	2 CDR, 1 CDRW	249	292.57
CDRW Satellite 12550	SCSI	16x 4 x 4x	Ext	Yes	No	2 CDR, 1 CDRW	269	316.07
CDRW Connect 11625	Parallel/IDE	6x 2x 2x	Ext	Yes	N/a	2 CDR, 1 CDRW	209	245.57
CDRW Connect 11626	Parallel/SCSI	6x 2x 2x	Ext	Yes	No	2 CDR, 1 CDRW	229	269.07
CDRW Connect 12027	Parallel/SCSI	6x 4x 2x	Ext	Yes	No	2 CDR, 1 CDRW	269	316.07
CDRW Connect	Parallel/SCSI	16x 2/4 x 2/4x	Int	Yes	No	2 CDR, 1 CDRW	269	316.07
CDRW Connect 12667	Parallel/SCSI	16x 2/4 x 2/4x	Ext	Yes	No	2 CDR, 1 CDRW	289	339.57
<b>COMPRO</b>								
CD-R 7502	SCSI	8x 4x	Int	Yes	No	No	189	222.07
<b>FREECOM</b>								
Freecom CD-RW 12661	Parallel/PCMCIA	6x 2 x 2x	Ext	Yes	No	2 CDR, 1 CDRW	199	233.82
Freecom CD-RW 12659	Parallel/PCMCIA	20x 4x 4x	Ext	Yes	No	2 CDR, 1 CDRW	245	287.87
Freecom DVD 12685	Parallel/PCMCIA	24x/2x	Ext	Yes	No	2 CDR, 1 CDRW	139	163.32
Traveller CD-ROM 12687	PCMCIA 2	20x	Ext	Yes	No	2 CDR, 1 CDRW	116	136.30
Traveller CD-ROM 12689	PCMCIA 2	24x	Ext	Yes	No	2 CDR, 1 CDRW	139	163.32
Traveller DVD 12692	PCMCIA 2	20x 2x	Ext	Yes	No	2 CDR, 1 CDRW	219	257.32
MPEG 2 Decoder 12647	PCMCIA 2	n/a for above	Yes	No	N/A		162	190.35
<b>HEWLETT PACKARD</b>								
Surestore 7200i CDRW	IDE	6x 2x 2x	Int	Yes	N/a	1 CDRW, 1 CDR	183	215.02
Surestore 7200e CDRW	Parallel	6x 2x 2x	Ext	Yes	No	1 CDRW, 1 CDR	245	287.87
Surestore 8100i CDRW	IDE	24 4x 2x	Int	Yes	N/a	1 CDRW, 1 CDR	229	269.07
<b>MITSUMI</b>								
CR2801TE ) * see panel	IDE	8x 2x	Int	Yes	N/a	3 CDR	125	146.87
CR4801TE ) for special offer	IDE	8x 4x	Int	Yes	N/a	3 CDR	165	193.87
<b>PHILIPS</b>								
DDD-3600	SCSI	6x 2x 2x	Int	Yes (recording)	n/a	1 CDRW, 1 CDR	145	170.37
<b>PLEXTOR</b>								
PlexWriter PX-R412Ci	SCSI	12r4w	Int	Yes	No	1 CDR	189	222.07
PlexWriter PX-R412Ce	SCSI	12r4w	Ext	Yes	No	1 CDR	289	339.57
<b>RICOH</b>								
MP-6200S Bare	SCSI	6x 2x 2x	Int	Yes (Data)	No	No	125	146.87
MP-6200S Soft/Media	SCSI	6x 2x 2x	Int	Yes	No	1 CDRW, 5 CDR	135	158.62
MP-6200S Kit	SCSI	6x 2x 2x	Int	Yes	Yes	1 CDRW, 5 CDR	170	199.75
MP-6200S Bare	SCSI	6x 2x 2x	Ext	Yes (Data)	No	No	190	223.25
MP-6200S Soft/Media	SCSI	6x 2x 2x	Ext	Yes	No	1 CDRW, 5 CDR	200	235.00
MP-6200S Kit	SCSI	6x 2x 2x	Ext	Yes	Yes	1 CDRW, 1 CDR	240	282.00
MP7040A-DP Kit	IDE	20x 4x 4x	Ext	Yes	Yes	1 CDRW, 5 CDR	£Call	£Call
<b>TEAC</b>								
CDR-55SK	SCSI	12r4w	Int	Yes (recording)	No	1 CDR	185	217.37
<b>TRAXDATA</b>								
CDR-4120PRO	SCSI	12x 4x	Int	Yes (recording)	Yes	2 x CDR	225	264.37
CDR4120ELPRO	SCSI	12x 4x	Int	Yes (recording)	No	2 x CDR	190	223.25
CDE4120ELPRD	SCSI	12x 4x	Ext	Yes (recording)	No	2 x CDR	260	305.50
CDRW2260PLUS	IDE	6x 2x 2x	Int	Yes (recording)	n/a	1 CDRW, 1 CDR	204	239.70
COEW2260ELPLUS	IDE	6x 2x 2x	Ext	Yes	n/a	1 CDRW, 1 CDR	210	246.75
CDRW-2260 PRO	SCSI	6x 2x 2x	Int	Yes	Yes	1 CDRW, 1 CDR	269	316.07
CDRW-2260ELPRD	SCSI	6x 2x 2x	Int	Yes	No	No	175	205.62
CDEW-2260ELPRO	SCSI	6x 2x 2x	Ext	Yes	No	No	167	196.22
CDRW-4260PRO	SCSI	6x 4x 2x	Int	Yes	Yes	1 CDRW, 1 CDR	310	364.25
CDRW-4260ELPRD	SCSI	6x 4x 2x	Int	Yes	No	No	270	317.25
CDEW-4260ELPRO	SCSI	6x 4x 2x	Ext	Yes	No	No	310	364.25
<b>YAMAHA</b>								
CDRW 4260T Bare	SCSI	6x 4x 2x	Int	No	No	No	175	205.62
CDRW 4260T with S/W	SCSI	6x 4x 2x	Int	Yes	No	No	195	229.12
CDRW 4260T Kit	SCSI	6x 4x 2x	Int	Yes	Yes	No	228	267.90
CDRW 4260TX Bare	SCSI	6x 4x 2x	Ext	No	No	No	220	258.50
CDRW 4260TX with S/W	SCSI	6x 4x 2x	Ext	Yes	No	No	240	282.00
CDRW 4260TX Kit	SCSI	6x 4x 2x	Ext	Yes	Yes	No	265	311.37
CDRW 4261T Kit	IDE	6x 4x 2x	Int	Yes	n/a	1 CDRW, 1 CDR	192	225.60
CDRW 4416S Bare	SCSI	16x 4x 4x	Int	No	No	No	230	270.25
CDRW 4416S with S/W	SCSI	16x 4x 4x	Int	Yes	No	No	248	291.40
CDRW 4416S Kit	SCSI	16x 4x 4x	Int	Yes	Yes	No	270	317.25
CDRW 4416S Bare	SCSI	16x 4x 4x	Ext	No	No	No	255	299.62
CDRW 4416S with S/W	SCSI	16x 4x 4x	Ext	Yes	No	No	273	320.77
CDRW 4416S Kit	SCSI	16x 4x 4x	Ext	Yes	Yes	No	295	346.62

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**SCSI HARD DISCS**

Model	Capacity	Interface	Access Time	Speed	Exc Vat	Inc Vat
<b>FUJITSU</b>						
Allegro 3	4.5Gb 1"	UltraWideSCSI	9ms	7200	215	252.62
Allegro 3	4.5Gb 1"	UltraWideSCSI SCA	9ms	7200	219	257.32
Allegro 3	9.1Gb 1"	UltraWideSCSI	9ms	7200	349	410.07
Allegro 3	9.1Gb 1"	UltraWideSCSI SCA	9ms	7200	389	457.07
Allegro 3	18.2Gb	UltraWideSCSI	9ms	7200	797	936.47
Allegro 3	18.2Gb	UltraWideSCSI SCA	9ms	7200	792	930.60
<b>IBM</b>						
Ultrastar 9ES 1"	4.5Gb	UltraWide SCSI SCA	7.5ms	7200	182	213.85
Ultrastar 9ES 1"	9.1Gb	UltraSCSI	7.5ms	7200	315	370.12
Ultrastar 9ES 1"	9.1Gb	UltraWide SCSI	7.5ms	7200	329	386.57
Ultrastar 9ES 1"	9.1Gb	UltraWide SCSI SCA	7.5ms	7200	329	386.57
Ultrastar 9ES 1" LVD	4.5Gb	UltraWideSCSI LVD	7.5ms	7200	185	217.37
Ultrastar 9ES 1" LVD	4.5Gb	UltraWideSCSI SCA LVD	7.5ms	7200	185	217.37
Ultrastar 9ES 1" LVD	9.1Gb	UltraWide SCSI LVD	7.5ms	7200	329	386.57
Ultrastar 9ES 1" LVD	9.1Gb	UltraWideSCSI SCA LVD	7.5ms	7200	329	386.57
Ultrastar 9LP 1"	9.0Gb	UltraSCSI	6.5ms	7200	329	386.57
Ultrastar 9LP 1"	9.0Gb	UltraWideSCSI	6.5ms	7200	345	405.37
Ultrastar 9LP 1"	9.0Gb	UltraWideSCSI SCA	6.5ms	7200	345	405.37
Ultrastar 9LP 1" LVD	9.0Gb	UltraWide SCSI LVD	6.5ms	7200	365	428.87
Ultrastar 9LP 1" LVD	9.0Gb	UltraWideSCSI SCA LVD	6.5ms	7200	365	428.87
Ultrastar 9ZX 1.6"	9.0Gb	UltraWideSCSI	6.3ms	10020	415	487.62
Ultrastar 9ZX 1.6"	9.0Gb	UltraWideSCSI SCA	6.3ms	10020	415	487.62
Ultrastar 18XP 1.6"	18Gb	UltraSCSI	7.5ms	7200	655	769.62
Ultrastar 18XP 1.6"	18Gb	UltraWideSCSI	7.5ms	7200	655	769.62
Ultrastar 18XP 1.6"	18Gb	UltraWide SCSI SCA	7.5ms	7200	655	769.62
Ultrastar 18XP 1.6" LVD	18Gb	UltraWide SCSI LVD	7.5ms	7200	675	793.12
Ultrastar 18XP 1.6" LVD	18Gb	UltraWide SCSI SCA LVD	7.5ms	7200	675	793.12
<b>QUANTUM</b>						
Viking II	4.5Gb	UltraWideSCSI LVD	7.5ms	7200	165	193.87
Viking II	4.5Gb	UltraWide SCSI SCA	7.5ms	7200	165	193.87
Viking II	9.1Gb	UltraWide SCSI LVD	7.5ms	7200	295	346.62
Viking II	9.1Gb	UltraWide SCSI SCA	7.5ms	7200	295	346.62
Atlas III	9.1Gb	UltraSCSI	7.5ms	7200	319	374.82
Atlas III	9.1Gb	UltraWide SCSI LVD	7.5ms	7200	319	374.82
Atlas III	9.1Gb	UltraWide SCSI SCA	7.5ms	7200	319	374.82
Atlas III	18.2Gb	UltraSCSI	7.5ms	7200	585	687.37
Atlas III	18.2Gb	UltraWide SCSI LVD	7.5ms	7200	585	687.37
Atlas III	18.2Gb	UltraWide SCSI SCA	7.5ms	7200	585	687.37
<b>SEAGATE</b>						
Medalist Pro ST34520N	4.5Gb	UltraSCSI	14ms	7200	159	186.82
Medalist Pro ST34520W	4.5Gb	UltraWideSCSI	14ms	7200	175	205.62
Medalist Pro ST34520WC	4.5Gb	UltraWideSCSI SCA	14ms	7200	186	218.55
Medalist Pro ST36530N	6.5Gb	UltraSCSI	14ms	7200	189	222.07
Medalist Pro ST36530W	6.5Gb	UltraWideSCSI	14ms	7200	226	265.55
Medalist Pro ST36530WC	6.5Gb	UltraWideSCSI SCA	14ms	7200	229	269.07
Medalist Pro ST39140N	9.1Gb	UltraSCSI	14ms	7200	298	350.15
Medalist Pro ST39140W	9.1Gb	UltraWideSCSI	14ms	7200	313	367.77
Medalist Pro ST39140WC	9.1Gb	UltraWideSCSI SCA	14ms	7200	327	384.22
Barracuda 9LP ST34573N	4.5Gb	UltraSCSI	7.1/7.8ms	7200	291	341.92
Barracuda 9LP ST34573W	4.5Gb	UltraWideSCSI	7.1/7.8ms	7200	295	346.62
Barracuda 9LP ST34573WC	4.5Gb	UltraWideSCSI SCA	7.1/7.8ms	7200	311	365.42
Barracuda 9LP ST34573LW	4.5Gb	LVD	7.1/7.8ms	7200	302	354.85
Barracuda 9LP ST34573LC	4.5Gb	LVD SCA	7.1/7.8ms	7200	305	358.37
Barracuda 9LP ST34573FC	4.5Gb	Fibre Channel	7.1/7.8ms	7200	362	425.35
Barracuda 9LP ST39173N	9.1Gb	UltraSCSI	7.1/7.8ms	7200	349	410.07
Barracuda 9LP ST39173W	9.1Gb	UltraWideSCSI	7.1/7.8ms	7200	349	410.07
Barracuda 9LP ST39173WC	9.1Gb	UltraWideSCSI SCA	7.1/7.8ms	7200	369	433.57
Barracuda 9LP ST39173WD	9.1Gb	Wide Differential	7.1/7.8ms	7200	455	534.62
Barracuda 9LP ST39173LW	9.1Gb	LVD	7.1/7.8ms	7200	385	452.37
Barracuda 9LP ST39173LC	9.1Gb	LVD SCA	7.1/7.8ms	7200	389	457.07
Barracuda 9LP ST39173FC	9.1Gb	Fibre Channel	7.1/7.8ms	7200	355	417.12
Barracuda 18 ST118273N	18.2Gb	UltraSCSI	7.6/8.3ms	7200	645	757.87
Barracuda 18 ST118273W	18.2Gb	UltraWideSCSI	7.6/8.3ms	7200	649	762.57
Barracuda 18 ST118273WC	18.2Gb	UltraWideSCSI SCA	7.6/8.3ms	7200	649	762.57
Barracuda 18 ST118273WD	18.2Gb	Wide Differential	7.6/8.3ms	7200	705	828.37
Barracuda 18 ST118273LW	18.2Gb	LVD	7.6/8.3ms	7200	656	770.80
Barracuda 18 ST118273LC	18.2Gb	LVD SCA	7.6/8.3ms	7200	656	770.80
Barracuda 18 ST118273FC	18.2Gb	Fibre Channel	7.6/8.3ms	7200	662	777.85
Cheetah 4LP ST34501N	4.5Gb	UltraSCSI	7.5/8.5ms	10000	316	371.30
Cheetah 4LP ST34501W	4.5Gb	UltraWideSCSI	7.5/8.5ms	10000	314	368.95
Cheetah 4LPST34501WC	4.5Gb	UltraWide SCSI SCA	7.5/8.5ms	10000	314	368.95
Cheetah 9LP ST39102LW	9.1Gb	LVD	5.2/6.0ms	10000	476	559.30
Cheetah 9LP ST39102LC	9.1Gb	LVD SCA	5.2/6.0ms	10000	436	512.30
Cheetah 9LP ST39102FC	9.1Gb	Fibre Channel	5.2/6.0ms	10000	445	522.87
Cheetah 18 ST118202LW	18.2Gb	LVD	5.7/6.5ms	10000	805	945.87
Cheetah 18 ST118202LC	18.2Gb	LVD SCA	5.7/6.5ms	10000	807	948.22
Cheetah 18 ST118202FC	18.2Gb	Fibre Channel	5.7/6.5ms	10000	829	974.07
<b>WESTERN DIGITAL</b>						
Enterprise E4360	4.3Gb	UltraSCSI	8ms	7200	233	273.77
Enterprise E4360	4.3Gb	UltraWideSCSI	8ms	7200	240	282.00
Enterprise E9100	9.1Gb	UltraSCSI	8ms	7200	365	428.87
Enterprise E9100	9.1Gb	UltraWideSCSI	8ms	7200	391	459.42
Enterprise E9100	9.1Gb	UltraWideSCSI SCA	8ms	7200	391	459.42

**HARD DISCS**



**EIDE HARD DISCS**

Model	Capacity	Interface	Access Time	Speed	Exc Vat	Inc Vat
<b>FUJITSU</b>						
PicoBird	3.2Gb	EIDE/Ultra DMA	11ms	5400	74	86.95
PicoBird	4.3Gb	EIDE/Ultra DMA	11ms	5400	83	97.52
PicoBird	6.4Gb	EIDE/Ultra DMA	11ms	5400	104	122.20
PicoBird	8.4Gb	EIDE/Ultra DMA	11ms	5400	119	139.82
PicoBird	10.2Gb	EIDE/Ultra DMA	11ms	5400	163	191.52
<b>IBM</b>						
00K4115 Titan 16GP	6.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	112	131.60
00K4101 Titan 16GP	8.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	133	156.27
00K4091 Titan 16GP	10.1Gb	EIDE/Ultra DMA/33	9.5ms	5400	149	175.07
00K4083 Titan 16GP	12.9Gb	EIDE/Ultra DMA/33	9.5ms	5400	199	233.82
00K4073 Titan 16GP	16.8Gb	EIDE/Ultra DMA/33	9.5ms	5400	229	269.07
03L5261 Titan 14GXP	10.1Gb	EIDE/Ultra DMA/33	9.5ms	7200	159	186.82
00K4071 Titan 14GXP	14.4Gb	EIDE/Ultra DMA/33	9.5ms	7200	259	304.32
<b>MAXTOR</b>						
90432D2 Diamond Max 4320	4.3Gb	EIDE/Ultra DMA/33	9ms	5400	83	97.52
90500D4 Diamond Max Plus 2500	5.0Gb	EIDE/Ultra DMA/33	9ms	7200	105	123.37
906480D3 Diamond Max 4320	6.4Gb	EIDE/Ultra DMA/33	9ms	5400	100	117.50
90750D6 Diamond MaxPlus 2500	7.5Gb	EIDE/Ultra DMA/33	9.5ms	7200	133	156.27
90845D4 Diamond Max 4320	8.4Gb	EIDE/Ultra DMA/34	9.5ms	5400	119	139.82
91000D8 Diamond MaxPlus 2500	10.0Gb	EIDE/Ultra DMA/33	9.5ms	7200	159	186.82
91728D8 Diamond Max 4320	17.2Gb	EIDE/UltraDMA/34	9ms	5400	237	278.47
<b>QUANTUM</b>						
Fireball EL	5.1Gb	EIDE/Ultra DMA ATA	9.5ms	5400	88	103.40
Fireball EL	7.6Gb	EIDE/Ultra DMA ATA	9.5ms	5400	108	126.90
Fireball EL	10.2Gb	EIDE/Ultra DMA ATA	9.5ms	5400	143	168.02
Fireball EX	3.2Gb	EIDE/Ultra DMA ATA	9.5ms	5400	73	85.77
Fireball EX	6.4Gb	EIDE/Ultra DMA ATA	9.5ms	5400	98	115.15
Fireball EX	12.7Gb	EIDE/Ultra DMA ATA	9.5ms	5400	188	220.90
Bigfoot TX	4.0Gb	EIDE/Ultra DMA ATA	12ms	4000	72	84.60
Bigfoot TX	6.0Gb	EIDE/Ultra DMA 33	12ms	4000	88	103.40
Bigfoot TX	8.0Gb	EIDE/Ultra DMA 33	12ms	4000	102	119.85
Bigfoot TX	12.0Gb	EIDE/Ultra DMA 33	12ms	4000	139	163.32
<b>SEAGATE</b>						
Medalist ST32122A	2.1Gb	EIDE/Ultra ATA3 DMA	12ms	4500	62	72.85
Medalist ST33210A	3.2Gb	EIDE/Ultra ATA3 DMA	12ms	4500	72	84.60
Medalist ST34321A	4.3Gb	EIDE/Ultra ATA3 DMA	10.5ms	5400	81	95.17
ST36531A	6.5Gb	EIDE/Ultra ATA3 DMA	10.5ms	5400	97	113.97
ST36530A	6.5Gb	EIDE/Ultra ATA3 DMA	9.5ms	7200	99	116.32
ST38641A	8.6Gb	EIDE/Ultra ATA3 DMA	10.5ms	5400	119	139.82
ST39140A	9.1Gb	EIDE/Ultra ATA3 DMA	9.5ms	7200	135	158.62
<b>WESTERN DIGITAL</b>						
AC33200-UD	3.2Gb	EIDE/Ultra DMA/33	11ms	5400	84	98.70
AC34300-UD	4.3Gb	EIDE/Ultra DMA/33	11ms	5400	89	104.57
AC36400-UD	6.4Gb	EIDE/Ultra DMA/33	11ms	5400	106	124.55
AC38400-UD	8.4Gb	EIDE/Ultra DMA/33	11ms	5400	135	158.62
<b>2.5" EIDE HARD DISCS</b>						
Model	Capacity	Interface	Access Time	Speed	Exc Vat	Inc Vat
<b>HITACHI</b>						
DK227A-41U 12.7mm	4.1Gb	EIDE/Ultra DMA/33	12ms	4500	169	198.57
DK237A-50U 12.7mm	5.0Gb	EIDE/Ultra DMA/33	12ms	4500	269	316.07
<b>IBM</b>						
Travelstar 3XP 17mm	3.08Gb	EIDE	12ms	4900	159	186.82
Klondike 4G 03L5550	3.2Gb	EIDE/Ultra DMA/34	13ms	4200	129	151.57
Toccata 4G 00K0381	3.2Gb	EIDE/Ultra DMA/36	13ms	4000	129	151.57
08J1195 Toccata 4GT 12.5mm	4.0Gb	EIDE/Ultra DMA/33	13ms	4000	179	210.32
03L5560 Klondike 4GS	4.3Gb	EIDE/Ultra DMA.35	13ms	4200	149	175.07
00K0366 Travelstar 5GS 17mm	5.1Gb	EIDE/Ultra DMA/33	12ms	4900	175	205.62
Acadia 5GS 03L5640	6.4Gb	EIDE/Ultra DMA/33	12ms	4200	209	245.57
03L5220 Yellowstone 8GS 17mm	8.1Gb	EIDE/Ultra DMA/33	12ms	4900	349	410.07
<b>TOSHIBA</b>						
MK3205 LP 12.7mm	3.2Gb	EIDE/Ultra DMA	13ms	4200	139	163.32
MK4309 LP 12.7mm	4.3Gb	EIDE/Ultra DMA	13ms	4200	149	175.07
MK6409 LP 12.7mm	6.4Gb	EIDE/Ultra DMA	13ms	4200	249	292.57

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Model	Capacity	Interface	Access Time	Speed	Exc Vat	Inc Vat
ST32122A	2.1Gb	EIDE/Ultra ATA3	12ms	4500	£62	(£72.85)
ST33210A	3.2Gb	EIDE/Ultra ATA3	12ms	4500	£72	(£84.60)
ST34321A	4.3Gb	EIDE/Ultra ATA3	10.5ms	5400	£81	(£95.17)
ST36531A	6.5Gb	EIDE/Ultra ATA3	10.5ms	5400	£97	(£113.97)
ST36530A	6.5Gb	EIDE/Ultra ATA3	9.5ms	7200	£99	(£116.32)
ST38641A	8.6Gb	EIDE/Ultra ATA3	10.5ms	5400	£119	(£139.82)
ST39140A	9.1Gb	EIDE/Ultra ATA3	9.5ms	7200	£135	(£158.62)

*Prices shown in brackets are inclusive of VAT*

The Medalist family of drives are backed by a 3 year limited warranty

## IBM hard disk drives

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Model	Capacity	Interface	Access Time	Speed	Exc Vat	Inc Vat
00K4115 Titan 16GP	6.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	£112	(£131.60)
00K4101 Titan 16GP	8.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	£133	(£156.27)
00K4091 Titan 14GP	10.1Gb	EIDE/Ultra DMA/33	9.5ms	5400	£149	(£175.07)
00K4083 Titan 14GP	12.9Gb	EIDE/Ultra DMA/33	9.5ms	5400	£199	(£233.82)
00K4073 Titan 14GP	16.8Gb	EIDE/Ultra DMA/33	9.5ms	5400	£229	(£269.07)
03L5261 Titan	10.1Gb	EIDE/Ultra DMA/33	9.5ms	7200	£159	(£186.82)
00K4071 Titan	14.4Gb	EIDE/Ultra DMA/33	9.5ms	7200	£259	(£304.32)
UltraStar 9ES 1"	4.5Gb	UltraWide SCSI SCA	7.5ms	7200	£182	(£213.85)
UltraStar 9ES 1"	9.1Gb	UltraSCSI	7.5ms	7200	£315	(£370.12)
UltraStar 9ES 1"	9.1Gb	UltraWideSCSI	7.5ms	7200	£329	(£386.57)
UltraStar 9ES 1"	9.1Gb	UltraWideSCSI SCA	7.5ms	7200	£329	(£386.57)

## Maxtor DiamondMax

High performance Ultra DMA



Model	Capacity	Interface	Access Time	Speed	Exc Vat	Inc Vat
90432D2	4.3Gb	EIDE/Ultra DMA/33	9ms	5400	83	(£97.52)
90500D4	5.0Gb	EIDE/Ultra DMA/33	9ms	7200	105	(£123.37)
90648D3	6.4Gb	EIDE/Ultra DMA/33	9ms	5400	100	(£117.50)
90750D6	7.5Gb	EIDE/Ultra DMA/33	9.5ms	7200	133	(£156.27)
90845D4	8.4Gb	EIDE/Ultra DMA/34	9.5ms	5400	119	(£139.82)
91000D8	10.0Gb	EIDE/Ultra DMA/33	9.5ms	7200	159	(£186.82)
91728D8	17.2Gb	EIDE/UltraDMA/34	9ms	5400	237	(£278.47)

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Model	Capacity	Interface	Access Time	Speed	Exc Vat	Inc Vat
Fireball EL	5.1Gb	EIDE/Ultra DMA ATA	9.5ms	5400	£88	(£103.40)
Fireball EL	7.6Gb	EIDE/Ultra DMA ATA	9.5ms	5400	£108	(£126.90)
Fireball EL	10.2Gb	EIDE/Ultra DMA ATA	9.5ms	5400	£143	(£168.02)
Fireball EX	3.2Gb	EIDE/Ultra DMA ATA	9.5ms	5400	£73	(£85.77)
Fireball EX	6.4Gb	EIDE/Ultra DMA ATA	9.5ms	5400	£98	(£115.15)
Fireball EX	12.7Gb	EIDE/Ultra DMA ATA	9.5ms	5400	£188	(£220.90)
Bigfoot TX	4.0Gb	EIDE/Ultra DMA ATA	12ms	4000	£72	(£84.60)
Bigfoot TX	6.0Gb	EIDE/Ultra DMA 33	12ms	4000	£88	(£103.40)
Bigfoot TX	8.0Gb	EIDE/Ultra DMA 33	12ms	4000	£102	(£119.85)
Bigfoot TX	12.0Gb	EIDE/Ultra DMA 33	12ms	4000	£139	(£163.32)

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# Data Storage

### HP Colorado Travan Backup

Affordable, reliable full-system PC protection



C4341B	HP Colorado T3000 + media	£102	(£119.85)
C4376B	HP Colorado T3000 - no media	£92	(£108.10)
C4429A	Single	£18	(£21.15)
C4354A	HP Colorado 5Gb Internal + media	£127	(£149.22)
C4355A	HP Colorado 5Gb Internal - no media	£117	(£137.47)
C4361A	HP Colorado 5Gb External + media	£158	(£185.65)
C4362A	HP Colorado 5Gb External - no media	£144	(£169.20)
C4429A	Single	£18	(£21.15)
C4386A	HP Colorado 8Gb Internal + media	£161	(£189.17)
C4387A	HP Colorado 8Gb Internal	£140	(£164.50)
C4388A	HP Colorado 8Gb External + media	£189	(£222.07)
C4389A	HP Colorado 8Gb External	£168	(£197.40)
C4425A	TR4 4Gb Minicartridge (single)	£24	(£28.20)

Prices shown in brackets are inclusive of VAT

### HP DAT

Outstanding value for network backup



C1525H	HP Surestore Tape 2000i + media	£302	(£354.85)
C1520H	HP Surestore Tape 2000e + media	£388	(£455.90)
C1526H	HP Surestore Tape 5000i + media	£330	(£387.75)
C1521H	HP Surestore Tape 5000e + media	£409	(£480.57)
92283B	5 pack	£15	(£17.62)
C1536A	HP 2/4Gb Internal-DAT Internal SCSI OEM	£259	(£304.32)
92283B	5 pack	£15	(£17.62)
C1528H	HP Surestore DAT8i Internal 4/8Gb	£499	(£586.32)
C1529H	HP Surestore DAT8e External 4/8Gb	£590	(£693.25)
92300A	5 pack	£35	(£41.12)
C1555B	HP Surestore DAT24i Internal 12/24Gb	£727	(£854.22)
C1556B	HP Surestore DAT24e External 12/24Gb	£805	(£945.87)
C1517A	5 pack	£80	(£94)
C5648A	HP DAT24x6e 144Gb External Autoloader	£1628	(£1912.90)
C1559A	HP Surestore DAT 24x6e 144Gb External Autoloader + media	£1865	(£2191.37)

### HP SureStore T4i/e

Cost-effective backup with a complete software solution for entry-level LANs



C5644C	Surestore T4i Internal SCSI + media	£209	(£245.57)
C5645B	Surestore T4e External SCSI + media	£264	(£310.20)
C4425A	TR4 Single	£24	(£28.20)

### HP Surestore DLT

High-performance backup for high-end servers



C5647A	HP DLT 40i 40Gb DLT Internal + media	£1902	(£2234.85)
C1579A	HP DLT 40e 40Gb DLT External + media	£2105	(£2473.37)
C5658A	HP DLT 70e 70Gb DLT External + media	£4252	(£4996.10)
C5141F		£55	(£64.62)

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**MOTHERBOARDS**

**MOTHERBOARDS**

ABIT	Chipset	Memory SIMM, DIMM	Slots PCI/ISA/AGP	Form Factor	with Sound	with VGA	with SCSI	with HW Health Monitoring	Exc Vat	Inc Vat
AXX5	Intel 430TX	4D	4/4/0	ATX	No	No	No	No	37	43.47
TX5	Intel 430TX	4S/2D	4/3/0	AT	No	No	No	No	48	56.40
AP5	Aladdin 5 100Mhz	3D	3/2/1	ATX	No	No	No	No	Call	Call
AH6	Intel 440LX	3D	3/2/1	ATX	No	No	No	No	59	69.32
LX6	Intel 440LX	4D	4/3/1	ATX	No	No	No	No	67	78.72
LM6	Intel 440LX	4D	5/2/1	ATX	No	No	No	No	59	69.32
BX6	Intel 440BX	4D	4/3/1	ATX	No	No	No	Yes	79	92.82
BH6	Intel 440BX	3D	5/2/1	ATX	No	No	No	No	69	81.07
EX6	Intel 440EX	2D	3/2/1	ATX	No	No	No	No	Call	Call
<b>AOPEN</b>										
AX59Pro 512K VIA MVP3 100Mhz		3D, 2S	4/2/1	ATX	No	No	No	No	56	65.80
AX59Pro 1Mb VIA MVP3 100Mhz		3D, 2S	4/2/1	ATX	No	No	No	No	63	74.02
AX6LC	Intel 440LX	4D	4/3/1	ATX	No	No	No	Yes	69	81.07
AX6B	Intel 440BX	4D	4/3/1	ATX	No	No	No	Yes	96	112.80
AX6B+	Intel 440BX	4D	4/3/1	ATX	No	No	Yes	Yes	133	156.27
MX6E+	Intel 440EX	3D	4/2/1	MicroATX	Yes	No	No	Yes	67	78.72
<b>ASUSTEK</b>										
P5A-B	Aladdin 5 100Mhz	3D	3/2/1	AT	Yes	No	No	Yes	61	71.67
P5A	Aladdin 5 100Mhz	3D	3/2/1	ATX	Yes	No	No	Yes	68	79.90
P2L97	Intel 440LX	3D	5/2/1	ATX	No	No	No	Yes	76	89.30
P2L97-S	Intel 440LX	3D	4/2/1	ATX	No	No	Yes	Yes	134	157.45
P2L97-DS	Dual Intel 440LX	4D	4/2/1	ATX	No	No	Yes	Yes	215	252.62
P2L97-A	Intel 440LX	3D	4/2/OnboardAGP	ATX	No	Yes	No	No	125	146.87
P2L-B	Intel 440LX	3D	3/2/1	AT	No	No	No	Yes	73	85.77
P2B	Intel 440BX	3D	4/3/1	ATX	No	No	No	Yes	105	123.37
P2B-S	Intel 440BX	4D	4/2/1	ATX	No	No	Yes	Yes	194	227.95
P2B-DS	Dual Intel 440BX	4D	4/2/1	ATX	No	No	Yes	Yes	284	333.70
P2B-LS	Dual Intel 440BX	4D	4/2/1	ATX	No	No	Yes	Yes	225	264.37
<b>CHAINTECH</b> All Motherboards include PC-Cillin Anti-Virus Software										
5SIM	SIS	2S, 2D	4/3/0	AT	No	No	No	No	47	55.22
5TDM2	Intel 430TX	4S, 2D	4/4/0	AT	No	No	No	No	60	70.50
5TTL	Intel 430TX	3D	4/4/0	ATX	No	No	No	No	60	70.50
6ESA2	Intel 440EX	2D	2/2/1	MicroATX	Yes	No	No	No	65	76.37
6LTM2	Intel 440LX	3D	4/2/1	ATX	No	No	No	Yes	79	92.82
6LTM	Intel 440LX	3D	4/3/1	ATX	No	No	No	Yes	92	108.10
6BTM	Intel 440BX	4D	4/3/1	ATX	No	No	No	Yes	97	113.97
<b>ELITE</b>										
P5SD-B+ Supersocket 7 112Mhz		4S, 2D	4/2/1	AT	No	No	No	No	54	63.45
P5SD-A	SIS 5591/95	4S, 2D	3/3/1	ATX	No	No	No	No	74	86.95

ELITE continued	Chipset	Memory SIMM, DIMM	Slots PCI/ISA/AGP	Form Factor	with Sound	with VGA	with SCSI	with HW Health Monitoring	Exc Vat	Inc Vat
P6LX-A+	Intel 440LX	3D	4/3/1	ATX	No	No	No	Yes	75	88.12
P6LX-A	Intel 440LX	4D	4/3/1	ATX	No	No	No	No	82	96.35
P6LX-A SCSI	Intel 440LX	4D	4/3/1	ATX	No	No	No	Yes	176	206.80
P6LX2-A SCSI Dual	Intel 440LX	4D	5/2/1 + raid	ATX	No	No	No	Yes	235	276.12
P6BX-A+	Intel 440BX	3D	5/2/1	ATX	No	No	No	No	80	94.00
<b>GIGABYTE</b>										
GA5AX 100Mhz	ALI M1541	3D	4/3/1	ATX	No	No	No	No	57	66.97
GA6EX	Intel 440EX	3D	4/3/1	ATX	No	No	No	Yes	75	88.12
GA6EM	Intel 440EX	2D	2/2/1	MicroATX	No	No	No	No	71	83.42
GA6EMM	Intel 440EX	2D	2/2/1	MicroATX	Yes	Yes	No	No	109	128.07
GA686LX4	Intel 440LX	4D	4/2/1	ATX	No	No	No	Yes	72	84.60
GA686BX	Intel 440BX	4D	4/3/1	ATX	No	No	No	Yes	94	110.45
GA6BA	Intel 440BX	4D	4/2/1	AT	No	No	No	Yes	104	122.20
GA6BXS	Intel 440BX	4D	4/3/1	ATX	No	No	Yes	Yes	171	200.92
GA6BXDS	Dual Intel 440BX	4D	4/3/1	ATX	Yes	No	Yes	Yes	206	242.05
<b>INTEL</b>										
Atlanta AL440LX	Intel 440LX	3D	4/2/1	ATX	No	No	No	Yes	80	94.00
Atlanta AL440LX	Intel 440LX	3D	4/2/1	ATX	Yes	No	No	Yes	90	105.75
SE440BX	Intel 440BX	3D	4/2/1	ATX	No	No	No	Yes	93	109.27
SE440BX	Intel 440BX	3D	4/2/1	ATX	Yes	No	No	Yes	105	123.37
MJ440EX	Intel 440EX	2D	2/2/0	ATX	Yes	Yes	No	Yes	89	104.57
<b>MICROSTAR</b>										
MS-5169 100Mhz	Ali M1531	3D	4/3/1	ATX	No	No	No	No	56	65.80
<b>QDI</b>										
Excellent I	Intel 440EX	2D	3/3/1	ATX	No	No	No	No	62	72.85
Legend V	Intel 440LX	3D	4/3/1	ATX	No	No	No	No	68	79.90
Brilliant I	Intel 440BX	3D	4/3/1	ATX	No	No	No	No	91	106.92
Brilliant IV	Dual Intel 440BX	4D	4/2/1	ATX	No	No	Yes	No	312	366.60
<b>SMICRO</b>										
P5MMA98	Intel 430TX	2D	4/4/0	AT	No	No	No	Yes	68	79.90
P5MMS98	Intel 430TX	2D	4/4/0	AT	No	No	No	Yes	68	79.90
P6SLA	Intel 440LX	3D	4/3/1	ATX	No	No	No	Yes	71	83.42
P6DLE	Dual Intel 440LX	4D	4/3/1	ATX	No	No	No	Yes	196	230.30
P6DLS	Dual Intel 440LX	4D	4/3/1	ATX	No	No	Yes	Yes	281	330.17
P6SBA	Intel 440BX	3D	4/3/1	ATX	No	No	No	Yes	90	105.75
P6SBS	Intel 440BX	3D	4/3/1	ATX	No	No	Yes	Yes	200	235.00
P6DBE	Dual Intel 440BX	4D	4/3/1	ATX	No	No	No	Yes	187	219.72
P6DBS	Dual Intel 440BX	4D	4/3/1	ATX	No	No	Yes	Yes	293	344.27
P6DGDual	Intel 440GX Slot I	4D	5/2/1	ATX	No	No	Yes	Yes	474	556.95
S2DGRDual	Intel 440GX Slot II	4D	4/2/1	ATX	No	No	Yes	Yes	598	702.65

**PROCESSORS**

**PROCESSORS**

All Intel and AMD processors come retail packed with fan, heatsink, all necessary retention clips and manufacturers fitting instructions (except where indicated). Please bear this in mind when comparing prices. \* = not boxed product

AMD	ex VAT	inc VAT
K6-2@ 300Mhz 3D Now!™ Technology	79	92.82
K6-2@ 333Mhz 3D Now!™ Technology	83	97.52
K6-2@ 350Mhz 3D Now!™ Technology	89	104.57
K6-2@ 380Mhz 3D Now!™ Technology*	125	146.87
K6-2@ 400Mhz 3D Now!™ Technology	175	205.62
<b>CYRIX</b>		
MII 300MHz*	53	62.27
<b>EVERGREEN</b>		
486 - 586/133 Upgrade	85	99.87
486 - 586/133 Upgrade - 5 Pack	330	387.75
MX Pro 200MHz MMX	89	104.57
MX Pro 200MHz MMX - 5 Pack	380	446.50

IBM	ex VAT	inc VAT
PR300 6X86MX & Heatsink	52	61.10
PR333 6X86MX & Heatsink	95	111.62
<b>INTEL</b>		
Intel® Celeron™ processor 300MHz	69	81.07
Intel® Celeron™ processor 300MHz with 128k cache	95	111.62
Intel® Celeron™ processor 333MHz with 128k cache	109	128.07
Intel® Pentium® II processor 333MHz with 512k cache	129	151.27
Intel® Pentium® II processor 350MHz with 512k cache	149	175.07
Intel® Pentium® II processor 400MHz with 512k cache	245	287.87
Intel® Pentium® II processor 450MHz with 512k cache	359	421.82
<i>Pentium is a registered trademark and MMX and Celeron are trademarks of Intel Corporation</i>		
<b>INTEL OVERDRIVE</b>		
Intel® Pentium® 100, 133Mhz → processor with MMX™ technology 166Mhz	103	121.02
Intel® Pentium® 100, 133, 166Mhz → processor with MMX™ technology 200Mhz	130	152.75

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1Mb cache  
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## Formula 1 performance

With AGP Slot



### P6BX-A+

- Intel 440BX Chipset
- Pentium II CPU 233-450MHz & the new Celeron CPU 266-333MHz
- Memory: 3x DIMM (PC100 Specification)
- AGP Slot • 2x ISA, 5x PCI Slots
- Jumperless CPU Setting
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- 2MB Flash BIOS • ATX Form factor

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- 2 x ISA, 4 x PCI Slots
- Baby-AT Form Factor

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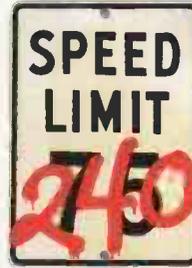
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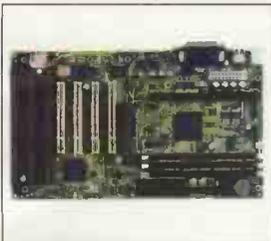


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5-Track	200 MHz	£380	£446.50
	240 MHz	£495	£581.62
	100 MHz / 133 MHz	£330	£330

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P6 SBA Pentium II 440BX  
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P6 SBU Pentium II 440BX  
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**£206** (£242.05 inc VAT)

- Intel 440BX Chipset
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- 3 DIMM Sockets
- 4 PCI/3 ISA/1 AGP slots
- 2Mb flash BIOS, Plug & Play, APM 1.2, DMI 2.01
- 2 Ultra DMA Bus Master with 33Mb/s burst data transfer rate, supports PI Mode 4, DMA Mode 2 & up to 4 IDE devices and LS-120 optical Floppy
- 1 ECP/EPP Parallel Port, 2 USB Conn., PS/2 Mouse & PS/2 Keyboard
- ACPI 1.0/PC 98 Ready
- PC Health Monitoring
- ATX Form Factor

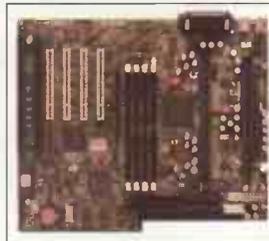


P6DBE Dual Pentium II 440BX

P6 DBE Pentium II 440BX  
**£187** (£219.72 inc VAT)

P6 DBS Pentium II 440BX  
 with Adaptec Dual Channel UWSCSI  
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- Intel 440BX Chipset
- Dual Pentium II 233-400MHz (66/100MHz CPU & DRAM Buses), (works with one or two CPUs)
- 4 DIMM Sockets
- 5 PCI/2 ISA/1 AGP slots
- 2Mb flash BIOS, Plug and Play, APM 1.2, DMI 2.01
- 2 Ultra DMA Bus Master with 33Mb/s burst data transfer rate, supports PI Mode 4, DMA Mode 2 and up to 4 IDE devices and LS-120 optical Floppy
- 1 ECP/EPP Parallel Port, 2 USB Conn., PS/2 Mouse & PS/2 Keyboard
- ACPI 1.0/PC 98 Ready
- PC Health Monitoring
- ATX Form Factor



S2DGU Pentium II 440GX

S2 DGU Pentium II 440GX  
 with Adaptec Ultra 2 SCSI  
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- Dual Pentium II XEON Processors
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- Supports up to 2GB SDRAM
- 4 PCI/2 ISA/1 AGP Slots
- Ultra DMA Bus Master with 33Mb/s burst data transfer rate supports PIO Mode 4, DMA Mode 2 and up to 4 EIDE devices
- 1 ECP/EPP Parallel Port, 2 USB Connectors, PS/2 Mouse and PS/2 Keyboard
- Adaptec Dual Channel Ultra 2 (LVD) Wide SCSI
- ACPI Ready/PC98 Ready
- PC Health Monitoring
- ATX Form Factor

P6 DGU Pentium II 440GX  
**£339** (£398.32 inc VAT)

with Adaptec Dual Channel UWSCSI

- Intel 440GX Chipset
- Intel Pentium II 233-450MHz
- 4 DIMM Sockets
- Supports up to 2GB SDRAM
- 5 PCI/2 ISA/1 AGP Slots
- Ultra DMA Bus Master with 33Mb/s burst data transfer rate supports PIO Mode 4, DMA Mode 2 and up to 4 EIDE devices
- 1 ECP/EPP Parallel Port, 2 USB Connectors, PS/2 Mouse and PS/2 Keyboard
- Adaptec Dual Channel Ultra 2 (LVD) Wide SCSI
- ACPI Ready/PC98 Ready
- PC Health Monitoring
- ATX Form Factor

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**Chipset**

- Intel 430BX chipset (82443BX and 82371EB)
- Supports Ultra DMA/33 IDE protocol
- Supports Advanced Configuration and Power Management Interface (ACPI)
- Supports AGP 66MHz/133MHz (Sideband) 3.3v device

**Memory (DRAM)**

- Four 168-pin DIMM sockets support SDRAM module
- Supports up to 512MB MAX. (8, 16, 32, 64, 128MB SDRAM)
- ECC support

**L2 Cache Memory**

- Level 1 and Level 2 cache built into Intel Pentium® II processor cartridge

**System BIOS**

- Built-in SOFT MENU II™ sets all CPU parameters
- Award Plug and Play BIOS Supports APM, DMI, and ACPI
- Write-Protect Anti-Virus function by AWARD BIOS
- Year 2000 compliant

**Multi I/O Functions**

- One floppy port supporting up to 2.88MB FDD + 3 mode floppy drive
- Two channels of bus master IDE ports connectors for up to four IDE devices (including LS-120MB floppy drive)
- One Built-in Standard/EPP/ECP parallel port connectors
- Two built-in 16550 fast UART compatible serial ports connectors
- Built-in PS/2 keyboard and PS/2 mouse ports connectors
- Built-in standard IrDA TX/RX header
- Built-in two USB connector

**Miscellaneous**

- ATX form factor
- One AGP slot, four PCI slots and three ISA slots
- Hardware monitoring-included fan speed, voltage and systems environment temperature

**LX6 ATX PII Motherboard with Intel 440LX chipset and CPU SOFT MENU™**

**CPU**

- Supports Pentium® II 233 – 333MHz processor cartridge
- Supports Celeron™ II 266 – 300MHz processor cartridge

**Chipset**

- Intel 440LX chipset (82443LX and 82371AB)
- Supports Ultra DMA/33 IDE protocol/ACPI ready
- Supports AGP 66MHz/133MHz Sideband 3.3v device

**Memory (DRAM)**

- Four 168-pin DIMM sockets for 3.3v unbuffered DRAM modules
- DIMM sockets support SDRAM, EDO DRAM
- Supports up to 512MB
- ECC support

**System BIOS**

- Level 1 & 2 cache built into Intel Pentium® II processor cartridge

**Audio Systems**

- CPU Soft Menu™ jumperless technology
- Award plug & play BIOS supports APM, DMI
- BIOS setup supports 66, 75\* & 83\* MHz selections
- Write-Protect anti-virus function by AWARD BIOS
- Year 2000 compliant

**Multi I/O Functions**

- One floppy Port connector supporting up to 2.88MB floppy drive
- Two channels of bus master IDE ports for up to four IDE devices (inc LS-120MB floppy drive)
- Built-in Standard/EPP/ECP parallel port connector
- Two built-in 16550 fast UART compatible serial ports connectors
- Built-in PS/2 keyboard and PS/2 Mouse ports connectors
- Wake on LAN header and SB-Link™ header
- Two built-in USB ports connectors

**Miscellaneous**

- ATX form factor
- One AGP slot, Four PCI slots and Three ISA slots

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\* Speeds supported but not guaranteed due to the chipset/CPU spec.

Please see the Motherboard grid opposite for full specs and pricing on the whole range of Abit boards



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## 440BX 100MHz

System Bus



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- Two USB ports on board
- 68/75/83MHz system frequencies for overclocking possibility
- Supports SB-Link header for Creative PCI audio

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- Supports up to 450MHz Intel Pentium II
- AGP slot
- SeePU jumperless CPU setting
- Supports SDRAM up to 512MB
- Two USB ports on board
- 66/100MHz system clock speeds
- Supports 68/75/83/103/112MHz system clock speeds for CPU overclocking possibility
- Supports SB-Link header for Creative PCI audio

£89 (£104.57)

Model	Chipset	Memory	PCI/ISA/AGP	Form Factor	Sound	VGA	SCSI	Price
5S1M	SIS	2 DIMM, 2 SIMM	4/3/0	AT	No	No	No	£40 (£47)
5TDM2	Intel 430TX	2 DIMM, 4 SIMM	4/4/0	AT	No	No	No	£60 (£70.50)
5TTL	Intel 430TX	3DIMM	4/4/0	ATX	No	No	No	£60 (£70.50)
6ESA	Intel 440EX	2DIMM	2/2/1	Micro ATX	Yes	No	No	£69 (£81.07)
6LTM2	Intel 440LX	3 DIMM	4/2/1	ATX	No	No	No	£65 (£76.37)
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Cyrix M II™ - 300 processor

Pentium® II processor, 300 MHz

0 5 10 15 20

Source: Cyrix Corporation. Configuration for M II™ - 300 processor-based system: ASUS SP97-XV motherboard; 32MB RAM, 512K RAM cache; 3.2GB hard disk with ULTRA DMA IDE controller, FAT 32 file system, and no hardware disk cache; Diamond Viper V330 (Turbo) Graphic adapter with 4MB SDRAM, VP0025p DRV version 4.10.01.005 driver; 1024 x 768 pixels with 16 million colors, refresh at 75Hz.

Configuration for the 300 MHz Pentium® II processor-based system: ASUS P2L97 motherboard; 32MB RAM, 512K RAM cache; 3.2GB hard disk with ULTRA DMA IDE controller, FAT 32 file system, and no hardware disk cache; Diamond Viper V330 (Turbo) Graphics adapter with 4MB SDRAM, VP0025p DRV version 4.10.01.005 driver; 1024 x 768 pixels with 16 million colors, refresh at 75Hz.

•Megahertz-equivalent performance level. Based upon industry-standard benchmark comparisons to the Pentium® II processor when tested in equivalently configured computer systems. For further information on the performance of Cyrix processors, please visit the Cyrix Web site at [www.cyrix.com](http://www.cyrix.com)

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Maxim 60 60W	15	17.62
Maxim 120 120W	25	29.37
Maxim 160 160W	29	34.07
Maxim 250 250W	39	45.82
Maxim 300 Woofer	49	57.57
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Digital Sound System 80 USB	119	139.82
<b>PHILIPS</b>		
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MMS-130	15	17.62
MMS-230	29	34.07
MMS-250 Sub woofer	43	50.52
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DSS-370 & Sub woofer USB	119	139.82
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SpeechMike Pro	75	88.12
SpeechMike Pro Exec	219	257.32
<b>TEAC</b>		
PowerMax 1000ProLogic Set	149	175.07
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YST-M15	39	45.82
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Sound Blaster Live! Value

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- Easy installation alongside your existing video card
- Double the speed with 2 boards
- Optimised Diamond drivers
- Plug and play

8 Mb **£90** (£105.75)

12 Mb **£120** (£141.00)

Prices shown in brackets are inclusive of VAT.  
Retail boxes shown for illustrative purposes only.

**Viper V550**

**NEW**



Next-generation nVIDIA RIVA TNT technology. The Viper V550 features the fastest graphics processor available, making it significantly faster in both 2D and 3D than any other card on the market.

- DVD and MPEG 2- Full screen flicker-free playback (AGP version only).
- Blistering 3D performance-With Direct3D and OpenGL ICD support.
- Experience Quake 2 running at 70 frames per second!
- TV Out Option- Display games, presentations & DVD movies on your big screen TV.
- 16Mb of SDRAM and a 250Mhz RAMDAC- support resolutions up to 1900 x 1200 in True Colour.
- PCI & AGP 2X (with Side Band Addressing) available.

16 Mb AGP TV-OUT **£105** (£123.37)  
16 Mb PCI TV-OUT **£105** (£123.37)



**Stealth II G460**

- Powered by Intel i740
- True AGP 2x support including Side Band Addressing (SBA)
- MPEG-2 for full screen DVD playback
- Photo-realistic, true colour up to 1280 x 1024
- Direct Memory Execution (DIME) - For a high performance level and unlimited texture size
- The breakthrough 3D architecture of the Stealth II G460 enables maximum memory bandwidth for sustained 3D performance and exceptional image quality for AGP systems
- Plug and play

8 Mb **£42** (£49.35)

**Sonic Impact S90**



The complete PCI audio solution with 64-Voice Wavetable

- PC'98 and WHQL compliant
- Accelerates Microsoft DirectSound and DirectSound 3D
- SoundBlaster Pro legacy compatibility
- 64-Voice Wavetable Synthesizer Supporting DLS
- 3D Positional Audio
- CD-Quality Full-Duplex Sound (Simultaneous Playback and Record)
- Plug and play

**£25** (£29.37)

Video Cards - Multimedia Cards



**GRAPHICS CARDS**



**All-in-Wonder Pro**

PC Guide BestBuy March 1998  
PC Guide

The award-winning all-in-one graphics and multimedia upgrade offering everything you need for explosive multimedia on your PC

- Powered by ATI's RAGE PRO technology
- Delivers 3D, 2D and video acceleration
- An intelligent TV tuner featuring DBX™ stereo
- Instant replay and zoom capabilities
- Still and motion video capture and TV set display



<b>OEM AGP</b>	<b>4Mb</b>	<b>£98</b> (£115.15)	<b>8Mb AGP</b>	<b>£113</b> (£132.77)
<b>OEM PCI</b>	<b>4Mb</b>	<b>£94</b> (£110.45)	<b>8Mb PCI</b>	<b>£109</b> (£128.07)
<b>Retail PCI</b>	<b>4Mb</b>	<b>£105</b> (£123.37)	<b>4Mb AGP</b>	<b>£109</b> (£128.07)

\*8Mb also available



**XPERT 98**

PC Home September 1998  
PC Home

XPERT98 is the best solution for speed, performance and price. With 8Mb of lightning fast SDRAM and an AGP bus you know you can't go wrong.

- Rage Pro Chipset with 8Mb SDRAM and 2x AGP bus
- Maximum resolution of 1600 x 1200 @ 85Hz
- Maximum colours 6.7 million
- 230MHz RAM Doc
- 2D/3D Acceleration
- Software DVD Mpeg2 acceleration
- Optimised for Pentium II/Pro systems
- Multi-screen compatible in Windows 98



**OEM AGP** **8Mb** **£39** (£45.80)  
**Retail AGP 8Mb SDRAM** **£53** (£62.27)



**XPERT@Play**

Personal Computer World 1998 Best Graphics Card

XPERT@Play sets a new standard for 3D gaming, multimedia and entertainment applications. Uses a single card/slot solution to provide industry leading full screen, full motion MPEG-2 video acceleration with motion compensation as well as TV-out for large screen game play.

- Superior 3D quality with bilinear filtering, alpha blending and special effects for intense gaming
- Brute force 3D acceleration with over 1 million triangles per second with set-up engine, texture cache and more
- Great gaming in Windows 95 (Direct3D, DirectDraw) and DOS
- DVD-quality full-screen, full-motion video
- Floating point set up engine, up to 1.2 million triangles per second
- Bonus software including the hottest 3D games: Formula 1, Teracide, and WIRL
- 4Kn on-chip texture cache
- Microsoft certified drivers



<b>OEM AGP</b>	<b>4Mb</b>	<b>£53</b> (£62.27)	<b>8Mb AGP</b>	<b>£69</b> (£81.07)
<b>OEM PCI</b>	<b>4Mb</b>	<b>£49</b> (£57.57)	<b>8Mb PCI</b>	<b>£65</b> (£76.37)
<b>Retail PCI</b>	<b>4Mb SGRAM</b>	<b>£69</b> (£81.07)	<b>8Mb SGRAM</b>	<b>£85</b> (£99.87)



**XPERT@Work**

PC Magazine Editors Choice April 1998  
PC MAGAZINE EDITORS CHOICE

XPERT@Work is the most powerful graphics acceleration for corporate and small business

- Fast 2D, 3D performance, three times that of previous boards and the best video acceleration for the price
- The fastest performance for greater productivity in Windows NT and Windows 95
- Flicker-free images at up to 200Hz refresh rate to eliminate eyestrain
- Rock solid stability and worry-free compatibility with ATI's Microsoft certified drivers
- Optimised for the best performance on Pentium II/PRO systems
- Available in 2MB and 4MB upgradeable or 8MB memory configurations



<b>OEM AGP</b>	<b>4Mb</b>	<b>£43</b> (£50.52)	<b>8Mb AGP</b>	<b>£59</b> (£69.32)
<b>OEM PCI</b>	<b>4Mb</b>	<b>£39</b> (£45.82)	<b>8Mb PCI</b>	<b>£55</b> (£64.62)
<b>Retail PCI</b>	<b>4Mb SGRAM</b>	<b>£59</b> (£69.32)	<b>8Mb SGRAM</b>	<b>£75</b> (£88.12)

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## matrox

### Matrox Millennium G200 Uncompromising 2D, 3D & video performance for business

- High performance 128-bit DualBus graphics card with full AGP 2x support
- Advanced 2D, 3D and software DVD video acceleration
- New MGA-G200 graphics chip
- 8 MB of high speed memory upgradeable to 16 MB
- High speed 250 MHz RAMDAC
- Full 3D setup and rendering engine
- Fully multimedia upgradeable

**NEW**

PCI £65 (£76.37) AGP £79 (£92.82)

### Matrox Productiva G100 Acceleration for demanding business graphics

- 64-bit AGP-ATX graphics card
- 8 MB of powerful graphics memory
- High performance 2D business productivity
- 1600 x 1200 desktop in true colour for spreadsheets and large documents
- 3D acceleration with excellent API support
- High speed 230 Mhz RAMDAC for flicker-free displayed editing capabilities

£48 (£56.40)

### Matrox Mystique G200 The fastest acceleration for 2D/3D entertainment

- Powerful graphics card with full AGP 2X support
- Advanced 2D, 3D and software DVD acceleration with PC to TV displays
- High quality 3D rendering engine for advanced 3D gaming
- New MGA-G200 128-bit DualBus graphics chip
- 8 MB of memory upgradeable to 16 MB
- Includes Motorhead, Incoming, Tonic Trouble and 3D game demos
- Fully multimedia upgradeable

£79 (£92.82)

### Matrox Marvel G200 14-in-one graphics solution for 2D, 3D and video

- High performance 128-bit DualBus video card with full AGP 2x support.
- High quality MJPEG video editing hardware and easy-to-use video editing software.
- Advanced 2D, 3D and software DVD video acceleration.
- Features new MGA-G200 graphics chip and 8 MB of high speed memory
- Video conferencing and image editing

PCI £130 (£152.75) AGP £135 (£158.62)

## SonicStorm PRO **NEW**

Second Generation PCI Sound Card

- HiFi quality sound
- True HRTF 3D positional audio for total immersion
- S/P-DIF output for digital recording direct to DAT or MiniDisc
- Supports DirectSound, DirectSound 3D & SoundBlaster DOS games
- Plays 64 simultaneous h/w accelerated audio streams & midi voices
- Very low CPU usage - means faster gameplay
- Includes JetAudio (complete PC audio control centre) plus Yamaha SoftSynth for high quality Midi
- PC98 compliant



£35 (£41.12 inc VAT)

## DVD Player **NEW**

Second Generation DVD MPEG2 decoder card for PC

- Stunning digital quality video image
- Works with any graphics card using analog loop-through connector
- TV output to watch movies or games on large-screen TV
- Comprehensive easy to use control centre
- High quality stereo output for sound card connection
- Supports AC-3 5.1 (Dolby Digital) via S/P-DIF for connection to home theatre decoder
- Multiple camera angle and video format support (4:3 & 16:9 widescreen)
- Low min spec - P133, 16MB RAM, DVD-ROM drive



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## SIROCCO **NEW**

Studio quality speaker system for the PC

- Delivers true high-end HiFi performance to the PC
- Designed using professional audio techniques
- Achieves 100W true RMS (delivers over 1000W PMP0)
- Two satellite speakers, with bass/midrange & separate tweeter, a sub-woofer & active filter/power amps
- Three way fully active design (tweeter, mid-range and sub)
- Complete reproduction of audio frequency range & ultra low distortion
- For use with PC, game consoles, CD, MiniDisc, TVs or DVD Players



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## Videologic

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## MAXI GAMER PHOENIX

Re-incarnate your PC with the award-winning power of Phoenix!

- The hottest 2D/3D graphics card based on the new Voodoo Banshee chipset from 3Dfx
- Delivers ferocious Voodoo2 - based 3D acceleration for over 250 3Dfx-compatible games
- World-beating 128-bit acceleration for awesome performance in ALL your 2D applications
- A massive 16Mb of super-fast SGRAM (significantly faster than SDRAM)
- Available in AGP or PCI bus versions
- Compatible with Windows 95, 98 and NT 4.0
- Bundled with 3 great games Tonic Trouble™ (Special Edition), Half-Life™ (Demo version) and FI™

£79 (£92.82 inc VAT)

## CREATIVE

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### 3D Blaster™ Voodoo2

Break the speed limit! We dare you!

With its three processors running in parallel, 3DBlaster Voodoo2 delivers an awesome fill rate which leaves others standing. For performance, image quality and 3D gameplay, it's the fastest card on the planet.



12Mb £72 (£84.60)

### Graphics Blaster™ Riva TNT

Powered by nVidia's RIVA TNT chipset

- Advanced AGP 2X, delivers world-class 3D/2D acceleration
- Ultra-wide, high speed 128 bit memory architecture and Twin-Textel 3D pipeline
- Loaded with 16mb of Synchronous Memory and a powerful 250MHz DAC for resolutions up to 1920X1200 and refresh rates up to 240Hz
- Includes - Colorific and Scaia MM200 presentation software - Forsaken & Incoming, 2 hot gaming titles



£89 (£104.57)

### 3D Blaster Banshee PCI

2D/3D graphics solution based on the 3DFX Interactive, Voodoo Banshee chipset

- 16mb of high performance SDRAM
- 250MHz DAC
- Full 128 bit graphics engine
- includes 3 Deep, Colorific and Incoming. Enjoy the best graphics at an amazing price - You CANNOT beat this board for price/performance



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Power 3D™ is based on the 3Dfx Interactive inc® renowned second generation chipset - Voodoo™. The dramatic increase in the performance of Voodoo™ extends the Voodoo architecture's leadership in high performance 3D entertainment. POWER 3D™ provides full-screen, high resolution, full motion frame rate with all features making this dedicated 3D accelerator the choice product for gaming enthusiasts.



The Power to Perform

- Voodoo™ graphics engine on board
- Win '98®, Glide™, OpenGL® 1.1, DirectX®/Direct 3D Compatible
- Support for largest choice of games
- Easy installation and setup
- Optimised design
- 8MB or 12MB ultra-fast DRAM

**12MB £89**  
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Power 3D Voodoo 1 £39 (€45.82)

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With the aid of the WinTV plug and play cards you can watch the football or any TV programmes you choose on your PC. WinTV keeps you in touch with up to the minute worldwide information, using Teletext/Fasttext, which can be displayed in a multiple of windows simultaneously and can be added to spreadsheets and more. Win TV will also enable video editing, and help you make impressive company presentations.



**WinTV Primio PCI card**

The Primio PCI Card gives you TV and teletext on your PC's monitor. It will also display video from your VCR, camcorder etc. With its high quality video digitiser, live video is digitised and displayed in a resizable window on the PC screen. **£50 (€58.75)**



**WinTV PCI NICAM**

The best selling TV card on the market today! Includes the features of the PRIMIO but with 2 channel/NICAM Stereo and the additional S-Video Input. PCI is also fully upgradeable with the optional CCD camera. **£67 (€78.72)**



**WinTV Stereo Radio**

This card includes the features of the PRIMIO & PCI, with additional FM STEREO Radio Tuner and Wide Spread Information and Entertainment media. This includes channel search, scanning, fine tuning channel memory and more. **£84 (€98.70)**

**Win TV CCD bundle**

This product combines all the functions of the Primio together with a high quality colour CCD camera. This gives WinTV a totally new dimension: VIDEO COMMUNICATION! As an analogue modem or ISDN card and a full duplex sound card are standard facilities on most PCs nowadays, the inclusion of WinTV CCD Cam on any TCP/IP based network gives you the total versatility of video conferencing, for any application. You can even use the WinTV CCD Cam for security. **£149 (€175.07)**



Prices shown in brackets are inclusive of VAT

Monitors - Video Cards - Multimedia Cards

ATI	Memory/Type	Chipset	RAMDAC	Ex VAT		Inc VAT	
				PCI	AGP	PCI	AGP
3Dxpert@Work OEM	4mb SGRAM	Rage Pro	230Mhz	36	42.30	40	47.00
3Dxpert@Work DEM	8mb SGRAM	Rage Pro	230Mhz	49	57.57	53	62.27
3Dxpert@Play OEM	4mb SGRAM	Rage Pro	230Mhz	42	49.35	46	54.05
3Dxpert@Play DEM	8mb SGRAM	Rage Pro	230Mhz	57	66.97	61	71.67
All In Wonder Pro OEM	4mb SGRAM	Rage Pro	230Mhz	85	99.87	89	104.57
All In Wonder Pro OEM	8mb SGRAM	Rage Pro	230Mhz	99	116.32	103	121.02
XPRT98 AGP OEM	BMBSDRAM	Rage Pro	250mMhz	-	-	37	43.47
3Dxpert@Work	4mb SGRAM	Rage Pro	230Mhz	54	63.45	65	76.37
3Dxpert@Work	8mb SGRAM	Rage Pro	230Mhz	68	79.90	72	84.60
All In Wonder Pro	4mb SGRAM	Rage Pro	230Mhz	95	111.62	99	116.32
All In Wonder Pro	8mb SGRAM	Rage Pro	230Mhz	109	128.07	113	132.77
<b>CREATIVE LABS</b>							
Graphics Blaster Extreme	SGRAM	3D Labs Peramedia 2	230Mhz	59	69.32	-	-
3D Blaster Voodoo II	12MB EDD	3DFX Voodoo 2	-	72	84.60	-	-
3D Blaster Banshee	16MB SDRAM	3DFX Banshee	250Mhz	69	81.07	-	-
Graphics Blaster RIVA TNT	16MB SGRAM	Riva TNT	250Mhz	-	-	72	84.60
<b>DABS</b>							
S3 Trio64V + 765	2MB EDD	S3 Trio 64V+	135Mhz	23	27.02	-	-
S3 Virge DX	4MB EDO	S3 Virge DX	170Mhz	39	45.82	-	-
S3 Virge DX2	4MB	S3 Virge GX - 2	-	-	-	39	45.82
Cirrus Logic 5465	4MB	CL 5465	-	-	-	39	45.82
3Dfx	4MB EDO	3Dfx Voodoo 3D	-	79	92.82	-	-
<b>DIAMOND</b>							
SpeedStar Home	8MB	SIS 6326	200Mhz	-	-	32	37.60
Stealth G460	8MB SDRAM	Intel 740	203Mhz	41	48.17	-	-
Viper V550 TV Out	16MB	Riva TNT	250Mhz	105	123.37	105	123.37
Monster 3D II	8MB EDO	3DFX Voodoo 2	130Mhz	90	105.75	-	-
Monster 3D II	12MB EDO	3DFX Voodoo 2	130Mhz	120	141.00	-	-
Monster Fusion	16MB EDO	3DFX Voodoo Banshee	250Mhz	74	86.95	75	88.12
Fire GL 1000 Pro	8MB SGRAM	3D Labs Peramedia 2	250Mhz	70	82.25	86	101.05
Fire GL 4000	15 x 16MB SGRAM	3D Pro / 2mp	230Mhz	1025	1204.37	-	-
<b>LEAF</b>							
S3 Trio64V + 765	2MB EDO	S3 Trio 64V+	135Mhz	13	15.27	-	-
S3 VIRGE DX64	4MB EDO	S3 VIRGE DX64	-	18	21.15	-	-
3D AGP	-	-	-	-	-	15	17.62
AGP	8MB	Intel 740i	-	-	-	28	32.90
Voodoo 2	12MB	3DFX Voodoo 2	-	69	81.02	-	-
<b>MATROX</b>							
Productiva G100	8MB SDRAM	G100	230Mhz	-	-	48	56.40
Productiva G100 OEM	8MB SDRAM	G100	230Mhz	-	-	40	47.00
Millenium G200	8MB SGRAM	G200	250Mhz	65	76.37	79	92.82
Millenium G200 OEM	8MB SGRAM	G200	250Mhz	-	-	66	77.55
Mystique G200 OEM	8MB	G200	230Mhz	-	-	73	85.77

**VIDEO CARDS**

MATROX continued	Memory/Type	Chipset	RAMDAC	Ex VAT		Inc VAT	
				VAT	Ex VAT	VAT	Inc VAT
Mystique G200	8MB	G200	230Mhz	-	-	79	92.82
Marvel G200	BMB	G200	-	130	152.75	135	158.62
<b>TECHWORKS</b>							
Power 3DII	12MB SGRAM	3DFX Voodoo 2	-	79	92.82	-	-
<b>VIDEOLOGIC</b>							
Grafixstar 410	2MB EDD	S3 Trio 64V2	135Mhz	25	29.37	-	-
Grafixstar 560 Pro	4MB EDO	Cirrus Logic Laguna	-	32	37.60	-	-
Grafixstar 600 Pro	2MB MDRAM	Tseng Labs ET6000	135Mhz	48	56.40	34	39.95
Apocalypse 3Dx Value Pack	4MB SDRAM	NEC Power VR2	-	50	58.75	-	-
Apocalypse 3Dx	4MB SDRAM	NEC Power VR2	-	54	63.45	-	-
Apocalypse 50	6MB	ET6100 + Power VR2	-	77	90.47	-	-
Apocalypse 5D	8MB	ET6100 + Power VR2	-	57	66.97	-	-
Apocalypse 5D Sonic	6MB	ET6100 + Power VR2 +Sound	-	81	95.17	-	-
Apocalypse 5D Sonic	8MB	ET6100 + Power VR2 +Sound	-	-	-	-	-

**MULTIMEDIA CARDS**

ATI	Ex VAT	Inc VAT
<b>CREATIVE</b>		
Video Blaster RT300	195	229.12
<b>DABS</b>		
TV/Tuner Teletext PCI	49	57.57
<b>HAUPPAUGE</b>		
Win TV Primio PCI	50	58.75
Win TV PCI Nicam	65	76.37
Win TV Radio PCI Nicam	75	88.12
Win TV Cinema Pro	199	233.82
Video Wizard	115	135.12
<b>MIRO</b>		
miroMedia PCTV PCI	47	55.22
Video Director Studio 400	160	188.00
miroVideo DC10	179	210.32
miroVideo DC30	385	452.37
miroVideo DV300	499	586.32
miroVideo DC30 Plus	599	703.82
<b>SIGMA</b>		
Hollywood Plus	110	129.25
<b>VIDEOLOGIC</b>		
Captivator PCI	48	56.40
Captivator PCI/VC	145	170.37
Captivator PCI/VC camera u/garde	100	117.50
DVD Player	89	104.57

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When it comes to monitors, our commitment is second to none. Our new manufacturing plant in Wales is the largest in Europe and is dedicated to making monitors and tubes. LG monitors are packed with high-end features such as TCO '95 emissions compliance and the 'Genesis chip' in the 500LC, which allows viewing of SVGA/VGA graphics modes as well as XGA at full screen size.

Then there's the Flatron with its 99.9% flat screen for almost zero distortion, brilliant for viewing graphics intensive designs where accuracy really counts.

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Our handheld PC really is 'Totally portable computing'. We are one of only a few exclusive manufacturers authorised to use WINDOWS CE. In addition it is the only HPC that can run POWERPOINT presentations without any additional software or hardware.

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### MONITORS



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- 15.1" (15.1" viewable) screen
- Brilliant active matrix TFT display
- Genesis chip allows full SVGA/VGA
- Wide viewing angle, 60° left and right
- Bright 200cd/m<sup>2</sup> display
- Multi-sync support up to 1024x768 @ 75Hz

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#### SW77T5

- 17" (15.8" viewable) screen
- Ultra contrast tube ensures greater levels of contrast and colour purity
- Flicker-free up to 1024x768 NI (non-interlaced) @ 85Hz
- 0.28mm Dot Pitch
- Digital controls with on-screen display
- Made in the UK

£180 (INC VAT)



#### SW216SC

- 21" (20" viewable) screen
- 30-95KHz EST
- Flicker-free 1600x1200 NI (non-interlaced) @ 75Hz
- Digital controls with on-screen display
- 0.28mm Dot Pitch with Double Focus Circuitry

£210 (INC VAT)



#### SW77M

- 17" (15.7" viewable) screen
- Integrated stereo amplifier with DOME stereo speakers
- Built in mic plus earphone jack
- Flicker-free up to 1024x768 NI (non-interlaced) @ 85Hz
- 0.28mm Dot Pitch

£228 (INC VAT)



#### SW795SC

- 17" (16" viewable) screen
- 100KHz ultra high resolution screen
- 0.26mm Dot Pitch
- Maximum flicker-free resolution of 1600x1200 @ 80Hz
- Digital controls with on-screen display
- TCO '95 approved
- Made in the UK

£275 (INC VAT)



#### SW57i

- 15" (13.8" viewable) screen
- Multi-sync support from 640x480 up to 1280x1024 NI
- Flicker-free up to 1024x768 NI (non-interlaced) @ 85Hz
- 0.28mm Dot Pitch
- Digital controls with on-screen display
- Made in the UK

£185 (INC VAT)

All monitors come with a 3 year on-site, swap-out warranty.

\*TCO '95 on all monitors except SW57i.

### HANDHELD PC



#### PHENOM H-120S HANDHELD PC

- Windows CE 2.0 operating system inc. Pocket Word, Excel, PowerPoint Viewer, Explorer & Schedule
- Extra wide LCD screen & large keyboard
- In built VGA for full colour PowerPoint presentations
- 8MB RAM & 16MB ROM inc. Pre-loaded software
- Type II PCMCIA & compact flash expansion slots

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#### CRN-8240E 24X MAX EXTERNAL CD-ROM Drive

- Operates through PCMCIA attached
- E-IDE/ATAPI Interface
- Fast 130ms Average Access Time
- Max 1,950Kbytes/sec Sustained Transfer rate
- MPC III Compliant

£119 (£139.82 INC VAT)



#### DRD-820B Double Speed DVD-ROM Drive

- Plays all DVD-ROM Discs including MPEG2 discs with MPEG2 decoder card
- Single & dual Layer Support in DVD Mode
- Backwardly Compatible with CD-ROM, CD-R & CD-RW
- 2x Speed DVD-ROM Data Transfer (2.7MB/sec)
- 24x Speed CD-ROM Data Transfer (3.6MB/sec Max)

£75 (£88.12 INC VAT)



#### CRD-8320B 32X MAX CD-ROM Drive

- Magnetised ball balance mechanism
- E-IDE/ATAPI Interface
- 4800KB/sec Max Data Transfer Rate
- CD-RW & CD-R compatible
- 80ms Access Time
- MPC III Compliant

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### MicroScan G Range

Designed for more demanding graphics professional. The MicroScan G range couples excellent graphics performance with superb functionality. MicroScan G Range comes with 3yr on site swap out warranty.

<b>MicroScan 5G</b> • 17" FST, 0.26mm • 1600 x 1200 @75Hz • TCO'95 approval <b>£255 (€299.62)</b>	<b>MicroScan 5GT</b> • 17" Sony Trinitron CRT, 0.25mm • 1600 x 1200 @ 75Hz • TCO'95 approval <b>£279 (€327.82)</b>	<b>MicroScan 6G</b> • 21" FST, 0.28mm • 1600 x 1200 @75Hz • TCO'95 approval <b>£549 (€645.07)</b>
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### MicroScan P Range

This range, targeted at the high intensity professional user, covers from 15" through to 19". All models feature a more advanced OSD for image adjustment. MicroScan P Range comes with 3yr on site swap out warranty.

<b>MicroScan 4P</b> • 15" FST, 0.28mm • 1280 x 1024 @60Hz • Integral Mic., Speaker option <b>£119 (€139.82)</b>	<b>MicroScan 5P+</b> • 17" FST, 0.26mm • 1280 x 1024 @60Hz • Integral Mic., Speaker option • MPR II approval <b>£189 (€222.07)</b>	<b>MicroScan 6P</b> • 19" FST, 0.26mm • 1600 x 1200 @75Hz • TCO'95 approval • Integral Mic. and USB Hub, Speaker option <b>£369 (€433.57)</b>
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### Provista Range

Aimed at the entry level of the market the ProVista range provide excellent performance at very aggressive pricing - the ideal monitor for the Small Office/Home Office. Provista Range comes with 3yr warranty, 2yrs on site, 1yr RTB.

<b>ProVista E33</b> • 14" conv. 0.28mm • 1024 x 768 @ 60Hz • Digital Image Controls <b>£95 (€111.62)</b>	<b>ProVista E44</b> • 15" FST, 0.28mm • 1280 X 1024 @60Hz • Digital Image Controls <b>£105 (€123.37)</b>
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*Prices in brackets are inclusive of VAT*

ADI MicroScan Display Excellence

## Belnea

 <p><b>Belnea 10 40 10</b>                  • 14" 0.28mm                  • up to 1024 x 768 NI                  • 640 x 480 @ 85Hz                  • Digital Front Panel                  • MPRII Compliant  <b>£89 (€104.57)</b></p>	 <p><b>Belnea 10 50 35</b>                  • 15" FST 0.28mm                  • up to 1280 x 1024 NI                  • 800 x 600 @ 85Hz                  • Digital Electronics                  • MPRII Compliant  <b>£99 (€116.32)</b></p>	 <p><b>Belnea 10 70 20</b>                  • 17" FST 0.28mm                  • up to 1280 x 1024 NI                  • 1024 x 768 @ 85Hz                  • On-Screen Display                  • TCO 95  <b>£169 (€198.57)</b></p>
 <p><b>Belnea 10 70 50</b>                  • 17" FST 0.25mm                  • DiamondTron CRT                  • up to 1600 x 1200 NI                  • 1024 x 768 @ 100Hz                  • On-Screen Display                  • TCO 95  <b>£259 (€304.32)</b></p>	 <p><b>Belnea 10 50 20</b>                  • 19" FST 0.26mm                  • up to 1600 x 1200 NI                  • 1280 x 1024 @ 88Hz                  • Professional On-Screen Display                  • TCO 95  <b>£299 (€351.32)</b></p>	 <p><b>Belnea 10 80 50</b>                  • 21" FST 0.26mm                  • up to 1600 x 1200 NI                  • 1600 x 1200 @ 75Hz                  • On-Screen Display                  • TCO 95  <b>£539 (€633.32)</b></p>

All monitors include 3 years on-site exchange warranty (except for model 104010 which includes 3 years warranty with first year on site exchange)

*Prices shown in brackets are inclusive of VAT*

 <p><b>CTX 1555E/VL510</b> <b>£99</b> (£116.32 inc VAT)</p> <p>CRT Size/Viewable <b>15"/13.8"</b>                  Dot Pitch (mm) <b>0.28mm</b>                  CRT Type <b>FST</b>                  Max. Resolution <b>1024 x 768 @ 70Hz</b>                  Rec. Resolution <b>800 x 600 @ 90Hz</b>                  Special Features <b>CE, MPRII</b></p>
 <p><b>CTX 1769SE/VL700</b> <b>£189</b> (£222.07 inc VAT)</p> <p>CRT Size/Viewable <b>17"/15.7"</b>                  Dot Pitch (mm) <b>0.28mm</b>                  CRT Type <b>FST</b>                  Max. Resolution <b>1280 x 1024 @ 65Hz</b>                  Rec. Resolution <b>1024 x 768 @ 90Hz</b>                  Special Features <b>CE, MPRII</b></p>
 <p><b>CTX 1792UA/PR710T</b> <b>£309</b> (£363.07 inc VAT)</p> <p>CRT Size/Viewable <b>17"/16"</b>                  Dot Pitch (mm) <b>0.25mm</b>                  CRT Type <b>Trinitron®</b>                  Max. Resolution <b>1600 x 1200 @ 75Hz</b>                  Rec. Resolution <b>1280 x 1024 @ 85Hz</b>                  Special Features <b>MPRII, CE, TCO 95</b></p>
 <p><b>CTX 1995UE/VL950T</b> <b>£359</b> (£421.82 inc VAT)</p> <p>CRT Size/Viewable <b>19"/18"</b>                  Dot Pitch (mm) <b>0.26mm</b>                  CRT Type <b>High Contrast FST</b>                  Max. Resolution <b>1600 x 1200 @ 75Hz</b>                  Rec. Resolution <b>1280 x 1024 @ 90Hz</b>                  Special Features <b>MPRII, CE, TCO 95</b></p>

**CTX Executive Exchange Service** A 3 year on site warranty for all CTX CRT monitors.

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LCD PANELS										
	Display Size	Type	Max Resolution	Colours	Viewing Angle H/V degrees	Audio	Standard	ex VAT	inc VAT	
<b>ADI</b>										
Microscan 5TN	14.1	TFT/AM	1024 X 768	24bit (16.7m)	160/160	Y	TCO95	625	734.37	
Microscan 6TN	15.0	TFT/AM	1024 X 768	24bit	120/110	Y	TCO95	695	816.62	
<b>BELNEA</b>										
10 15 10	15.0	TFT/AM	1024 X 768	24bit			TCO 95	699	821.32	
<b>CTX</b>										
PV540	10.4	TFT	640 X 480	18bit (262144)	45/20		MPRII	499	586.32	
PV745	14.5	TFT	1024 X 768	24bit (16.7m)	60/50	Y	TCO 92	599	703.82	
<b>HITACHI</b>										
DT 3131	13.3	TFT	1024 X 768	24bit (16.19m)	140/140		TCO 95	899	1056.32	
DT 3140ET	14.1	STFT	1024 X 768	24bit (16.19m)	160/160		TCO 95	959	1173.82	
<b>IJYAMA PRO LITE</b>										
TXA-3601GT	14.1	TFT	1024 x 768	32bit (16.7m)	50/45		TCO 95	575	675.62	
TXA-3602 GT	14.1	TFT	1024 X 768	32bit (16.7m)	160/160		TCO 95	765	898.87	
TXA 3811HT	15.0	TFT	1024 X 768	32bit (16.7m)	55/45		TCO 95	765	898.87	
TXA-3821HT	15.0	TFT	1024 X 768	32bit (16.7m)	55/45	Y	TCO 95	795	934.12	
<b>LG</b>										
500 LC	15.1	TFT/A	1024 X 768	24bit (16.7m)	120/120		TCO95	645	757.87	
<b>MITSUBISHI</b>										
LXA 520W	15.0	TFT/AM	1024 X 768	"6bit(260,000)"	140/120		TCO95	846	994.05	
LXA 420W	14.0	TFT/AM	1024 X 768	"6bit(260,000)"	140/110		TCO95	706	829.55	
<b>NEC</b>										
LCD 1510M	15.0	TFT/AM	1024 X 768	262144	120/60	Y	TCO92	500	587.50	
LCD 1510V	15.0	TFT/AM	1024 X 768	Unlimited	120/60		TCO92	870	1022.25	
LCD 2010	20.1	TFT/AM	1280 X 1024	Unlimited	160/160		TCO95	4300	5052.50	
<b>NOKIA</b>										
500XA	15.1	STFT	1024 X 768	24bit (16.7m)	160/160	Y	TCO95	925	1086.87	
<b>SAMSUNG</b>										
SM320 TFT	13.3	TFT/A	1024 x 768	8bit (16.7m)	120/80	Y	TCO 95	599	703.82	
SM520 TFT	15.0	TFT/A	1024 x 768	8bit (16.7m)	120/80	Y	TCO 95	729	856.57	
<b>SONY</b>										
CPD - L150	15.1	TFT/A	1024 X 768	16.19m	140/120		TCO95	1195	1404.12	
<b>TAXAN</b>										
Crystalvision 620	12.1	TFT	800 X 600	18bit (262144)	90/60	Y	MPRII	585	687.37	
Crystalvision 640	14.1	TFT	1024 X 768	24bit (16.7m)	100/60	Y	TCO 95	645	757.87	
Crystalvision 670	15.1	TFT	1024 X 768	24bit (16.7m)	160/120	Y	TCO 95	949	1115.07	
<b>VIEWSONIC</b>										
VP138	13.8	TFT	1024 X 768	24bit (16.7m)	90/85		TCO 92	595	699.12	
VPA145	14.5	TFT	1024 X 768	24bit (16.7m)	100/80	Y	TCO 95	699	821.32	
VPA150	15.0	TFT	1024 X 768	24bit (16.7m)	140/95	Y	TCO 95	845	992.87	

TFT/A = TFT Analogue TFT/AM = TFT Active Matrix

Monitors





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## MONITORS

ADI	Tube Size	VA DP(mm)	Max Res	H(Hz)	V(KHz)	Rec Res	S	Safety	Exc	Inc VAT
ProVista E33	14" CRT	13.3 0.28	1024 x 768	30-54	50-100	800 x 600 85Hz		MPR II	89	104.57
ProVista E44	15" FST	13.8 0.28	1280 x 1024	30-69	50-100	1024 x 768 85Hz		MPR II	105	123.37
MicroScan 4P	15" FST	13.8 0.28	1280 x 1024	30-69	50-120	1024 x 768 85Hz		MPR II	119	139.82
MicroScan 5P+	17" FST	16 0.26	1280 x 1024	30-69	50-120	1024 x 768 85Hz		MPR II	189	222.07
MicroScan 5G	17" FST	16 0.26	1600 x 1200	30-95	50-160	1280 x 1024 85Hz		TC095	255	299.62
MicroScan 5GT	17" TT	16 0.25	1600 x 1200	30-95	50-160	1280 x 1024 85Hz		TC095	279	327.82
MicroScan 6P	19" FST	18 0.26	1600 x 1200	30-95	50-160	1600 x 1200 75Hz		TC095	369	433.57
MicroScan 6G	21" FST	20 0.28	1600 x 1200	30-95	50-160	1600 x 1200 75Hz		TC095	549	645.07
<b>BELINEA</b>										
10 40 10	14" CRT	13.2 0.28	1024 x 768	30-54	50-120	640 x 480 85Hz		MPR II	89	104.57
10 50 35	15" FST	13.6 0.28	1280 x 1024	30-69	50-120	800 x 600 100Hz		MPR II	99	116.32
10 50 46	15" FST	13.7 0.28	1280 x 1024	30-70	50-120	800 x 600 100Hz		TC095	115	135.12
10 50 80	15" FST	13.8 0.27	1280 x 1024	30-70	50-120	800 x 600 100Hz	Y	TC095	129	151.57
10 70 20	17" FST	15.6 0.28	1280 x 1024	30-70	50-120	1024 x 768 85Hz		TC095	165	193.87
10 70 25	17" SFST	16 0.27	1280 x 1024	30-70	50-180	1024 x 768 85Hz		TC095	195	229.12
10 70 35	17" FST	16 0.27	1600 x 1200	30-95	50-180	1024 x 768 100Hz		TC095	235	276.12
10 70 40	17" FST	15.6 0.26	1600 x 1200	30-85	50-120	1024 x 768 100Hz		TC095	189	222.07
10 70 50	17" DT	15.9 0.25	1600 x 1200	30-95	50-160	1024 x 768 100Hz		TC095	259	304.32
10 70 60	17" FST	16 0.27	1280 x 1024	30-70	50-120	1024 x 768 85Hz	Y	TC095	199	233.82
10 70 65	17" FST	16 0.26	1600 x 1200	30-95	50-160	1024 x 768 100Hz	Y	TC095	245	287.87
10 60 20	19" FST	17.8 0.26	1600 x 1200	30-95	50-160	1280 x 1024 85Hz		TC095	329	386.57
10 60 50	21" FST	20 0.25	1600 x 1200	30-115	50-160	1600 x 1200 85Hz		TC095	539	633.32
<b>CTX</b>										
1451E	14" CRT	13.2 0.28	1024 x 768	30-50	50-120	800 x 600 75Hz		MPR II	85	99.87
1555E	15" FST	13.8 0.28	1280 x 1024	30-55	50-110	800 x 600 85Hz		MPR II	99	116.32
1569SE	15" FST	13.8 0.28	1280 x 1024	30-70	50-120	1024 x 768 85Hz		MPR II	105	123.37
1569MS/ME	15" FST	13.8 0.28	1280 x 1024	30-70	50-120	1024 x 768 85Hz	Y	MPR II	149	175.07
1569UA	15" TT	14 0.25	1280 x 1024	30-70	50-120	1024 x 768 85Hz		MPR II	159	186.82
1769SE	17" FST	15.7 0.28	1280 x 1024	30-70	50-120	1024 x 768 85Hz		MPR II	189	222.07
1769MS	17" FST	15.7 0.28	1280 x 1024	30-70	50-160	1024 x 768 85Hz	Y	MPR II	249	292.57
1792UA	15" TT	16 0.25	1600 x 1200	30-92	50-160	1280 x 1024 85 Hz		TC095	309	363.07
1792SE	17" FST	15.7 0.26	1600 x 1200	30-92	50-160	1280 x 1024 85 Hz		TC095	249	292.57
1785xE	17" FST	15.7 0.26	1600 x 1200	30-85	50-120	1024 x 768 85Hz		TC095	215	252.62
VL710ST	17" S/CRT	15.7 0.26	1600 x 1200	30-95	50-160	1600 x 1200 95 Hz		TC095	299	352.82
1995UE	19" CRT	18 0.26	1152 x 870	30-95	50-160	1600 x 1200 85 Hz		TC095	359	421.82
2085xE	20" FST	18.7 0.26	1600 x 1200	30-95	50-120	1280 x 1024 80 Hz		TC092	599	703.82
2185xE	21" FST	20 0.26	1600 x 1200	30-95	50-120	1280 x 1024 85 Hz		TC092	679	797.82
2195xE	21" CRT	20 0.26	1600 x 1200	30-95	50-160	1280 x 1024 85 Hz		TC092	759	891.82
<b>DAEWOO</b>										
431x	14" CRT	13.2 0.28	1024 x 768	30-54	50-120	800 x 600 75Hz		MPR II	75	88.12
518x	15" FST	14 0.28	1280 x 768	30-69	50-120	800 x 600 75Hz		MPR II	89	104.57
518B	15" FST	14 0.28	1280 x 1024	30-69	50-120	1024 x 768 75Hz		MPR II	96	112.80
1509B	15" FST	14 0.28	1280 x 1024	30-69	50-120	1024 x 768 75Hz	Y	MPR II	109	128.07
1707B	17" FST	16.2 0.28	1280 x 1024	30-69	50-120	1024 x 768 85Hz		MPR II	159	186.82
1707B TC095	17" FST	16.2 0.28	1280 x 1024	30-69	50-120	1024 x 768 85Hz		TC095	189	222.07
1705B	17" FST	16.2 0.28	1280 x 1024	30-69	50-120	1024 x 768 85Hz	Y	MPR II	179	210.32
<b>FORMAC</b>										
ProNitron 17/200	17" FST	15.8 0.27	1280 x 1024	30-69	50-90	1152 x 870 70Hz		TC095	159	186.82
ProNitron 17/500	17" TT	16 0.25	1280 x 1024	30-70	50-120	1152 x 870 70Hz		TC095	259	304.32
ProNitron 19/200	19" FST	17.8 0.26	1600 x 1200	30-70	50-120	1600 x 1200 80Hz		TC095	345	405.37
ProNitron 19/500	19" TT	18 0.25	1600 x 1200	30-94	48-160	1600 x 1200 75Hz		TC095	459	539.32
ProNitron 21/700	21" TT	19.8 0.25	1600 x 1280	30-107	48-160	1600 x 1200 85Hz		TC095	689	809.57
ProNitron 24/600	24" TT	21.7 0.27	1920 x 1280	30-69	50-90	1920 x 1080 75Hz		TC095	1159	1361.82
<b>HITACHI</b>										
CM500ET	15" FST	13.7 0.23	1152 x 870	30-69	50-100	1024 x 768 85Hz		TC095	139	163.32
CM500ES	15" FST	13.7 0.23	1152 x 870	30-69	50-100	1024 x 768 85Hz	Y	TC095	149	175.07
CM640ET	17" FST	15.9 0.21	1152 x 870	31-69	47-130	1152 x 870 75Hz		TC095	259	304.32
CM641ET	17" FST	15.9 0.21	1600 x 1200	31-95	50-130	1600 x 1200 85Hz		TC095	329	386.57
CM751ET	19" FST	18 0.21	1280 x 1024	31-94	50-130	1280 x 1024 85Hz		TC095	459	539.32
CM752ET	19" FST	18 0.21	1280 x 1024	31-94	50-130	1280 x 1024 90Hz		TC095	499	586.32
CM811ET	21" FST	20 0.21	1600 x 1200	31-100	50-160	1600 x 1200 75Hz		TC095	659	774.32
CM812ET	21" FST	20 0.21	1800 x 1440	31-115	50-160	1600 x 1200 85Hz		TC095	749	880.07
CM813ET	21" FST	20 0.21	1800 x 1440	31-115	50-160	1600 x 1200 90Hz		TC095	839	985.82
CM814ET	21" FST	20 0.21	1800 x 1440	31-115	50-160	1600 x 1200 100Hz		TC095	939	1103.32
<b>HYAMA</b>										
VM-350	15" FST	13.8 0.28	1280 x 1024	27-69	50-160	800 x 600 100Hz		MPR II	135	158.62
VM-400	17" FST	15.7 0.26	1600 x 1200	27-96	50-160	1600 x 1200 75Hz		TC095	285	334.87
VM-17ES	17" FST	15.7 0.26	1600 x 1200	27-96	50-160	1152 x 864 85Hz	Y	MPR II	349	410.07
VM-Pro400	17" DT	16 0.25	1600 x 1200	27-96	50-160	1152 x 864 85Hz		TC095	315	370.12
VM-450	19" FST	18 0.26	1600 x 1200	27-102	50-160	1280 x 1024 85Hz		TC095	399	468.82
VM-501	21" FST	20 0.27	1600 x 1200	27-96	50-160	1280 x 1024 85Hz		TC095	679	797.82
VM-Pro501	21" DT	20 0.28	1600 x 1200	27-96	50-160	1280 x 1024 85Hz		TC095	679	797.82
VM-502	21" FST	20 0.27	1800 x 1440	27-110	50-160	1600 x 1200 80Hz		TC095	699	821.32
VM-Pro502	21" DT	20 0.28	1800 x 1440	27-110	50-160	1600 x 1200 80Hz		TC095	719	844.82
TS15G 15" Touch	15" FST	13.8 0.28	1280 x 1024	27-69	50-160	800 x 600 100Hz		MPR II	535	628.62
TS17T 17" Touch	17" FST	15.7 0.26	1600 x 1200	27-86	50-160	1024 x 768 75Hz		TC095	685	804.87
TS17T 21" Touch	21" DT	19.5 0.28	1800 x 1440	27-110	50-160	1024 x 768 75Hz		TC095	1185	1392.37
<b>LG</b>										
Studioworks 57i	15" FST	13.8 0.28	1280 x 1024	30-69	50-110	1024 x 768 85Hz		MPR II	105	123.37
Studioworks 57M	15" FST	13.8 0.28	1280 x 1024	30-69	50-110	1024 x 768 80Hz	Y	MPR II	129	151.57
Studioworks 77T5	17" FST	15.8 0.28	1280 x 1024	30-69	50-160	1024 x 768 85Hz		MPR II	180	211.50
Studioworks 77M5	17" FST	15.7 0.28	1280 x 1024	30-69	50-160	1024 x 768 85Hz	Y	MPR II	220	258.50
Studioworks 78T5	17" FST	15.8 0.26	1600 x 1200	30-85	50-120	1280 x 1024 80Hz		TC095	235	276.12
Studioworks 79SSC	17" FST	16 0.26	1600 x 1200	30-100	50-120	1280 x 1024 80Hz		TC095	275	323.12
Studioworks 99T	19" FST	18 0.26	1600 x 1200	30-95	50-160	1600 x 1200 75Hz		TC095	379	445.32
Studioworks 216SC	21" FST	20 0.28	1600 x 1200	30-85	50-120	1280 x 1024 75Hz		MPR II	610	716.75
<b>MITSUBISHI</b>										
DiamondPro 71	17" DT	16 0.25	1280 x 1024	30-69	55-125	1024 x 768 85Hz		TC092	279	327.82
DiamondScan 70	17" FST	16 0.25	1280 x 1024	30-70	50-180	1024 x 768 85Hz		TC095	215	252.62
DiamondPlus 72	17" DT	16 0.25	1280 x 1024	30-86	50-130	1024 x 768 75Hz		TC095	309	363.07
DiamondPro 700	17" DT	16 0.25	1280 x 1024	30-95	50-152	1024 x 768 75Hz		TC095	399	468.82
DiamondScan 90	19" FST	18 0.25	1600 x 1200					TC095	425	499.37
DiamondPro 900	19" DT	18 0.25								

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## HITACHI

All Hitachi Monitors have a 3 year on site replacement warranty, and are TCO'95 compliant



**CM500ET** £139 (£163.32)  
**CM500ES** £149 (£175.07)

15" high specification monitor

- Flicker Free resolutions up to 1152 x 870 @ 75Hz
- 0.23mm horizontal mask pitch
- CM500ES Multimedia Version with speakers & mic



**CM640ET** £259 (£304.32)  
**CM641ET** £329 (£386.57)

Hitachi's range of 17" monitors

- Flicker free at up to 1152 x 870 @ 75Hz (CM640ET)  
1600 x 1200 @ 75Hz (CM641ET)
- 0.21mm horizontal mask pitch



**CM751ET** £459 (£539.32)  
**CM752ET** £499 (£586.32)

Hitachi's range of 19" monitors

- Same depth as conventional 17" display
- 5 lens focusing for unbeatable focus
- Flicker free at up to 1600 x 1200 @ 75Hz (CM751ET)  
1600 x 1280 @ 75Hz (CM752ET)
- Both have 0.21mm horizontal mask pitch

**CM811ET** £659 (£774.32)  
**CM812ET** £749 (£880.00)

Super Space Saving 21" monitors

- 5 lens focusing for unbeatable focus
- 0.21mm horizontal mask pitch
- Flicker free at up to 1600 x 1200 @ 75Hz (CM811ET)  
1600 x 1200 @ 85Hz (CM812ET)

**CM813ET** £839 (£985.82)  
**CM814ET** £939 (£1103.32)

Super Space Saving 21" monitors

- 5 lens focusing for unbeatable focus
- 0.21mm horizontal mask pitch
- Flicker free at up to 1600 x 1200 @ 90Hz (CM813ET)  
1600 x 1200 @ 100Hz (CM814ET)

**DT3140ET** 141" Super TFT £999 (£1173.82)

- Ultra wide viewing angle of 160° horizontal & vertical
- Ultra low power consumption
- 16.19 million colours
- Resolution up to 1024 x 768

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## HITACHI



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  - 1024 x 768 (XGA) display resolution
  - 262,144 unlimited colours
  - No geometric display distortion, misfocus or misconvergence
  - Space saving, lightweight design
  - No radiation, unaffected by external magnetic fields



**VM-400** £285 (£334.87)

- 17" 0.26mm FST
- Up to 1280x1024 NI@90Hz
- On-Screen Display Menu
- All CE ergonomic safety and environmental approvals



**VM-Pro400** £315 (£370.12)

- 17" 0.25mm DiamondTron
- Up to 1600x1200 NI@75Hz
- On-Screen Display Menu
- All CE Ergonomic, safety and environmental approvals



**VM-502** £699 (£821.32)

- 21" 0.27mm Enhanced dp FST
- 1800x1440 @ 75Hz
- On-Screen Display Menu
- All CE Ergonomic, safety and environmental approvals



**VM-350** £139 (£163.32)

- 15" 0.28mm FST
- Up to 1024x768@85Hz
- Digital Control and On-Screen Display Menu
- Microfilter™ Technology



**VM-Pro502** £719 (£844.82)

- 21" 0.28mm AG DiamondTron
- 1800x1440 @ 75Hz
- On-Screen Display Menu
- All CE Ergonomic, safety and environmental approvals



**VM-450** £399 (£468.82)

- 19" 0.26mm FST
- Up to 1280 x 1024 @ 100Hz NI
- On-Screen Display Menu
- All CE Ergonomic, safety and environmental approvals

All iiyama monitors are with a 3yr warranty, 1st yr On-Site, 2nd, 3rd YR or upgrade to our VisionCare warranty, 3 yr On-Site

Prices shown in brackets are inclusive of VAT

## The Nokia Advantage



**447Za**

- 17" High Contrast 0.27mm FST
- Up to 1024 x 768 @ 90Hz
- Built-in 5 watt stereo speakers
- Built-in Bi-directional microphone

£269 (£316.07 inc VAT)



**447XS**

- 17" High Contrast 0.25mm FST
- Up to 1280 x 1024 @ 80Hz
- New Shortneck Technology

£299 (£351.32 inc VAT)



**447Xpro**

- 17" Trinitron 0.25mm CRT
- Up to 1600 x 1200 @ 76Hz
- On-Screen Menu with Navi™ key

£349 (£410.07 inc VAT)



**446XS**

- 19" High Contrast 0.25mm FST
- New Shortneck Technology
- Up to 1600 x 1200 @ 75Hz

£419 (£492.32 inc VAT)



**446XPro**

- 19" High Contrast 0.26mm FST
- Up to 1600 x 1200 @ 85Hz
- On-Screen Menu with Navi™ key

£449 (£527.57 inc VAT)



**445Xi Plus**

- 21" High Contrast 0.28mm FST
- Up to 1600 x 1200 @ 88Hz
- On-Screen Menu with Navi™ key

£679 (£797.82 inc VAT)



[www.nokia.com](http://www.nokia.com)



Monitors





- ✓ Serving you since 1987
- ✓ Over £50m annual turnover
- ✓ Over 200,000 satisfied customers
- ✓ Highly trained specialist staff
- ✓ Repair & upgrade services

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PERSONAL COMPUTER SYSTEMS

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All 0870 calls charged at national rate

## WHY MITSUBISHI?

Mitsubishi offers a 3 year warranty (1st year on-site, 2nd & 3rd year return-to-base).

Buy a DIAMONDTRON monitor made by Mitsubishi for guaranteed 100% pure DIAMONDTRON

The DIAMONDTRON CRT takes Aperture Grille technology to new levels of excellence delivering more accurate, sharper images.



The **Diamond Pro 91TXM** meets the needs of graphics and CAD users who require high resolution, high quality 21" monitors. Featuring Mitsubishi's high quality 0.28mm CRT, the monitor reaches a maximum non-interlaced resolution of 1600 x 1280 at a refresh rate of 75Hz. **£689** (£809.57 inc VAT)



The **Diamond Plus 72** 17" monitor has higher refresh rates with horizontal scanning frequencies of up to 86kHz (1280 x 1024 @ 80Hz) and new DIAMONDTRON™ tube with upgraded focus and convergence performance for sharp, clean images with minimal eye-strain. **£309** (£363.07 inc VAT)



The **Diamond Scan 90** provides the demanding graphics professional, desktop publisher and CAD professional a new level of image clarity and consistency. A high performance 19" (18" viewable) colour display that fits in the space of a conventional 15" monitor **£425** (£499.37 inc VAT)



The **Diamond Scan 50**, 15" (13.8" viewable) colour monitor is designed to provide you with years of reliable trouble-free operation. The Diamond Scan 50 is low on cost but big on quality. This TCO95 certified 15" monitor is the right choice for your professional computing needs

**£129** (£151.57 inc VAT)



The **Diamond Pro 700** is a 17" monitor perfect for the corporate market place as well as CAD users, designers and multimedia experts. Featuring Mitsubishi's DIAMONDTRON™ technology, the monitor reaches a maximum resolution of 1600 x 1200 at a refresh rate of 75Hz.

**£399** (£468.82 inc VAT)

*Turn on your imagination*

**MITSUBISHI ELECTRIC**  
Display Products

# Monitors



## ProNiton Multisync 17/500

17" Trinitron monitor ideal for the professional user who wants quality at a competitive price.

- Low Emission TCO92
- Power Saving Mode
- Enhanced Multiscan
- Plug and play Windows 95
- CRT 0.25mm Super Fine Dot Pitch Trinitron Tube
- 30-85 kHz Horizontal Frequency
- 328mm x 242mm Viewable Area
- 1024 x 768 @ 85Hz Rec. Resolution

**£259**  
(£304.32)

## ProNiton Multisync 19/500

New 19" Sony Trinitron monitor ideal for multimedia and high-end graphics.

- TCO95 for an Ergonomic working environment
- Plug and Play Windows 95
- CRT Super Fine Dot Pitch Trinitron Tube
- 0.25-0.27mm Aperture Grille
- 30-94kHz Horizontal Frequency
- 480mm Diagonal
- 1600 x 1200 @ 75Hz Maximum Resolution

**£459**  
(£539.32)

## ProNiton Multisync 21/700

New 21" Sony Trinitron monitor for the serious professional user.

- TCO95 for an Ergonomic working environment
- Plug and Play Windows 95
- CRT Super Fine Pitch Trinitron Tube
- 0.25-0.27mm Aperture Grille Pitch
- 30-107 kHz Horizontal Frequency
- 404 x 302mm Viewable Area
- 504mm Diagonal
- 1600 x 1280 @ 80 Hz Maximum Resolution

**£689**  
(£809.57)

Prices in brackets are inclusive of VAT

# ViewSonic® Monitors

for Price and Performance



**FREE 3 YEAR 24-HOUR EXPRESS EXCHANGE™ WARRANTY.**

Viewsonic offers a 3 year warranty on the CRT, manufacturing parts and labour of all monitors.

In the unlikely event of a manufacturing or material defect you will receive a similar product in exchange.

Widest range of products in Europe from any single manufacturer



PT813 5/98



GT775 1/98



GT775 12/97

	Viewable Area	Dot Pitch	Maximum Resolution	Price inc VAT
E641	14"/13.8"	0.28	1024 x 768 @ 67Hz	£89 £104.57
E655	15"/13.8"	0.28	1280 x 1024 @ 66Hz	£119 £139.82
GA655	14"/13.8"	0.27	1280 x 1024 @ 65Hz	£185 £217.37
G771	17"/16"	0.27	1280 x 1024 @ 66Hz	£225 £264.37
GS771	17"/16"	0.27	1280 x 1024 @ 66Hz	£249 £292.57
VPA145	14.5"	n/a	XGA @ 75Hz	£795 £934.12

3 Year "Express Exchange" warranty available on all new ViewSonic monitors, excluding ViewSonic's Optique® product range, presentation and LCD ranges. Limited to the UK mainland, the 24 hour service is available in most areas.



**ViewSonic®**  
The Display Technology Company™

General Sales Hotline OPEN 8am - 8pm Mon to Thu . 8am - 5pm Fri . 9am - 3pm Sat . 10am - 3pm Sun

freephone

# 0800 558866

**PRICE MATCHING**

We can usually match competitors prices, please call for details.

Web Site [www.dabs.com](http://www.dabs.com)

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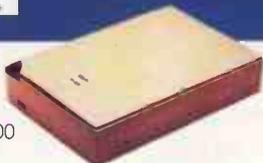
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## EPSON GT-7000 & GT-7000 Photo Flatbed Colour Scanners

# EPSON

GT-7000



GT-7000 £147 (£172.72 inc VAT)

- Affordable, compact colour flatbed scanner
- High quality 600x2400 dpi optical res with EPSON Micro step drive
- Can distinguish 68 billion different colours (36 bit)
- Start button for easy one touch scan
- Film adaptor inc for scanning negs and slides (GT-7000 Photo only)
- Ultra fast scanning - a leader in it's class
- Optional document feeder for added flexibility
- For Windows® 95/98, Windows® NT 3.51 or later & Mac

GT-7000 Photo



GT-7000 Photo £197 (£231.47 inc VAT)

### Software Included

- Adobe Photoshop 4 LE (GT 7000 Photo only)
- Adobe Pagemill 3 for Win & 2 for Mac
- Xerox Textbridge Classic
- Presto! Pagemanager for EPSON
- EPSON Personal Copy 2 inc ColorWiz
- EPSON Scan! II 32
- EPSON TWAIN 3
- EPSON Photosheet

### EPSON PhotoPC 700

Megapixel Auto Focus Digital Camera

only £361 (£424.17 inc VAT)

- Megapixel (1280 x 960) Auto Focus Digital Camera
- Ease of use with OLE2 and TWAIN support
- Large, high quality, built-in 2" LCD colour view finder
- PAL TV & Video output for excellent large screen viewing
- Extensive range of software included
- Up to 10 exposure continuous-shot mode
- Both Windows and Macintosh compatible as standard
- Direct Printing to the Epson Stylus Photo range and Stylus COLOR 600, 800 and 850
- 4MB internal memory and external CompactFlash card (option 4MB, 15MB) for flexible image storage
- Panoramic, Macro and Black & White image capture modes
- Amazing close-up 10cm macro facility



PhotoPC 700



PhotoPC 600

### EPSON PhotoPC 600

XGA Colour digital camera

only £303 (£356.02 inc VAT)



### EPSON GTx-9500 Colour (4800 dpi/36 bit per pixel) Flatbed Scanner

from £446 (£524.05 inc VAT)



### EPSON FilmScan 200 35mm Film Scanner

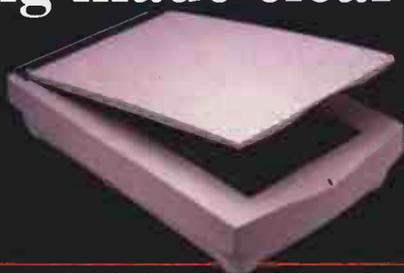
£250 (£293.75 inc VAT)



### EPSON GT-5500

Flatbed colour image scanner £125 (£146.87 inc VAT)

# Imaging made clear with **UMAX** Scanners



### Astra 610P

FROM £59 (£69.32)

- 30 bit colour scanning
- 300 x 600dpi optical resolution
- 4800 x 4800dpi maximum resolution
- Single Pass, colour CCD
- Bundled software: *PhotoDeluxe*, *Presto! PageManager*, *UMAX Copy Utility*, *VistaScan* and *OmniPage Direct*
- EPP/SPP Parallel Port

### Astra 1220P

FROM £109 (£128.07)

- 30 bit colour scanning
- 600 x 1200 dpi
- Maximum resolution: 9600 x 9600 dpi
- Bundled software: *PhotoDeluxe* and *PageManager*
- EPP/SPP Parallel Port

### Astra 1220S (SCSI)

FROM £219 (£257.32)

- 30 bit colour scanning
- 600 x 1200 dpi
- Maximum resolution: 9600 x 9600 dpi
- Bundled software: *PhotoDeluxe* and *PageManager*

Model	Standard	LE	Full	Pro
Astra 610 Parallel	£59 (£69.32)	£89 (£104.57)	£169 (£198.57)	-
Astra 610 SCSI	£89 (£104.57)	£119 (£139.82)	£199 (£233.82)	-
Astra 1210 Parallel	£79 (£92.82)	£109 (£128.07)	£189 (£222.07)	-
Astra 1220 SCSI	£179 (£210.32)	£249 (£292.57)	£329 (£386.57)	£538 (£632.15)
Astra 1220 Parallel	£109 (£128.07)	£139 (£163.32)	£219 (£257.32)	-
Powerlook ColourStudio II	-	£749 (£880.07)	£899 (£1056.32)	£959 (£1126.82)

LE = Photoshop LE, Full = Full Photoshop v4.0 (while stocks last)  
Pro = Full Photoshop & Transparency Adaptor

Powerlook III with Tranny unit	£1995 (£2344.12)
Mirage SE A3 with Tranny unit	£1469 (£1726.07)

All prices in brackets are inclusive of VAT

Call for details of CoverPlus Extended Warranty

### GENUINE UK UNITS

All **UMAX** scanners supplied by Dabs Direct are genuine UK units and come with 1 year RTB

Scanners - Digital Cameras





- ✓ Serving you since 1987
- ✓ Over £50m annual turnover
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## SCANNERS

ACER	ex VAT	inc VAT
VuegoScan S200	35	41.12
VuegoScan S310P Parallel	45	52.87
VuegoScan S310S SCSI	65	76.37
VuegoScan S310 USB	59	69.32
VuegoScan 610P Parallel	69	81.07
VuegoScan 610PT Parallel & Tranny Unit	115	132.12
VuegoScan 610S SCSI	99	116.32
VuegoScan 610ST SCSI	145	170.37
<b>AGFA</b>		
SnapScan 310 Parallel	85	99.87
SnapScan 310 SCSI	99	116.32
SnapScan 600 SCSI	179	210.32
SnapScan 1210 Parallel	109	128.07
SnapScan 1212 USB	115	135.12
SnapScan 1236 SCSI	125	146.87
Arcus II	699	821.32
Arcus Solo	750	881.25
DuoScan T1200	549	645.07
<b>Accessories</b>		
SnapScan Automatic Document Feeder	159	186.82
<b>CANON</b>		
Canoscan FB320 Parallel	99	116.32
Canoscan 300S	140	164.50
Canoscan FB620 Parallel	139	163.32
DR3020 Document Management SCSI	3499	4111.32
<b>EPSON</b>		
GTx-5000 Parallel	130	152.75
GTx-5500 SCSI	161	189.17
GT-7000 SCSI	147	172.72
GT-7000 Photo SCSI	197	231.47
GTx-9500 Parallel	446	524.05
GTx-9500 SCSI	469	551.07
FilmScan 200 SCSI	250	293.75
<b>Accessories</b>		
GT Automatic Document Feeder	309	363.07
GT Transparency Unit	359	421.82
<b>HEWLETT PACKARD</b>		
ScanJet 4100 Parallel	116	136.30
ScanJet 5100c Parallel	149	175.07
ScanJet 6200c SCSI/USB	237	278.47
ScanJet 6250c SCSI/USB	275	323.12
ScanJet 6200/6250 SCSI Kit	65	76.37
ScanJet 5 Ethernet	1605	1885.87
<b>LOGITECH</b>		
PageScan USB	99	116.32

## Acer Scan 310/610

Our fastest range of flatbed scanners... from only £49

- Flatbed A4 colour scanner
  - 300 x 600/600 x 1200 dpi optical resolution
  - 4800dpi or 9600dpi max resolution
  - High speed one pass scan (5 sec preview)
  - 30bit colour, 10bit greyscale
  - Ulead iPhoto Plus & Xerox textbridge compatible
  - USB for Windows 98 (4810U/610U)
  - Parallel (310P/610P) or SCSI II (310S/610S) interface
- SCSI II (310S/610S) interface (SCSI card included)
- 310P 4800dpi, Parallel **£49\*** (£57.57 inc VAT)
- 310U 4800dpi, USB **£59\*** (£69.32 inc VAT)
- 310S 4800dpi, SCSI **£65\*** (£76.37 inc VAT)
- 610P 9600dpi, Parallel **£69\*** (£81.07 inc VAT)
- 610S 9600dpi, SCSI **£99\*** (£116.32 inc VAT)
- 610ST 9600dpi, SCSI **£129** (£151.57 inc VAT) with built in transparency adaptor.
- 610ST 9600dpi, SCSI **£159** (£186.87 inc VAT) with built in transparency adaptor.

The Personal Film Scanner With Revolutionary New Technology

## COOLSCAN III Nikon



- Digital ICE which automatically removes surface imperfections such as dust and scratches from scans, saving valuable hours re-touching time.
- High Optical Resolution of 2700dpi, 30-bit colour depth, shows detail even in the shadow & highlight areas of the image
- Colour Matching Library provides vivid and extremely accurate colour matching on both monitors & printers
- Versatile Film Loading - 35mm strip film adaptor & slide mount adaptor
- Advanced Photo System - optional adaptor for scanning APS
- Hot Swap Adaptors for simple switching between film types

Coolscan III with Nikon Scan 2.1 **£509** (£598.07 inc VAT)

Coolscan III with Nikon Scan 2.1 & Adaptec 1505E card **£527** (£619.22 inc VAT)

## SCANNERS

MICROTEK	ex VAT	inc VAT
Phantom 336CX Parallel	68	79.90
ScanMaker 330 SCSI	75	88.12
ScanMaker 336 SCSI	99	116.32
ScanMaker 636 EPP	115	135.12
ScanMaker X6 SCSI	139	163.32
ScanMaker 4 SCSI	525	616.87
ScanMaker 6400XL A3 SCSI	999	1173.82
ScanMaker 5 SCSI	1499	1761.32
ScanMaker 9600XL A3 SCSI	1599	1878.82
<b>MUSTEK</b>		
ScanExpress 6000P Parallel	45	52.87
ScanExpress 600 USB	65	76.37
ScanExpress 12000P Parallel	75	88.12
ScanExpress 6000SP Pro SCSI	79	92.82
ScanExpress 12000SP Pro SCSI	99	116.32
ScanExpress A3	129	151.75
<b>NIKON</b>		
CoolScan III Ext SCSI	509	598.07
CoolScan III Ext SCSI & SCSI Card	525	616.87
Super Coolscan SCSI	995	1169.12
Super Coolscan SCSI & Photoshop LE	1114	1308.95
<b>POLAROID</b>		
SprintScan 35LE SCSI	419	492.32
SprintScan Plus SCSI	1199	1408.82
<b>UMAX</b>		
Astra 610P Parallel	59	69.32
Astra 610S SCSI	89	104.57
Astra 1220P Parallel	109	128.07
Astra 1220S SCSI	219	257.32
Astra 1220U USB	139	163.32
Photoshop LE add	30	35.25
Full Photoshop v4.0 add	110	129.25
Powerlook ColourStudio II LE SCSI	749	880.07
Powerlook ColourStudio II Plus SCSI	899	1056.32
Powerlook ColourStudio II Pro SCSI	1149	1350.07
Powerlook III SCSI	1995	2344.12
Powerlook 2000 Pro SCSI	2499	2936.32
Mirage II SE SCSI	1999	2348.82
Mirage II SCSI	4999	5873.82
<b>Accessories</b>		
Astra Transparency Unit	199	233.82
<b>VISIONEER</b>		
PaperPort 3100	75	88.12
PaperPort 6000	89	104.57
PaperPort OneTouch	129	151.75
PaperPort Strobe Colour	139	163.32



## HP Intelligent Scanning Technology



### HP ScanJet 6200c

Professional Series

£237

(£278.47 inc VAT)

### HP ScanJet 6250c

Professional Series

£275

(£323.12 inc VAT)

The versatile consultant for fast, high-quality scanning with network capabilities for workgroups. Plus automatic multi-page feeder for higher productivity (HP ScanJet 6250c only)

- Superior Image Quality (1200 dpi HSS)
- Scans black & white lineart for editing or enlargement with no loss of quality (Vectorization)
- Unlimited enhanced resolution for quality image capturing (Intelligent Scaling)
- Increase your productivity up to 4 times over comparable scanners (HP PrecisionScan Pro)
- Optimizes individual elements on the page (Automatic Page Analysis)
- Drag and drop scanned text or photos into your application
- Networkable scanner for high workgroup productivity (HP PrecisionScan LAN)
- Great flexibility (Advanced Imaging Controls) and faster scanning (HP PrecisionScan Pro)
- SCSI or USB interface (SCSI Card not included)

HP ScanJet 6200c with 3 Years OSM Warranty

£303

(£356.02 inc VAT)

HP ScanJet 6250c with 3 Years OSM Warranty

£341

(£400.67 inc VAT)

Pictured - HP ScanJet 6250c with automatic multi-page feeder



### HP ScanJet 4100c

£116

(£136.30 inc VAT)

The smart friend who makes it easy to add the exciting dimension of scanning to all your projects.

- Excellent image quality (600 dpi HSS)
- Quick results with colour copy and scan buttons
- Scan only once for text & image data acquisition
- Easy step up and fast operation (universal serial bus)

With 3 Years OSM Warranty

£182

(£213.85 inc VAT)



### HP ScanJet 5100c

£149

(£175.07 inc VAT)

Quality results every time - with no experience required.

- Excellent image quality (600 dpi HSS)
- Scan only once for text and image data acquisition
- Parallel interface

With 3 Years OSM Warranty

£215

(£252.62 inc VAT)

freephone

# 0800 558866

**PRICE MATCHING**

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Web Site [www.dabs.com](http://www.dabs.com)

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All 0870 calls charged at national rate



All Microtek scanners are covered by 12 months of **Microtek Total Care** ...if within the 12 month warranty period, hardware fails, then you receive a brand new scanner free of charge.

## MICROTEK

### Phantom 336cx/636EPP



#### Features & Benefits

The Phantom 336cx is an ultra streamlined and compact design, measuring only 416 mm x 264 mm x 43 mm, small enough to fit in a briefcase. With integrated Enhanced Parallel Port technology, 30-bit colour depth and a maximum resolution of 4800 dpi both the Phantom 336cx and Phantom 636EPP outshine the competition in colour brilliance and scan accuracy.

#### Specifications:

- Resolution: 300 x 600 dpi, Interpolated 4800 dpi
- Resolution: 600 x 1200 dpi, Interpolated 9600 dpi
- Colour Depth: 36 bit
- Software: Scan Wizard (PC) Caere OmniPage LE (OCR) (PC) iPhotoExpress Microtek ScanSuite 636EPP only Recognita OCR 636EPP only PhotoAssistant 636EPP only

Phantom 336cx £68 (£79.90 inc VAT)  
Phantom 636EPP £115 (£135.12 inc VAT)



Microtek's new, 36-bit, ScanMaker 4 is an all-in-one scanning solution aimed at the professional user, be they in corporate communication, design or production. Like its big brother, the ScanMaker 5, the Scanmaker 4 is a dual media scanner. This Microtek patented design eliminates the need for a separate film adaptor, enabling the user to scan photographic prints on its upper bed or film transparencies from the internal transparency bay.

#### Specifications:

- Resolution: 600 x 1200 dpi Interpolated 9600 dpi
- Colour Depth: 36 bit
- Scan Area: 216 mm x 355 mm (Reflective) 216 mm x 254 mm (Trans)
- Interface: SCSI
- Software: Scan Wizard (PC/Mac) Microtek ScanSuite (PC) Caere OmniPage LE (PC/Mac) Recognita OCR (PC) Ulead PhotoImpact SE (PC) Kai's PhotoSoap (PC/Mac) DocuMagix PaperMaster (PC) ImagePais2Go! (PC, win3.x) Ulead PhotoAssistant (PC) ColorIt! (Mac) Fractal Painter 5.0 (PC/Mac) Adobe PhotoShop LE Lasersoft SilverFast (PC/Mac)

Options

£625 (£734.37 inc VAT)

### ScanMaker 330



Now Includes **Lightlid 35** 35mm filmstrip scanning adaptor

#### Features & Benefits

Microtek ScanMaker 330 offers a compact footprint and is designed for ease and simplicity - all the great benefits for home or small office!

#### Specifications:

- Resolution: 300 x 600 dpi, Interpolated 4800 dpi
- Colour Depth: 30 bit
- Scan Area: 216 mm x 297 mm (A4 size)
- Interface: SCSI
- Software: Scan Wizard (PC/Mac) Caere OmniPage LE (OCR) (PC/Mac) Ulead PhotoImpact LE (Image Editing) (PC) Kai's PhotoSoap (PC/Mac) DocuMagix PaperMaster (PC) ImagePais2Go! (PC, win3.x) ColorIt! (Mac)

ScanMaker 330 £75 (£88.12 inc VAT)

### ScanMaker 336/X6



Unique **'GO'** button on X6

#### Features and Benefits

Place photos, drawings, logos or pages of text into your computer applications

#### Specifications:

- Resolution: 336: 4800 dpi maximum resolution X6: 9600 x 9600 dpi maximum resolution
- Colour Depth: 36-bit
- Interface: SCSI
- Software: Scan Wizard (PC/Mac) Caere OmniPage LE (OCR) (PC/Mac) Ulead PhotoImpact LE (Image Editing) (PC) Kai's PhotoSoap (Image Editing) (PC/Mac), DocuMagix PaperMaster (PC) ImagePais2Go! (Image Editing) (PC, Windows 3.X), ColorIt! (Image Editing) (Mac)

ScanMaker 336 £99 (£116.32 inc VAT)  
ScanMaker X6 £139 (£163.32 inc VAT)  
Transparency Adaptor (ScanMaker 636/636) £75 (£88.12 inc VAT)  
10 Page ADF (ScanMaker 636/636) £169 (£198.57 inc VAT)

Macintosh compatible versions of these two model are also available - phone for prices

### ScanMaker 6400XL/9600XL



...the **BEST** value A3 scanner today

Includes **SilverFast Colour Separation Software**

#### Features and Benefits

Designed for professional applications the ScanMaker 6400XL & 9600XL are ideal for a production environment in corporations, advertising agencies, service bureaus for FPO positioning and for scanning large artwork, tabloid sized publications, and x-rays for medical imaging.

#### Specifications:

- Resolution: 6400XL: 400 x 800 dpi, Interpolated 6400 dpi 9600XL: 600 x 1200 dpi, Interpolated 9600 dpi
- Colour Depth: 36 bit
- Scan Area: 304 mm x 430 mm
- Interface: SCSI
- Software: Scan Wizard (PC/Mac) Caere OmniPage LE (OCR) (PC/Mac) Ulead PhotoImpact Full (Image Editing) (PC) ImagePais2Go! (Image Editing) (PC, Win 3.X) ColorIt! (Image Editing) (Mac) Fractal Design Painter (Image Editing) Colour Management Software (PC/Mac) Silverfast

ScanMaker 6400XL £999 (£1173.82 inc VAT)  
ScanMaker 9600XL £1599 (£1878.82 inc VAT)  
Transparency Unit TMAA3 £299 (£351.32 inc VAT)

Macintosh compatible versions also available - phone for prices

Scanners

Excellent Quality • Superior Service • Unbeatable Value





- ✓ Serving you since 1987
- ✓ Over £50m annual turnover
- ✓ Over 200,000 satisfied customers
- ✓ Highly trained specialist staff
- ✓ Repair & upgrade services

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## AGFA

The complete picture.

### SnapScan 1212P



#### NEW SnapScan 1212P

- Enhanced Parallel port (PC only)
- 36 bit colour depth
- 600 x 1200 dpi optical resolution
- Built-in Agfa colour management system
- Compatible with Windows 95, Windows 98 and Windows NT
- Software includes: Agfa Fotolook, & Agfa FotoSnap, iPhoto Express, OmniPage Limited Edition & Visioneer PaperPort

**NEW**

£99 (€116.32)

### SnapScan 1212U



#### NEW SnapScan 1212U

- USB (PC)
- 36 bit colour depth
- 600 x 1200 dpi resolution (enhancement to 9600 x 9600 dpi)
- USB interface transfers 1MB per second
- Share between multiple PCs
- Software includes: Agfa Fotolook, & Agfa FotoSnap, iPhoto Express, OmniPage Limited Edition & Visioneer PaperPort
- Windows 98 only

**NEW**

£115 (€135.12)

### SnapScan 1236s



#### NEW SnapScan 1236s

- SCSI interface scanner (PC and Mac)
- 36 bit colour depth
- 600 x 1200 dpi resolution (enhancement to 9600 x 9600 dpi)
- Compatible with Mac and PC systems
- PC Scanner controls supports Windows 95, Windows 98 & Windows NT
- Software includes: Agfa Fotolook, & Agfa FotoSnap, iPhoto Express, OmniPage Limited Edition & Visioneer PaperPort

**NEW**

£149 (€175.07)

Prices shown in brackets include VAT

## Mustek

All Mustek products are fully TWAIN compliant  
 All Mustek scanners are single pass  
 All Mustek scanners include image editing and OCR software

The total scanning solution

- |  |  |
|--|--|
| <b>ScanExpress 600 USB</b> <b>£65 (€76.37)</b> <ul style="list-style-type: none"> <li>• 300x600 dpi Optical Resolution</li> <li>• 9600 x 9600 Interpolated Resolution</li> <li>• 30bit Colour Depth (1.1 billion colours)</li> <li>• Connects simply via USB but offers similar performance to SCSI</li> </ul>   | <b>ScanExpress 6000P</b> <b>£45 (€52.87)</b> <ul style="list-style-type: none"> <li>• 300x600 dpi Optical Resolution</li> <li>• 4800 Interpolated Resolution</li> <li>• 30bit Colour Depth (1.1 billion colours)</li> <li>• Connects simply, via the parallel port</li> </ul>    |
| <b>VDC-300 Digital Camera</b> <b>£169 (€198.57)</b> <ul style="list-style-type: none"> <li>• Connects by USB or RS-232</li> <li>• Up to 640x480 resolution (470k CCD)</li> <li>• 2MB Memory (Up to 50 frames)</li> <li>• 45mm TFT LCD image preview/menu</li> <li>• Flash &amp; self timer</li> <li>• Composite connection to TV (PAL) to view images</li> <li>• Includes editing software, batteries</li> </ul> | <b>ScanExpress 12000P</b> <b>£79 (€92.82)</b> <ul style="list-style-type: none"> <li>• 600x1200 dpi Optical Resolution</li> <li>• 9600 Interpolated Resolution</li> <li>• 36bit Colour Depth (68.7 billion colours)</li> <li>• Connects simply, via the parallel port</li> </ul> |
|  | <b>ScanExpress 12000SP Pro</b> <b>£99 (€116.32)</b> <ul style="list-style-type: none"> <li>• SCSI version of ScanExpress 12000P</li> <li>• Includes a SCSI interface</li> </ul>  |

Prices shown in brackets are inclusive of VAT

## Desktop Video Camera

Get into the picture with Philips Parallel port Desktop Video Camera

- High picture quality digital desktop video camera
- Built-in Microphone
- Easy installation. Easily hand-held. The desk top flatters any office space
- High-quality streaming video performance of up to 320 x 240 pixels
- Make and send brilliant videomails in exhilarating colours with audio



**PCA635VC** **£65 (€76.37 inc VAT)**

## USB Digital Desktop Video Camera

Picture this Universal connectivity!

- Digital audio camera with built-in mic, powered through USB
- Streaming video performance up to 176x144 pixels & 352x288
- Point & press (instant VGA snapshot photo), hassle free
- Includes Philips Videogram software



**PCA645VC** **£65 (€76.37 inc VAT)**

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 Let's make things better.

## visioneer **Scanners**

**£15 CASH BACK**  
 on all Visioneer hardware

### PAPERPORT **OneTouch** £129 (€151.57)



The PaperPort® OneTouch scanner has five convenient buttons for easy copying, faxing, and scanning directly into Visioneer's award winning PaperPort® software. The OneTouch features high resolution, 36-bit colour.

- 600 x 1200 dpi optical resolution; 2400 dpi enhanced
- Works with Windows® 95 and Windows® NT
- 36-bit photorealistic colour (internal)
- Fastest "Scan to Finish" scanner

**AFTER CASH BACK**

**£136.57 inc VAT**  
 INCLUDES FREE SOFTWARE

### PAPERPORT **Colour Strobe** £139 (€163.32)

With PaperPort Strobe, you can organise, edit, fax, e-mail, and publish using the world's most popular paper management software.

- Manage all your paper and images on screen Organise. Simply drag and drop your scanned documents to and from folders on your desktop. Fax\* Just drag any scanned document to your PC razor-sharp. E-mail With PaperPort Strobe, you can distribute your documents quickly using popular e-mail or Internet software-company-wide or worldwide. PaperPort Links™ Work with more than 150 applications. Just drag & drop your documents & images.



**AFTER CASH BACK** **£133.32 inc VAT**  
 Designed for Windows® Free Software!

\* printer & modem required to print & fax

Prices shown in brackets are inclusive of VAT

### PAPERPORT **6100** £85 (€99.87)

Easiest flatbed scanner to use, Guaranteed!

- 600 x 1200 dpi optical resolution; 2400 dpi enhanced
- 36-bit photorealistic colour • One pass scan
- Flatbed design allows for more flexible scanning



**AFTER CASH BACK**  
**£84.87 inc VAT**  
 Free Software!

### BEST VALUE FOR MONEY SCANNER £59 (€69.32)

### PAPERPORT **3100**

The PaperPort 3100 is the most productive and easiest-to-use flatbed scanner, guaranteed. The bundled award-winning PaperPort software allows you to scan, fax, copy, print, and easily communicate by simply dragging and dropping scans on your PaperPort Desktop!

- 300 x 600 dpi optical resolution; 2400 dpi enhanced
- 30-bit photorealistic colour
- Flatbed design allows for more flexible scanning



**AFTER CASH BACK**  
**£54.32 inc VAT**

## Software

### ProOCR100 £59 (€69.32)



Visioneer ProOCR100 is the first 100% useful OCR for any scanner! Scan your way to a finished document up to 50% faster and 50% cheaper! Visioneer ProOCR100 allows you to scan Real World Documents quickly and effectively, such as dot matrix, faxed copies, and multi-generation copies plus is 100% TWAIN compliant.

Upgrade to **PAPERPORT DELUXE** for just **£65 (€76.37)**  
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**BUY ANY VISIONEER SCANNER & GET THE PRO OCR SOFTWARE AT THE SPECIAL PRICE OF**

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**The DC210 PLUS Zoom Camera!**



DC210 PLUS **£339**  
(£398.32 inc VAT)

**DVC 323**

**DIGITAL VIDEO CAMERA**  
• High speed USB interface  
• 30 frames per second in video mode  
• High quality still pictures, motion video  
• Resolution 640 x 480 pixels



**£129** (£151.57 inc VAT)



**REDUCED!!**

DC220 **£419** (£492.32 inc VAT)

DC260 **£669** (£786.07 inc VAT)

**Kodak ds**  
digital science™  
PRODUCTS

**Great Value MEGAPIXEL DC210 PLUS**

Based on the award-winning DC210, the 'PLUS' model delivers even more, making it the most advanced, most affordable and easiest-to-use digital camera in its class

- True megapixel CCD with 1152 x 864 image resolution
- Supplied with 8MB picture card, stores up to 120 pictures
- 1.8" TFT colour LCD for picture preview & review
- 2X Focus Free Zoom Lens with close-up mode
- Serial (RS232C), Infrared (IrDA) & Video Out (NTSC & PAL) interfaces - display pictures straight to TV!
- Includes: Kodak PictureEasy 3.0, Adobe PhotoDeluxe & PageMill software, Windows 95, Windows 98 or Windows NT mounter & TWAIN Acquire module
- Features include date stamping, custom borders and picture lightening
- AC adapter included

**MEGAPIXEL 2x Digital Zoom DC220**

**& MEGAPIXEL PLUS 6x Digital Zoom DC260**

- 1152 x 864 image resolution (DC220)
- 1536 x 1024 image resolution (DC260)
- Store up to 104 pictures - 8MB Compact Flash memory card included
- 2" colour LCD review and preview display
- Great software bundle, including Kodak's Digital Science Picture Easy 3.0 Software
- Features include: Burst Capture, Scripting Capability and Audio Recording
- Fully USB compatible
- AC adapter included

**FREE**  
Compact flash card reader with DC260

**MEGA PIXEL QUALITY DIGITAL IMAGES FROM YOUR APS CAMERA**  
**FILM DRIVE FD 300**  
**Kodak ADVANTIX System**

**PICTURES ON YOUR PC MADE EASY**

**SPECIAL OFFER**

The Kodak FD300 film drive includes a **FREE Advantix 2000 APS camera** worth **£49.99 (inc VAT)**

Only while stocks last



**£249**  
(£292.57 inc VAT)

**FEATURES**

- Compact size, fast access
- Saves hard drive space
- Exceptional image quality - up to 2400dpi
- Full size digital images from your APS film in less than 90 seconds
- Easy set-up and operation - parallel cable with pass through port
- Do more with your pictures with Kodak Picture Easy and Adobe Photodeluxe software

**THE DIGITAL EXPERIENCE STARTS WITH YOUR ADVANCED PHOTO SYSTEM CAMERA**

**Great Value MEGAPIXEL DC210 PLUS**

- True megapixel CCD with 1152 x 864 image resolution
- 8MB picture card, stores up to 120 pictures
- 1.8" TFT colour LCD for picture preview & review
- 2X Focus Free Zoom Lens with close-up mode
- Includes: Kodak PictureEasy 3.0, Adobe PhotoDeluxe & PageMill software, Windows 95, Windows 98 or Windows NT mounter & TWAIN Acquire module

**REDUCED!**  
**£339**  
(£398.32 inc VAT)

**NEW 1998 Sanyo digiCAM'S**



**COMING SOON!**  
The world's first digital camera with solar powered LCD display.  
DigiCAM 400, Megapixel Optical Zoom

**ORDER NOW! £589** (£692.07)  
Mains Adaptor £45 (£52.87) 4MB/8MB Smart Media £39 (£46.82)/£65 (£76.37)

Models	digiCAM VGA 200/210	digiCAM VGA 250/XGA 350	digiCAM XGA 300
Resolution	640 x 480	840 x 480/1024 X 768	1024 x 768
Sound with each picture	6 seconds	4 seconds	4 seconds
Auto timer, focus, flash	Yes	Yes	Yes
Camcorder mode	No	10 seconds/30 seconds	No
Zoom	No	x2	x3
Memory	4MB/8MB removable (210)	4MB or BMB removable	4MB or 8MB removable
TFT display & viewfinder	Yes	Yes	Yes
Price (inc VAT)	<b>£199</b> (£233.82)	<b>£249</b> (£292.57)	<b>£499</b> (£586.32)
	<b>£235</b> (£276.12)		<b>£339</b> (£398.32)

**NEW**

**QV-7000SX Digital Camera**

- Removable Flash Cards (8Mb included)
- Large 2.5" TFT display
- Zoom (2x optical & 4x digital)
- 1280 x 960 DPI resolution (SXGA)
- VideoOut for TV (PAL/NTSC)
- 12.8 sec Mini Movie
- PC software & connection kit included

**£359**  
(£421.82 inc VAT)

**QV-5000SX Digital Camera**

- 960 x 1280 dpi Mega Pixel
- BMB built in flash
- 1.3million Pixel
- 1.8 TFT Display - MINI MOVIE FEATURE
- Auto focus
- Stores 102 VGA images
- 4x digital zoom
- Optical viewfinder

**£349**  
(£410.07 inc VAT)



**Also DP8000 Digital Photo Printer**  
**£299** (£351.32 inc VAT)

**QV-700 Digital Camera (Mac or PC)**  
**£239** (£280.82 inc VAT)



All Agfa cameras are compatible with Mac and PC



The complete picture.



**ePhoto 780**



**Digital Camera**

- True 1.3 megapixel sensor for producing photo quality images
- 6x zoom (3x optical plus 2x digital)
- Picture resolution up to 1600 x 1200 (1.3 million pixels in 1680 mode)
- SSFDC SmartMedia 4MB memory card
- Four flash modes: F2.8 (wide) 3.5 (telephoto)
- 3 continuous optical zoom with macro: 38-114mm (equivalent to 3.5 mm camera)
- Agfa PhotoWise for accessing, managing & enhancing images
- LivePix SE for image editing, & PhotoVista for panoramic shots
- Video out (NTSC or PAL)

**Digital Camera** **£229** (£269.07)

- Includes: Agfa PhotoGenie
- 3 resolution settings 1024x764 (XGA), 640x480 (VGA), £320x240 (standard)
- Images can be viewed on 1.8 inch colour LCD panel
- 2MB smartmedia card (holds between 12-96 images depending on resolution)
- Four flash modes and video out (allows the images to be viewed on TV)

All prices in brackets are inclusive of VAT

Advanced, High-Resolution Digital Camera

**COOLPIX900**



**£594**  
(£697.95)

**STANDARD BUNDLE** - includes Coolpix 900 Digital Camera with 4MB compact flash card and Adobe PhotoDeluxe software **£594** (£697.95)

**PREMIERE BUNDLE** - includes Coolpix 900 Digital Still Camera with power supply, 12MB compact flash card, compact flash adaptor and Adobe PhotoDeluxe software **£646** (£759.05)

**Features**

- 3x Zoom-Nikkor lens
- CCD image resolution of 1280 x 960 pixels
- 1.3 megapixel resolution
- Three-mode metering: 1) 64-element matrix, 2) spot, and 3) centre-weighted
- Advanced five-mode built-in Speedlight
- Precise 945-step autofocus
- Exposure compensation
- Large 2 inch TFT LCD screen for composition and review
- Removable CompactFlash™ memory card
- Slim, compact and 270 degree swivel design
- Wideangle and fisheye converters (optional)

Prices in brackets are inclusive of VAT

Digital Camers - Scanners





- ✓ Serving you since 1987
- ✓ Over £50m annual turnover
- ✓ Over 200,000 satisfied customers
- ✓ Highly trained specialist staff
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## DIGITAL CAMERAS

	ex VAT	inc VAT
<b>AGFA</b>		
ePhoto 780	199	233.82
ePhoto 1280	399	468.82
ePhoto 1680	525	616.87
<b>CANON</b>		
PowerShot 350	319	374.82
PowerShot A5	395	464.12
PowerShot 500	529	621.57
<b>CASIO</b>		
QV-700	239	280.82
QV-5000SX	349	410.07
QV-7000	399	468.82
<b>EPSON</b>		
PhotoPC 900	303	356.02
PhotoPC 700	361	424.17
Accessories		
PhotoPC 600 AC Adaptor	49	57.57
PhotoPC 600 4Mb Card	99	116.32
PhotoPC 600 15Mb Card	259	304.32
<b>FUJI</b>		
DX-7	195	229.12
DX-9	295	346.62
MX-700	449	527.57
Accessories		
Mains Adaptor	25	29.37
<b>HEWLETT PACKARD</b>		
HPC 20	299	351.32
<b>HITACHI</b>		
MPEG Video Camera	1449	1702.57
<b>KODAK</b>		
DC200	249	292.57
DC210 Plus	339	398.32
DC220	419	492.32
DC260	669	786.07
Accessories		
DC200/210 AC Adaptor	45	52.87
DC120 Wide Angle Set	139	163.32
DC200/210 Mac Kit	29	34.07
FD-300	249	292.57
4Mb CompactFlash Card	49	57.57
10Mb CompactFlash Card	89	104.57
20Mb CompactFlash Card	145	170.37
External CompactFlash Card Reader	145	170.37
<b>MUSTEK</b>		
VDC-100	79	92.82
VDC-200P	189	222.07
<b>NIKON</b>		
CoolPix 100	246	289.05
CoolPix 300	329	386.57
CoolPix 600	375	440.62
CoolPix 900	594	697.95
CoolPix 900 Premiere	646	759.05
<b>OLYMPUS</b>		
C-420L	255	299.62
C-830L	Call	Call
C-840L	499	586.32
C-1400L	799	938.82
Accessories		
MA-1E SmartMedia PCMCIA Adaptor	79	92.82
C-1400L AC Adaptor	55	64.62
<b>SANYO</b>		
digiCAM 200	199	233.82
digiCAM 210	249	292.57
digiCAM 250	289	339.57
digiCAM 300 XGA	339	398.32
digiCAM 350 XGA	499	586.32
Accessories		
digiCAM 200/210/300 AC Adaptor	49	57.57
digiCAM 250/350 AC Adaptor	49	57.57
<b>SONY</b>		
Mavica FD5	349	410.07
DSC-F1	389	457.07
Mavica FD7	455	534.62
DCR SC100e	695	816.32
Accessories		
Mavica Stamina Battery	47	55.22
Mavica Soft Case	29	34.07
DSC-F1 Battery	35	41.12
DSC-F1 Fast Charger	49	57.57
<b>UMAX</b>		
DC - F1	279	327.82

## TERMINALS

	ex VAT	inc VAT
<b>WYSE</b>		
WY-35 with keyboard	239	280.82
WY-55ES	199	233.82
WY-65ES	275	323.12
WY-120ES	255	299.62
WY-160ES	299	351.32
WY-185ES with keyboard	275	323.12
WY-325ES	379	445.32
WY-520ES	215	252.62



## HP PhotoSmart C20 Digital Camera

...everything you need to take great digital photographs

With the HP PhotoSmart C20 digital camera, real photos are as close as your home PC. Just point and shoot and this compact digital camera takes great photos. Then, add your pictures to newsletters and flyers, or share memories with friends and family.



- Removable, reusable 4MB CompactFlash card stores pictures at three resolutions: Normal: 40 pictures, Fine: 20 pictures, Superfine: 8 pictures
- Auto flash system with options for flash fill and red-eye reduction.
- Auto focus, plus macro mode for quality closeups.
- Glass lens for superior optics.
- Color 1.8-inch LCD for viewing every shot, before or after.
- Extra long 16.4 foot NTSC video cable for viewing your photos on TV.
- AC Adapter which extends battery life.
- Serial cable for easy PC connectivity.
- HP PhotoSmart Photo Finishing software automatically downloads your photos to the PC, lets you index your pictures and create layouts. The exclusive Paper Saver feature automatically arranges your photos for printing to save you money.

Included with the HP PhotoSmart C20 digital camera:

- AC Adapter
- 4MB CompactFlash card
- 9-pin serial PC cable (RS-232)
- HP PhotoSmart Photo Finishing software
- 4 AA alkaline batteries
- Camera strap
- Multi-media how-to's and installation instructions, on-line help, user guide

HP PhotoSmart C20 Digital Camera  
**£299** (€351.32 inc VAT)



See page 30 for TV Tuner!  
 See page 30 for Video Card!  
 See page 45 for Modems!

## PC Video Camera Quartzsight Video Camera System

- Video Clip & Still Image Capture & Editing
- Video e-mail
- Video phone
- 24-bit Full Colour Video
- 352 x 288 resolution
- Includes software & cables



**£59** (€69.32 inc VAT)



## Pace Colour Video Camera USB or PCI

- Digital colour cameras for video communications
- Send 'Video Emails' to family and friends
- Capture and store still or live video images
- Video conference over phone lines, ISDN, the Internet or LAN conn.
- Software extras include Gotcha, Photowallet and Face-it
- 24-bit colour and frame rates of up to 30 per second
- USB version connects directly to a USB ready PC
- PCI version supplied with PCI video capture card which accepts images from a camcorder or VCR

USB **£65** (€78.37 inc VAT)

PCI **£65** (€78.37 inc VAT)

## Pace TV Card & Pace TV & Radio Card

- Tune into live TV on your PC with Nicam Stereo sound
- Watch live terrestrial, cable or satellite TV on your PC
- Listen to FM stereo radio (TV & Radio Card only)
- Access Teletext on your PC with enhanced FASTEXT facilities
- Up to 125 channels available with automatic channel scan
- Additional Video inputs for connection to a DVD player, camcorder or VCR
- Pace Video Capture software to capture live television footage or take clips from your home videos
- Compatible with Pace Colour Video Cameras for local PC video capture, video conferencing & video e-mail production.

TV Card **£62** (€72.85 inc VAT)

TV & Radio Card **£69** (€81.07 inc VAT)

(The above products are plug & play, supplied with unlimited technical help desk support & are covered by a 5 year guarantee.)

## MEMORY CARDS

	ex VAT	inc VAT
<b>SMARTMEDIA CARDS</b>		
4MB	29	34.07
8MB	39	45.82
<b>COMPACT FLASH/PCMCIA CARDS</b>		
4MB	39	45.82
8MB	49	57.57
16MB	79	92.82
32MB	129	151.57
Compact Flash - PCMCIA Adaptor	15	17.62

## CARD READERS

	ex VAT	inc VAT
<b>CHASE</b>		
CARDport SwiftSM SmartMedia Parallel	69	81.07
CARDport SwiftSM CompactFlash Parallel	69	81.07
CARDport solo Internal Front	79	92.82
CARDport uno Internal Rear	75	88.12
CARDport isa Internal Front/Rear	125	146.87
CARDport ex2 External Parallel	119	139.82

## VIDEO CONFERENCING

	ex VAT	inc VAT
<b>BARAKA</b>		
VidCal32 Parallel Video Conferencing Kit	169	198.57
Cinemail software	59	69.32
<b>CREATIVE LABS</b>		
VideoBlaster WebCam II	55	64.62
<b>INTEL</b>		
Create & Share USB	99	116.32
Create & Share PCI	139	163.32
ProShare Video Conferencing 200	599	703.82
ProShare Video System 200	849	997.57
<b>KODAK</b>		
DVC323 Desktop USB	129	151.57
<b>LOGITECH</b>		
QuickCam VC Parallel PC	55	64.62
QuickCam Home PC	65	76.37
QuickCam VC USB Win	65	76.37
QuickCam Pro USB	75	88.12
<b>MODULAR TECHNOLOGY</b>		
QuartzSight Desktop Colour Camera Kit	59	69.32
<b>PACE</b>		
Desktop Colour Camera PCI	69	81.07
Desktop Colour Camera Kit USB	69	81.07
<b>VIDEOLOGIC</b>		
Captivator PCI/VC	149	175.07
<b>ZOOM</b>		
Desktop Colour Camera	68	79.90

## PROJECTORS

	ex VAT	inc VAT
<b>CTX</b>		
Ez500 VGA 240Lm	1289	1514.57
Ez550 SVGA 300Lm	1989	2337.07
Ez600 SVGA 550Lm	2989	3512.07
<b>EPSON</b>		
EMP-5100 SVGA 750Lm	3995	4694.12
EMP-7100 XGA 650Lm	5375	6315.62
EMP-7300	8449	9927.57
<b>PROXIMA</b>		
LB20	1989	2337.07
DS1 SVGA 600Lm	3699	4346.32
DP5800 SVGA 650Lm	3885	4564.87
DP5900 SVGA 700Lm	3989	4687.07
DP9200 XGA 500Lm	5449	6402.57
<b>SANYO</b>		
PLC-5605 SVGA 700Lm	3699	4346.32
PLC-8815 XGA 550Lm	4799	5638.82
PLC-9005 XGA 1500Lm	7999	9398.82
PLC-SU15	3999	4698.82
<b>SONY</b>		
CPJ-D500	1119	1408.82
VPL-S600 SVGA 650Lm	3999	4698.82
VPL-X600 XGA 600Lm	4650	5463.75

## GRAPHICS TABLETS

	ex VAT	inc VAT
<b>CALCOMP</b>		
Creation Station A6 & Soap/Dabblor	89	104.57
Creation Station A5 Pro	199	233.82
Creation Station A5 & Painter v5	299	351.32
Creation Station A4 & Painter v5	399	468.82
Creation Station A3	399	468.82
<b>WACOM</b>		
Pen Partner	59	69.32
Pen Partner & Soap	69	81.07
ArtPad II	95	112.80
Intuos A6	119	139.82
Intuos A5	209	245.57
Intuos A4	305	358.37

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**56K\* Professional Message Modem**

New innovative feature enhanced message modem offers high quality faxmodem & answering machine function. Easy to use communications software has been specifically designed to utilise all the new features.



- FREE flash upgrade to the V.90 ITU 56K standard
- Includes x2™ technology
- Answerphone & Message Management
- Stores voice and fax messages when your PC is switched off
- Built-in voice quality speaker & microphone
- Flash ROM memory for easy upgrades

**£110**  
(£129.25 inc VAT)

**56K\* Message Modem**

Includes V.90 56K\* standard and x2™ technology

Complete feature-rich communications package for the home or office. The 56K\* Message Modem can be left to store incoming fax and voice messages even when your computer is switched off.



- Integrates V.90 56K\* standard and x2™ technology
- Flash ROM memory
- Internet ready and compatible at 33,600bps
- Full Duplex speakerphone
- Remote voice message and fax retrieval
- Call discrimination: Voice/Fax/Data, plus Fax-on-Demand

**£88**  
(£103.40 inc VAT)

3COM MODEMS ARE SUPPLIED WITH A LIFETIME WARRANTY AND FREE LIFETIME TECHNICAL SUPPORT

**56K\* Voice Faxmodem**

Includes V.90 56K\* standard and x2™ technology

- Flash ROM memory for easy upgrades
- Enhanced internet experience and save £'s on telephone bills
- Internet ready and compatible at 33,600bps
- Full Duplex speakerphone
- Single/multiple mailboxes with security
- Call discrimination: Voice/Fax/Data
- Fax-on-Demand - up to 100 faxes stored for distribution



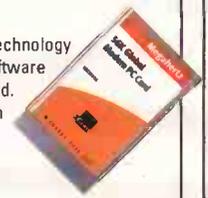
Internal **£68** (£79.90 inc VAT)  
External **£71** (£83.42 inc VAT)

**Megahertz 56K\* Global PC CARD**

Trouble free mobile connections

This Megahertz 56K\* Global PC CARD (PCMCIA) features 56K\* technology for high speed downloads and WorldPort™ country selection software so you can easily configure your modem for use around the world. The Intelligent Auto Install gives you easy, doubt-free installation in a matter of minutes.

- FREE flash upgrade to the V.90 ITU 56K standard
- x2™ technology at up to 56Kbps\*
- Flash DSP/Flash ROM upgradeable
- WorldReady-approved for use in over 250 countries & regions
- Digital line guard



**£105**  
(£123.37 inc VAT)

\* Due to varying line conditions, the actual download speeds you experience may be lower. Requires connectivity to an analogue telephone line which is compatible with 56K technology



More connected.™



**Pace 56 Solo**

56Kbps self-memory messaging system

- 56Kbps voice/fax/data modem with on-board memory
- Receives & stores voice & fax messages even with your PC off
- Stores a combination of approximately 30 minutes of speech or 30 pages of fax
- Retrieve your voice messages without your PC
- Retrieve your fax messages without having to view them first
- New audible UK Calling Line Identification
- Hands free speaker phone without your PC
- Flash upgradeable to future standards (V90 ready)
- Contacts you on the move to let you know you have messages waiting - remote access for message collection
- Automatically discriminates between voice, fax & data calls

**£135**  
(£158.62)



**Pace 56 Voice**

56Kbps voice/fax/data external or internal modem

- Super fast 56,000bps internet download
- Voice mail, fax mail & email
- UK Calling Line Identification
- Flash upgradeable to future standards (V90 ready)
- Full duplex, hands free, speaker phone capability
- Private mailboxes for multiple users
- Incorporates Rockwell technology

INTERNAL **£65** (£78.37)  
EXTERNAL **£79** (£92.82)



**Pace NB 56 Voice**

56Kbps voice/fax/data PC Card modem

- Super fast 56,000bps internet downloads
- Voice mail, fax mail & email
- Enhanced throughput up to 230.4Kbps
- UK Calling Line Identification
- Flash upgradeable to future standards (V90 ready)
- Ultra low power operation & standby mode
- Incorporates Rockwell technology

PC CARD **£95**  
(£111.62)



**Pace ISDN Terminal Adaptor**

Complete package for high speed digital communications

- Basic Rate ISDN interface (2 x 64k)
- Channel bonding for data transmission at 128Kbps
- Enhanced serial interface for up to 230.4Kbps
- 2 analogue ports for telephone/fax/modem connections
- Simultaneous voice & data over a single ISDN line
- Multiple Subscriber Numbering
- Euro ISDN approved for use throughout Europe

**£175**  
(£205.62)



All Pace products are supplied with cables, user guide, software suite & free internet trials. Unlimited help desk support is available and products are covered by a 5 year guarantee

Prices shown in brackets are inclusive of VAT



**FirstFone**  
Radio Card for GSM data  
Shows the way for GSM data.

Definitely a new era for GSM data communication. One single PC card combines the powerful features of a GSM phone and a data card.

FirstFone® sends data, faxes, e-mail and SMS from a notebook or PDA without the need of additional cables or equipment.

- Fits in ANY notebook or PDA equipped with a PC Card slot (PCMCIA Type II)
- 2 Watt Radio guarantees maximum coverage
- Optimised power consumption thanks to TAPS (Technologically Advanced Power Switching) - switch between 2 Watt (Class 4) and 0.8 Watt (Class5) transmission
- EZsim (Option's comfortable way of inserting the SIM card)

only **£329** (£386.57 inc VAT)



Connect the palm of your hand to the world.

No matter where you go, with the Option Snap-On GSM adaptor for PalmPilot you're never more than a short mobile phone call away from sharing information. You can update your schedule, access your e-mail and synchronise all your business or your personal life.

Whether you're down the road or half-way around the world, simply Snap-On, press a button and you're connected to your desktop computer, ready to HotSync as if your PalmPilot is back home, in its cradle.

only **£79** (£92.82 inc VAT)



The 56K technology gives a turbo boost to data transmission. Where ever you are, you're connected to the world. You can plug your GSM-Ready 56 modem onto more than 40 different GSM handsets, and at any PC or PDA. This is really plug and play - the interactive manual reduces configuring to clicking an icon.

Fast: twice the speed of current V.34 connections  
Flexible: fits in any notebook or PDA  
Upgradeable: based on the 56KHz standard and ITU upgradeable  
User friendly: easy configuration with interactive manual

only **£175** (£205.62 inc VAT)

Modems





- ✓ Serving you since 1987
- ✓ Over £50m annual turnover
- ✓ Over 200,000 satisfied customers
- ✓ Highly trained specialist staff
- ✓ Repair & upgrade services

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## MODEMS

3COM	ex VAT	inc VAT
Sportster WinModem 56K Internal	54	63.45
Sportster WinModem 33k6 PCMCIA	69	81.07
Megahertz 56k Global PCMCIA	105	123.37
56K V90 Voice Faxmodem Internal	68	79.90
56K V90 Voice Faxmodem External	71	83.42
56K V90 Message Modem	88	103.40
56K V90 Professional Message Modem	110	129.25
Courier V34 Internal	195	229.12
Courier V34 External	195	229.12

DABS	ex VAT	inc VAT
56K V90 Voice Internal	39	45.82
56K V90 Voice Internal PCI	39	45.82
56K V90 Voice External	55	64.82
56K PCMCIA	69	81.07

DIAMOND	ex VAT	inc VAT
Supra Express 56K Pro Internal	39	45.82
Supra Express 56K Pro External	59	69.32

DYNALINK	ex VAT	inc VAT
56K V90 Voice Internal	49	57.57
56K V90 Voice External	59	69.32
56K PCMCIA	65	76.37

HAYES	ex VAT	inc VAT
Accura 56K V90 Voice Internal	79	92.82
Accura 56K V90 Voice External	85	99.87
Accura 56K V90 Voice MSN Internal	85	99.87
Accura 56K V90 Voice MSN External	95	111.62
BT Accura 56K V90 Internet Kit	99	116.32
Optima 366 Business	149	175.07
Optima 336 Global PCMCIA	125	146.87
Optima 56K Global PCMCIA	155	182.12
Nokia 2110 GSM Kit	95	111.62
Nokia 8110 GSM Kit	95	111.62
Panasonic GSM Kit	95	111.62

LEAF	ex VAT	inc VAT
33k6 Internal	25	29.37
56K Internal	37	43.47
56K Internal PCI	39	45.82
56K External	52	61.10
56K PCMCIA	69	81.07

MODULAR TECHNOLOGY	ex VAT	inc VAT
SuperHighway 56K V90 Voice Internal	39	45.82
SuperHighway 56K V90 Voice Internal PCI	39	45.82
SuperHighway 56K V90 Voice External	49	57.57
SuperHighway 56K V90 PCMCIA	75	88.12

MULTITECH	ex VAT	inc VAT
MT2834ZPXI 33k6 Internal	75	92.82
MT2834ZDXK 33k6 External	75	92.82
MT2834ZDXV 33k6 Voice External	85	99.87
MT5600ZDX 56K External	79	92.82
MT5600ZDXV 56K Voice External	99	116.32
MT2834LT 33k6 PCMCIA	119	139.82
MT2834BLK 28k8 External	145	170.37
MT5634ZLXI 56K PCMCIA	129	151.57

OPTION	ex VAT	inc VAT
Snap On GSM Ericsson	79	92.82
Snap On GSM Nokia	79	92.82
Snap On GSM Panasonic	79	92.82
Snap On GSM Siemens	79	92.82
56K GSM PCMCIA Ericsson	195	229.12
56K GSM PCMCIA Nokia	195	229.12
56K GSM PCMCIA Panasonic	195	229.12
56K GSM PCMCIA Siemens	195	229.12
FirstFone GSM PCMCIA	329	386.57

PACE	ex VAT	inc VAT
Voice 56k V90 Internal	65	76.37
Voice 56k V90 External	79	92.82
NB 56K PCMCIA	95	111.62
Solo 56K V90 External	135	158.82



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- K56Flex/V90, download speed up to 56kbps & upload speed up to 33.6Kbps\*
- Fax upto 14,400bps
- Telephone Answering machine
- Full Duplex Speaker-phone
- Camera Ready (internal only)
- Includes Superservice software & cables

\*Conditions & connection permitting

**INTERNAL £39** (£45.82 inc VAT)  
**EXTERNAL £49** (£57.57 inc VAT)



V.90



## Full colour, full motion video camera

- Capture card and software
- Or use with video-ready modems

**only £42** (£49.35 inc VAT)



### 56K/V90 Dual Mode Fax modem

- Plug and play
- USA's leading internet modem
- FREE internet and comms software
- Video-Ready (internal only)

**Internal only £63** (£74.02 inc VAT)  
**External only £70** (£82.25 inc VAT)



AWARD WINNING MODEMS



**NEW! BT/Hayes V.90 Internet Kit**  
For all Business and Family Internet Needs £99 (£116.32 inc VAT)

## ACCURA V.90 56K Speakerphone Modem



- Internet downloads up to 56k bit/s\*
- NOW V.90
- Voice Answerphone
- Full Duplex Speakerphone
- Remote Fax & Voice message retrieval
- Plug and Play
- Comms software and cables included
- FLASH upgradeable

\*Varying line conditions may result in lower speeds

**LOW PRICE**  
**INTERNAL £79** (£92.82 inc VAT)

**LOW PRICE**  
**EXTERNAL £85** (£99.87 inc VAT)

## MODEMS CONTINUED

PSION DACOM	ex VAT	inc VAT
Gold Card V34+ Global PCMCIA	115	135.12
Gold Card 56K Global PCMCIA	145	170.37
Gold Card ISDN Upgrade	129	151.57
Nokia 2110 GSM Kit	89	104.57
Nokia 6110 GSM Kit	89	104.57
Nokia 8110 GSM Kit	89	104.57
Panasonic GSM Kit	89	104.57

TDK/GREYCELL	ex VAT	inc VAT
GlobalPulse Nokia 2110	119	139.82
GlobalPulse Nokia 8110	119	139.82
DF-2814 33k6 PCMCIA	109	128.07
DF-3310 33k6 GSM PCMCIA	119	139.82
DF-5660 56k PCMCIA	149	175.07
GCS-4000 33k6 PCMCIA	159	186.82
GCS-4020 Nokia 2110 GSM Upgrade	119	139.82
GCS-4021 Nokia 8110 GSM Upgrade	119	139.82
GCS-4040 33k6 & GSM Nokia 2110	259	304.32
GCS-4041 33k6 & GSM Nokia 8110	259	304.32
GCS-6040 GSM Nokia 2110	149	175.07
GCS-6041 GSM Nokia 8110	149	175.07
Nokia 2110 GSM Kit	99	116.32
Panasonic GSM Kit	99	116.32

XIRCOM	ex VAT	inc VAT
Credit card 33k6 PCMCIA	109	128.07
Credit card 56K PCMCIA	119	139.82
RealPort 56K GlobalAccess PCMCIA	129	151.57
Ericsson Global Access GSM PCMCIA	109	128.07
Siemens S3 Global Access GSM PCMCIA	109	128.07
Siemens S4 Global Access GSM PCMCIA	109	128.07
Philips Global Access GSM PCMCIA	109	128.07
Nokia 2110 Global Access GSM PCMCIA	109	128.07
Nokia 8110 Global Access GSM PCMCIA	109	128.07

ZOOM	ex VAT	inc VAT
56K Internal	63	74.02
56K External	70	82.25

## ISDN TERMINAL ADAPTORS

3COM	ex VAT	inc VAT
Sportster ISDN External	99	116.32
Courier-1 ISDN & 33k6 Modem Internal	239	280.82
Courier-1 ISDN & 33k6 Modem External	239	280.82

DYNALINK	ex VAT	inc VAT
ISDN Terminal Adaptor Internal with Voice	59	69.32

EICON	ex VAT	inc VAT
Divia 2.0 ISA	75	88.12
Divia 2.0 PCI	115	135.12
Divia Mobile PCMCIA	239	280.82
Divia Pro 2.0 ISA	165	193.87
Divia Pro 2.0 PCI	209	245.57
Divia Pro 2.0 PCMCIA	209	245.57
Divia Server BRI-ZM ISA	329	386.57
Divia Server BRI-ZM PCI	375	440.62
Divia Terminal Adaptor External	155	192.12

HAYES	ex VAT	inc VAT
Accura 128k External	174	204.45

PACE	ex VAT	inc VAT
UltraLink External	199	233.82

VIRTUAL ACCESS	ex VAT	inc VAT
LinXpeed 10 External	129	151.57
LinXpeed 20 External with Voice	169	198.57

XIRCOM	ex VAT	inc VAT
CreditCard ISDN PCMCIA	159	186.82

ZOOM	ex VAT	inc VAT
ISDN Terminal Adaptor Internal	84	98.70
ISDN Terminal Adaptor External	126	148.05
Duo ISDN TA & Modem Internal	109	128.07
Duo ISDN TA & Modem External	143	168.02



### Model MT5600ZDK External

Supports enhanced V.34 (33.6K bps) data and V.17 (14.4Kbps) data and V.17(14.4K bps) Class 1 fax.

- Key Features**
- K56 flex 56K
  - Flash upgradeable

**£75** (£88.12 inc VAT)



### Model MT5634ZLXI PCMCIA

- Key Features**
- K56 flex 56K
  - Flash upgradeable
  - Plug and Play

**£129** (£151.57 inc VAT)



### LinXpeed ISDN Digital Modems



- MSN - Multi Subscriber Numbering
- Call Bumping
- Channel Bonding - 128Kbps
- Multilink PPP
- Up to 230Kbps with data compression
- D Channel Ready
- Supports all worldwide ISDN protocols and X.25
- Simultaneous ISDN Voice & Data over single ISDN line
- Flash Upgradeable
- Model 20 includes 2x Analogue Ports

**Model 10** £129  
Data Only (£151.57 inc VAT)

**Model 20** £169  
Data & Voice (£198.57 inc VAT)

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## FAX

	ex VAT	inc VAT
<b>AVRO PACIFIC</b>		
Fax Friend	49	57.57
International Modem adaptor kit	42	49.35
<b>BROTHER</b>		
Fax-510	127	149.22
Fax-520 TAM	170	199.75
Fax-920	195	229.12
Fax-930	238	279.65
<b>CANON</b>		
T-21	189	222.07
T-31	219	257.32
T-30 Inkjet	249	292.57
B-110 Inkjet TAM	335	393.62
B-150 Inkjet	245	287.87
L-250 Laser	529	621.57
L-300 Laser	719	844.82
L-800 Laser	1019	1197.32
L-900 Laser	1235	1451.12
<b>OKI</b>		
Okifax 460 TAM	209	245.57
Okifax 610		call call
Okifax 660		call call
Okifax 740	279	327.82
Okifax 4100	419	492.32
Okifax 5200	729	856.57
Okifax 5500	899	1056.32
<b>PANASONIC</b>		
KX-F2680	185	217.37
KX-F2780	209	257.32
UF-S1 TAM	235	245.57
KX-F1810	245	299.62
UF-S10	259	292.57
KX-F1830	275	323.12
UF-332 Plain Paper	299	457.07
UF-550 Laser	639	739.07
UF-560 Laser	745	797.82
UF-280M	759	891.82
<b>SAMSUNG</b>		
SF-150	115	135.12
F-150	145	170.37
SF-4000 Inkjet	225	264.37
SF-5500 Laser	375	440.62
SF-5600 Laser	509	598.07
SF-6000 Laser	565	663.87
SF-6100 Laser	635	746.12

## MFC-9050

The MFC-9050 is a true all-in-one quality laser printer, fax & copier

only £425 (€499.37 inc VAT)

- 6 Second Transmission Speed
- Broadcasting
- 130 Page Memory
- 124 Speed Dial Buttons
- 64 Level Grey Scale



- 200 Sheet A4 Paper Cassette
- Reduce/Enlarge 50-200%
- Dual Access Memory
- Fax Forwarding/Retrieval
- Auto Document Feeder
- Fax/Telephone switch
- Call Back Message
- 6 ppm print speed
- Win-NT4 printer driver

## FAX-920

The FAX-920 is versatile enough for use both at home or in the office

only £195 (€229.12 inc VAT)

- Fixed cost per copy
- Plain paper fax
- 10 sheet document feeder
- Caller line identification
- Fax forwarding
- 20 page memory (512k)
- 48 speed dial stations
- 64 grey scale
- Optional PC interface
- Personal copy mode



### FAX-930

As FAX-920 with TAM

£238 (€279.65 inc VAT)

### FAX-1020

Plain paper fax

£238 (€279.65 inc VAT)

### FAX-1030

Plain paper fax with TAM

£299 (€351.32 inc VAT)



## MFC Pro 700C

£536 (€629.80 inc VAT)

The multifunction colour printer, scanner, copier and fax.

- Printer Up to 720 x 720 dpi colour inkjet printer  
Up to 5ppm (Mono), 3 ppm (Colour)
- Scanner Up to 1200 x 1200 dpi 24-bit colour scanner  
includes Xerox Textbridge OCR software
- Copier Colour copy up to 720 x 720 dpi max  
Reduction/Enlarge (Ratio 50% - 200%)
- Fax Fully featured fax machine  
14400 bps modem/speed  
Full duplex speaker phone (TAM 99 mins)  
4Mb memory (1Mb or 2Mb upgrade)  
Dual access memory & PC fax



### Memory

Increase the performance of your printer with an additional memory option at a very cost effective price.  
Phone now for prices



## FAX CONTINUED

	ex VAT	inc VAT
<b>SHARP</b>		
UX-108	99	116.32
UX-178	115	135.12
UX-258	149	175.07
FO-1460 Ink Film	185	217.37
FO-4500W Laser	1149	1350.07
<b>TOSHIBA</b>		
TFP-55	239	280.82
TFP-100 Inkjet	315	370.12

## MULTI-FUNCTION DEVICES

	ex VAT	inc VAT
<b>BROTHER</b>		
HLP-2000	239	280.82
MC-3000 Colour Inkjet	449	527.57
MFC-9050 Laser	425	499.37
MFC Pro 700c Colour Inkjet	595	699.12
<b>CANON</b>		
MPC-20 Colour Inkjet	289	339.57
MPL-90 Laser	719	844.82
<b>HEWLETT PACKARD</b>		
OfficeJet 635 Inkjet	321	377.17
LaserJet 3100 Laser	489	574.57
OfficeJet Pro 1170C Inkjet	489	574.57
OfficeJet Pro 1175C Inkjet	614	721.45
<b>OKI</b>		
Okifax 740M Colour Inkjet	329	386.57
<b>PANASONIC</b>		
UF-342 Inkjet	669	786.07
UF-344 Inkjet	949	1115.07
UF-770 Laser	1029	1209.07
<b>SANYO</b>		
SFX-P500 Colour Inkjet	299	351.32
<b>SHARP</b>		
FO-1660M	225	264.37
F-3600M Laser	429	504.07
<b>TOSHIBA</b>		
TF-601 Laser	729	856.57
TF-605 Laser	825	969.37
<b>XEROX</b>		
Work Centre 450C Colour Inkjet	265	311.37



## HP OfficeJet 635

The creative assistant that does everything around the office.

- Print, Copy, Scan in Colour
- Plain-paper Fax
- Simple to install and use.



### Features...

- 600x600 dpi Black Text
- 600x300 dpi Colour Printing
- 5ppm black 2ppm colour
- 100 speed dials and 65 page memory
- 1200 dpi enhanced colour scanning
- Windows®95 or 3.1x compatible
- Software: Caere OmniPage LE OCR, Corel Print and Photohouse Select 2.0
- One-year warranty with on-site exchange

£321 (€377.17 inc VAT)

With HP SupportPack £392 (€460.60 inc VAT)



## HP OfficeJet Pro 1170C

The professional assistant that does it all with style. Handles a variety of paper and other media with high quality results.

- Print, Copy, Scan in Colour



### Features...

- 600x600 dpi Black Text
- 600x300 dpi (with CREt W Colour Printing)
- 9ppm black 5ppm colour
- 1200 dpi enhanced colour scanning
- Digital Zoom 50% to 400%
- Windows®95, 3.1x compatible or Win NT
- Software: Scan Picture, OCR, and Adobe Photo Deluxe
- One-year warranty with on-site exchange

£489 (€574.57 inc VAT)

With HP SupportPack £607 (€713.22 inc VAT)

## A complete range of All-in-One

<http://www.hp.com/go/all-in-one>

## HP OfficeJet Pro 1175C

The professional assistant with fast performance, quality results plus the efficiency of an Automatic Document Feeder.

- Print, Copy, Scan in Colour
- Fax, through PC modem



### Features...

- 600x600 dpi Black Text
- 600x300 dpi (with CREt W Colour Printing)
- 1200 dpi enhanced colour scanning
- Digital Zoom 25% to 400%
- Windows®95, 3.1x compatible or Win NT
- Software: Scan Picture, OCR, Adobe Photo Deluxe and WinFax Pro
- One-year warranty with on-site exchange

£614 (€721.45 inc VAT)

With HP SupportPack £754 (€885.95 inc VAT)

## HP LaserJet 3100

The professional workhorse for high quality and productive business communications

- Laser Printer, Fax, Copier and Scanner
- Standalone fax and copy facility



### Features...

- 600x600 dpi
- 6ppm
- 175 speed dials, up to 150 page memory
- 600 dpi enhanced scanning
- 50% to 200% reduction/enlargement
- Windows®95, 3.1x compatible or Win NT
- Software: Integrated JetSuite Pro Desktop software and ReadIRIS Pro PCR
- One-year warranty with on-site exchange

£489 (€574.57 inc VAT)

With HP SupportPack £607 (€713.22 inc VAT)

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- No monthly charges
- No contract to sign
- Free Voicemail message service

With Up 2 You, you pay for call time before you use it, which means that there is no worry about running up bills you can't pay, or finding yourself stuck with big monthly fees and a binding contract.

The Up 2 You pack contains everything needed to get started in mobile phones.

With simple call costs, no contracts or bills, Up 2 You could well be the right choice for you.

### Call charges in pence per minute (all calls charged by the second)

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Calls to other One 2 One subscribers e.g. 0956, 0958	40p
Voicemail deposit & retrieval	free
Freephone numbers	40p
Premium numbers, Directory Enquiries	75p
Calls to other mobile operators' subscribers	75p
International and higher premium numbers	£1.50
Emergency calls	No charge
121	free

### Main service charges (inc. VAT)

Local & national calls	40p
Calls to other One 2 One subscribers e.g. 0956, 0958	40p
Voicemail deposit & retrieval	free
Freephone numbers	40p
Premium numbers, Directory Enquiries	75p
Calls to other mobile operators' subscribers	75p
International and higher premium numbers	£1.50
Emergency calls	No charge
121	free

### Up 2 You Ericsson PH 388

Combines classic elegance with a wide range of features.

- Caller display
- Calculator, clock and alarm
- Up to 2 hours talktime
- Up to 24 hours standby time

**£110**  
(£129.25 inc VAT)

### Up 2 You Ericsson PF 768

Remarkably compact and stylish.

- Caller display
- Choice of ring melodies including the ability to compose one
- Up to 3 1/2 hours talktime
- Up to 55 hours standby time

**£127**  
(£149.22 inc VAT)

### Up 2 You Siemens S6

One of the lightest and slimmest phones in its class.

- One - touch voicemail and phonebook keys
- 4 line display, allowing easy use of the menu
- Caller display
- Up to 4 hours talktime
- Up to 60 hours standby time

**£85**  
(£99.87 inc VAT)

### Up 2 You Motorola Manhattan

Contoured styling, simplicity and outstanding battery performance combine to make this phone a great all rounder.

- One - touch voicemail and phonebook keys
- Stylishly contoured with rounded back to fit comfortably in the hand
- Also takes 4 standard AA disposable batteries
- Permanently displayed battery meter
- Up to 5 hours talktime
- Up to 70 hours standby time

**£65**  
(£76.37 inc VAT)

one 2 one

Prices correct at time of going to print - please call for latest prices

# Just Talk

no monthly charge, no commitment, no credit check

If you already know that all you'll want to use your phone for is talking, but you want flexibility in the way you pay for your talk time, Just Talk is for you. Orange Just Talk is the simple, up-front way to join Orange - there's no written contract, no credit check and no monthly charges...just talk.

There's even a choice of phones - you can buy Just Talk with either the **Motorola mr30**, the **Motorola mr201** or the **Philips ph301** phone. All three phones include, battery, rapid charger and 30 minutes of free talk time to get you started. Once you've bought your phone, you can buy talk time whenever you like - and it will give you all the flexibility you need by letting you purchase 15, 60 or a full 200 minutes of talk time for your phone. This talk time is then valid for 90 days.

On joining Orange Just Talk, you will receive...

- Motorola mr30 or Motorola mr201 or Philips ph301
- 30 minutes of talk time
- Answer Phone service
- 24 hour Customer Services
- 1 year manufacturer's warranty

Motorola mr30 with Orange Just Talk	£89	(£104.57)
Motorola mr201 with Orange Just Talk	£85	(£99.87)
Philips ph301 with Orange Just Talk	£75	(£88.12)

Topping up your Just Talk minutes...

15 minutes of talk time	£15	(£17.62)
60 minutes of talk time	£29	(£34.07)
200 minutes of talk time	£55	(£64.62)

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# Talk 60

off peak call charges 5p per minute

- 96% UK population coverage
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- 'FREE' itemised billing
- 14 day money back guarantee
- Caller ID
- Rollover minutes for unused talk time
- Text messaging (most phones)



free phone

FREE Carriage on Orange phones from Dabs Direct  
 † FREE Nokia nk702 on request, subject to signing a 12 month Talk 60 contract

### Tariffs

talk plan name	monthly charge	standard time included (per month)	standard call charges (per minute after standard talk time)	standard call charges		
				7am-7pm Mon-Fri peak	off peak	orange to orange
talk 15	£15.00	15 minutes	1 (no sharing)	25p	5p	12.5p
talk 60	£25.00	60 minutes	1 + 2	20p	5p	10p
Line Two chat 60	Extra £5.00	60 off-peak minutes		25p	10p	10p

One-off connection charge: £30.00

please call for other talk plans

One-off connection charge for line two: £10.00

### Talkshare

- Free connection for additional phones - saving £30 each phone
- Each additional handset is charged at £12.50 per month
- All phones share the inclusive minutes



hutchinson telecom

All prices exclude VAT (except where shown in brackets)

freephone

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Edinburgh 0131 556 4114

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**PRICE MATCHING**

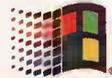
We can usually match competitors prices, please call for details.

Web Site [www.dabs.com](http://www.dabs.com)

## OKI

People to People Technology

### 4 NEW MODELS LAUNCHED THIS MONTH



## LED PAGE PRINTERS

The Oki range of LED page printers have been designed to provide all the performance you need, day after day. Producing excellent quality text and graphics, these printers will grow in line with your needs and can be expanded in terms of paper handling and memory capacity.



### OKIPAGE 8c

The OKIPAGE 8c enables fast eight pages per minute colour printing. With a choice of four colour management systems and excellent paper handling capacity, it is the ideal colour page printer for the workgroup.

- LED 8 ppm colour page printer
- True 600 x 600 dpi resolution
- 32 seconds to first print
- 16 MB RAM, upgradable to 80 MB
- 500 sheet paper tray
- 4 colour management systems
- Unique colour tandem engine
- PostScript Level 3 emulation

**£2199** (£2583.82 inc VAT)

### OKIPAGE 8c with Ethernet

- As the OKIPAGE 8c with Ethernet

**£2379** (£2795.32 inc VAT)



### OKIPAGE 20n

- LED 20 ppm page printer with PCL6
- 600 x 1200 dpi resolution
- Fast MIPS R3000 RISC processor
- 8Mb RAM, upgradeable to 68Mb
- Optional Adobe PostScript Level II
- OKIVIEW network management software
- Bi-directional parallel and serial interface

**£729** (£856.57 inc VAT)

### OKIPAGE 20ndx

- All the features of the OKIPAGE 20n
- Duplex unit as standard

**£909** (£1068.07 inc VAT)



### OKIPAGE 16n

- LED 16 Pages per minute
- 600 x 600 dpi
- 6Mb of memory
- Up to 1200 sheet paper capacity

**£579** (£680.32 inc VAT)



### OKIPAGE 12i/n

- LED 12 ppm page printer
- PCL6 and Adobe PostScript Level II
- 600 x 1200 dpi resolution
- 4Mb RAM, upgradeable to 36Mb
- DOS, Windows 3.1/95/98 & Windows NT
- Ethernet 10 BaseT as standard

**£399** (£468.82 inc VAT)



### OKIPAGE 8p

- LED 8 ppm page printer with PCL6
- 600 x 1200 dpi resolution
- 2Mb RAM, upgradeable to 6Mb
- DOS, Windows 3.1/95/98 & Windows NT

**£179** (£210.32 inc VAT)

### OKIPAGE 10ex

- LED 10 ppm page printer with PCL6
- 600 x 1200 dpi resolution
- 2Mb RAM, upgradeable to 35Mb
- DOS, Windows 3.1/95/98 & Windows NT
- 250 sheet input tray

**£229** (£2269.07 inc VAT)

All OKI LED Page Printers include 1 years On-Site Maintenance as standard

## OKIFAX 4100/740/740MF

The **OKIFAX 4100** is a high quality, high performance desktop LED fax, perfect for small office, home offices and for personal use.

- 14.4k modem • 100 sheet paper capacity • Memory expandable from 15 to 75 pages
- Separate toner and drum • Advanced dialling features • Power save mode

**£419**  
(£492.32 inc VAT)



The **OKIFAX 740** is an affordable plain paper fax.

- Compact Footprint • PC link via Serial interface • 150 sheet paper capacity/20 sheet ADF
- 10 one touch and 50 two touch dialling • 18 pages memory upgradeable to 68 pages
- ID coded Access • 70 broadcast locations

**£279**  
(£327.82 inc VAT)

The **OKIFAX 740MF** is a plain paper fax and colour printer.

- Supplied with mono and colour cartridges • 150 sheet paper capacity/20 sheet ADF
- 18 sec/page transmission speed • Autodial: 10 one-touch/50 speed dial/5 groupdial
- 1 Mb/50 page upgrade • 600 dpi mono printing

**£329**  
(£386.57 inc VAT)



Lasers . Faxes





- ✓ Serving you since 1987
- ✓ Over £50m annual turnover
- ✓ Over 200,000 satisfied customers
- ✓ Highly trained specialist staff
- ✓ Repair & upgrade services

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Corporate **0870 129 3010** Export **+44 1942 853001** Email **sales@dabs.com**

## DOT MATRIX PRINTERS

EPSON	ex VAT	inc VAT
LX-300	97	113.97
FX-880	247	290.22
FX-1170	230	270.25
FX-1180	307	360.72
FX-2170	395	464.12
FX-2180	465	546.37
DFX-5000	1226	1440.55
DFX-8000	1911	2245.42
DFX-8500	2099	2466.32
LQ-300	115	135.12
LQ-570+	216	253.80
LQ-670	230	270.25
LQ-870	377	442.97
LQ-2070	330	387.75
LQ-2170	468	549.90
DLQ-3000	831	976.42

LEXMARK	ex VAT	inc VAT
2380	285	334.87
2390	285	334.87
2381	349	410.07
2391	349	410.07

OKI	ex VAT	inc VAT
ML280P	185	217.37
ML320P	309	363.07
ML321P	369	433.57
ML380P	219	257.32
ML3320	309	363.07
ML3390	325	381.87
ML3321	369	433.57
ML3391	395	452.37
ML520P	339	398.32
ML521P	399	468.82
ML590P	435	511.12
ML591P	529	621.57
ML395 Mono	655	769.62
ML395 Colour	715	840.12
ML3410	839	995.82

PANASONIC	ex VAT	inc VAT
KX-P1150	95	111.62
KX-P2023	115	135.12
KX-P3200P	185	217.37
KX-P3626	275	323.12
KX-P3696	275	323.12

## The Award Winning QMS Magicolor<sup>2</sup> colour laser printer

The new QMS Magicolor<sup>2</sup> colour laser printer will transform the way you think about colour printing. Equally suited to specialist graphics work and everyday business application, the Magicolor<sup>2</sup> will produce brilliant colour prints very time.

- Up to 16ppm in mono 4-8ppm in colour
- Outstanding colour images at up to 2400dpi
- Low cost per copy at 3p per page in colour
- Simple to use and small footprint
- Built in Ethernet + Postscript and PCL5e support
- Internal 1 GB hard disk (EX model only)

**QMS Magicolor<sup>2</sup> DeskLaser** - Specifically designed to make colour printing easy for Windows users, the Magicolor<sup>2</sup> DeskLaser is 100% compatible with Windows 95 and NT and uses the latest colour laser printing technology to deliver the highest quality prints.

### Features

- Stunning 600 dpi full colour output
- Up to 16ppm in mono, 4ppm in colour
- Low cost-per-copy at 3p per page in colour
- Built In Ethernet
- Lowest cost colour laser printer available today

All QMS Magicolor<sup>2</sup> printers come with 1 year on-site warranty

**Magicolor 2 CX 24Mb (600dpi) £1756** (€2063.30 inc VAT)

**Magicolor 2 EX 80Mb (2400dpi) £2460** (€2890.50 inc VAT)

**Magicolor 2 DeskLaser (Windows 95/NT only) £1118** (€1313.65 inc VAT)



## DOT MATRIX PRINTERS

TALLY	ex VAT	inc VAT
MT83	175	205.62
MT84	219	257.32
T2030/9	289	339.57
T2130/9	359	421.82
T2030/24	325	381.87
T2130/24	369	433.57
T2040	565	663.87
T2140	699	821.32
T2055	1049	1232.57
T2070	1229	1444.07

## RIBBONS

EPSON	ex VAT	inc VAT
7753	80c 24pin Black	4 4.70
7753	136c 24pin Black	5 5.87
7763	LQ-860 Colour	14 16.45
8750	80c 9pin Black	3 3.52
8755P	136c 9pin Black	4 4.70
S015016	LQ-860 Black	6 7.05
S015032	LQ-100 Black	4 4.70
S015047	LX-100 Black	4 4.70
S015060	LQ-150 Black	6 7.05
S015061	LQ-150 Colour	16 18.80
S015066	DLQ-3000 Black	16 18.80
S015067	DLQ-3000 Colour	23 27.02
S015073	LX-300 Colour	16 18.80
S015077	LQ-300 Colour	15 17.62
S015086	FX-2170 Black	6 7.05
S015086	LQ-2170 Black	16 18.80

## OKI

1595	ML182/192/280/320/3320	5 5.87
1630	ML-395 Black	17 19.97
1637	ML-395 Colour	23 27.02
2569	ML380/385/386/390/3390	6 7.05
4816	ML-3410 Black	19 22.32
4823	ML590/591 Black	8 9.40
4830	ML590/591 Colour	24 28.20
4837	ML520/521 Black	8 9.40

## PANASONIC

KX-P150	KX-P2180/2123/2124 Black	8 9.40
KX-P150C	KX-P2180/2123/2124 Colour	14 16.45
KX-P160P	KX-P2135 Black	8 9.40
KX-P165C	KX-P2135 Colour	14 16.45
KX-P170	KX-P3626/3696 Black	13 15.27
KX-P181	KX-P3200 Black	13 15.27

# Xerox DocuPrint



Xerox DocuPrint XJ6C

### Xerox DocuPrint XJ6C

An affordable, quality colour inkjet printer for the home & office.  
**FREE SCREEN SAVER WITH EVERY PURCHASE** - while stocks last

- 5 ppm mono, 2.5 ppm colour
- 1200 x 600 dpi photo-realistic printing
- 4 individual ink cartridges with ink level sensors
- Optional Turbo Black cartridge - 7 ppm laser-like quality

only **£114** (€133.95 inc VAT)



Xerox DocuPrint XJ8C

### Xerox DocuPrint XJ8C

A high performance colour inkjet printer with business features at a personal printer price.

**FREE SCREEN SAVER WITH EVERY PURCHASE** - while stocks last

- 8 ppm mono, 4 ppm colour
- 1200 x 1200 dpi resolution on plain paper
- 4 individual ink cartridges with ink level sensors
- Laser-sharp black text for professional results

only **£149** (€175.07 inc VAT)



Xerox DocuPrint P8e

### Xerox DocuPrint P8e

The affordable solution to fast, productive mono laser printing for the personal user.

- Up to 8ppm
- True 600 x 600 dpi resolution
- Choice of available fonts
- 150 sheets standard paper capacity

only **£229** (€269.07 inc VAT)



Xerox DocuPrint P12

### Xerox DocuPrint P12

Fast, high quality laser printing, which also incorporates the award winning Adobe PrintGear technology to increase productivity and enable graphics & photographic printing.

- 12ppm
- 600 x 600 dpi
- Flexible paper handling with 250 sheet paper cassette as standard
- Duplex as std, plus other enhanced printing formatting features
- Quick return to application
- Adobe PrintGear technology

only **£429** (€504.07 inc VAT)



Xerox DocuPrint N17

### Xerox DocuPrint N17/N17b

Network Laser Printer

- 1200 x 600dpi laser technology
- 17pages per minute
- 16 MB memory, upgradeable to 104 MB
- PCL6 emulation and PostScript Level 3
- Edge-to-edge printing, all sizes
- XIE Resolution Enhancement
- 250 sheet tray, optional offset catch tray
- Optional Ethernet (standard 500 sheet on N17)
- 1 year on-site limited warranty

DocuPrint N17 **£749** (€880.07 inc VAT)

DocuPrint N17b **£679** (€797.82 inc VAT)

### N24/N32/N40 Network Laser Printers

N24:	Docuprint 24ppm network laser printer	£1569	(€1843.57 inc VAT)
N32:	Docuprint 32ppm network laser printer	£1729	(€2031.57 inc VAT)
N32CN:	With Duplex & 2500 Sheet Feeder	£2769	(€3253.57 inc VAT)
N32FN:	With Duplex, 2500 Sheet Feeder, HD & finisher/stapler	£4289	(€5039.57 inc VAT)
N40:	Docuprint 40ppm network laser printer	£1949	(€2290.07 inc VAT)
N40CN:	With Duplex & 2500 Sheet Feeder	£2948	(€3463.90 inc VAT)
N40FN:	With Duplex, 2500 Sheet Feeder, HD & finisher/stapler	£4499	(€5286.32 inc VAT)

### C55/C55MP/C55MPV Colour Laser Printers

C55:	Docuprint colour laser printer (3ppm col, 12 ppm mono)	£1779	(€2090.32 inc VAT)
C55MP:	With Ethernet/PostScript (3ppm col, 12 ppm mono)	£2345	(€2755.37 inc VAT)
C55MPV:	With Ethernet/PostScript plus 2nd bin and HD Drive	£3045	(€3577.87 inc VAT)



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# Tektronix

## Phaser 740L (features)

- Colour capable laser\*
- 16MB, 16ppm, 1200x1200dpi
- Adobe Postscript 3, PCL5 emulation
- Optional automatic duplexing
- Ethernet & parallel interface
- 1 year RTB warranty



**£995**  
(£1169.12)

Phaser 740L

\* Phaser 740L is colour upgradeable

### Consumables

Colour upgrade kit for 740L	£415	(£487.62)
Black toner cartridge	£48	(£56.40)
Cyan toner cartridge	£107	(£125.72)
Magenta toner cartridge	£107	(£125.72)
Yellow toner cartridge	£107	(£125.72)
Fuser unit	£155	(£182.12)
4 toner cartridges, 50 trays, 100 sh paper	£481	(£565.17)

PRICES IN BRACKETS ARE INCLUSIVE OF VAT

## Phaser 740N (features)

- Colour laser
- 32MB, 5ppm col, 16ppm mono
- 600 dpi colour, 1200 dpi mono
- Ethernet & parallel interface
- Optional automatic duplexing
- Adobe Postscript 3, PCL5c emulation
- Job accounting • Usage profile
- Remote printing
- Tekcolor™ Dynamic correction
- 1 year Tekcolor™ on-site warranty



**£1395**  
(£1639.12)

Phaser 740N

## Phaser 740P & 740DX (features)

- Colour laser
- 64MB (740P), 128MB & 4GB HD (740DX)
- 5ppm colour & 16ppm mono
- 1200 dpi colour, 1200 dpi mono
- Parallel, ethernet & SCSI
- Auto duplexing 740DX (optional 740P)
- Adobe Postscript 3, PCL5c emulation
- Usage profile • Job accounting
- Collation printing • Remote printing
- Tekcolor™ Dynamic correction
- 1 year Tekcolor™ on-site warranty

**Phaser 740P**  
**£1995** (£2344.12)

**Phaser 740DX**  
**£3395** (£3989.12)

See line listing for Phaser 840 & 780



**NEW**  
**HL-820** **£159**  
(£186.82 inc VAT)

Robust, low cost Windows® only printer. Ideal for the small office or home user.

### FEATURES

- 8 page per minute
- Windows® dedicated Printing
- 600 dpi resolution
- 2MB standard memory
- 200 sheet paper input
- Semi automatic duplex
- Intelligent sleep mode
- Auto wake up
- Low running costs
- Auto e-mail printing\*

**HL-2400c** **£2145**  
(£2520.37 inc VAT)

With a resolution of up to 2400dpi the new colour laser from Brother, provides the high quality output demanded by professionals

### FEATURES

- up to 2400dpi
- up to 8ppm colour/16ppm mono
- 40Mb memory (upg to 112Mb)
- Semi automatic manual duplex
- Low running costs
- Automatic e-mail printing
- Intelligent sleep mode
- One year on-site warranty



**NEW**  
**HL-1040** **£215**  
(£252.62 inc VAT)

The new HL-1040 is the ideal low cost solution for your printing needs - combining flexibility with high print quality at an affordable price.

### FEATURES

- 10 page per minute
- Windows/DOS compatible
- 600 dpi print resolution
- 2MB standard memory
- PCL4 compatible
- 200 sheet paper input
- Semi automatic duplex
- Intelligent sleep mode
- Low running costs
- Auto e-mail printing\*
- Network connectivity option



**NEW**  
**HL-1050** **£239**  
(£280.82 inc VAT)

The most highly featured machine in its class. Combining leading edge technology and efficiency for the ultimate in printing efficiency.

### FEATURES

- 10 pages per minute
- 66Mhz RISC processor
- 1200 x 600 dpi printing
- 4MB standard memory expandable to 36Mb
- PCL6 compatible
- Multiple emulations
- 200 sheet paper input
- Semi automatic duplex
- Intelligent sleep mode
- Low running costs
- Auto e-mail printing\*
- IEEE 1284 & Universal Serial Bus interfaces
- Network connectivity option

HL1050-8MB £265 (£311.37 inc VAT)

Also available:

**HL-2400cn** **£2495**  
(£2931.62 inc VAT)

The HL-2400cn is a network ready version, having all the features of the HL-2400c, with the addition of...

- 80Mb memory as standard
- Advanced Network Functionality
- 10BaseT & 10Base2 connectors with automatic detection



**NEW**  
**HL-1070** **£299**  
(£351.32 inc VAT)

High quality printing at a surprisingly low price. The Brother HL-1070 makes high quality, high speed and high capacity highly affordable.

### FEATURES

- 10 page per minute
- 66Mhz RISC processor
- 4Mb standard memory upgradable to 36Mb
- 1200dpi resolution
- PCL6 & PostScript 2 language emulation as standard
- Dual paper tray as standard 2 x 200 sheet paper input
- Intelligent sleep mode
- Low running costs
- Auto e-mail printing\*
- IEEE 1284 & Universal Serial Bus interfaces
- In-built barcode font
- Network connectivity option
- One year on-site warranty
- HL1070-8MB £329 (£386.57 inc VAT)
- \* POP3 required



**NEW**  
**MC-3000** **£449**  
(£527.57 inc VAT)

All the power of a colour printshop, on your desktop. A high quality 4 colour inkjet printer, a digital colour copier and a colour scanner, all in one machine. A compact state of the art solution for a price that is very affordable.

### FEATURES

- 4 Colour Inkjet Printer
- Digital Colour Copier
- Colour Scanner
- Up to 5 ppm printing
- Up to 720x720 dpi printing
- 200 sheet input and output
- Bundled software includes OCR textbridge and photo-manipulation package

### Memory

Increase the performance of your printer with an additional memory option at a very cost effective price.

Phone now for prices

**brother**®





- ✓ Serving you since 1987
- ✓ Over £50m annual turnover
- ✓ Over 200,000 satisfied customers
- ✓ Highly trained specialist staff
- ✓ Repair & upgrade services

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All 0870 calls charged at national rate

**Corporate 0870 129 3010 Export +44 1942 853001 Email sales@dabs.com**

## LASER PRINTERS

BROTHER	ex VAT	inc VAT
HL-820	159	186.82
HL-1040	215	252.62
HL-1050	239	280.82
HL-1050 8Mb	255	299.62
HL-1070 PostScript	299	351.32
HL-1070 PostScript 8Mb	315	370.12
HL-1660e	609	715.57
HL-1660en Ethernet	819	962.32
HL-2060	669	786.07
HL-2060 16Mb	685	804.87
HL-2060n Ethernet	899	1056.32
HL-2060n Ethernet 16Mb	915	1075.12
HL-2400c Colour	2145	2520.37
HL-2400cn Colour Ethernet	2495	2931.62

Accessories	ex VAT	inc VAT
RS-100M HL-730/760/10x0 Serial	75	88.12
NC-600X HL-730/760/10x0 Ethernet	185	217.37
LT-1600 HL-1660 500sht Lower Tray	169	198.57
DX-1600 HL-1660 Duplex Unit	329	386.57
NC-1000 HL-1660 Ethernet Interface	219	257.32
LT-24C HL-2400c 250sht Lower Tray	185	217.37

Warranty	ex VAT	inc VAT
HL-820/1050 1yr OSM	39	45.82
HL-820/1050 2yr OSM	89	104.57
HL-1660 2yr OSM	149	175.07
HL-2400c 2yr OSM	900	1057.50

CANON	ex VAT	inc VAT
LBP-660	185	217.37
LBP-1760	655	769.62

EPSON	ex VAT	inc VAT
EPL-5700	304	357.20
EPL-5700EN Ethernet	456	535.80
EPL-5700PS PostScript	456	535.80
EPL-N1200	477	560.47
EPL-N1200EN Ethernet	636	747.30
EPL-N1200PS PostScript	795	934.12
EPL-N1600	596	700.30
EPL-N1600T Twin Bin	716	841.30
EPL-N1600ENT Ethernet Twin Bin	835	981.12
EPL-N2000	954	1120.95
EPL-N2000PS PostScript	1193	1401.77
EPL-N4000	1944	2284.20
EPL-N4000T	3629	4264.07
EPL-C8000EN	3983	4680.02
EPL-C8000ENT	4663	5479.02

Accessories	ex VAT	inc VAT
EPL-5700 500sht Lower Cassette	109	128.07
EPL-5700 PostScript SIMM	179	210.32
EPL-N1200 500sht Lower Feeder	149	175.07
EPL-M600 500sht Lower Tray	195	229.12
EPL-M600 Duplex Unit	209	245.57
EPL-N2000 250sht A3 Lower Feeder	225	264.37
EPL-N2000 500sht A4 Lower Feeder	225	264.37
EPL-N2000 Duplex Unit	279	327.82
Type B Ethernet Interface	245	287.87
Type B LocalTalk Interface	99	116.32
Type B Serial Interface	75	88.12

Warranty	ex VAT	inc VAT
EPL-5700 3yr CoverPlus	59	69.32
EPL-N1200 3yr CoverPlus	175	205.62
EPL-N2000 3yr CoverPlus	275	323.12

HEWLETT PACKARD	ex VAT	inc VAT
LaserJet 1100	232	272.60
LaserJet 1100A Multifunction	285	334.87
LaserJet 6P	461	541.67
LaserJet 6MP PostScript	562	660.35
LaserJet 4000	711	835.42
LaserJet 4000T Twin Cassette	787	924.72
LaserJet 4000N Ethernet	914	1073.95
LaserJet 4000TN Twin Cassette Ethernet	990	1091.57
LaserJet 5000 A3	929	1091.57
LaserJet 5000N A3 Ethernet	1334	1567.45
LaserJet 5000GB A3 Ethernet	1649	1937.57
LaserJet 8000 A3	1477	1735.47
LaserJet 8000N A3 Ethernet	1642	1929.35
LaserJet 8000DN A3 Ethernet Duplex	1935	2273.62
Ljet Mopier 240 A3 Ethernet Duplex	2362	2775.35
LaserJet 8100 A3	1687	1982.22
LaserJet 8100N A3 Ethernet	1875	2203.12
LaserJet 8100DN A3 Ethernet Duplex	2145	2520.37
LaserJet Colour 4500	1597	1876.47
LaserJet Colour 4500N Ethernet	1875	2203.12
LaserJet Colour 4500DN Ethernet Duplex	2422	2845.85
LaserJet Colour 8500	3862	4537.85
LaserJet Colour 8500N Ethernet	4425	5199.37
LaserJet Colour 8500DN Ethernet Duplex	5242	6159.35

Accessories	ex VAT	inc VAT
LaserJet Companion	78	91.65
LaserJet 4000 500sht Tray	75	88.12
LaserJet 4000 500sht Universal Tray	85	99.87
LaserJet 4000 500sht Feeder	179	210.32
LaserJet 4000 75sht Envelope Feeder	195	229.12
LaserJet 4000 Duplex Unit	175	205.62
LaserJet 5000 250sht Tray	89	104.57
LaserJet 5000 500sht Tray	125	146.87
LaserJet 5000 250sht Feeder	149	175.07

## It's time your printing costs came down

### All *ECOSYS* printers save you money

ECOSYS cartridge-free technology cuts printing cost by avoiding the need to replace the drum and developer, treated as consumables on conventional printers. Kyocera use long-life components instead meaning that printing is significantly cheaper than with cartridge-based printers.

### FS-600 only £229

(£269.07 inc VAT)

- 600 dpi, 6ppm laser printer
- Cartridge-free technology
- 50MHz Power PC processor
- IEEE 1284 parallel plus option port
- Internal 150-sheet cassette
- Optional 250-sheet cassette
- Ethernet/serial interface options
- Low cost per page - 1p per page 5% and RRP



### FS-800 only £339

(£398.32 inc VAT)

- High performance personal/small workgroup printer
- 8ppm print speed
- 4MB RAM, upgradeable to 36MB
- Ultra fast 50MHz Power PC processor
- 600dpi plus resolution enhancement
- PCL5e & PostScript level 2 emulations
- 150-sheet enclosed paper cassette
- Compact, robust design
- Low cost per page - 1p per page 5% and RRP
- Options include 250-sheet second cassette, network and serial interfaces



### FS-1700N+ only £655

(£487.62 inc VAT)

- 600 dpi, 12ppm network laser printer
- 8MB memory plus memory enhancement
- PCL5e & PostScript level 2 emulations
- Pre-installed multi-protocol Ethernet interface
- Fully SNMP compliant
- High speed parallel and serial interfaces
- Supported by Kyocera PrintMonitor management utility
- 250 sheet standard cassette plus 100 sheet multi-purpose feed
- Up to 2 x 500 sheet optional cassettes
- Optional duplex unit and output sorter/mailbox



### FS-3700+ only £679

(£797.82 inc VAT)

- 18ppm laser design
- 100MHz Power PC processor
- Reliable ECOSYS technology
- PCL5e and PostScript level 2 as standard
- 4MB RAM as standard
- 600dpi laser technology (1200dpi KIR2)
- Advanced modular paper handling options
- SNMP-compliant network printer management
- Ideal high performance network printer
- Ultra-low consumables costs



## THE SMART MONEY'S ON



## LASER PRINTERS continued

HEWLETT PACKARD cont	ex VAT	inc VAT
LaserJet 5000 500sht Feeder	209	245.57
LaserJet 5000 Duplex Unit	295	346.62
LaserJet 8000 Envelope Feeder	279	327.82
LaserJet 8000 2000sht Feeder	585	687.37
LaserJet 8000 2 x 500sht Feeder	635	746.12
LaserJet 8000 7bin Tabletop Mailbox	519	609.82
LaserJet 8000 Multi-bin Mailbox	779	915.32
LaserJet 8000 5bin Mailbox & Stapler	1099	1291.32

External	ex VAT	inc VAT
J3110A JetDirect 600N RJ45	181	212.67
J3111A JetDirect 600N Combo/LocalTalk	216	253.80
J3113A JetDirect 600N 10/100	232	272.60

Memory	ex VAT	inc VAT
J2590A JetDirect Plus3 10/100	351	412.42
J2591A JetDirect Plus Combo	186	218.55
J2538A JetDirect 170X	96	112.80
J3263A JetDirect 300X 10/100	186	218.55
J3265A JetDirect 500X 10/100 3 parallel	220	258.50

Warranty	ex VAT	inc VAT
LJ4000/5000/8000 4Mb SDRAM	39	45.82
LJ4000/5000/8000 8Mb SDRAM	85	76.37
LJ4000/5000/8000 16Mb SDRAM	115	135.12
LJ4000/5000/8000 32Mb SDRAM	219	257.32
LJ4000/5000/8000 2Mb Flash RAM	159	186.82
LJ4000/5000/8000 4Mb Flash RAM	219	257.32

Warranty	ex VAT	inc VAT
LJ6L 3yr Support Pack	77	90.47
LJ6P/6MP 3yr Support Pack	142	166.85
LJ4000 3yr Support Pack	180	211.50
LJ5000 3yr Support Pack	235	276.12
LJ8000 3yr Support Pack	530	622.75
Colour LaserJet 3yr Support Pack	619	727.32

KYOCERA	ex VAT	inc VAT
FS-600	229	269.07
FS-800	339	398.32
FS-1700+	494	580.45
FS-1700T+ Twin Cassette	569	668.57
FS-1700N+ Ethernet	655	769.62
FS-1700N+ Twin Cassette Ethernet	739	868.32
FS-3700+ PostScript	679	797.82
FS-3700T+ Twin Cassette PostScript	749	880.07
FS-3700N+ Ethernet PostScript	855	1004.62
FS-3700N+ PostScript Twin Cas Enet	929	1091.57
FS-6700 A3 PostScript	999	1173.82
FS-7000 A3 Twin Cassette	1699	1996.32
FS-7000NDX A3 Twin Cassette Ethernet	1849	2172.57

Accessories	ex VAT	inc VAT
ST-20 Face-Down Stacker	639	750.82
HS-20 Face-Up Stacker	99	116.32
PF-7E Bulk Paper Feeder	419	492.32
HS-3E Bulk Output Stacker	419	492.32
EF-1 Power Envelope Feeder	150	176.25
PB-20 Printer Base	115	135.12
PA-20 Paper Path Adaptor	76	30.55
PF-20 Universal Paper Cassette	189	222.07
DJ-20 Duplex Unit	359	421.82
PF-5 500 Sheet Feeder	195	229.12
PA-1 Paper Path Adaptor	29	34.07
EF-1 Power Envelope Feeder	149	175.07

Accessories	ex VAT	inc VAT
PF-30 2x500sht Cassette	379	445.32
DJ-30 Duplex Unit	389	457.07
ST-30 Face Up/Face Down Stacker	1469	1726.07

Memory	ex VAT	inc VAT
4MB SIMM	59	69.32
8MB SIMM	109	128.07
Varranty		
FS-600 1 year	49	57.57
FS-800 1 year	79	92.82
FS-1700 1 year	99	116.32
FS-3700 1 year	199	233.82
FS-5700 1 year	239	281.32

LEXMARK	ex VAT	inc VAT
Optra E+	235	276.12
Optra K1220	459	539.32
Optra S1255	639	750.82
Optra S1255N Ethernet	799	938.82
Optra S1855	709	833.07
Optra S1855N Ethernet	909	1068.07
Optra S2455	1359	1596.82
Optra S2455N Ethernet	1609	1890.57
Optra N A3	1675	1958.12
Optra N Pro A3	1919	2254.82
Optra SC1275 Colour	2245	2637.87
Optra SC1275N Colour	2615	3072.62
Optra 1200 A3 Colour	3949	4640.07
Optra 1200N A3 Colour Ethernet	4579	5380.32

Accessories	ex VAT	inc VAT
Optra S 250sht Tray	49	57.57
Optra S 500sht Tray	79	92.82
Optra S 250sht Feeder	155	182.12
Optra S 500sht Modular Input	189	222.07
Optra S Envelope Feeder	205	240.87
Optra S Duplex Unit	349	410.07
Optra S 2000sht Feeder	729	856.57
Optra S 650sht Output Stacker	225	264.37
Optra S Cabinet	265	311.37

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**HP DeskJet 420C**

The affordable friend that makes a great first printer. Ready to handle correspondence and fun projects right out of the box.

- Up to 3 ppm black, 0.25 ppm colour
- Resolution: 600 dpi black, 300 dpi colour
- 50 sheet input tray
- DOS, Win 3.1x, Win 95 compatible
- 1 year unit exchange warranty

**420C**                      **£66** (£77.55 inc VAT)  
With HP SupportPack                      £113 (£132.77 inc VAT)



**HP DeskJet 690C**

The smart friend for quality, everyday printing.

- Up to 5 ppm mono, 1.7 ppm colour
- Resolution: 600 dpi black, 600 x 300 dpi colour
- Optional photo cartridge
- DOS, Win 3.1x, Win 95 & Win NT 4 compatible
- 1 year unit exchange warranty

**690C**                      **£96** (£112.80 inc VAT)  
With HP SupportPack                      £136 (£159.80 inc VAT)



**HP DeskJet 895Cxi**

The productive multi-users business partner.

- Up to 9 ppm mono, 6 ppm colour 0.18 ppm photo
- 600 dpi resolution
- Photo REt II for photo-quality colour
- 100 sheet input tray
- Parallel and USB interface
- DOS, Win 3x/9x/NT 5 compatible
- 1 year unit exchange warranty

**895Cxi**                      **£186** (£218.55 inc VAT)  
With HP SupportPack                      £233 (£273.77 inc VAT)

**HP DeskJet and LaserJet**

Hewlett-Packard offers a wide range of printers designed to suit all needs.

HP DeskJet printers can help you express your creativity in as many ways as you can imagine.

Whether you use it at home or in the office, an HP LaserJet printer is a reliable workhorse you can count on day after day.



**HP DeskJet 710C/720C**

The flexible partner that gives you great results with no hassle. Fast and quiet, and prints photos without changing cartridges.

- 6 ppm mono, 3 ppm colour, 0.1 ppm photo (710C)
- 8 ppm mono, 4 ppm colour, 0.3 ppm photo (720C)
- Resolution: 600 dpi black
- Photo REt II for photo-quality colour
- Crisp, quality black text with HP's patented ink
- 100 sheet input tray
- Prints on a wide range of media
- 2MB RAM (710C), 512k RAM (720C)
- Amazingly quiet/compact design
- 1 year unit exchange warranty

**710C**                      **£134** (£157.45 inc VAT)  
With HP SupportPack                      £181 (£212.67 inc VAT)

**720C**                      **£149** (£175.07 inc VAT)  
With HP SupportPack                      £189 (£222.07 inc VAT)



**HP DeskJet 1120C**

The versatile consultant that delivers photo-quality colour prints from postcards to poster.

- Print Speed: 6.5 ppm black (A4), 4.5 ppm colour (A4) 4 ppm black (A3), 3 ppm colour (A3)
- Resolution: 600 dpi
- Photo REt II for photo-quality colour
- HP ColorSmart II
- 150 sheet input tray
- 2MB RAM
- DOS, Win 3.1x, Win 95 & Win NT 4 compatible
- Easy setup and installation
- 1 year unit exchange warranty

**1120C**                      **£285** (£290.22 inc VAT)  
With HP SupportPack                      £325 (£290.22 inc VAT)



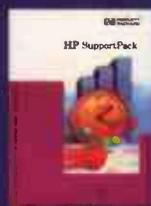
**HP 2000C**

The professional consultant that lets you get down to business with breakthrough colour printing speed.

- 10 ppm black, 7 ppm colour
- Full page business graphics: 4 ppm
- Resolution: 600 dpi
- Photo REt II for photo quality colour
- 150 sheet paper tray
- 250 sheet accessory paper tray (2000CN only)
- 2MB RAM
- HP JetDirect 300X print server (2000CN only)
- Win 3.1x, Win 95 & Win NT 4 compatible
- 1 year unit exchange warranty

**2000C**                      **£450** (£528.75 inc VAT)  
With HP SupportPack                      £590 (£693.35 inc VAT)

**2000CN**                      **£675** (£793.12 inc VAT)  
With HP SupportPack                      £815 (£793.12 inc VAT)



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## HP DeskJet and LaserJet printers



### HP LaserJet 1100

The personal laser printer for any size of office.

- Up to 8 ppm print speed
- 600 dpi resolution with Ultra Precise toner
- 2MB memory with MEt
- 100 sheet input tray, straight through paper path
- DOS/Win 3.1x/95/NT 4.0 compatible
- 1 year return to HP warranty

**1100** £232 (€272.60 inc VAT)  
 With HP SupportPack ECall (€Call inc VAT)

### HP LaserJet 1100A

The personal laser/copier/scanner with all the features of the LaserJet 1100 plus...

- 600 dpi enhanced/256 greyscale scanner
- Copy documents with a push of a button
- Includes scanning & OCR software

**1100A** £285 (€334.87 inc VAT)  
 With HP SupportPack ECall (€Call inc VAT)



### HP LaserJet 4000

The new standard for network printing.

- Up to 17 ppm engine and 100MHz RISC processor
- 1200 dpi resolution with UltraPrecise Toner
- PCL6 and PostScript Level 2 emulation
- 4MB memory with MEt (8Mb on 4000N/TN)
- 100+500sheet input trays (2x 250sheet on 4000T/TN)
- Parallel, Serial, Ethernet (4000N/TN only)
- 1 year return to HP warranty

**4000** £711 (€835.42 inc VAT)  
 With HP SupportPack E891 (€1046.92 inc VAT)

**4000T** £787 (€924.72 inc VAT)  
 With HP SupportPack E967 (€1136.22 inc VAT)

**4000N** £914 (€1073.95 inc VAT)  
 With HP SupportPack E1094 (€1285.45 inc VAT)

**4000TN** £990 (€1173.82 inc VAT)  
 With HP SupportPack E1170 (€1371.17 inc VAT)



### HP LaserJet 6P

The fast, versatile laser printer for business users with growing needs. With its performance, its capability to handle a wide variety of paper types and size and its extensive connectivity it can be shared in small work groups.

- Up to 8 ppm print speed
- 600 dpi resolution
- PCL6 and PostScript Level 2 emulation (MP only)
- 250 sheet input tray, 100 sheet multi-purpose tray
- DOS/Win 3.1x/95/NT 4.0/Mac (MP only) compatible
- 1 year return to HP warranty

**6P** £461 (€541.67 inc VAT)  
 With HP SupportPack E603 (€708.52 inc VAT)

**6MP** £562 (€660.35 inc VAT)  
 With HP SupportPack E704 (€827.20 inc VAT)



### HP LaserJet 5000

The A3 Network Printer for small to medium-sized workgroups.

- Up to 16 ppm engine and 100MHz RISC processor
- 1200 dpi resolution with UltraPrecise Toner
- PCL6 and PostScript Level 2 emulation
- 4MB (8Mb on 5000N, 12Mb & 1Gb HD on 5000GN)
- 350 sheet input (850 sheet on 5000G/GN)
- Parallel, Serial, Ethernet (5000N/GN only)
- 1 year return to HP warranty

**5000** £929 (€1091.57 inc VAT)  
 With HP SupportPack E1164 (€1367.70 inc VAT)

**5000N** £1334 (€1567.45 inc VAT)  
 With HP SupportPack E1569 (€1843.57 inc VAT)

**5000GN** £1649 (€1937.57 inc VAT)  
 With HP SupportPack E1884 (€2213.70 inc VAT)



## HP DeskJet and LaserJet Accessories

### HP Supplies

...Everything works better when it works together.

HP Supplies are engineered to the same exacting standards as the HP products they are made for.

This high level of compatibility ensures longer life for your HP hardware, consistent performance, impressive results and trouble-free operation year after year.

### Ink Cartridges

DJ 420	Black	£18	(€21.15)
DJ 420	Colour	£19	(€22.32)
DJ 710/720/895/1120	Black	£18	(€21.15)
DJ 690	Black	£19	(€22.32)
DJ 690	Colour	£19	(€22.32)
DJ 690	Photo	£20	(€23.50)
DJ 710/720/895	Colour	£22	(€25.85)
2000c/2500c	No.10 C	£22	(€25.85)
2000c/2500c	No.10 Y	£22	(€25.85)
2000c/2500c	No.10 M	£22	(€25.85)
2000c/2500c	No.10 K	£22	(€25.85)

### Toner Cartridges

LJ 6P/6MP	Toner	£45	(€52.87)
LJ 6L	Toner	£39	(€45.82)
LJ 4000	10K Toner	£77	(€90.47)
LJ 4000	GK Toner	£55	(€64.62)
LJ 5000	Toner	£93	(€109.27)

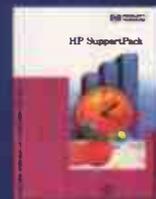
### Paper Handling

LJ 4000	75 Sheet Envelope Feeder	£175	(€205.62)
LJ 4000	Duplex Assembly	£195	(€229.12)
LJ 4000	500 Sheet Tray	£75	(€88.12)
LJ 4000	500 Sheet Feeder	£179	(€210.32)
LJ 5000	Duplex Unit	£295	(€346.62)
LJ 5000	250 Sheet Feeder	£149	(€175.07)
LJ 5000	500 Sheet Feeder	£209	(€245.57)

### Memory

LJ 4000/5000/8000	4MB SDRAM	£39	(€45.82)
LJ 4000/5000/8000	8MB SDRAM	£65	(€76.37)
LJ 4000/5000/8000	16MB SDRAM	£115	(€135.12)
LJ 4000/5000/8000	32MB SDRAM	£219	(€257.32)

Prices shown in brackets are inclusive of VAT



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LASER PRINTERS continued

LEXMARK continued

	ex VAT	inc VAT
MarkNet S Triport Adaptor	55	64.62
MarkNet S BNC/RJ45	269	316.07
MarkNet S 10/100 RJ45	325	381.87
Memory		
Optra S 4Mb	65	76.37
Optra S 8Mb	115	135.12
Optra S 16Mb	219	257.32
Warranty		
Optra S 1255 2yr OSM	129	151.57
Optra S 1655 2yr OSM	169	198.57
Optra S 2455 2yr OSM	299	351.32

MINOLTA

	ex VAT	inc VAT
PagePro 6L	169	198.57
PagePro 6	215	252.62
PagePro 6E	255	299.62
PagePro 8L	205	240.87
PagePro 8	245	287.87
PagePro 8E	318	374.82
PagePro 12	559	656.82
PagePro 20	709	833.07
Colour PagePro	1549	1820.07
Colour PagePro PS	1929	2266.57

OKI

	ex VAT	inc VAT
OkPage 4w plus	135	158.62
OkPage 8p	179	210.32
OkPage 6e	189	222.07
OkPage 6ex	219	257.32
OkPage 10ex	229	269.07
OkPage 10exs	262	307.85
OkPage 12/n Ethernet	399	468.82
OkPage 16n	579	680.32
OkPage 16nps PostScript	699	821.32
OkPage 16en Ethernet	749	880.07
OkPage 16enps Ethernet PostScript	729	856.57
OkPage 20en Ethernet	889	1044.57
OkPage 20nps PostScript	899	1056.32
OkPage 20ndx Duplex	909	1068.07
OkPage 20enps Ethernet PostScript	1039	1220.82
OkPage 20endx Ethernet Duplex	1069	1256.07
OkPage 8c Colour	2199	2583.82
OkPage 8cn Colour Ethernet	2379	2795.32

Accessories

	ex VAT	inc VAT
10i Serial Interface	39	45.82
10i Ethernet Interface	95	111.62
10i PostScript SIMM	109	128.07
20n 2nd/3rd Bin	219	257.32
20n Duplex Unit	235	276.12
20n Fast Ethernet Interface	249	292.57
20n PostScript SIMM	275	323.12

PANASONIC

	ex VAT	inc VAT
KX-P6300	185	217.37
KX-P6500	249	292.57

QMS

	ex VAT	inc VAT
DeskLaser 600	159	186.82
DeskLaser 1400P	655	769.62
DeskLaser 2000Net A3 Ethernet	889	1044.57
DeskLaser 2000XNet A3 Duplex Ethernet	1339	1573.32
2060WX	1069	1256.07
2060BX	1329	1561.57
2060GX	1579	1855.32
2060IS	1999	2348.82
2060EX	2669	3136.07
2425PS	2869	3371.07
2425EX	4149	4875.07
MagiColor 2 DeskLaser	1118	1313.65
MagiColor 2 CX 24Mb	1756	2063.30
MagiColor 2 CX Exec 80Mb	2460	2890.50

Accessories

	ex VAT	inc VAT
DeskLaser 1600 MF Feeder	95	111.62
DeskLaser 1600 2nd Feeder	265	311.37
DeskLaser 1600 Duplex Unit	295	346.62
DeskLaser 1600 Serial Interface	109	128.07
DeskLaser 1600 LocalTalk Interface	219	257.32
DeskLaser 1600 Ethernet Interface	289	339.57
2000/2060 250sht Universal Cassette	89	104.57
2000/2060 500sht A4 Cassette	89	104.57
2000/2060 250sht Universal Feeder	219	257.32
2000/2060 500sht A4 Feeder	219	257.32
2000/2060 Duplex Unit	219	257.32
2000/2060 1200dpi Upgrade Kit	559	656.82
2060 Serial interface	65	76.37
2425 Serial Interface	65	76.37
2060/2425/MagiColor2 Hard Disk	439	515.82
2060/2425/MagiColor2 LocalTalk I/F	235	276.12
2050/2425 MultiPACS Upgrade	1319	1549.82
CrownNet Ethernet Interface	525	616.87
MagiColor 2 Universal Media Cassette	75	88.12
MagiColor 2 Lower Feeder	219	257.32

SHARP

	ex VAT	inc VAT
JX-9680 Twin Cassette	549	645.07
JX-9685 Duplex	799	938.82
JX-9865N Duplex Ethernet	899	1056.32

TALLY

	ex VAT	inc VAT
T9006	169	198.57
T9208	219	257.32

PAGEPRO 6 / 6L / 6EX

MAXIMUM PERFORMANCE, MINIMUM SIZE.

- 6ppm print speed
- 600dpi resolution
- QuickPage, PCL5e (6/6ex only)
- 150 sheet multi-purpose tray
- Parallel Interface
- Additional Parallel & Infra Red on 6ex



PagePro 6L	£169	(£198.57 inc VAT)
PagePro 6	£215	(£252.62 inc VAT)
PagePro 6ex	£255	(£299.62 inc VAT)

PAGEPRO 8 / 8L / 8E

FAN-LESS SYSTEM FOR QUIETER OPERATION

- 8ppm print speed
- 600dpi, 1200dpi Fine-ART quality
- Adobe PrintGear & PCL 4.5 on 8L
- PCL6 emulation on 8/8e
- 2Mb RAM
- 150 sheet multi-purpose tray
- Parallel Interface
- Additional 500 sheet & Infra Red interface on 8E

PagePro 8L	£205	(£240.87 inc VAT)
PagePro 8	£245	(£287.87 inc VAT)
PagePro 8e	£319	(£374.82 inc VAT)

PAGEPRO 12

THE TEAM LEADER.

- 12ppm print speed
- 600dpi, 1200dpi Fine-ART quality
- PCL5e (optional PostScript)
- 4Mb RAM
- 750 sheet input capacity
- Parallel Interface (optional Ethernet)



PagePro 12	£559	(£656.82 inc VAT)
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PAGEPRO 20

THE INTELLIGENT SPACE SAVER.

- Upto A3 wide format
- 20ppm print speed
- 600dpi, 1200dpi Fine-ART quality
- PCL5e (optional PostScript)
- 4Mb RAM
- 100MHz RISC controller
- 650 sheet input capacity (optional duplex)
- Parallel Interface (optional ethernet)



PagePro 20	£709	(£833.07 inc VAT)
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COLOR PAGEPRO

THE MEDIA STAR.

- 3ppm colour/12ppm mono
- 600dpi, 1200dpi Fine-ART quality
- PCL5e (PostScript level 2 on PS)
- 4Mb RAM (20Mb on PS)
- Intel RISC processor
- 400 sheet input capacity
- Parallel & LocalTalk (optional ethernet)



Color PagePro	£1549	(£1820.07 inc VAT)
Color PagePro PS	£1929	(£2266.57 inc VAT)

MINOLTA

LASER PRINTERS continued

TALLY continued

	ex VAT	inc VAT
T9112	449	527.57
T9116D	615	722.62
T8104 Colour	2269	2666.07
T8104 Plus Colour	3079	3617.82

TEKTRONIX

	ex VAT	inc VAT
Phaser 740L Ethernet	995	1169.12
Phaser 740N Ethernet	1395	1639.12
Phaser 740P Ethernet	1995	2344.12
Phaser 740DX Duplex Ethernet	3395	3989.12
Phaser 780N A3 Ethernet	3595	4224.12
Phaser 780GN A3 Ethernet	4695	5516.62
Phaser 780P A3 Ethernet	5395	6339.12

Accessories

	ex VAT	inc VAT
Phaser 740 Duplex Unit	449	527.57
Phaser Printer Station	325	381.87
Phaser 4.2GB HD	519	609.82
Phaser 740L Colour Upgrade Kit	415	487.62
Phaser 740N to 740P Upgrade	635	746.12
Phaser 780N to 780P Upgrade	1949	2290.07
Phaser 780N to 780GN Upgrade	1109	1303.07
Phaser 780GN to 780P Upgrade	839	985.82
PhaserShare 100baseT Ethernet Card	259	304.32
PhaserShare LocalTalk/Serial Card	169	198.57
Memory		
Phaser 740/780 16Mb	125	146.87
Phaser 740/780 32Mb	249	292.57
Phaser 740/780 64Mb	499	586.32
Phaser 740/780 128Mb	985	1157.37

XEROX

	ex VAT	inc VAT
P8e	229	269.07
P12e	409	480.57
4508	265	311.37
4512 Duplex	709	833.07
4512N Duplex Ethernet	789	927.07
4512MP PostScript	995	1169.12
N17B	775	910.62
N17 Ethernet	749	880.07
N24 Ethernet	1619	1902.32
N32 Ethernet	1795	2109.12
N32CN Ethernet Duplex	2819	3312.32
N32FN Duplex Finisher Stapler	4359	5121.82
N40 Ethernet	2009	2360.57
N40CN Ethernet Duplex	3015	3542.62
N40FN Duplex Finisher Stapler	4589	5392.07
DocuPrint C55	1629	1914.07
DocuPrint C55MP PostScript	2175	2555.62
DocuPrint C55MPV PostScript	3055	3589.62

Accessories

	ex VAT	inc VAT
4508 Serial Interface	75	88.12
4508 250sht Feeder	99	116.32
4512 Apple/Serial Interface	75	88.12
4512 Envelope Feeder	59	69.32
4512 1000sht Feeder	349	410.07
4512 Apple/Serial Interface	75	88.12
4512 Ethernet Interface	245	287.87
N24/32/40 Envelope Feeder	345	405.37
N24/32/40 2500sht Feeder	799	938.82
N24/32/40 Duplex Unit	419	492.32
N24/32/40 Finisher/Stapler	1399	1643.82
N24/32/40 2.1Gb HDD	359	421.82
C55 Lower Feeder	439	515.82
C55 Apple/Serial Interface	89	104.57
C55 Ethernet Interface	359	421.82
Warranty		
4508 2yr OSM	110	129.25
4512 2yr OSM	150	176.25
N24/N32 2yr OSM	530	622.75
C55 2yr OSM	900	1057.50

SOLID INK PRINTERS

TEKTRONIX

	ex VAT	inc VAT
Phaser 840N Ethernet	1895	2226.62
Phaser 840DP Duplex Ethernet	2695	3166.62
Phaser 840DX Duplex HD Ethernet	3395	3989.12

Consumables

	ex VAT	inc VAT
016160500 Phaser 840 Cyan 5pk	124	145.70
016160600 Phaser 840 Magenta 5pk	124	145.70
016160700 Phaser 840 Yellow 5pk	124	145.70
016158200 Phaser 840 Cyan 2pk	57	66.97
016158300 Phaser 840 Magenta 2pk	57	66.97
016158400 Phaser 840 Yellow 2pk	57	66.97

PLOTTERS

HEWLETT PACKARD

	ex VAT	inc VAT
DesignJet 430 A1	1120	1316.00
DesignJet 430 A0	1642	1929.35
DesignJet 450C A1	1492	1753.10
DesignJet 450C A0	1942	2281.85
DesignJet 455CA A1	1942	2281.85
DesignJet 455CA A0	2242	2634.35
DesignJet 750C+ A1	3142	3691.85
DesignJet 750C+ A0	3742	4396.85
DesignJet 755CM A0	5017	5894.98
DesignJet 2000CP	5392	6335.60
DesignJet 2500CP	6292	7393.10

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- ✓ Over 200,000 satisfied customers
- ✓ Highly trained specialist staff
- ✓ Repair & upgrade services

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DR-100	HL-630/631/660 Drum	84	98.70
DR-200	HL-730/760 Drum	74	86.95
DR-300	HL-820/1040/50/60/70 Drum	78	91.65
EP-ED	HL-1260/1660 Toner	62	72.85
TN-100	HL-630/631/660 Toner	18	21.15
TN-200	HL-730/760 Toner	13	15.27
TN-300	HL-820/1040/50/60/70 Toner	14	16.45
9832	HL-2400C Black Toner	90	105.75
9833	HL-2400C Cyan Toner	72	84.60
9834	HL-2400C Magenta Toner	72	84.60
9835	HL-2400C Yellow Toner	72	84.60
9837	HL-2400C Fuser	58	68.15
9838	HL-2400C Waste	12	14.10

CANON		ex VAT	inc VAT
EPA	LBP-460/465/660 Toner	30	35.25
EPE	LBP-1260 Toner	54	63.45

EPSON		ex VAT	inc VAT
S050010	EPL-5700 Toner	55	64.62
S051016	EPL-5600 Toner	67	78.72
S051016	EPL-N1200 Toner	66	77.55
S051022	EPL-9000 Toner	129	151.57
S051035	EPL-N2000 Toner	114	133.95
S051055	EPL-5700 Drum	42	49.35
S051056	EPL-N1600 Toner	78	91.65

HEWLETT PACKARD		ex VAT	inc VAT
92274A	LJ 4L/4P Toner	43	50.52
92275A	LJ IIP/IIP Toner	52	61.10
92291A	LJ IISi/4Si Toner	69	81.07
92295A	LJ I/III Toner	44	51.70
92298A	LJ 4/4+/5 Toner	42	49.35
C3900A	LJ 4V/4MV Toner	43	50.52
C3903A	LJ 5P/5MP/6P/6MP Toner	50	58.75
C3906A	LJ 5L/6L Toner	39	45.82
C3909A	LJ 5Si/8000/Moper 240 Toner	95	111.62
C3964A	Colour LJ5 Coating Kit	30	35.25
C3965A	Colour LJ5 Black Developer	109	128.07
C3966A	Colour LJ5 Colour Developer	314	368.95
C3967A	Colour LJ5 Print Drum	198	232.65
C3968A	Colour LJ5 Transfer Belt	105	123.37
C3969A	Colour LJ5 Fuser Unit	165	193.87
C4127A	LJ 4000 6k Toner	55	64.62
C4127X	LJ 4000 10k Toner	77	90.47
C4129X	LJ 5000 Toner	93	109.27
C4191A	LJ 4500 Black	65	76.37
C4192A	LJ 4500 Cyan	79	92.82
C4193A	LJ 4500 Magenta	79	92.82
C4194A	LJ 4500 Yellow	79	92.82
C4195A	LJ 4500 Drum	62	72.85
C4196A	LJ 4500 Transfer Kit	142	166.85
C4198A	LJ 4500 Fuser	164	192.70

KYOCERA		ex VAT	inc VAT
TK-11	FS-400	12	14.10
TK-12	FS-1550/1600/3400/3500/6500	38	44.65
TK-16	FS-600/800 Toner	28	32.90
TK-20	FS-1700/3700 Toner	39	45.82
TK-20G	FS-1700/3700 High Yield	44	51.70
TK-30	FS-7000 Toner	69	81.07
TK-9	FS-1500/3500 Toner	26	30.55

LEXMARK		ex VAT	inc VAT
1361750	Optra SC1275 Photoconductor	74	86.95
1361751	Optra SC1275 Black Toner	40	47.00
1361752	Optra SC1275 Cyan Toner	40	47.00
1361753	Optra SC1275 Magenta Toner	40	47.00
1361754	Optra SC1275 Yellow Toner	40	47.00
1382100	Optra Diamond Fine 7k Toner	112	131.50
1382140	Optra N 15k Toner	138	162.15
1382150	Optra Diamond Fine 15k Toner	152	178.60
69G8256	Optra E Toner	39	45.82
1382620	Optra S 7k Toner	129	151.57
1382920	Optra S 7.5k Prebate Toner	99	116.32
1382625	Optra S 17k Toner	154	180.95
1382925	Optra S 17.6k Prebate Toner	124	145.70

OKI		ex VAT	inc VAT
4851	600/6e/6ex/810/Fax Toner	14	16.45
4858	600/6e/6ex/810/Fax Drum	99	116.32
5075	16n Toner	32	37.60
5089	4w/Fax 4100 Toner	13	15.27
5096	4w/Fax 4100 Drum	67	78.72
5115	16n Drum	199	233.82
5122	10i Toner	14	16.45
5129	10i Drum	102	119.85
5136	20n Toner	32	37.60
5143	20n Drum	194	227.95
5150	8c Black	9	10.57
5157	8c Yellow	11	12.92
5164	8c Magenta	11	12.92
5171	8c Cyan	11	12.92

PANASONIC		ex VAT	inc VAT
KX-P459	KX-P6300/6500 Toner	12	14.10
KX-PEP5	KX-P6300/6500 Process Unit	109	128.07
KX-PEP6	KX-P7200 Process Unit/Toner	130	152.75

QMS		ex VAT	inc VAT
1710171-001	2060/DeskLaser 2000 Toner	140	164.50
1710188-001	MagiColor2 Yellow Toner	104	122.20

## LASER CONSUMABLES

QMS continued		ex VAT	inc VAT
1710188-002	MagiColor2 Magenta Toner	104	122.20
1710188-003	MagiColor2 Cyan Toner	104	122.20
1710188-004	MagiColor2 Black Toner	118	138.65

TALLY		ex VAT	inc VAT
044726	T-9108/9208 Toner/Drum	93	109.27
044787	T-Win Toner 4pk	19	22.32
044876	T-9006	54	63.45
044953	T-8104 Cyan	105	123.37
044954	T-8104 Magenta	105	123.37
044955	T-8104 Yellow	105	123.37
044956	T-8104 Black	105	123.37
044957	T-8104 Drum	242	284.35
044958	T-8104 Fuser Oil & Cleaner	63	74.02
044857	T-9104 Toner 2pk	52	61.10

TEKTRONIX		ex VAT	inc VAT
016168400	Phaser 740 Black 6K Toner	48	56.40
016168500	Phaser 740 Cyan 6K Toner	107	125.72
016168600	Phaser 740 Magenta 6K Toner	107	125.72
016168700	Phaser 740 Yellow 6K Toner	107	125.72
016165600	Phaser 740 Black 12K Toner	77	90.47
016165700	Phaser 740 Cyan 10K Toner	179	210.32
016165800	Phaser 740 Magenta 10K Toner	179	210.32
016165900	Phaser 740 Yellow 10K Toner	179	210.32
016166100	Phaser 740 Fuser	155	182.12
016166300	Phaser 740 Fuser Roll	49	57.57
016166200	Phaser 740 Colour Imaging Kit	149	175.07
016167800	Phaser 780 Black Toner	70	82.25
016167900	Phaser 780 Cyan Toner	126	148.05
016168000	Phaser 780 Magenta Toner	126	148.05
016168100	Phaser 780 Yellow Toner	126	148.05
016168600	Phaser 780 Fuser Roll	49	57.57
016168400	Phaser 780 Colour Imaging Kit	140	164.50

XEROX		ex VAT	inc VAT
101R00090	4512 Drum	94	110.45
106R00088	4512 Toner	90	105.75
113R00184	N24/N32 Toner	204	239.70
113R265	4508 Toner	75	88.12
6R856	C55 Black Toner	13	15.27
8R7724	C55 Fuser Oil	35	41.12
8R7759	C55 Toner Collector	12	14.10
8R857	C55 Cyan Toner	48	56.40
8R858	C55 Magenta Toner	48	56.40
8R859	C55 Yellow Toner	48	56.40

## INKJET PRINTERS

CANON		ex VAT	inc VAT
BJC-50		192	225.60
BJC-80		142	166.85
BJC-80 & Colour Scanner		185	217.37
BJC-250		71	83.42
BJC-4300		89	104.57
BJC-4300 & Colour Scanner		122	143.35
BJC-4650		197	231.47
BJC-4650 & Colour Scanner		235	276.12
BJC-5000		169	198.57
BJC-5500		409	480.57
BJC-7000		164	192.70

EPSON		ex VAT	inc VAT
Stylus Colour 440		103	121.02
Stylus Colour 640		133	156.27
Stylus Photo 700		163	191.52
Stylus Photo 740		177	207.97
Stylus Colour 850		207	243.22
Stylus Photo EX		308	361.90
Stylus Colour 1520		451	529.92
Stylus Colour 3000		1118	1313.65
Stylus Colour Pro 5000		1591	1869.42
800/850 PostScript RIP		89	104.57
3000/5000 PostScript RIP		189	222.07

HEWLETT PACKARD		ex VAT	inc VAT
Deskjet 340C		135	158.62
Deskjet 340CBI		166	195.05
Deskjet 420C		66	77.55
Deskjet 690C		96	112.80
Deskjet 710C		134	157.45
Deskjet 720C		156	183.30
Deskjet 895Cxi		186	218.55
Deskjet 1120C		295	334.87
Deskjet 2000C		450	528.75
Deskjet 2000CN		675	793.12
Deskjet 2500C		705	828.37

LEXMARK		ex VAT	inc VAT
Colour JetPrinter 1100		75	88.12
Colour JetPrinter 3200		135	158.62
Colour JetPrinter 5700		169	198.57
Colour JetPrinter 7200		195	229.12
Optra Colour 40		289	339.57
Optra Colour 40N		449	527.57
Optra Colour 45 A3		629	739.07
Optra Colour 45N A3		999	1173.82

XEROX		ex VAT	inc VAT
XJ6C		114	133.95
XJ8C		162	190.35

# Tally

Professional Printing Solutions

## T9006

mono laser printer

- Low cost of ownership
- Small and compact
- 6 pages per minute
- 600 dpi resolution
- PCL6 emulation
- 2MB RAM
- Win 3.x, Win 95, WinNT 4 driver software
- Silent operation
- Parallel interface
- 1 year on site warranty

**FREE**  
Mobile Phone  
with T9006\*



Tally T9006 laser printer

**T9006 £169** (£198.57) \*Offer ends 31.10.98, call for details



Tally T9208 laser printer

(shown with optional 2nd sheet tray)

## T9208

mono laser printer

- 8 pages per minute
- Small and compact
- 600 dpi resolution
- 2MB RAM
- PCL5e emulation
- Microsoft Windows Printing System
- Parallel interface

**T9208 £219** (£257.32)



## T9112 & T9116D

mono laser printers

- T9112: 12 pages per minute  
250 sheet universal cassette  
75MHz RISC CPU
- T9116D: 16 pages per minute  
550 sheet universal cassette  
125MHz RISC CPU  
Optional Duplex
- 600 x 600 dpi, 4800 x 600 dpi using EET
- 4MB RAM (max 68MB)
- PCL 6 and PCL5e emulation
- Optional Postscript
- Parallel & Serial interfaces

**T9112 £449** (£527.57)

**T9116D £615** (£722.62)

**5% CASHBACK**

Conditions apply, please call for details.

## T8104/plus

colour laser printers

- T8104: 600 x 600 dpi resolution  
24MB RAM
- T8104 plus: 2400 x 600 dpi resolution  
80MB RAM  
IDE Internal Hard Drive

- Up to 8 ppm colour, 16 ppm mono
- 133 MHz RISC processor
- PostScript Level 2 and PCL5c emulation
- Parallel, Serial & Ethernet interfaces

**T8104 £2269** (£3132.63)

**T8104 plus £3079** (£3617.82)



Tally T8104 colour laser printer

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## EPSON

### EPSON STYLUS COLOR 740 State-of-the-art Colour Inkjet Printer for Advanced Home and Business Users

#### EPSON Ultra MicroDot™ The World's Smallest Ink Droplet

- EPSON Ultra Microdot™ - the world's smallest ink droplet in black and colour
- 1440 dpi with variable-sized droplet technology
- Advanced PhotoReal colour printing • 40% speed improvements
- Parallel, serial & USB interfaces • Win 95, 98, NT 4.0 & MAC compatible
- Highest quality output on all media types including plain paper
- Advanced 4 colour dual-cartridge ink system
- New printer driver enhancements • New full function status monitor
- Free **NEW Advanced 'PerfectPicture Pak'** software & paper media bundle
- 1 year RTB with optional 3 year extended warranty
- **EPSON Coverplus** three year extended warranty service available - £59 +VAT



iMac compatible



£177 (€207.97 inc VAT)

### EPSON STYLUS COLOR 640 Superior Colour Inkjet Printer for a Broad Range of Home Applications

#### 1440 dpi Photo-Real output with no hidden extras.

- 1440 dpi colour & true black printing with EPSON Super MicroDot™
- Fast print speeds • EPSON PhotoEnhance 3 for Optimisation for digital images
- Windows 95 & 98 compatibility • High quality output on all media types including plain paper
- Free **NEW Advanced 'PerfectPicture Pak'** software bundle • Advanced Dual-Cartridge ink system
- New printer driver enhancements • New full function status monitor
- 1 year RTB with optional 3 year extended warranty
- **EPSON Coverplus** three year extended warranty service available - £35 +VAT



£133 (€156.27 inc VAT)

### EPSON STYLUS COLOR 440 A Perfect Introduction to Colour Printing at Home

#### Low cost, easy to use, high-quality 720dpi colour inkjet printer

- 720 dpi PhotoReal colour & black printing • Designed for ease of use - ideal for first time buyer
- Easy to use Interactive Online help • Fast print speeds
- Free **NEW Advanced 'PerfectPicture Pak'** software bundle
- Free **PhotoQuality Paper Pack** • High quality output on all media types including plain paper
- Advanced dual-cartridge ink system • New printer driver enhancements • New full function status monitor
- Windows '95 ICM colour compliance • 1 year RTB with opt 3 year extended warranty
- **EPSON Coverplus** three year extended warranty service available - £35 +VAT



£103 (€121.02 inc VAT)

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- ✓ Over 200,000 satisfied customers
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## EPSON

### EPSON EPL-N1600



**NEW**

EPL-N1600 **£596**  
(£700.30 inc VAT)

EPL-N1600T **£716**  
(£841.30 inc VAT)

EPL-N1600ENT **£835**  
(£981.12 inc VAT)

**A fast 1200dpi, 6ppm Laser Printer for workgroups or demanding stand alone users**

- Fast print speeds - 16ppm
- Superb 1200dpi with EPSON MicroGray & RITech printing technologies
- Comprehensive network connectivity
- Advanced remote network management & status monitor
- Extensive paper input capacity of up to 830 sheets with 3 paper sources
- Duplex option available for two-sided printing
- Parallel & serial interfaces as standard with integral expansion slot
- Network & PostScripts ready configurations

### EPSON STYLUS PHOTO 700



**£163**  
(£191.52 inc VAT)

**EPSON COVERPLUS +**  
EPSON CoverPlus three year extended warranty service available £59.00 (£69.32 inc VAT)

**New Generation Home Printer for Photos and Text**

- Perfect for photo reproduction, editing and output up to A4
- Windows 3.1, Windows NT and Macintosh compatible
- 1440 dpi and Super MicroDot for the highest photo quality output
- Epson PhotoEnhance 2 - automatically optimises photo output
- Includes Adobe Photo Deluxe V2.0

### EPSON STYLUS COLOR 1520



**£451**  
(£529.92 inc VAT)

**EPSON COVERPLUS +**  
EPSON CoverPlus three year extended warranty service available £99.00 (£116.32 inc VAT)

**1440dpi A3+ Wide Format Printer**

- 1440dpi print quality up to 6ppm black & 6ppm colour
- A3+ printing • PC and Mac compatible as standard
- 'Look Your Best Color Pack'
- Optional PostScript RIP software
- Optional Network connectivity

### EPSON EPL-5700



EPL-5700 **£304**  
(£357.20 inc VAT)

EPL-5700EN **£456**  
(£535.80 inc VAT)

EPL-5700PS **£456**  
(£535.80 inc VAT)

**1200 dpi High Performance Laser Printer**

- 8ppm with 100MHz RISC processor • True 600 x 600dpi
- 1200dpi with MicroGray 1200 and RITech
- 4MB RAM - upgradeable to 36MB
- Up to 650 sheets capacity with optional paper cassette
- Advanced features 'Watermark', 'Multiple Pages per Sheet', 1200dpi class'
- Parallel & Serial interfaces as standard
- Standard, Network & PostScript ready configurations
- 1 year RTB warranty with Optional Epson Cover Plus for 3 year warranty

**EPSON COVERPLUS +**  
EPSON CoverPlus three year extended warranty service available £59.00 (£69.32 inc VAT)

### EPSON STYLUS COLOR 850



**£207**  
(£243.22 inc VAT)

**EPSON COVERPLUS +**  
EPSON CoverPlus three year extended warranty service available £35.00 (£41.12 inc VAT)

**The Ideal Professional and Business Printer**

- Up to 9ppm mono and 8.5ppm colour
- 1440 dpi colour printing on plain paper
- PhotoReal Colour & Laser-sharp Black output as standard
- Windows 3.1, Windows NT and Macintosh compatible
- Optional network and Postscript capability
- PC and Mac support as standard • High capacity dual ink cartridge system
- New full function status monitor • 1 year RTB warranty

### EPSON STYLUS PHOTO EX



**£308**  
(£361.90 inc VAT)

**EPSON COVERPLUS +**  
EPSON CoverPlus three year extended warranty service available £99.00 (£116.32 inc VAT)

**Brilliant Professional A3 Colour Images at 1400dpi**

- Photo Reproduction Quality Output - up to A3 printing
- 1440 dpi & smaller Super MicroDot for photo quality
- EPSON PhotoEnhance 2 optimises photo output
- Includes Adobe Photoshop LE
- Windows 3.1, Windows NT and Mac compatible

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## Colour Bubble Jet Printers



### BJC-80

**"Complete independence when you're out and about"**

- Drop Modulation Technology™, Image Optimiser technology optional colour image scanning cartridge
- 30 sheet Automatic Sheet Feeder
- Cable free printing using built-in IrDA sensor
- One Year return to Canon Warranty

£142 (£166.85 inc VAT)



### BJC-250

**"Everyday printing that's out of the ordinary"**

- Up to 3.4 pages per minute
- Free colour cartridge
- Optional Photo cartridge
- One Year return to Canon Warranty

£71 (£83.42 inc VAT)



### BJC-4300

**"Intense colour that shines out every time"**

- Drop Modulation Technology™, Image Optimiser technology & optional colour image scanning cartridge
- Optional Photo cartridge
- One Year return to Canon Warranty

£89 (£104.57 inc VAT)



### BJC-4650

**"The intelligent choice for A3 output"**

- New Drop Modulation Technology™ and Image Optimiser technology optional colour image scanning cartridge
- PC and Mac compatibility
- One Year return to Canon Warranty

£197 (£231.47 inc VAT)



### BJC-50

**"Great new portable printer"**

- Compact, lightweight printer - weighs only 900g
- Built-in Lithium Ion battery prints up to 100 pages on a single charge
- Drop Modulation Technology™, ensures desktop printing quality for colour and photo images
- Universal Power adaptor enables worldwide operation
- Optional colour image scanning cartridge
- Optional 30 page Automatic Sheet Feeder
- Cable free printing using built-in IrDA sensor
- One Year On-Site Warranty

£192 (£225.60 inc VAT)



### BJC-7000

**"The colour printer to outclass all others"**

- Unprecedented Bubble Jet printing quality
- New P-POP technology delivers high quality printed images onto plain paper
- Prints full colour photographs hard to distinguish from the originals
- High capacity ink cartridges
- Incredible flexibility, accepts media from 64-550gsm
- Water-fast printing ensures inks will not run or streak when wet
- One Year return to Canon Warranty

£164 (£192.70 inc VAT)



*Promotion*

## FREE MOVIE RENTAL until the YEAR 2000

Buy a promotional BJC-250, 4300, 4300SCAN, 4650, 5000 or 7000 and you can apply for a Canon Blockbuster Value Card. This will entitle you to hire a movie FREE from your Blockbuster Video store for up to a year.

- One movie per week from date of first rental
- Any film category
- Maximum of 52 rentals until 31st December 1999

Open to UK residents aged 18 or over. Business purchases excluded.  
Offer subject to availability.  
Closing Date for applications 30th April 1999  
Value Card cannot be used after 31st December 1999  
Full terms and conditions available on request

**NEW**



## BJC-5000

**"Canon's new personal business printer"**

- Unique dual cartridge system enables high speed printing
- Rapid 7.5ppm mono and 3.0ppm colour output
- Wide range of print head configurations provides total user flexibility
- New pigmented black cartridge gives especially crisp black text
- Manual feed handles up to A3 size paper and accepts media up to 550gsm
- New Drop Modulation Technology™, maximises printing quality for colour and photo images
- Optional 7 ink photo system provides stunning 1440 dpi photo output
- Extensive media support from plain paper to banners
- One year on-site Warranty

£169 (£198.57 inc VAT)

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## ORIGINAL INKJET CARTRIDGES

CANON		ex VAT	inc VAT
BC-01	BJ-10/20 Black	12	14.10
BC-02	BJ-150/200/210/240/250 Black	12	14.10
BC-05	BJC-150/210/240/250 Colour	14	16.45
BC-06	BJC-240/250 PhotoReal	13	15.27
BC-06KIT	BJC-240/250 PhotoReal Kit	19	22.32
BC-10	BJ-30/50/70/80 Black	20	23.50
BC-11	BJC-50/70/80 Colour	23	27.02
BC-20	BJC-4000/5500 Black	18	21.15
BC-21	BJC-4000/5500 Colour	24	28.20
BC-22	BJC-4550/4200/4300 Photo	15	17.62
BC-23	BJC-5000 HiCap Black	19	22.32
BC-22PKIT	BJC-4550/4200/4300 Photo Kit	19	22.32
BC-29F	BJC-4000/5500 Fluorescent	24	28.20
BC-60	BJC-7000 Black	19	22.32
BC-61	BJC-7000 Colour	21	24.67
BC-62	BJC-7000 Photo	29	34.07
BCI-10BK	BJ-30/50/70/80 Black Tank 3pk	9	10.57
BCI-11BK	BJC-50/70/80 Black Tank 3pk	7	8.22
BCI-11C	BJC-50/70/80 Colour Tank 3pk	11	12.92
BCI-21BK	BJC-4000/5500 Black Tank	5	5.87
BCI-21C	BJC-4000/5500 Colour Tank	11	12.92
BCI-61	BJC-7000 Colour Tank	14	16.45
BCI-62	BJC-7000 Photo Tank	19	22.32
BJC-643C	BJC-800 Cyan	15	17.62
BJC-643M	BJC-800 Magenta	15	17.62
BJC-643Y	BJC-800 Yellow	15	17.62
BJI-201BLK	BJC-600/610/620 Black HiCap	5	5.87
BJI-201C	BJC-600/610/620 Cyan	5	5.87
BJI-201M	BJC-600/610/620 Magenta	5	5.87
BJI-201Y	BJC-600/610/620 Yellow	5	5.87
BJI-481	BJ-130 Black	11	12.92
BJI-642	BJ-300/330 Black	8	9.40
BJI-643BK	BJC-800 Black	11	12.92

CITIZEN		ex VAT	inc VAT
3000055	Printiva Black	4	4.70
3000056	Printiva Cyan	5	5.87
3000057	Printiva Magenta	5	5.87
3000058	Printiva Yellow	5	5.87
3000059	Printiva Gold	10	11.75
3000060	Printiva Silver	10	11.75
3000061	Printiva Red	10	11.75
3000062	Printiva Blue	10	11.75
3000092	Printiva MultiColoured	10	11.75

EPSON		ex VAT	inc VAT
S020025	Stylus 400/800/1000 Black	7	8.22
S020031	Stylus 300 Black	15	17.62
S020034	Stylus Col/Pro/Pro XL Black	9	10.57
S020036	Stylus Col/Pro/Pro XL Colour	17	19.97
S020047	Stylus 200/820/1115 Black	12	14.10
S020049	Stylus 820/1115/1500 Black	16	18.80
S020062	Stylus 1500 Black	27	31.72
S020066	Stylus Colour Pro XL+ Colour	18	21.15
S020089	Stylus 4/6/800/860/1520 Colour	14	16.45
S020093	Stylus 400/500/600/Photo Black	13	15.27
S020097	Stylus 200/500 Colour	18	21.15
S020108	Stylus 800/850/1520 Black	14	16.45
S020110	Stylus Photo Scolor	12	14.10
S020118	Stylus 3000/5000 Black	32	37.60
S020122	Stylus 3000/5000 Yellow	32	37.60
S020126	Stylus 3000 Magenta	32	37.60
S020130	Stylus 3000 Cyan	32	37.60
S020138	Stylus Colour 300 4colour	13	15.27
S020143	Stylus 5000 Magenta	32	37.60
S020147	Stylus 5000 Cyan	32	37.60
S020187	Stylus 440/640 Black	13	15.27
S020189	Stylus 740 Black	14	16.45
S020191	Stylus 440/640/740 Colour	14	16.45

HEWLETT PACKARD		ex VAT	inc VAT
51606A	Paintjet XL Black	21	24.67
51606B	Paintjet XL Cyan	22	25.85
51606R	Paintjet XL Magenta	22	25.85
51606Y	Paintjet XL Yellow	22	25.85
51625A	Deskjet 400/5xx Colour	19	22.32
51626A	Deskjet 400/5xx Black	18	21.15
51629A	DJ 600/660/670/690 Black	18	21.15
51633M	DJ Port/310/320/340 Black	15	17.62
51640A	DJ 1200C/650/2x0/3x0 Black	18	21.15
51640C	DJ 1200C/1600C Cyan	19	22.32
51640M	DJ 1200C/1600C Magenta	19	22.32
51640Y	DJ 1200C/1600C Yellow	19	22.32
51641A	DJ 820/870/1100 Colour	18	21.15
51645A	DJ 710/720/8x0/1100/1600 Blk	18	21.15
51649A	DJ 600/660/670/690 Colour	18	21.15
C1816A	DJ 690 Photo	20	23.50
C1823A	DJ 710/720/890/895 Colour	22	25.85
C4584A	DJ 690 Photo Kit	32	37.60
C4841A	DJ 2000/2500 No.10 Cyan	22	25.85
C4842A	DJ 2000/2500 No.10 Magenta	22	25.85
C4843A	DJ 2000/2500 No.10 Yellow	22	25.85
C4844A	DJ 2000/2500 No.10 Black	22	25.85

LEXMARK		ex VAT	inc VAT
12A1970	ColourJet 7000/200 Black	19	22.32
12A1980	ColourJet 7000/200 Colour	22	25.85
12A1990	ColourJet 5700 Photo	27	31.72
13400HC	CoJet 1000/1020/2050 Black	19	22.32
1380490	4079 Black	15	17.62

## LEXMARK

### 1100 COLOR JETPRINTER

The Lexmark 1100 Color Jetprinter delivers excellent print quality at an unbelievable price

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- Up to 3.5ppm mono, 1.5ppm colour
- On screen ink level indicator
- Banner printing capability
- CD full of software
- Ready for Windows 98
- Disney interactive software

**£75 (€88.02 inc VAT)**

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### 3200 COLOR JETPRINTER

Designed for the experienced home user, it offers easy and dependable operation, reliable feeding of a variety of media, photo-realistic images and laser quality text.

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- Up to 6 ppm mono, 5 ppm colour
- 5x colour photo capable
- Integrated exit tray & paper support
- 100 sheet input, 25 sheet output
- Windows 3.1, Windows 95, Windows NT compatibility

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### 5700 COLOR JETPRINTER

The Lexmark 5700 delivers the highest resolution ever available from a desktop inkjet printer - without compromising speed.

- New EX2 technology with laser crafted print cartridges which give 1200 x 1200 dpi printing
- Up to 8ppm mono, 4ppm colour
- Upgradeable to 6-colour photographic printing
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Next Day Unit Exchange	9am to 5pm, Monday to Friday except Public Holidays. Permanent replacement unit supplied

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**Benefits to You** • Allows you to enhance your service over and above standard HP product warranty • Provides fixed cost of ownership for 3 years • Gives you peace of mind that you have the best support available • Service delivered to you, at your site, throughout Europe • Expert assistance • Rapid professional response

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LEXMARK continued		ex VAT	inc VAT
1380491	4079 Cyan	22	25.85
1380492	4079 Magenta	22	25.85
1380493	4079 Yellow	22	25.85
1380619	CoJet 1000/1020/2050 Colour	23	27.02
1382050	ColourJet 2070 Black	24	28.20
1382060	ColourJet 2070 Colour	27	31.72

## STATIONERY

CANON		ex VAT	inc VAT
BF-102 A4	A4 Back Print 20sht	28	32.90
BF-102 A3	A3 Back Print 20sht	46	54.05
CF-102 A4	A4 Transp 50sht	29	34.07
DF-102 A4	A4 Back Print 20sht	28	32.90
FS-101 A4	A4 Fabric 10sht	33	38.77
GP-201 A4	A4 Glossy 20sht	6	7.05
HG-101 A3	A3 High Gloss 20sht	33	38.77
HG-101 A4	A4 Glossy Film 20sht	17	19.97
HR-101 A3	A3 Coated 720dpi 100sht	18	21.15
HR-101 A4	A4 Coated 720dpi 200sht	18	21.15
LC-101 A3	A3 Coated 200sht	37	43.47
LC-101 A4	A4 Coated 200sht	19	22.32
LC-301 A3	BJC-4550 A3 Coated 200sht	21	24.67
TR-201	Transfer Material 10sht	12	14.10

EPSON		ex VAT	inc VAT
S041054	A6 Photo Index Card 50sht	6	7.05
S041059	A4 360dpi 100sht	6	7.05
S041061	A4 Photo 1440dpi 100sht	8	9.40
S041063	A4 Transp 360dpi 30sht	32	37.60
S041065	A3 360dpi 100sht	19	22.32
S041066	A3+ 360dpi 100sht	21	24.67
S041068	A3 Photo 1440dpi 100sht	26	30.55
S041069	A3+ Photo 1440dpi 100sht	30	35.25
S041071	A4 Photo Glossy 1440dpi 15sht	22	25.85
S041073	A3 Photo Glossy 1440dpi 10sht	39	45.82
S041074	A3+ Photo Glossy 1440dpi 10sht	49	57.57
S041078	A2 360dpi 30sht	19	22.32
S041079	A2 Photo 1440dpi 30sht	24	28.20
S041102	Banner 15m 1440dpi	24	28.20
S041106	A4 Photo Self-Adhesive 10sht	8	9.40
S041107	A6 Photo Glossy Film 10sht	4	4.70
S041121	A5 Photo 30sht	5	5.87
S041121	5" x 8" Photo Card	5	5.87
S041122	8" x 10" Photo Card	12	14.10
S041123	A2 Photo Glossy	33	38.77
S041125	A3 Photo Glossy	17	19.97
S041126	A4 Photo Glossy	6	7.05
S041130	A2 Backlit Film 10sht	49	57.57
S041131	A3 Backlit Film 10sht	30	35.25
S041132	Stylus 3000 Canvas Cloth	38	44.65
S041133	A3+ Photo Glossy	20	23.50
S041134	A6 Photo 20sht	5	5.87
S041140	A4 Photo Glossy 20sht	8	9.40
S041142	A3 Photo Glossy 20sht	18	21.15
S041143	A3+ Photo Glossy 20sht	22	25.85
S041144	A6 Photo Sticker 5sht	5	5.87
S041145	Panoramic Photo Glossy 10sht	10	11.75
S051031	Stylus A4 Starter Pack	15	17.62
SE41001	A4 Iron on Transfer 10sht	10	11.75
SE41003	A3 Iron on Transfer 10sht	72	84.60

HEWLETT PACKARD		ex VAT	inc VAT
51634Z	Premium A4 200sht	12	14.10
C1821A	Banner A4 100sht	8	9.40
C1825A	Bright White A4 500sht	9	10.57
C1847A	DJ 690C Photo	7	8.22
C1856A	Premium A3 100sht	18	21.15
C1858A	Bright White A3 200sht	16	18.80
C3831A	Premium Glossy A4 10sht	6	7.05
C3832A	Premium Transp A4 20sht	14	16.45
C3835M	Premium Transp A4 50sht	32	37.60
C3837A	Premium Glossy A4 50sht	30	35.25
C5987A	Glossy Photo 20sht	4	4.70
C6027A	DesignJet 24" x150" Roll A1	29	34.07
C6028A	DesignJet 36" x150" Roll A0	39	45.82
C6040A	Premium Photo A4 15sht	6	7.05
C6057A	Premium Deluxe Photo 20sht	10	11.75
C6059A	Premium Photo A3 20sht	23	27.02

LEXMARK		ex VAT	inc VAT
1372081	A4 Coated 200sht	27	31.72
1372082	A3 Coated 200sht	56	65.80
1372084	A3 Transparency 50sht	50	58.75
1372361	A4 Glossy 50sht	25	29.37
1372208	A4 Photo 20sht	14	16.45

TEKTRONIX		ex VAT	inc VAT
016136900	A4 Premium 500sht	24	28.20
016137000	A3 Premium 500sht	44	51.70
016170500	A4 Glossy 100sht	71	83.42
016171900	A3 Glossy 50sht	71	83.42
016165500	Phaser 740 A4 Transp 50sht	41	48.17
016170200	Phaser 780 A4 Transp 50sht	41	48.17
016170210	Phaser 840 A4 Transp 50sht	32	37.60
016163700	Phaser 740 Fabric 100sht	47	55.22

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Freeway PAYE Master	45	52.87
Intuit QuickBooks v5.0	167	198.57
Intuit QuickBooks & Payroll v5.0	255	299.62
Intuit Quicken 98	22	25.85
Intuit Quicken 98 Deluxe	38	44.65
MS Money 99	25	29.37
MS Money 98 Financial Suite	32	37.60
Sage Accountant v5.0	375	440.62
Sage Accountant Plus v5.0	550	646.25
Sage Financial Controller	689	809.57
Sage Financial Controller Network	1439	1690.82
Sage Instant Accounting 98	69	81.07
Sage Instant Payroll v4.0	69	81.07
Sage Instant Accounting/Payroll	125	146.87
Sage Payroll	269	339.57
Sage Payroll Network	589	692.07

**ANTIVIRUS**

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Cheyenne Innocent v4.0 WinNT	358	420.65
Cheyenne Innocent v4.0 Netware Single	142	166.85
Dr Solomons AntiVirus Workstation	68	79.90
Dr Solomons AntiVirus Server	225	264.37
Dr Solomons AntiVirus MS Exchange 10u	239	280.82
Dr Solomons AntiVirus MS Exchange 20u	339	398.32
Dr Solomons AntiVirus MS Exchange 50u	559	656.82
McAfee VirusScan v3.0	23	27.02
McAfee VirusScan v3.0 OUIg	29	34.07
McAfee VirusScan Deluxe v3.0 OUIg	45	52.87
McAfee VirusScan Security Suite	45	52.87
McAfee WebScan v2.0	23	27.02
RMG PC-Cillin v3.0	29	34.07
Symantec Norton Anti Virus Deluxe	42	49.35
Symantec Norton Anti Virus Server v4.0	335	393.82

**BACKUP**

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Chey. ArcServe Small Business Netware	269	316.07
Chey. ArcServe Single Server Netware	261	306.67
Chey. ArcServe Workgroup Netware	295	346.62
Chey. ArcServe Enterprise Netware	712	836.60
Chey. ArcServe Workstation WinNT	56	65.80
Chey. ArcServe Single Server WinNT	261	306.67
Chey. ArcServe Enterprise WinNT	524	615.70
Chey. Backup DDS/Win v5.5	59	69.32
Chey. Backup Win95 v5.5	39	45.82
Chey. Backup Exec & Direct Tape Access	49	57.57
Chey. Direct Tape Access v3.0	35	41.12
Chey. Backup DS/2 Warp Professional	35	41.12
Chey. Backup Exec NT4	59	69.32
Seagate Backup Exec v2.0	35	41.12
Seagate Backup Exec v7.2 Server	256	300.80
Seagate Backup Exec v7.2 Multi-Server	513	602.77

**BUSINESS SOFTWARE**

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RMG Plan It Business Suite	269	316.07
RMG Plan It Health & Safety	99	116.32
RMG Plan It Job Descriptions	79	92.82
RMG Plan It Legal Letters	29	34.07
RMG Plan It Limited Company Formation	29	34.07
RMG Plan It Marketing Plan	79	92.82
RMG Plan It Staff Appraiser	66	77.55
RMG Plan It Start-up Business Plan	24	28.20

**CAD**

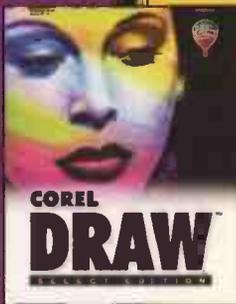
	ex VAT	inc VAT
Autodesk AutoCAD LT v2.0	279	327.82
Autodesk AutoCAD LT 98	425	499.37
Autodesk AutoCAD View v2.0	119	139.82
Autodesk Autosketch v3.0 DOS	60	70.50
Autodesk Autosketch v6.0	85	99.87
IMSI TurboCAD 2D/3D v4.0	98	115.15
IMSI TurboCAD Pro 2D/3D v4.0	189	222.07
IMSI TurboCAD Designer	29	34.07
Visio IntelliCAD 98	215	252.62

**COMMUNICATIONS**

	ex VAT	inc VAT
Artisoft CoSession Remote	41	48.17
Artisoft Insync ModemShare 1port	61	71.67
Artisoft I-Share	115	135.12
Artisoft Xtra Mail	129	151.57
Cheyenne Bitware + v4.0	80	94.00
Cheyenne FAXserve v5.0 5user Netware	229	269.07
Cheyenne FAXserve v5.0 10user Netware	429	504.07
Cheyenne FAXserve 5user WinNT	142	166.85
Cheyenne FAXserve 10user WinNT	250	293.75
Cheyenne FAXserve 25user WinNT	501	588.67
DCA Crosstalk Intercom Suite	87	102.22
Delrina WinFax Pro v4.0	54	63.45
Delrina WinFax Pro v4.1 Net Starter 2u	195	229.12
Delrina WinFax Pro v4.1 Net Server	87	102.22
Delrina WinFax Pro Net 5u	279	327.82
Delrina WinFax Pro v8.0	67	78.72
Delrina WinFax Pro v8.0 5u FD	279	327.82
Delrina WinFax Pro v8.0 10u FD	569	668.57
Delrina WinFax Pro v8.0 25u FD	1299	1526.32
Delrina WinFax Pro v8.0 5u CD	299	351.32
Delrina WinFax Pro v8.0 10u CD	569	668.57
Delrina WinFax Pro v8.0 25u CD	1299	1526.32
Equisys ZetaFax Starter Kit v5.0 1u	79	92.82
Equisys ZetaFax Starter Kit v5.0 5u	309	363.07
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Persoft Smartterm 95	125	146.87



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**SOFTWARE**

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STAC Reach Out Enterprise M/Net H+V	149	175.07
Symantec PC Anywhere H+R v8.0	92	108.10
Travelling Software Laplink v7.5	89	104.57

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Symantec Act v4.0 5 user	589	692.07
Tracker 97	99	116.32
Tracker 97 5 user network system	395	464.12
Tracker 97 10 user network system	695	816.62
Tracker 97 1 user incremental licence	Call	Call
Tracker 97 5 user incremental licence	343	410.07
Tracker 97 10 user incremental licence	Call	Call

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Borland Visual dbase Professional v7.0	249	292.57
Borland Visual dbase Client/Server v7.0	995	1169.12
Corel Paradox v8.0	85	76.37
Dataease v5.1 Win	279	327.82
Dataease v5.1 DOS	449	527.57
Filemaker Pro v4.1	145	170.37
Lotus Approach v3.0	69	81.07
Lotus Approach 97	39	45.82
MS Access 97	229	269.07
MS Visual FoxPro Pro v5.0	329	386.57

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Visio Technical v5.0	215	252.62
Visio Professional v5.0	215	252.62

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Adobe Pagemaker v5.5	369	433.57
Adobe Pagemaker Online (WSL)	350	411.25
Adobe Publishing Collection	689	809.57
Corel Ventura v8.0	289	339.57
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Adobe Dimensions v3.0	85	99.87
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Fractal Jag	44	51.70
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Fractal RayDream Dream Studio v5.0	215	252.62
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IMSI Floorplan 3D Deluxe	42	49.35
IMSI Form Tool 97	68	79.90
IMSI Graphic Converter Gold	29	34.07
IMSI Graphic Converter 97	39	45.82
IMSI HiJack Pro v4.0	39	45.82
IMSI MasterClips 75000	25	29.37
IMSI MasterClips 101000	39	45.82
IMSI MasterClips 150000	35	41.12
IMSI MasterClips 202000	42	49.35
IMSI MasterPhotos 25000	29	34.07
Lotus Freelance 97	39	45.82

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Macromedia Director MM Studio v6.0	799	938.82
Macromedia Extreme 3D	369	433.57
Macromedia Freehand v8.0	279	327.82
MM Freehand Graphics Studio v7.0	399	468.82
Macromedia SmartSketch	55	64.62
Macromedia xRes v3.0	399	468.82
MetaCreations Bryce 3D	135	158.62
MetaCreations Goo	35	41.12
MetaCreations Kal's Power Tools v3.0	95	111.62
MetaCreations Painter v5.0 (2D)	249	292.57
MetaCreations Poser v2.0 (3D)	115	135.12
MetaCreations Soap	35	41.12
Micrograph Draw v6.0	39	45.82
Micrograph Graphics Suite v2.0	249	292.57
M'graph Graphics Suite v2.0 Enterprise	279	327.82
Micrograph Picture Publisher v8.0	68	79.90
Micrograph Simply 3D v3.0	75	88.12
MS Powerpoint v4.0	224	263.20
MS Powerpoint 97	229	269.07
Newssoft Multimedia Suite	39	45.82
Newssoft PageManager Suite	39	45.82
Newssoft Print Suite	19	22.32
Scala MM100	39	45.82
Scala MM200	125	146.87
Scala Publisher PB100	169	198.57

INTEGRATED PACKAGES	ex VAT	inc VAT
Corel Office Professional v3.0	169	198.57
Corel WordPerfect Suite v8.0	172	202.10
Clarus Works Office	72	84.60
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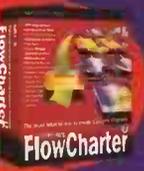
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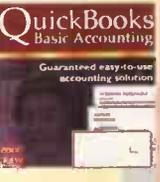
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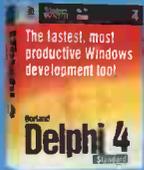
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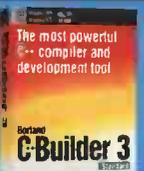
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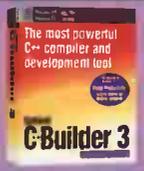
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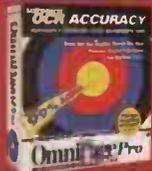


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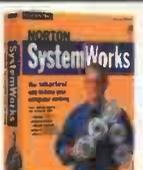
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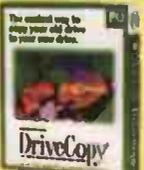


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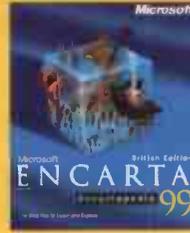
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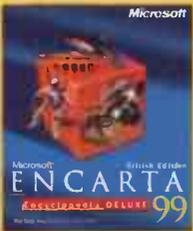
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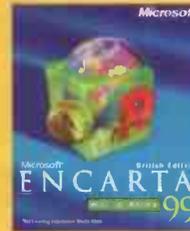
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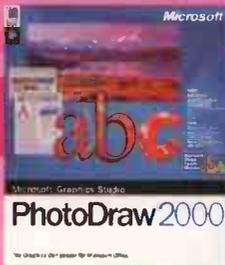
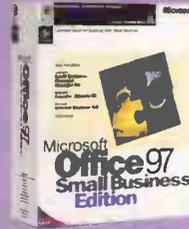
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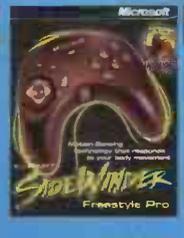
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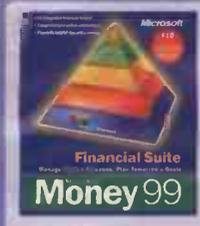
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IBM172	Selectadock III (TP600)	.....£112 <small>(inc. VAT £131.60)</small>
IBM173	32MB upgrade	.....£56 <small>(inc. VAT £65.80)</small>
IBM174	Li-Ion Battery	.....£148 <small>(inc. VAT £173.90)</small>

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Stock Code	FUJ056	FUJ053	FUJ054	FUJ041	FUJ042	FUJ043
Processor	Celeron 300A	Celeron 333LX	Pentium II 350	Pentium II 350	Pentium II 400	Pentium II 450
Case Style	Mini Tower	Mini Tower	Mini Tower	Mini Tower	Mini Tower	Mini Tower
Board	MS 6117	MS 6117	MS 6119	MS 6119	MS 6119	MS 6119
Intel Chipset	LX	LX	BX	BX	BX	BX
RAM	32MB SDRAM	32MB SDRAM	32MB SDRAM	64MB SDRAM	64MB SDRAM	64MB SDRAM
Hard Disk (UDMA)	4.3GB	4.3GB	4.3GB	6.4GB	6.4GB	6.4GB
Cache	128k	128k	512k	512k	512k	512k
CD-ROM	none	none	32 speed	32 speed	32 speed	32 speed
Soundsystem	no	no	no	no	no	no
Speakers	no	no	no	no	no	no
Modem	no	no	no	no	no	no
Media bays	5	5	5	5	5	5
Free slots	2ISA / 5PCI	2ISA / 5PCI	2ISA / 5PCI	2ISA / 5PCI	2ISA / 5PCI	2ISA / 5PCI
Display adapter	ATI 3D Charger	ATI 3D Charger	ATI 3D Xpert98 x2			
Video Memory	4MB AGP	4MB AGP	8MB AGP	8MB AGP	8MB AGP	8MB AGP
Diskette drive	1.44MB	1.44MB	1.44MB	1.44MB	1.44MB	1.44MB
Other Device						
Keyboard	Fujitsu PS/2	Fujitsu PS/2	Fujitsu PS/2	Fujitsu PS/2	Fujitsu PS/2	Fujitsu PS/2
Mouse	Fujitsu PS/2	Fujitsu PS/2	Fujitsu PS/2	Fujitsu PS/2	Fujitsu PS/2	Fujitsu PS/2
Bundled Software	MS Word 97	MS Word 97	MS Word 97	MS Word 97	MS Word 97	MS Word 97
Operating System	Windows 98	Windows 98	Windows 98	Windows 98	Windows 98	Windows 98
Bundled Software	MS Works 4.0	MS Works 4.0	MS Works 4.0	MS Works 4.0	MS Works 4.0	MS Works 4.0
Price Ex. VAT	<b>£459.00</b>	<b>£499.00</b>	<b>£639.00</b>	<b>£699.00</b>	<b>£849.00</b>	<b>£999.00</b>
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 Index on page 2



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- Full Duplex Audio
- SoundBlaster® Pro Compatible
- HP 32X Max-Speed Multiread IDE CD-ROM Drive
- Microsoft® Windows® 98
- HP Standard Keyboard, HP Mouse
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E-mail Enabled

**\*HP Palmtop delivery £9.95**

**Warranty (HP620LX): One year warranty, return to bench included. Three year support, next-day unit exchange.**

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HWP331 HP Palmtop 620 LX ..£492.77



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- Dual-battery option doubles run time

Code	Processor	RAM	HDD	DRIVE	Display	OS	Ex VAT	(Inc VAT)
HWP442	Pentium®II 266MHz	32MB	4.0GB	24XCD	12.1" TFT	W95	£1405.32	£1651.25
HWP441	Pentium®II 266MHz	32MB	4.0GB	24XCD	12.1" TFT	NT4	£1453.19	£1707.50
HWP517	Pentium®II 300MHz	64MB	4.0GB	24XCD	13.3" TFT	W95	£1713.83	£2013.75
HWP516	Pentium®II 300MHz	64MB	4.0GB	24XCD	13.3" TFT	NT4	£1761.70	£2070.00

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- Integrated Li-Ion battery with up to 3 hours run time
- Dual-battery option doubles run time
- Full dual mouse facility
- AGP Graphics card (4150)

Code	Processor	RAM	HDD	DRIVE	Display	OS	Ex VAT	(Inc VAT)
HWP444	Pentium®II 233MHz	32MB	4.0GB	24XCD	13.3" TFT	W95	£1851.06	£2175.00
HWP448	Pentium®II 266MHz	32MB	4.0GB	24XCD	14.1" TFT	W95	£1914.89	£2250.00
HWP446	Pentium®II 266MHz	32MB	6.4GB	24XCD	14.1" TFT	W95	£2159.57	£2537.50
HWP445	Pentium®II 266MHz	32MB	6.4GB	24XCD	14.1" TFT	NT4	£2197.87	£2582.50
HWP512	Pentium®II 300MHz	64MB	6.4GB	24XCD	14.1" TFT	W95	£2390.43	£2808.75
HWP511	Pentium®II 300MHz	64MB	6.4GB	24XCD	14.1" TFT	NT4	£2429.79	£2855.00

**Warranty (4100): Three year warranty, return to bench included. Three year support, 48 hour rapid service available.**

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- MPG to play back (full motion video)
- S-Video port with NTSC/PAL support
- 3D enhance audio with Dolby Digital for DVD play-back
- Integrated Li-Ion battery with up to 3 hours run time
- Full dual mouse facility

Code	Processor	RAM	HDD	DRIVE	Display	OS	Ex VAT	(Inc VAT)
HWP450	Pentium®II 266MHz	32MB	6.4GB	24XCD	14.1" TFT	W95	£2267.02	£2663.75
HWP449	Pentium®II 266MHz	32MB	6.4GB	24XCD	14.1" TFT	NT4	£2314.89	£2720.00
HWP452	Pentium®II 266MHz	32MB	8.1GB	24XCD	14.1" TFT	W95	£2614.89	£3072.50
HWP451	Pentium®II 266MHz	32MB	8.1GB	24XCD	14.1" TFT	NT4	£2665.96	£3132.50
HWP514	Pentium®II 300MHz	64MB	8.1GB	2XDVD	14.1" TFT	W95	£2742.55	£3222.50
HWP513	Pentium®II 300MHz	64MB	8.1GB	2XDVD	14.1" TFT	NT4	£2792.55	£3281.25

**Warranty (7100): Three year warranty, return to bench included. Three year support, 48 hour rapid service available.**

**FOR MORE INFORMATION SEE OUR WEB SITE AT: [www.software-warehouse.co.uk/hp-pcs/omnibook](http://www.software-warehouse.co.uk/hp-pcs/omnibook)**

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D6033A	PII 300	£1765	£2073.88
D6035A	PII 300	£1945	£2285.38

Code	Processor	Ex VAT	inc VAT
D6031A	PII 333	£1410	£1656.75
D6030A	PII 333	£1765	£2073.88
D6032A	PII 333	£1945	£2285.38

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Code	Processor	Ex VAT	inc VAT
D4998A	PII 350/100	£4290	£5040.75
D5002A	PII 350/100	£4590	£5393.25
D5000A	PII 400/100	£4690	£5510.75

Code	Processor	Ex VAT	inc VAT
D5004A	PII 400/100	£5050	£5933.75
D7033A	PII 450	£4970	£5839.75
D7034A	PII 450	£5270	£6192.25

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Code	Model	Ex VAT
J4090A	HP ProCurve 10Base-T Hub-8	£48
J4091A	HP ProCurve 100Base-T Hub-8	£170

- Low-cost 10 or 100Mbps Hubs
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- FREE LIFETIME WARRANTY

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Code	Model	Ex VAT
J3294A	HP ProCurve 10/100 Hub-12	£402
J3295A	HP ProCurve 10/100 Hub-24	£652

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- Internal bridge between 10 and 100Mbps ports
- FREE LIFETIME WARRANTY

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- One year International warranty

TOS160 Satellite 4000CDS .....£999 (inc. VAT £1173.82)

TOS161 Satellite 4000CDT .....£1265 (inc. VAT £1486.37)

TOS029 Satellite 4010CDS .....£1179 (inc. VAT £1385.32)

TOS025 Satellite 4010CDT .....£1429 (inc. VAT £1679.07)

**TOSHIBA Satellite**

### 490XCDT

- Intel Pentium II 266 Processor
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- 13.3" TFT 1024 x 768 Display
- 2 x type II PC Card (PCMCIA) slots
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TOS141 Satellite 490XCDT .....£1519 (inc. VAT £1784.82)

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- Three year international warranty

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TOS163 Tecra 8000 PII/233/TFT .....£1599 (inc. VAT £1878.82)

TOS164 Tecra 8000 PII/266/TFT .....£2029 (inc. VAT £2377.82)

TOS165 Tecra 8000 PII/300/TFT .....£2279 (inc. VAT £2677.82)

TOS166 Tecra 8000 PII/233/TFT/DVD ..£2699 (inc. VAT £3171.32)

**TOSHIBA Libretto**

### 100CT

- Intel Pentium 166MMX Processor
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- 2.168 MiB HDD
- 7.1" TFT 800 x 480 Display
- 2 x type II PC Card (PCMCIA) slots
- One year international warranty

TOS137 Libretto 100CT .....£1095 (inc. VAT £1286.63)

TOS019 Libretto 110CT .....£1269 (inc. VAT £1491.08)

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 The new Extensa 500 Series notebooks encompasses convenient "all-in-one" features and state-of-the-art audio technology, with "PlayNow" design for playback of music CD's with system on or off.

**Extensa 710 Series**  
 The new Extensa 710 series - convenient "all-in-one" features, a Pentium II processor, and up to 5 hours battery life makes this the perfect notebook PC.



Code	Model	Processor	Memory (Std/Max)	Hard Disk	CD-ROM	Display	Software	Inc VAT	Ex VAT
ACE045	TravelMate 312T	P233MHz MMX	32MB/80MB	3.2MB	Ext. 24x	8.4" TFT	Win 95	£1350.08	£1149
ACE047	Extensa 500T	P233MHz MMX	32MB/128MB	3.2GB	20x Max	12.1" HPA	Win 98	£1244.33	£1059
ACE048	Extensa 501T	P266MHz MMX	32MB/128MB	3.2GB	20x Max	12.1" TFT	Win 98	£1404.13	£1195
ACE036	Extensa 711TE	PII 266MHz MMX	64MB/128MB	4.0GB	24x Max	13.3" TFT	Win 98	£2149.08	£1829
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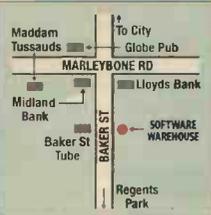
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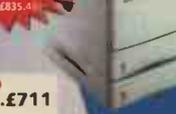
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<b>What you need to run it</b>	<ul style="list-style-type: none"> <li>• 16Mb RAM</li> <li>• 140Mb hard disk</li> </ul>	<ul style="list-style-type: none"> <li>• 32Mb RAM</li> <li>• 40Mb hard disk</li> </ul>

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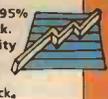
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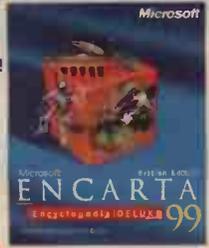
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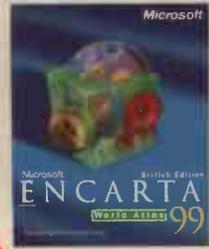


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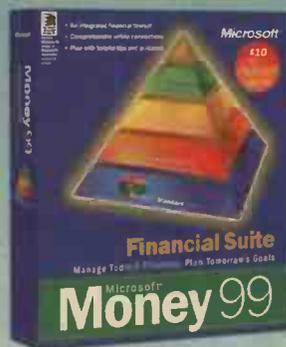
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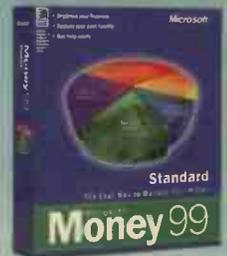


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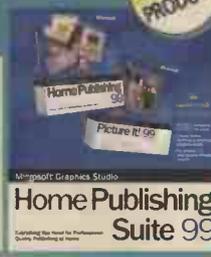
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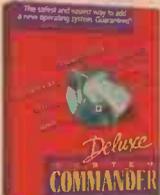
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## Microsoft® Small Business Server 4.0

Microsoft® BackOffice® Small Business Server provides growing businesses with the essential tools to make sharing information and connecting with business partners and customers easier.

Who needs Small Business Server?

Small Business Server is designed for small businesses with approximately 25 PCs or less. It is designed to maximise the productivity of the network, while ensuring it is easy to install, maintain and develop.

Help grow your business and communicate better

In today's competitive business environment, many small companies seek more powerful ways to manage tasks and communicate. Microsoft Small Business Server can help your growing business communicate better, enhance customer service, manage growth, project your image via the Internet, simplify daily tasks, and focus on other strategic objectives. Microsoft Small Business Server works with the business systems you have now and will work with the technology you'll need in the future. That means you can preserve your current investments while enjoying the advantages of new technologies.

Microsoft Small Business Server features award winning products that give everything you need to run a growing business. Designed for companies with 25 or fewer PCs, it's an integrated solution for sharing files, databases printers, electronic mail, fax services applications and other resources with anyone, anywhere, at any time-all from one integrated server. You get advanced communication services and fast, flexible access to the Internet. Best of all, the server is exceptionally easy to set up and manage, and use, so you can get up and running with it right away.

Across the office or around the World, Small Business Server helps small business communicate

- Share files and printers
- Reduce communication costs with fax and modem sharing
- Access the network remotely
- Put your company online
- Setting up is simple
- Easy to grow

Key Features:

- To Do List
- Small Business Server Console
- Wizards - guides the users through key tasks such as managing users, peripherals, and devices on the server
- Adds User Wizard - makes adding new users easy

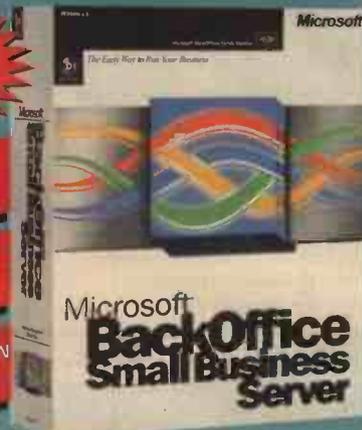
- Set Up Computer Wizard - makes it easy to connect the Windows® 95 or Windows NT® Workstation operating systems to the Small Business Server
- Intranet Default Page - provides just-in-time training to the users connected to Small Business Server

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Easy to set up, manage and grow

Communicate in new & more efficient ways

Everything you need to know about growing a business



Small Business Server 4.0/ Office 97 Pro bundle

Small Business Server

Microsoft BackOffice Small Business Server is the complete NT Server based solution that makes it easier to run your business

Office 97 Professional Edition

Office 97 is the world's best selling office suite, integrating intelligent applications with the power of the Internet so you can get your job done faster and more effectively than ever before.

Small Business Server/Office Pro Bundle

The bundling of Small Business Server and Office 97 Professional Edition combines the power of a totally integrated network solution with the flexibility of the world's leading business software package.

What do you get:

BackOffice Small Business Server consists of Windows NT 4.0 including Internet Information Server, FrontPage 98 and Index Server, Exchange Server 5.0 w/Outlook 97, SQL Server 6.5, Proxy Server 1.0, Fax Server, Shared Network Modem, Internet Connection Wizard, Client Installation Utility, Simplified Administration Tools and 5 Client Access Licenses.



(inc. VAT £2113.83)

MS1358 SBS 4.0/Office 97 Bundle £1799

## Microsoft Project 98

Control your projects with confidence

- flexible - new scheduling engine in Microsoft Project 98, you can plan and track your projects more effectively and identify and respond to conflicts before they happen.
- Communicate your plans with ease - Microsoft Project 98 has rich presentation features including the ability to publish information to the intranet and Internet, plus workgroup features that let you communicate with team members via e-mail or the web.
- Works the way that you do - Full compatibility with Microsoft Office applications, as well as other databases and systems, means that users learn Project 98 faster and can share information easier with others in the company.

Perfect compliment for Office 97

FROM £119<sup>95</sup> (inc. VAT £140.94)



MIC905 MS Project 98 .....£299<sup>95</sup> (inc. VAT £352.44)  
MIC954 MS Project 98 U/G .....£119<sup>95</sup> (inc. VAT £140.94)

## Microsoft FrontPage 98

Professional website publishing no programming required!

- Easily create great looking Web sites—easy to use, leading edge features let you create professional Web sites without programming.
- Manage your Web sites your way - comprehensive management tools let you quickly build and maintain well-organised Web sites.
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## Visual Basic 6.0 Build powerful applications fast!

Microsoft Visual Basic 6.0 is the most productive tool for quickly creating fast business solutions. With its rapid application development (RAD) environment, developers can quickly create and deploy super-fast client/server applications – plus easily develop Web applications using familiar Visual Basic programming techniques. Visual Basic is the leader in Rapid Application Development (RAD) with its visual user interface (UI) designer providing developers with intuitive

drag-and-drop UI creation. No tool is more RAD, easier to design GUIs with, or has more commercially available third-party components, controls, and tools associated with it. Visual Basic has many pre-built components and fast creation of custom components that can be either client or server based. With IntelliSense technology, you don't need to memorise commands or language syntax. Just type a portion of the word, and Visual Basic does the rest.

M51200 **Visual Basic Pro 6.0** ..... (Inc. VAT £93.96) **£334<sup>95</sup>**  
 M51216 **Visual Basic Pro 6.0 U/G** ..... (Inc. VAT £195.69) **£168<sup>95</sup>**

M51211 **Visual Basic STD 6.0** ..... (Inc. VAT £76.32) **£61<sup>95</sup>**  
 M51213 **Visual Basic STD U/G** ..... (Inc. VAT £43.18) **£34<sup>95</sup>**  
 M51217 **Visual Basic STD Enterprise Edition** **£814**



## Visual J++ 6.0

## Visual C++ 6.0

The power of Windows Microsoft Visual J++ development system for Java version 6.0 lets you harness the productivity of the Java language and the power of Windows to build and deploy high-performance, client/server solutions for Windows applications. Visually design, debug, and deploy feature-rich applications from within the high productivity rapid application development (RAD) environment. Use Visual J++ alone, or as a complement to your existing tools, to accelerate development of powerful applications, components, and middle-tier business rules.

Visual C++ 6.0 is the most productive C++ tool for optimised high-performance Windows and Internet development. Nearly all contemporary world-class software, including the leading Web browsers, Internet servers, databases, and office productivity suites are built with the Microsoft Visual C++ development system. It is also a tool of choice for creating scalable, multi-tier corporate applications where performance and reliability are critical.

**KEY FEATURES**

- The high-productivity RAD environment, similar to that found in Microsoft Visual Basic, offers two-way visual design of high-performance, client/server solutions for Windows and the Web.
- Build powerful database applications with access to a wide variety of data; make any visual component database aware and use the Professional Visual database Tools to quickly create, update, and view database tables and graphically design SQL queries.
- Simplify software distribution and configuration with one-button package, sign, and deployment tools that deliver your entire application to a remote file or Web server.

### Microsoft SQL Server 7.0

SQL Server 7.0 is the leading Windows database bringing business advantage and improved decision-making to all levels of the organisation through the power of data warehousing, scalable business solutions and interoperability with Microsoft Office

**Key Features**

- Enabling business advantage through Scalable Business Solutions
- Bringing faster and better decision making through Data Warehousing
- Empowering Employees via Integration with Office and Windows family

**KEY FEATURES**

- For faster turnaround, make changes during your debugging session and continue on without rebuilding.
- Speed development time and write less code with on-the-fly syntax and programming assistance within the editor.
- Add a variable or method to a class, and it's reflected immediately.
- Realise up to 30 percent faster compile time for quicker turnaround.

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 M51234 **Visual J++ 6.0 STD U/G** ..... (Inc. VAT £43.42) **£36<sup>95</sup>**

M51315 **SQL Server 7.0** ..... (Inc. VAT £1,292.50) **£1,100**  
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## Microsoft Visual Studio 6.0 UNLEASH THE POWER OF WINDOWS AND THE WEB

Product/Components	Description	Pro.	Ent.
Microsoft Visual Basic® 6.0, Visual C++® 6.0, Visual FoxPro® 6.0, Visual InterDev™ 6.0, Visual J++™ 6.0, MSDN Library Special Edition	The complete suite of Microsoft Visual Tools.	•	•
Enterprise Visual Database Tools	Visually design databases and views, and create and test stored procedures for Microsoft SQL Server 6.5+ and Oracle 7.0+ databases.	•	•
Microsoft BackOffice 4.5, Developer Edition (for Windows NT only)	Build Windows NT-based solutions that can be accessed from Windows-based or Web-based clients and integrated in enterprise environments with selected server technologies from the Microsoft BackOffice® family. The Development License for Microsoft BackOffice Server 4.5 includes Microsoft SQL Server, Microsoft Exchange, Microsoft SNA Server, Microsoft Site Server, Microsoft Systems Management Server and Windows NT Server.	•	•
Team Support	Microsoft Visual SourceSafe® version control system version 6.0, Visual Component Manager, and Microsoft Repository.	•	•
Application Design Tools	Design multi-tier applications with Visual Modeler.	•	•

The complete suite for rapidly building business solutions that take full advantage of the Microsoft Windows operating system and the Web. Microsoft Visual Studio development system version 6.0 is the complete development suite for rapidly building Windows-based applications and Web solutions.



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 M51208 **Visual Studio Pro 6.0 Ent** ..... (Inc. VAT £1193.84) **£947<sup>95</sup>**  
 M51210 **Visual Studio Pro 6.0 Ent U/G** ..... (Inc. VAT £803.64) **£683<sup>95</sup>**

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MS OFFICE'95 CU MOLP	£160.00	£188.00
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MS OFFICE 4.2 CU MOLP BED	£30.01	£35.26
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MS EXCH SVR 5.5+SQLT EDU	£347.11	£407.85
MS EXCH 5.5 SQLT MLP EDU	£100.00	£117.50
MS ENCARTA 98 DLX ED A	£24.22	£28.46
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MS ACCESS 97 CUP MOLP A	£72.45	£85.13
MS VISUAL BASIC V5 ED LIC	£110.70	£130.07
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MS WORD 97 MOLPA	£198.30	£233.00
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EXCHANGE SVR ENT V5.5 MOLPB	£464.28	£545.53
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## Microsoft PhotoDraw

The perfect business graphics package to compliment Microsoft Office

Microsoft® PhotoDraw™ business graphics software uniquely provides photo editing and illustration in one easy-to-use program to help Microsoft Office and business users create custom looking graphics to use in PowerPoint®, Word, Publisher and on the Web.

PhotoDraw allows users to focus on the task at hand, not on the tool or the terminology. Designed for business users, PhotoDraw reduces the number of steps required to complete any graphics task with professionally designed templates, pre-set defaults and automatic image correction features. Users can create customized graphics with ease - achieving high quality results without formal graphics training. Further, PhotoDraw incorporates a Microsoft Office look to speed new users on their way. With PhotoDraw, users can assemble and modify any of the following graphic elements in a seamless and easy manner and apply special effects to any and all of them:

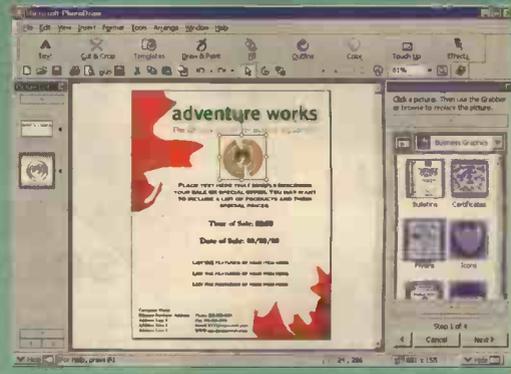
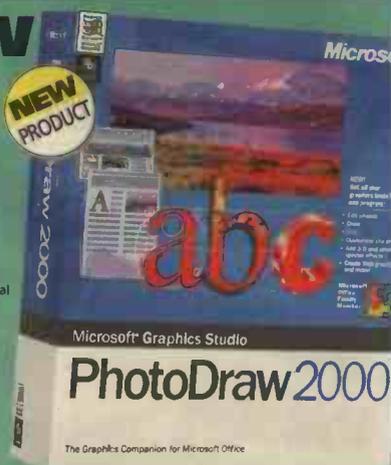
- Clip art
- Shapes
- Photos, including scanned photos and those downloaded from a digital camera
- Text
- Images from other graphics programs
- User-drawn illustrations

Moreover, users can continue to make changes to individual elements at any stage in the creative process and even after the graphic is saved.

**All-in-One Photo editing and Illustration**

PhotoDraw seamlessly combines clip art, drawing and painting with text and photo editing in a single, easy to use program. You can learn and use one program instead of three to create professional looking custom graphics.

- Photo Editing, Painting, Drawing and 3D in one program. Through one familiar interface, the user can easily combine and edit photos, clipart, shapes, painting and line drawing with text and 3D effects to create custom looking business graphics.
- Customize ClipArt. Customize standard clipart with different special effects to create a unique customized look. For example, take a simple shape and make it look handpainted or hand drawn.
- Powerful Image Touchup. Automatically fix red eye, remove dust and scratches and correct brightness, contrast and color. The cloning tool allows you to remove unsightly objects from a photo.
- Painting, Drawing and Autoshapes. Paint using natural brush strokes, including unique photo strokes. Draw and edit vector graphics. Assemble graphics quickly using 198 Autoshapes.
- 3-D Effects. Apply 3-D effects to graphic elements with a single mouse click. Click to change the angle. You also control the lighting.
- Web Graphics. Create small, fast graphics for the Web. PhotoDraw automatically converts your image to a Web color palette and format. A wizard lets you preview various image qualities with download times to help you make good decisions for your Web site. Templates for navigation buttons, Web banners and watermarks get you started.
- Special Effects. 200 built-in special effects can be applied to text, clip art, photos and other graphics. Each effect can be previewed before it is applied and adjusted to be more or less dramatic.
- Intelligent Print Capability. Intelligent printing automatically sizes and fits your graphic to a wide range of paper sizes, maintaining the correct aspect ratio and determining the highest print quality available from your printer.
- Advanced Support for Digital Cameras and Scanners. The process of capturing images and transferring them to your PC is simplified and automated. For example, automatically scan and correct your image with a single mouse click.



**Combine different graphic types**  
PhotoDraw is the first tool of its kind that is designed for business users; it provides illustration, photo editing, text and tools in one easy-to-use, integrated product. PhotoDraw has been built from the start to work with different object types in the same way - interactively, seamlessly - in one program. The PhotoDraw architecture was designed from scratch to optimize illustration, photo editing and text for both print and the Web.

VISIT OUR DEDICATED PHOTODRAW WEB SITE AT:  
[www.software-warehouse.co.uk/microsoft/photodraw](http://www.software-warehouse.co.uk/microsoft/photodraw)

MS1314 M5 Photo Draw.....(inc VAT £116.32).....£99

## Microsoft Office 97!

The world's best-selling office suite, with the added power of the Web!

FROM **£149<sup>95</sup>**  
(inc. VAT £176.19)



Microsoft Office 97 builds on the productivity tools in Microsoft Office 95 by adding a more unified interface, much simpler controls, web tools and improved programmability for building customised business solutions.

Integration with Microsoft Explorer Web browser allows increased communication and collaboration using the World Wide Web. In fact Office 97 makes browsing the web, finding information, adding it to your documents and then publishing on the Web all one process. The existing applications within Microsoft Office have been updated and completely revised - and there are exciting new programs too!

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Office 97	New User	Upgrade or Comp. Upgrade
Standard	MIC628 <b>£327<sup>95</sup></b> (inc. VAT £385.34)	MIC629 <b>£149<sup>95</sup></b> (inc. VAT £176.19)
Pro	MIC631 <b>£419<sup>95</sup></b> (inc. VAT £483.44)	MIC632 <b>£204<sup>95</sup></b> (inc. VAT £240.82)
Developer	MIC690 <b>£519<sup>95</sup></b> (inc. VAT £610.94)	MIC691 <b>£329<sup>95</sup></b> (inc. VAT £387.69)
Developer UIG from Office 97		MIC693 <b>£192<sup>95</sup></b> (inc. VAT £228.48)
MS Office'97 SBE CompetitiveUIG		MS1054 <b>£147<sup>95</sup></b> (inc. VAT £173.84)
MS Office'97 SBE		MS1087 <b>£324<sup>95</sup></b> (inc. VAT £381.24)

Please note: Office 97 is ONLY available on CD. Disk exchange is available via Microsoft for a small charge.

	Standard	Professional	Small Business	Developer
Microsoft Access 97		✓		✓
Microsoft Excel 97	✓	✓		✓
Microsoft Word 97	✓	✓	✓	✓
Microsoft Powerpoint 97	✓	✓		✓
Microsoft Outlook 97	✓	✓		✓
Microsoft Internet Explorer	✓	✓	✓	✓
Microsoft Publisher 98		✓		
Microsoft Bookshelf Basics		✓		
Microsoft Autoroute GB 98			✓	
Microsoft Small Business Financial Manager 98			✓	
Microsoft Replication Manager				✓
Microsoft Setup Wizard				✓

**Guide to Microsoft Office pricing**

If you have five PCs or more then call our corporate team as you will be able to make substantial savings by entering into a MQLP agreement. If you are looking for single copies or small quantities please refer to these charts.

Upgrade: If you currently use any version of either MS Word, MS Excel, MS Access, MS Powerpoint or MS Works then you qualify for the upgrade price bracket.

Competitive Upgrade: If you currently use a Lotus product, Corel, Harvard or other major competitive products you qualify for the upgrade price - call for details.

New User: If you do not qualify for either of the above then new user pricing applies.

**A massive 90,000 items in stock across 10,000 different product lines. Nobody delivers faster!**

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# Autodesk

## The World's No.1 choice for CAD & design software!

AutoSketch Release 6



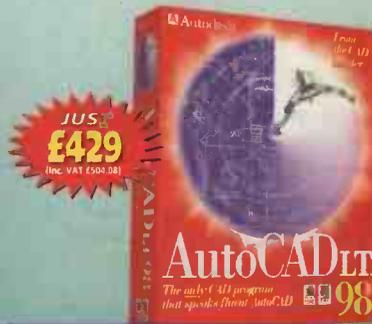
New packshot not available at time of going to press

**'Precision drawing made easy'**  
Spend Time Drawing, **NOT** Learning Software

An affordable and easy to use precision drawing tool for new or occasional CAD users who need to create conceptual drawings and sketches. AutoSketch provides productivity and ease of features not found in other low cost precision drawing programs such as: drawing guides; Automatic Snap; Spell Check; Dynamic Pan & Zoom; AutoArray; Detail View; Construction lines; advanced tools for easier wall placement, and hyperlinks. Other features include 3D Effects to add more impact to conceptual drawings, proposals, and presentations; customisable grids; in-place OLE editing; and the ability to import/export DWG files. Compatible with Microsoft Windows 98, 95 and NT.

AUT076 Autosketch V6 .....£99

AUT077 Autosketch V6 U/G £49.95



**The only 2D CAD Program that 'Speaks Fluent AutoCAD'**

AutoCAD LT 98 software, new from Autodesk, combines drafting productivity, intuitive commands, and 100 percent AutoCAD compatibility to deliver reliable, affordable functionality you won't find anywhere else. New features in this leading 2D CAD product include drag-and-drop hatching in the Content Explorer™, user interface customisation, modern interface improvements with intuitive dialogs for array and purge, Revision Cloud and Regional Modeller productivity tools, and Windows 98 compatibility. You'll also find precision drawing tools like PolarSnap™ and AutoSnap™, and collaborative features like network license management, Internet capabilities, and multimedia, self-paced online learning. AutoCAD LT 98 is simply the right choice for professionals in extended design teams who occasionally use CAD and for paper-based drafters.

AUT078 Autocad Lt98 .....£429

AUT079 Autocad Lt98 U/G £199

AutoCAD LT 98

### CAD SOFTWARE

	Ex VAT	Inc VAT
<b>EXPERT</b>		
3D LANDSCAPE	£12.75	£14.98
GUILDOSOFT		
ALL CLEAR	£139.00	£163.33
<b>AUTODESK</b>		
AUTOSKETCH ARCHITECT LIB	£65.00	£76.38
AUTOSKETCH BUILDING SERV.	£65.00	£76.38
AUTOCAD LT V2 FOR 3.1 CD	£315.00	£370.13
AUTOCAD LT WIN 95 VER UG	£199.00	£233.83
AUTOCAD LT 3.1u/EASYCAD	£149.00	£175.08
AUTOCAD LT 3.1u/QUICKCAD	£149.00	£175.08
AUTOSKETCH ARCHITECT 2 LIB	£65.00	£76.38
AUTOSKETCH INT ARCHIT LIB	£65.00	£76.38
AUTOSKETCH ELECTRONICS LIB	£65.00	£76.38
AUTOSKETCH MECHANICAL LIB	£65.00	£76.38
LT ARCHITECTURE SYM LIB	£115.00	£135.13
LT ARCHITECTURE II SYM LI	£115.00	£135.13
LT INTERNAL ARCHITECTURE	£115.00	£135.13
LT BUILDING SERVICES LIB	£115.00	£135.13
LT ELECTRONICS SYMBOL LIB	£115.00	£135.13
LT MECHANICAL SYMBOL LIB	£115.00	£135.13
LT ELECTRICAL SYMBOL LIB	£115.00	£135.13
AUTOCAD 97 UG CD	£189.00	£222.08
AUTOCAD LT V2 WIN3.1 3.5	£289.95	£340.69
AUTOCAD LT 97	£429.00	£504.08
AUTOSKETCH V5.0	£99.00	£116.33
AUTODESK VIEW V2.01	£129.95	£152.69
AUTOSKETCH V6 95/98/NT CD	£99.00	£116.33
AUTOSKETCH V6 UG 95/98/NT	£49.00	£57.58
AUTOCAD LT 98	£429.00	£504.08
AUTOCAD LT 98 U/G	£199.00	£233.83
AUTOCAD LT 98 ED 95/98/NT	£119.00	£175.08
AUTOCAD LT 98 ED 5PK	£596.00	£700.30
AUTOCAD LT 98 ADD 1 USER	£65.00	£76.38
AUTOSKETCH V6.0 ED	£49.00	£57.58
AUTOSKETCH V6.0 ED 5 PACK	£199.00	£233.83
AUTODESK VIEW VER2.5 USER	£650.00	£763.75
AUTOSKETCH 5.0 UG CD	£49.95	£58.69
AUTOCAD RELEASE 14	£3,150.00	£3,701.25
AUTOCAD MECH D/TP2 V2.0	£4,650.00	£5,463.7
AUTOCAD AEC 5.1	£1,500.00	£1,800.00
3D STUDIO MAX V2.0	£2,695.00	£3,166.63
AUTOCAD LT TO REL. 14 UG	£2,555.00	£3,002.13
AUTOCAD R12 TO R14 UG	£695.00	£816.63
AUTOCAD R13 TO R14 UG	£495.00	£581.63
<b>DATABASECKER</b>		
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3D DREAM HOUSE DESIGNER	£34.95	£41.07
GIANT 3D FURNITURE PACK	£15.74	£18.49
3D DREAM GARDEN DESIGNER	£15.74	£18.49
<b>EURPORESS</b>		
INTERIOR DESIGNER	£8.99	£10.56
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3D INTERIOR DESIGNER V2	£19.95	£23.44
<b>FASTRAK</b>		
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DESIGNWORKS V3.5	£26.95	£31.67
<b>IMSI</b>		
TURBOCAD PROFESSIONAL V4	£189.95	£223.19
FLOORPLAN 3D DELUXE 3.1/9	£42.50	£49.94
FLOORPLAN ESSENTIALS	£17.01	£19.99
TURBOCAD STANDARD V5	£69.95	£82.19
TURBOCAD PROFESSIONAL V5	£199.95	£234.94
FLOORPLAN 3D DESIGN SUITE	£42.54	£49.98
<b>MICROGRAPH</b>		
NETWORK CHARTER STD	£299.00	£351.33
NETWORK CHARTER PRO	£699.00	£821.33
DEVICE LIBRARY SUB 1YEAR	£299.00	£351.33
ENTERPRISE CHARTER ADD ON	£249.95	£293.69
<b>RMG</b>		
PLANIX EXTERIOR DESIGN 3D	£25.49	£29.95
<b>THE LEARNING COMPANY</b>		
KEY HOME DESIGNER CD	£15.50	£18.21
KEY GREETING CARD TUTOR	£15.50	£18.21
3D DESIGN PLUS	£85.00	£99.88
KEYCAD PRO (CD)	£19.95	£23.44

## FileMaker Pro 4.1



### Features

- Instant Web Publishing
- Custom Web Publishing
- Professional Templates
- Import/Export Capabilities
- Data Handling Flexibility
- Variable Field Length
- Auto Indexing
- Multiple Layouts
- Graphical Report Creation
- Mail Merge
- Integrated Text Handling
- Import Graphic Files
- Integrate Multimedia
- Custom Field Formats
- Automatic Data Entry
- Data Look-up Capabilities
- Serialise Records
- Validate Data Entry
- Versatile Find Function

FileMaker Pro 4.1 software empowers you with the ability to organise, share, and gain value from your information - on your desktop, across your network, and over the World Wide Web. Get started quickly using drag and drop conversion of Microsoft Excel files. Or import data directly from your corporate databases, such as Oracle, Sybase or SQL Server using ODBC and the new SQL query builder. Or choose from over 40 professionally designed templates that include solutions for project tracking, inventory control and expense management.

CLA029 FileMaker Pro V4.0 .....£165

## FileMaker Pro 4.0 Developer Edition



FileMaker Pro 4.0 Developer Edition gives you powerful tools to create and deploy custom database solutions. Use the included award-winning FileMaker Pro 4.0 software to develop your database. Then, expand its capabilities by writing external functions or adding third-party plug-ins. Take advantage of Java classes to create dynamic interfaces. The runtime utility allows you to turn your database into a royalty-free stand alone application for fast, easy deployment to anyone who needs it. You can also publish databases directly to the web, or use the included Home Page software to design professional-looking custom web pages which you can link your databases to. All the tools you need are in the box and ready to use!

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NOW **£390**  
(Inc. VAT £458.25)

turn your database into a royalty-free stand alone application for fast, easy deployment to anyone who needs it. You can also publish databases directly to the web, or use the included Home Page software to design professional-looking custom web pages which you can link your databases to. All the tools you need are in the box and ready to use!

CLA046 Pro Developer .....£390

## Home Page 3.0

For great web pages

### Features

- Ease of use
- Intuitive Interface
- Form Design Elements
- Powerful Tools
- Use the FileMaker Connection Assistant to create interactive forms that connect directly to FileMaker Pro 4.0 databases
- Frames, Tables, Libraries
- Advanced Features
- Multimedia Support
- Document Statistics
- Colour-coded HTML tags
- Multiple Font Support
- Automatic features
- Auto Site Management
- Automatic Links
- Automatic GIF Conversion
- Background Preview



CLA034 Home Page 3.0 .....£65

## FileMaker Pro Server

The database server designed for growing businesses

FOR WINDOWS NT AND MAC OS  
Top 10 Reasons to Use FileMaker Pro Server  
The high-performance relational database engine, which runs a service under Windows NT, accelerates FileMaker Pro operations over network by dramatically increasing the speed of database operations and by allowing up to 100 concurrent users per server - while hosting up to 100 database files simultaneously. These capabilities make it an excellent choice for departments and workgroups in any type of business.

**FROM JUST £249**  
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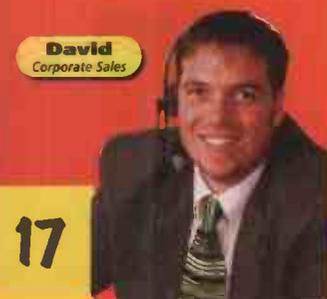
CLA047 FileMaker Pro Server .....£799

CLA048 FileMaker Server U/G .....£249

CLA049 FileMaker Pro Server Educational .....£649

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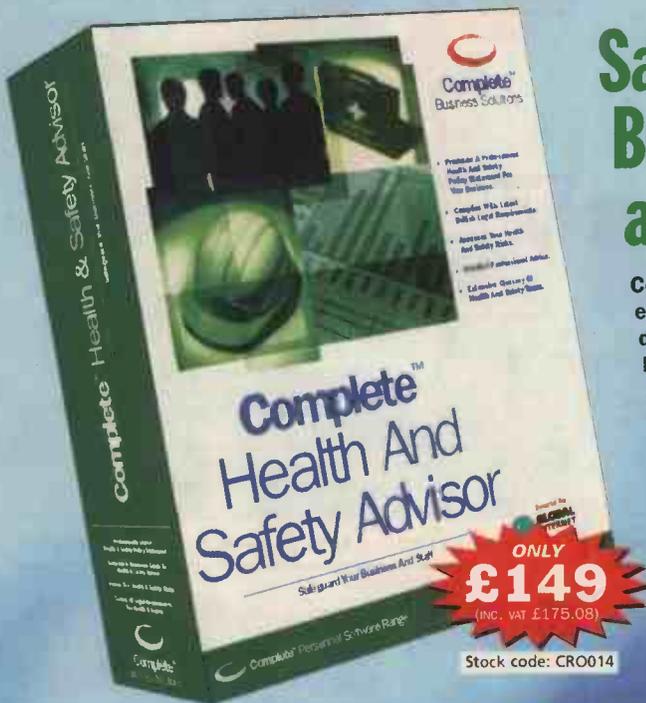
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The independent reported Software Warehouse to be the fastest growing privately owned company over the past 4 years

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Complete Health and Safety Advisor™ is the essential tool for creating a health and safety document for your business, ensuring you are legally covered and helping you identify health and safety problems before they adversely affect your business.

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- Minimise hidden costs associated with accidents, eg sick pay, overtime, temporary labour
- Provides immediate advice on safeguarding your working environment
- Pinpoint the issues that affect your business with an extensive glossary

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Complete Company Handbook™ is a new, convenient way to produce an employee manual for your business, covering all your company's procedures and policies for work practice. Using customisable templates, you can ensure that your policies are consistent with current legislation. Complete Company Handbook will help you improve the overall efficiency of your organisation.



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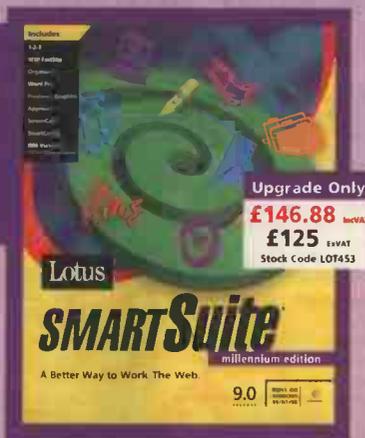
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# Lotus

## Why type, when you can talk to your computer

Introducing Lotus SmartSuite millennium, A better way to work the Web

Developed from SmartSuite 97, Millennium edition is the new Year 2000 ready office suite from Lotus.



### What's in the box?

- Seven applications: Lotus Word Pro, 1-2-3, Organizer, Approach, Freelance Graphics and ScreenCam with over 100 new features and enhancements between them plus NEW Lotus FastSite.
- 30 days' FREE Internet connection with CompuServe.
- FREE noise cancelling headset microphone.
- FREE 'SmartSuite millennium for Dummies' guide.
- FREE browsers Netscape 4 and Internet Explorer 4.

Lotus SmartSuite Millennium Edition contains all of the following great applications

### Lotus FastSite

Lotus FastSite delivers the Internet publishing ability without having to purchase and learn more complex tools which are typically designed for Webmasters.

- Allows non-technical users to easily contribute information to an intranet or Internet site.
- Lotus FastSite complements existing Web publishing tools like Microsoft Front Page, Lotus Domino Designer and Hot Metal Pro.
- Lotus FastSite automatically converts SmartSuite or Office documents to Web formats.

### IBM ViaVoice

Continuous speech integration for Word Pro - hands and eyes 'free' - now you don't even have to be looking at your computer, let alone sitting at it!

- Dictate at up to 140 words per minute.
- Largest active vocabulary in the industry.
- Natural dictation of numbers, weights, prices, etc. that will format properly.

### So what's new?

- NEW application: Lotus FastSite for intranet or Internet publishing.
- IBM ViaVoice - continuous speech recognition for Word Pro - talk don't type!
- Unparalleled file compatibility with Microsoft Office 95/97 and Corel.
- Advanced Internet Integration.
- High value business productivity templates

### New in Lotus 1-2-3

World famous spreadsheet

- Lotus 1-2-3 Web Tables let you bring in live 'Web-info' and perform analysis on it, eg. stock portfolio.
- Lotus 1-2-3 has more than 50 new functions providing enhanced analytic ability.
- The number of rows in Lotus 1-2-3 has increased from 8,192 to 65,536 for enhanced file compatibility with Excel.

### New in Lotus Organizer

The most popular time management software

- New SmartClip - high speed copying from external sources into Organizer without opening the application.
- Integrates a Calendar, To Do List, Address Book, Call Manager, Planner, Anniversary Reminder and Notepad into a single easy-to-use electronic book with tabs and pages that turn.

### New in Lotus ScreenCam

Multimedia application

- New StreamCam - allows you to transmit compressed video over the internet.
- Option to choose sound recording quality.
- Can now create AVI format movies and distribute to people who don't have ScreenCam.

### Lotus cc:MAIL

Lotus cc:Mail R8 Advanced System Pack  
The world's leader in messaging with 32 million users!

- Lotus cc:Mail Release 8 is a complete solution.
- With it you can:
  - set up and manage an e-mail system
  - connect to the Internet
  - use electronic forms
  - schedule meetings
- Main feature: NEW cc:Mail Advanced Messaging Server - a high performance, multi-tasking server

supporting up to 1000 users 24 hours a day, 7 days a week.

cc:Mail R8 includes:

- a new Windows-based Graphical Administration tool
  - Lotus Forms
  - Lotus Organizer
  - cc:Mail View
  - Client software for Windows 3.1/95/nt, Mac OS2 and DOS

For more information on any of the products listed on this page call: 01765 466 467 or visit the web site: [www.software-warehouse.co.uk](http://www.software-warehouse.co.uk)

\* based on upgrade to 8.2

Lotus cc:MAIL  
Prices start at £255\* please call



### DATABASES

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ACT FOR NOTES 1.5 10-24	£155.00	£182.13
RAPID ADDRESS PROGRAM	£133.00	£156.28
ADOBE FRAMEMAKER UGV55E	£179.00	£210.33
ALPHA 5 WIN3.1& 95 3.5& CD	£60.00	£70.50
ALPHA 5 VERSION 2 UIG	£29.95	£35.19
APEX TRUE DB GRID PRO 5	£226.00	£265.55
APEX TRUE GRID 5 UIG	£155.00	£182.13
VIEWDATA	£69.00	£81.06
GOLDMINE 3.2 (WIN 95)	£195.00	£229.13
GOLDMINE 3.2 95 25 USER	£2,675	£3,143.13
GOLDMINE 3.2 (WIN 95) 10	£1,125	£1,321.88
GOLDMINE 4.0 STD SNGLEUSR	£195.00	£229.13
GOLDMINE 4.0 5 USER	£595.00	£699.13
GOLDMINE 4.0 STD 10USER	£1,599	£1,878.83
GOLDMINE V4.0 STD 25USER	£3,599	£4,288.83
GOLDMINE V4.0 ENT 1 USER	£649.00	£762.58
GOLDMINE V4.0 ENT 5 USER	£1,399	£1,643.83
GOLDMINE V4.0 ENT 10 USER	£2,799	£3,288.83
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VIS DBASE 5.5 CLIENT/SERV	£349.00	£410.08
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PARADOX V7 UIG (CD)WIN3.1	£79.00	£92.83
PARADOX V7 RUNTIME 16/32	£199.00	£233.83
BOR PARADOX V7 (3.1)USER	£235.00	£276.13
BOR/DELPHI 4 CLIENT/SERV	£1,545	£1,815.38
BOR PARADOX RUNTIME 8	£210.00	£246.75
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INTERBASE 5.0 5 SIM USERS	£550.00	£646.25
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INTERBASE 5.0 20 SIM USER	£1,760	£2,068.00
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ACT1 V4 W95/NT	£139.00	£163.33
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VISUAL CAFE 2.5 DDE 95/NT	£515.00	£605.13
ACT1 V4.0 W95/NT UG	£75.99	£89.29
ACT V4 5 USER UPGRADE	£349.00	£410.08
ACT V4 10 USER	£1,151	£1,352.43
TELEPOWER PRO V3.0	£26.00	£30.55
TELEPOWER PRO V3 10 USER	£209.00	£245.58

David Sales



\*Next-day delivery from £6.85 E&OE. All prices exclude delivery, see page 2 for terms and conditions

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Internet site [www.software-warehouse.co.uk/](http://www.software-warehouse.co.uk/)



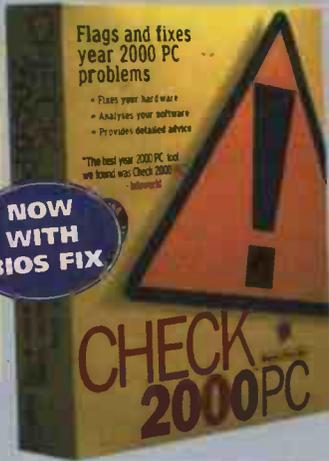
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The millennium bug doesn't affect just hardware. It can be even more devastating to software and data files. Check 2000 PC from Greenwich Mean Time is dramatically more sophisticated than simple BIOS checking tools, providing detailed advice on all your critical year 2000 software problems.

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- Gives advice on avoiding problems inherent in many thousands of popular shrink-wrapped software packages
- Helps prioritize software and data problems for timely repair
- Facilitates ongoing monitoring and protection of your PC systems



**NOW WITH BIOS FIX**

GRE009 Check 2000PC .....£49<sup>95</sup> (inc. VAT £58.69)

Greenwich Mean Time

FOR MORE INFORMATION SEE OUR WEB SITE AT:  
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## OmniPage Pro v9.0

The world's leading Optical Character Recognition (OCR) software

The new version of OmniPage Pro 9.0 includes a host of new and enhanced features that make OCR more accurate, more robust and easier to use than ever before.

New colour support maintains colour graphics on your scanned pages and displays them in all OmniPage views as well as in your word processor. New support for table objects means that OmniPage Pro can automatically identify a gridded table and recreate it as a table object in Word and Word Perfect. It even retains the lines of the table! There is also a new Table Toolbar which enables you to manipulate the table within OmniPage Pro.

OmniPage Pro 9.0 also includes a new mode specifically designed for spreadsheets and offers improved handling of single column documents, a more comprehensive OCR wizard, better handling of reversed-out text and support for Multi-function devices and Windows 98!

Plus - OmniPage 9.0 also includes Caere's PageKeeper Standard document management software

- New and Improved Features**
- New Colour recognition and output
  - Improved recognition of table formats including the lines!
  - Improved spreadsheet recognition
  - Improved recognition of single column documents (i.e. Legal documents)
  - Improved Wizard
  - Improved OCR Proofreader with resizable box for ease-of-use
  - Includes PageKeeper Standard document management software
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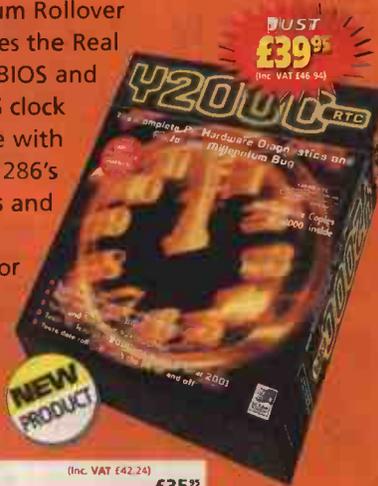
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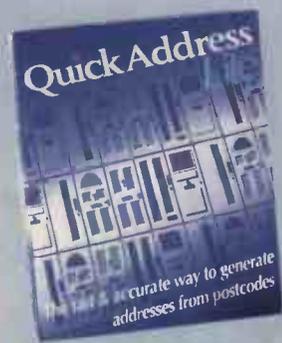


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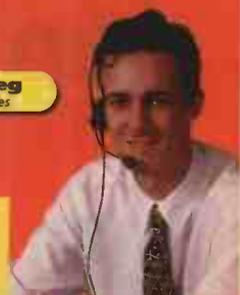
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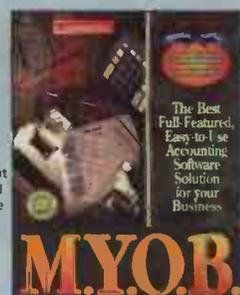
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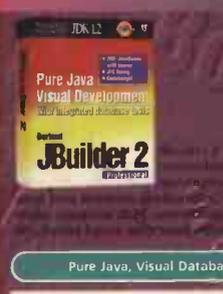
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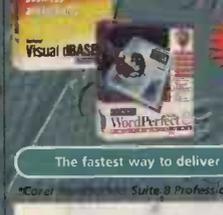
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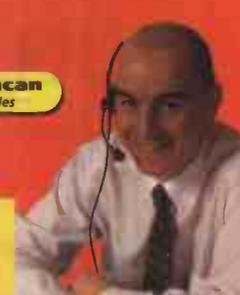
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LINE 50 FIN/CONTR NW VS	£1,650.00	£1,938.75
PAYROLL VS 100EMPL 3.5	£425.00	£499.38
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PAYROLL VS UNLIMIT 3.5	£750.00	£881.25
PAYROLL VS 50 EMPLOYEES	£300.00	£352.50
PAYROLL VS 100EMPLOY	£425.00	£499.38
PAYROLL VS 150EMPL	£550.00	£646.25
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**THE FRIENDLY COMPUTER SPECIALISTS**

## PlanIT Health & Safety 2

### Protect yourself & your business

Up-to-date health and safety policies are used to schedule your insurance and employee contracts, especially if your company employs five or more people, it's the LAW!! Health and Safety at work is an issue which affects every working man and woman, yet is surrounded by mystery, complex technology and confusion. PlanIT Health and Safety is designed to remove the confusion from UK and European Health and Safety legislation. It makes it easy to implement and maintain your own effective health and safety programme which conforms to all current regulations.

- Risk Assessment Manager**
- Identify hazards in your workplace
  - Identify where precautions are needed
  - Evaluate the severity of risks and how they will occur
  - Produce printed reports for staff, insurers and inspectors
  - Prioritise your action programme
  - Graphically represents reports using the charting tool included

- Health & Safety Forms**
- HSE forms F2508 and 2508A for reporting cases of injury and disease under the RIDDOR 95 regulations
  - Safety Representatives Inspection Forms
  - Hazard Identification and Risk assessment sheets
  - Internal Accident report forms

- Accident Report Manager**
- Record time, date and location of the accident
  - Identify who was injured
  - Detail type of injury sustained
  - Keep track of vital witness statements

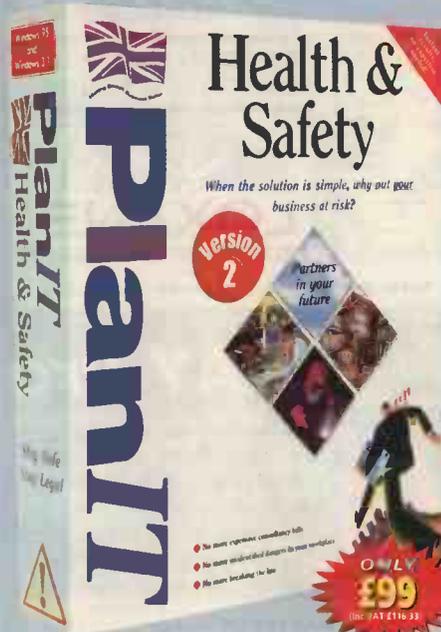
- Safety Policy Editor**
- Safety and personnel training
  - Workplace inspections
  - Consultation
  - Accident investigation & reporting
  - First Aid

### PlanIT Health & Safety PRO

Health & Safety Pro contains everything in PlanIT Health & Safety 2, plus a comprehensive control of Substances Hazardous to Health (COSHH) module

- Allows you to make all important risk assessments regarding the hazardous substances contained on your premises
- Critical chemical information: Keep record of how to store and dispose of chemicals and what action to take in an emergency.

**DOWNLOAD PRICE ONLY**  
**£88<sup>95</sup>**



RMG081 PlanIT Health & Safety V2 .....£99  
(inc. VAT £116.33)  
RMG084 PlanIT Health & Safety PRO V2 .....£270  
(inc. VAT £317.25)

**FREE PlanIT Legal Letters**  
**(worth £24.95)**

when you purchase PlanIT Health & Safety V2 or PlanIT Health & Safety Pro



- Financial Adviser**  
**£17<sup>95</sup>** Fully Inclusive
- CV Kit**  
**£14<sup>95</sup>** Fully Inclusive
- Start-Up Business Plan**  
**£35<sup>95</sup>** Fully Inclusive
- Ltd Company Formation**  
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- Sales Letters**  
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### Next-day £6<sup>95</sup>

We do not charge a premium for next-day delivery. All small in-stock items are delivered next working day for £6.85 + VAT. Subject to terms & conditions on page 2.



### Huge Stocks

Our aim is to fulfil 95% of orders from stock. Our financial stability ensures that we hold a minimum of 90,000 items in-stock.



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Mail-order lines are open 7 days a week 8am to 8pm Monday to Friday and 9am to 5pm Saturday and Sunday.



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We have won more awards for products and services than any other software mail-order company.



## PRICE PLEDGE

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**ONLY £99**  
(inc. VAT £116.33)



**DOWNLOAD PRICE ONLY**  
**£87<sup>95</sup>**  
Fully Inclusive



RMG041 PlanIT Contracts & Agreements .....£99  
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Index on page 2





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Save Time and Money! Whatever the size of your company, PlanIT can help with raising finance, composing agreements and business letters, strategic planning, managing employees, Health and Safety legislation, employment law and many more of the more mundane issues company managers are now forced to handle.

PlanIT can save you days of your own time and thousands upon thousands of pounds in 'professionals fees'. Refreshingly, PlanIT is a British company providing British business people with British business expertise on CD-ROM. All PlanIT software has been written with the advice of the very best professionals in the business.

PlanIT will help you run your organisation professionally, present your organisation professionally and help you stay the right side of the deluge of regulations you have to face day to day. PlanIT software is all easy to use. If you can use a word processor you can use any PlanIT product. They all run under Windows 3.1 or Windows 95. PlanIT gives you unlimited free technical support and a full unconditional 60-day money back guarantee. PlanIT software has a wide range of products to help you in your business. The products are low cost and are all equivalent to hundreds of thousands of hours of expensive professional expertise.

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Application titles include:

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- PlanIT Staff Appraiser
- PlanIT Health & Safety
- PlanIT Business Plan
- PlanIT Letters
- PlanIT Contracts & Agreements



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FIRE PROVISION IS NOW A MANDATORY REQUIREMENT FOR UK BUSINESS!

**NEW PRODUCT**

FIRE Precautions (Workplace) Regulations 1997 now requires UK businesses to have formal fire provision in place by law. Whilst this poses an urgent problem for companies that have not complied with earlier, voluntary legislation, it also means that employers with existing arrangements for fire safety must review their plans without delay. Failure to comply with the new Fire Provision will result in personal liability, hefty fines or even a prison sentence for the company directors.

PlanIT Fire Safety answers this new obligation to UK businesses by providing a CD ROM based fire safety Programme to produce a formal fire provision in an efficient and cost effective manner.

PlanIT Fire Safety is one of the wisest investments you will make providing your business with:

- Fast, easy access to material required to help your company comply with the new mandatory legislation
- Freedom from worry of possible prosecution
- Save on costly fire safety consultation fees
- Cost effective routes to training requirements specified in Local Authority Fire Certificates
- Safer working conditions for company employees and visitors
- Access to pre-tender document requirements for Local Authority and Governments contracts
- Evidence that Duty of Care has not been neglected should legal action take place
- Assistance with meeting the stipulations of your fire and commercial insurance policy
- The statutory provision you will need for ISO 9002 compliance

PlanIT Fire Safety is available on CD ROM plus binder providing businesses with everything that is needed to upgrade their existing fire safety provision.

- Staff Training Programmes
- Company Fire Management Plan
- Company Fire Precautions
- Log Book
- Fire Safety Posters
- Premises Fire Risk Assessment

FROM **£175** (Inc. VAT £205.62)

New Fire Law for Every UK Business

AS OF JUNE 1ST



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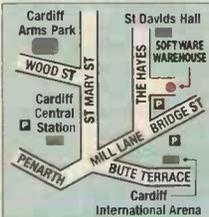


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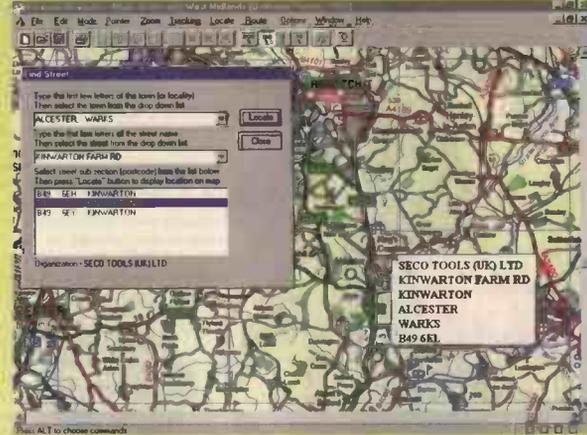
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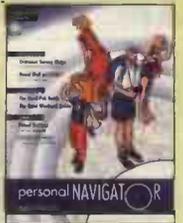


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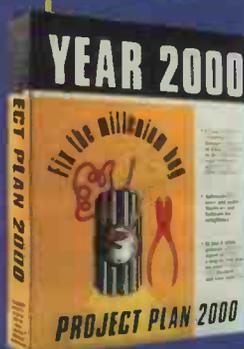
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**NEW PRODUCT**



- You enter your Company name, address and industry sector then Project Plan 2000 automatically scans your computer and produces a detailed printed report so you are sure their software and other products are millenium compliant
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Managing Employee information has never been easier

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**KEY FEATURES**

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  - Report Writer - has over 70 pre-defined graphs and reports as standard
  - Archive - keep a complete history of past employees
  - Personnel Advisor - a comprehensive on-line employment law guide.
  - Diary - track key employee dates easily.
- 30 days free support



## KWIKID

Creating Professional ID cards has never been easier

With KWIKID creating employee ID badges has never been easier. This innovative product includes everything you need to create professional employee ID badges - the digital camera enables you to take employees images quickly without the hassle of traditional cameras, film and processing. Drop the image into one of the pre-defined templates in the software or create your own. Print the cards onto the specially designed stationery supplied using your own laser or inkjet printer. Insert the completed card into the self-laminating pouches and there you have it...a professional ID card in seconds. Works stand alone or links to Visual Personnel or Personnel Assistant.

**KEY FEATURES**

- Digital camera (colour screen-top or handheld version)
- Software with ID Card template designer
- Consumables to make 100 completed ID Badges



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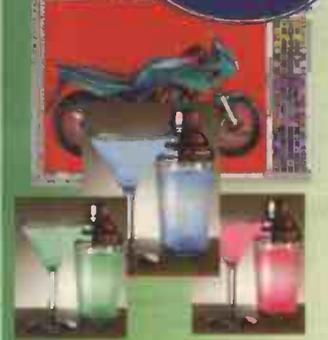
DrawPlus does it all - from decorative page elements and logos to full-page illustrations - and everything in between. And now you can add animated Web graphics and professional-quality, anti-aliased blend, fill, and transparency effects to that list.

### Great Features in Serif Design Studio

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- Transparency Effects
- Intelligent Colours
- Natural Curve Editing
- Animation Mode
- New Graphic Functions
- Improved Output

- Samples and Wizards
- Total Ease-of-Use
- QuickShapes
- Professional-Standard Drawing Features
- Backdrop Wizard
- Watermark Wizard
- Border Wizard

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Intelligent colours, perfect for instantly experimenting with colours without having to spend hours re-editing your artwork

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The software which revolutionised the DTP market is now packed with even more creative design tools - and is even easier to use! PagePlus 5 comes with a host of extra features which combine to give you the ability to create extraordinary newsletters, posters, leaflets, invitations and much, much more, with astounding ease, speed and flexibility.



- In addition to all of the existing powerful PagePlus features - page wizards, word processing tools, integrated text effects, versatile printing and a huge library of over 400 fonts, and over 2,500 Clipart images PagePlus 5 offers you .....
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- **Universal Portfolio Store** your favourite designs for use in any publication.
- **Intelligent Text Fitting** - Scale story text precisely to fit available frame area.
- **Photo Optimiser** - Get the best results for each photo on your particular printer.

- **Mail Merge** - Merge data from any character-delimited address list file.
- **Index Wizard** - Compile a professional style index complete with headings, sub-headings and page references.
- **Table of Contents Wizard** - Automatically collect any text into a table of contents.
- **Calendar Wizard** - Just click and drag to fit your calendar to a column or whole page.
- **Integrated Table Editor** - Vary your table style with just a few mouse clicks.

SER023 **Serif PagePlus 5** (inc. VAT £58.69) **£49.95**

# Harvard Graphics 98

**The Easiest Way to Create Professional Presentations**

No more stress when you need to outshine the rest. Whether you present your ideas with charts, slides, or multimedia presentations, you'll look your absolute best with Harvard Graphics 98 - the number 1 rated presentation software.

Harvard Graphics 98 retains all the features that have made Harvard Graphics the #1 rated presentation Package including, Pre-designed presentations, Design Checker, Sophisticated Data Charting, Multimedia Support, step-by-step guidance, drag and drop access to clip art images, and Quick Advisor to help you work efficiently with designs.

### New Features for 98

- **Updated for full Compatibility and Optimisation**
- Redesigned to work with Microsoft Windows 95, Windows 98 and Windows NT 4.0
- **Year 2000 Compliant** No need to worry about whether Harvard Graphics 98 can support your requirements for the millennia. All data fields handle proper formatting of prior and post 1999-2000 year formats.
- **Internet / Intranet Presentations**
- With Harvard Graphics 98 you can publish your presentations to the Web or Corporate Intranet using built-in Harvard Webshop Publisher™. Publishing to the web is a simple wizard driven process. No complex and confusing HTML programming. No special conversions, just point, click and publish to a company wide or worldwide audience.
- **Updated Import / Export Capabilities**
- Harvard Graphics 98 now supports import of data from Excel spreadsheets version 95 & 97. Directly read and write Harvard Graphics for Windows version 1.0, 2.0, 3.0, and 4.0. Various graphic formats include BMP, GIF, PCX, WMF, CGM, DRW, TIF and More.
- **Additional Content**
- Over 15000 pieces of graphical content are included with HarvardGraphics 98. Photos, clipart and stock images are all included to enhance your presentation



**COMPETITIVE UPGRADE FROM ONLY £99** (inc. VAT £116.33)

SPC004 **Harvard Graphics 98** (inc. VAT £292.58) **£249**

SPC005 **Harvard Graphics 98 Competitive U/G** (inc. VAT £116.33) **£99**

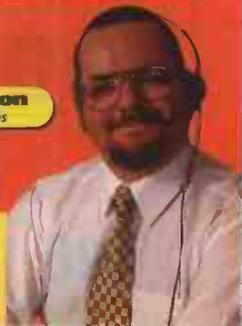
\*Upgrade from any competing presentation package, dtp or word processor

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AUTOSKETCH BUILDING SERV	£65.00	£76.38
AUTOCAD LT V2 FOR 3.1 CD	£315.00	£370.13
AUTOCAD LT WIN 95 VER UG	£199.00	£233.83
AUTOCAD LT 3.11cuEASY	£149.00	£175.08
AUTOCAD LT 3.11cuQUICK	£149.00	£175.08
AUTOSKETCH ARCHITECT 2 LIB	£65.00	£76.38
AUTOSKETCH INT ARCHIT LIB	£65.00	£76.38
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LT ELECTRICAL SYMBOL LIB	£115.00	£135.13
AUTOCAD 97 UG CD	£189.00	£222.08
AUTOCAD LT V2 WIN3.1 3.5	£399.00	£468.83
AUTOCAD LT 97	£429.00	£504.08
AUTOSKETCH V5.0	£99.00	£116.33
AUTODESK VIEW V2.01	£149.00	£175.08
AUTODESK VIEW VER2.5	£650.00	£763.75
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TURBOCAD V4	£89.95	£105.69
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VISIO PRO V5.0+10 USER	£1,845.00	£2,167.88
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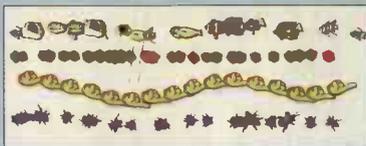
Paint Shop Pro provides all the tools to create and edit all kinds of images, from web pages and photographs to screenshots and line drawings. Plus screen capture and graphics conversion in a single, easy-to-use package. Its more than just a paint program. A full range of brushes for drawing and enhancing artwork now with even greater control and customisation. Specially-designed special effects, filters and deformations plus support for industry-standard effects filters and extensions provide all the creative opportunity of products may times the price. Now includes a special paint tubes feature allowing you to paint with pre-drawn objects for borders of tropical fish or backdrops of autumn leaves.

Requires Windows 95,98 or NT4

**New Key Features**

- Layers
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- Customisable brushes
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- Interactive on-screen deformation

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DIG053	Paint Shop Pro v5	.....(inc. VAT £82.19)	£69.95
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## Screensaver creation with Fandango

Fandango is the fast, fun way to create screensavers of all kinds for Windows 95/NT4. It's quick and easy to learn and requires absolutely no programming.

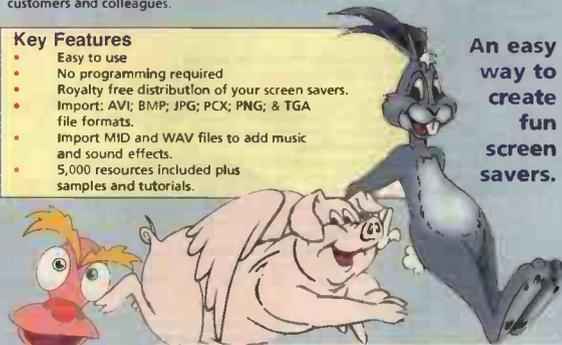
You can use any of the thousands of specially created actors included with the software or incorporate your own graphics, logos or images. AVI files can even be used to create screensavers. Set up your screensaver style with the touch of a button by choosing from one of eight styles available:

You can also customise your range of settings to give almost limitless possibilities with no royalties to pay, your screensaver can be distributed freely to friends, family, customers and colleagues.

**Key Features**

- Easy to use
- No programming required
- Royalty free distribution of your screen savers.
- Import: AVI; BMP; JPG; PCX; PNG; & TGA file formats.
- Import MID and WAV files to add music and sound effects.
- 5,000 resources included plus samples and tutorials.

An easy way to create fun screen savers.



DIG042	Fandango	.....(inc. VAT £26.97)	£22.95
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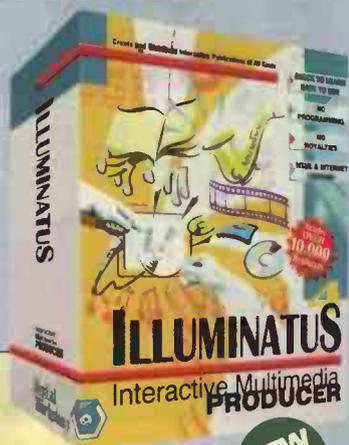
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**New Key Features**

- Publish to Internet, Screensaver as well as Windows
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- Irregular-shaped borders and semi-transparency even for video.
- In built animation, scoring and bookmarks
- Now supports Animated GIF, HTML, Quicktime, MPEG and more.



No complex scripts and no programming required. No royalties to pay on distribution. Requires Windows 95 or NT4. Creates publications which can run on Windows 3.x as well.

DIG054	Illuminatus v4	.....(inc. VAT £176.19)	£145.95
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Photo Vista ..... (Inc. VAT £39.99) **£34.93**

## LivePix 2.0 Deluxe™

### Do More With Your Photos!

The award-winning photo software that delivers superior quality photo results...

LivePix 2.0 Deluxe provides home PC users with powerful, easy-to-use tools to turn ordinary photos into extraordinary photos! With LivePix proprietary FITS™ technology, photo-editing is made easy - enhance your photos or create spectacular photo projects like a professional



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- High technology made easy from one of the creators of FlashPix™
- True Photo-quality results provided with breakthrough FITS™ technology
- Intelligent templates™ allow users to produce impressive photo projects in four easy clicks

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- Fix imperfections
- Automatically correct colour
- Adjust brightness and contrast
- Convert your photos
- Clone
- Distort
- Add & Edit text
- Apply special filters
- Share and send on the internet

LivePix 2.0 Deluxe ..... (Inc. VAT £34.99) **£29.78**

## realitystudio

### The Fastest way to build totally Immersive Web Sites!!

Reality Studio is the first web content creation solution to knock down all the barriers to "being there".

- A point and click development environment that lets you build an immersive experience in minutes.
- Create 360° Panoramas using PhotoVista (also available separately)
- Create high resolution FlashPix images
- Create 3d objects that you can rotate full circle
- Drag and drop hot spots



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- Live Picture Image Server
- FlashPix Photoshop Plugin
- Live Picture Object Modeller
- Live Picture Viewer

Reality Studio ..... (Inc. VAT £311.38) **£265**

## Design in Motion

### Illustrate in Freehand, animate in Flash

This suite of tools is FreeHand 8, Flash 3, and Insta.HTML, that creates web pages out of Freehand documents at the touch of a button. Design in Motion means that users can explore new creative possibilities like transparency and intuitive reshaping tools.



Freehand 8 ..... (Inc. VAT £327.78) **£279**  
 Flash 3 ..... (Inc. VAT £233.82) **£199**  
 Design in Motion V1 U/G ..... (Inc. VAT £281.94) **£239.95**

## Dreamweaver 1.2

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Dreamweaver 1.2 ..... (Inc. VAT £269.08) **£229**

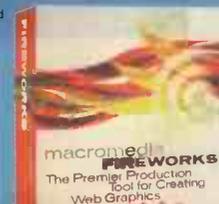
## Fireworks

### The Premier Production Tool for Creating Web Graphics

Fireworks is the first start-to-finish production tool for creating and optimizing graphics for the web. Images, vectors, text, drop shadows, special effects and more - in Fireworks, everything is editable all the time. Easily produce GIF animations, image maps, Javascripted buttons - even automatically slice images! Quickly preview image quality while optimizing file size for graphics that download fast and look great.

With all the essential tools in one place you won't have to jump between applications and utilities. You'll be productive right away with familiar keyboard short cuts, tools and concepts. Import layered FreeHand and Photoshop files or launch and edit Fireworks from within Dreamweaver.

- KEY FEATURES
- The essential tools all in one unified work environment
  - Preview for quality while optimizing images for the smallest size files possible
  - Everything is editable all the time. In real-time
  - Focus on producing webgraphics without jumping between applications
  - Get started fast using familiar tools and keyboard shortcuts



Fireworks ..... (Inc. VAT £280.83) **£239**

## Director 6.5

Director 6 for Windows is the tool of choice for all your multimedia needs. This popular program includes powerful features that let you easily combine, text, graphics, animations, sounds, digital video and interactivity to create dynamic multimedia productions. Use Director to create entertainment and education CD-ROMs, simulations, visualizations, digital publications, multimedia corporate presentations, electronic reference materials, software demonstration disks and more!

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  - Save as Java
  - Powerpoint in port
  - Powerful media editing, animation, and integration functions
  - Flexible authoring metaphor and tools
  - Extensible programming through Lingo, Xtras, C, C++
  - Approachable, professional user interface
  - Tightly integrated Studio applications for 3D, sound, and bitmaps
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Director 6.5 ..... (Inc. VAT £880.00) **£749**

Director Multimedia Studio ..... (Inc. VAT £930.83) **£799**

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MASTERCLIPS 150,000 CLIPA	£14.95	£17.57
GRAPHICS CONVERTER 97	£29.99	£35.24
MASTERCLIPS 202000N/GRAPH	£42.00	£49.35
MASTERCLIPS 75,000 WIN	£21.00	£24.68
MASTERCLIPS 45000N/GRAPHI	£17.00	£19.98
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MACROMEDIA DIRECTOR 6 UG	£399.00	£468.83
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MACROMEDIA DMS U/G V6.0	£499.00	£586.33
MACROMEDIA FLASH 2 EDUC	£149.00	£175.08
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MACROMEDIA DMS U/G V6.5	£499.00	£586.33
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MACROMEDIA DMS V6.5 CD	£799.00	£938.83
MACRO DIRECTOR V6.5 WIN	£749.00	£880.08
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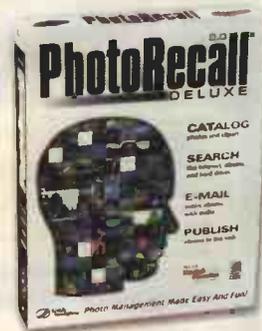
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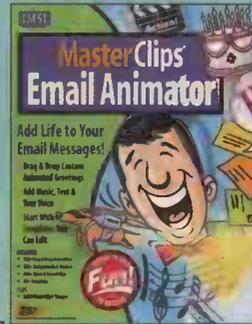
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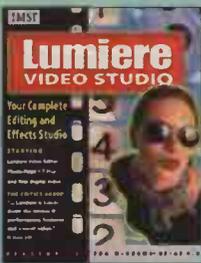
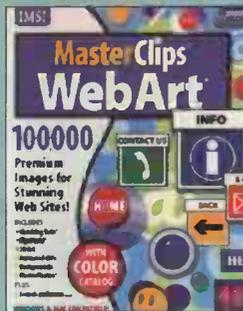
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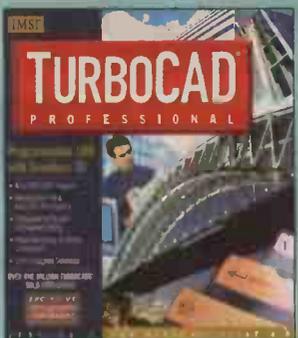
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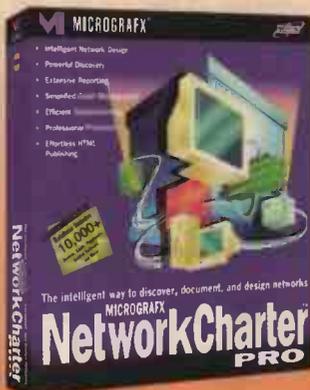
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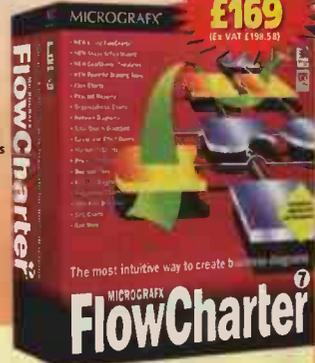
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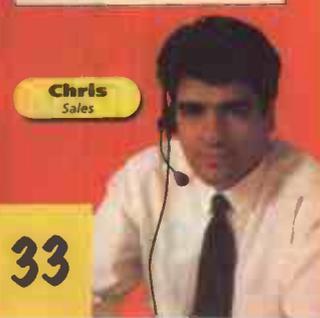
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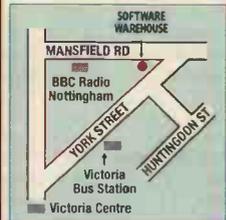


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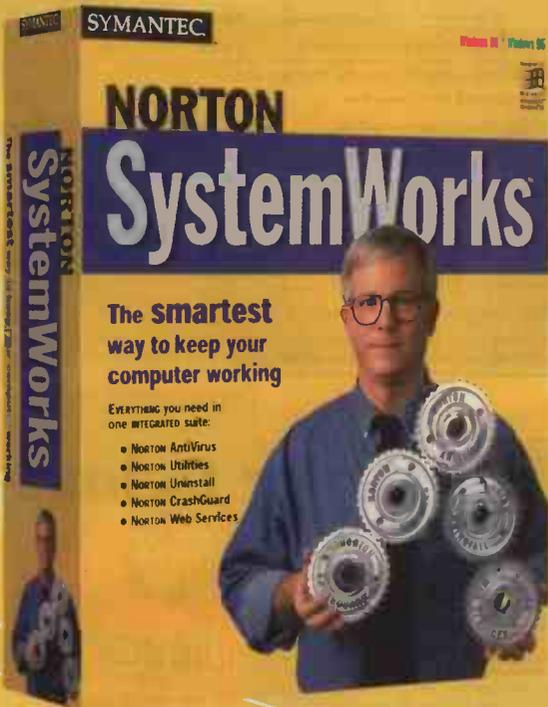
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Users with one PC will need a workstation pack for Windows 3.x/DOS, Windows 95, Windows NT Workstation and OS/2 or an Anti-Virus Toolkit for SCO UNIX or Macintosh

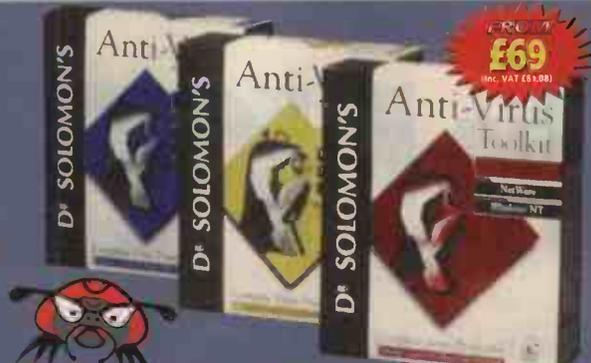
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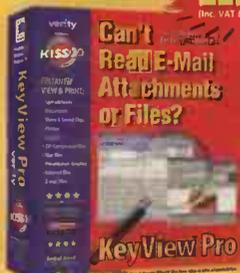




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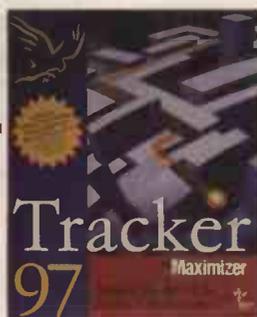
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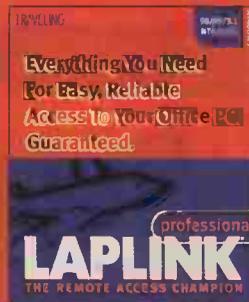
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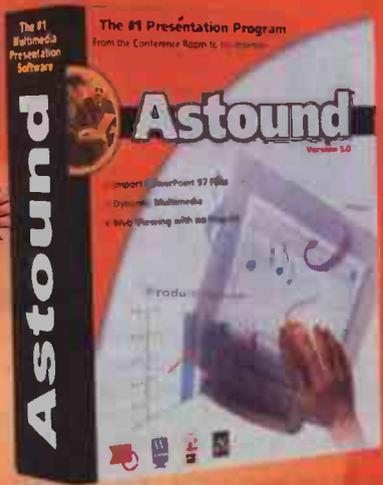
We realise that you may be using Microsoft PowerPoint as your standard corporate presentation tool. Beef up those presentations using Astound's native multimedia capabilities! Load any presentation created with PowerPoint directly from the File, Open menu.

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### View over 200 file formats:

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### View Internet files without downloading:

look at Internet files before you download them, saving hours of wasted time and phone bills and saving your hard disk from unwanted clutter!

### What's new in V4.5?

- Support for MS Word 97, Excel 97, Freelance 97, and Lotus 1-2-3 formats
- Integration with MS Outlook 97, Eudora for Windows 95 and NT 4.0 and Internet Explorer 3.0 for Windows 3.1.
- Host for third-party plug-ins, allowing you to use your favourite plug-ins within the Quick View Plus window.

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The quickest way to print your view.

Seamlessly integrates into windows 95/Windows NT 4.0 including Microsoft Exchange. Instantly see e-mail attachments.

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See files as they were originally created. QuickView Plus displays columns, headers/footers, page numbers and footnotes. Even embedded graphics and OLE objects remain intact!

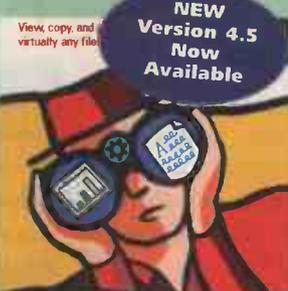
QuickView Plus identifies the type of file being displayed - even if the extension is incorrect.

Supports hyper-linked documents, so you can instantly look at related files.

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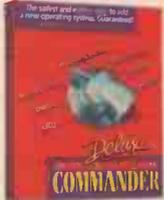
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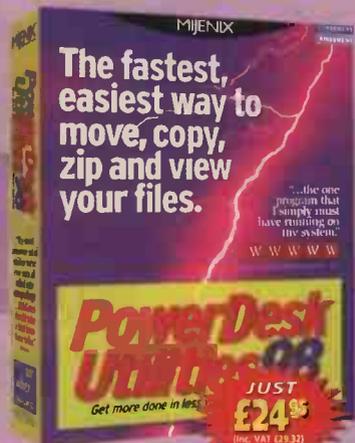
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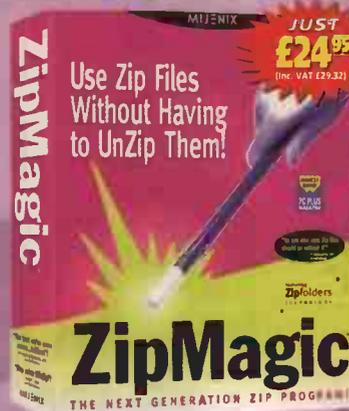
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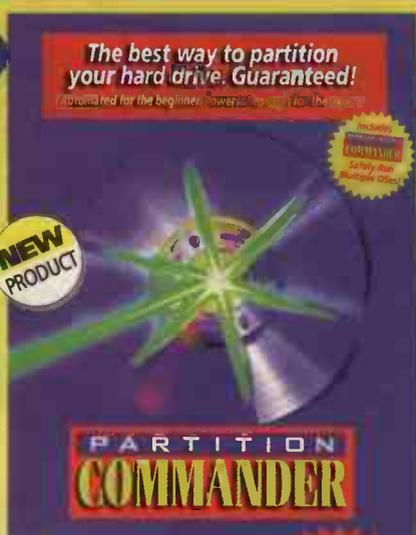
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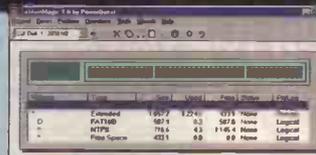
PartitionMagic®--PowerQuest®'s patented, award-winning partitioning solution--allows you to create, resize, move, and convert partitions on your hard drive without destroying data. Partitioning allows you to safely run multiple operating systems, organize and protect your data, effortlessly convert from FAT to FAT32 and back again, and reclaim wasted disk space. New in Version 4.0 is BootMagic, a powerful new boot manager for running multiple operating systems. Other new features include a wizard-driven interface that simplifies partitioning tasks, native Windows 95/98 and NT executables, batching functionality, and support for large hard drives over 20GB.

### NEW FEATURES

PartitionMagic comes with some exciting new functionality and the interface has changed to make it even easier to use. Here are some things you can look for in the new version:

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- Support for larger than 20GB hard drives
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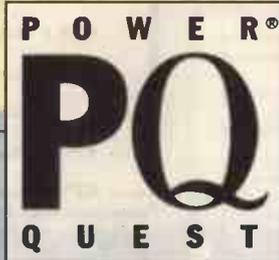
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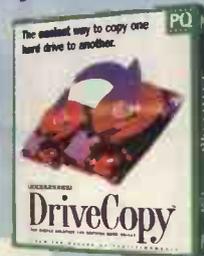
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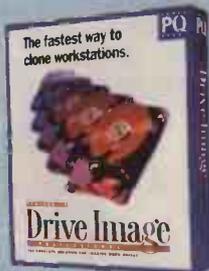


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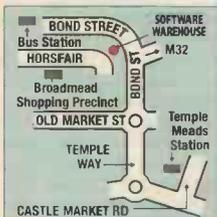
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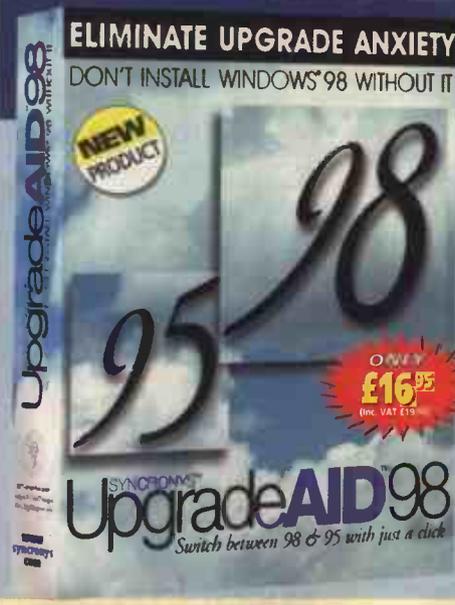
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### The IBM World Book 1999 Multimedia Encyclopedia

The IBM World Book 1999 Multimedia Encyclopedia helps students of all ages learn, achieve and succeed Easy to use streamlined interface

World Book's interface has a sleek, modern graphical look that makes it easier for consumers to access and retrieve information as well as conduct searches. Users also can now browse all the multimedia elements of each disc of the World Book 1999 Multimedia Encyclopedia

#### New multimedia features

World Book's multimedia features combine superior video and sound content with innovative technology. Interactive simulations provide a fun introduction to basic scientific principles. Families can now access a wider collection of videos and zoom-in on a world atlas with an animated distance locator. All multimedia elements support and extend World Book's traditional emphasis on learning.

#### New tools for students

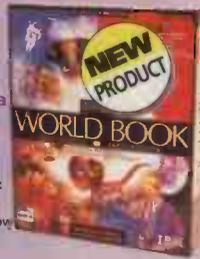
The Deluxe Edition features a homework tool kit that includes a Research Wizard, Chart Wizard and Timeline Wizard to help students improve their skills in the areas of research and writing. A pull down menu displays additional tools such as the highlighter, sticky notes and multiple printing options.

#### Exclusive high quality content.

IBM's World Book 1999 Multimedia Encyclopedia offers thousands of new articles from World Book's exclusive archives covering a wide range of interesting topics. Users receive article updates for 12 months, beginning the day they first go on-line, which keep the encyclopedia current by attaching information capsules to articles. The product includes a free 30 day trial from IBM Internet Connection Services. Users also receive 30 days of free access to Infonautics Comprehensive Electric Library

#### Key Features

- It is designed to meet National Curriculum needs of Primary and Secondary School students and is the
- Only multimedia Encyclopedia endorsed by NCET.
- On-line features and services allowing internet users to easily explore current information without ever leaving the programme.
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ViaVoice 98 Executive and ViaVoice 98 Home are the latest additions to IBM's best selling family of speech recognition products.

IBM's award winning speech recognition software is fun and easy to use. The ViaVoice 98 products enable you to talk to your PC in a natural way. The high recognition accuracy means that you can achieve results faster than most people can type! In addition with ViaVoice 98 Executive you can use your voice to tell your computer what to do.

#### Features of ViaVoice 98 Home and ViaVoice 98 Executive

- Continuous speech for increased productivity
- Dictation direct into Microsoft Word (version 7 or 97)
- Use of single commands to generate standard phrases and paragraphs
- Natural language commands for editing documents in Microsoft Word
- UK English vocabulary of 56,000 words expandable to 120,000 words
- 240,000 word back-up dictionary
- Natural number formatting
- Multiple users can be set up on the same PC
- Runs under Windows 98 or Windows 95
- Runs on laptop as well as desk top computers
- Text-to-Speech feature for reading documents out loud

#### Additional features of ViaVoice 98 Executive

- Support for Windows NT 4.0
- Commands and Control of desktop and applications
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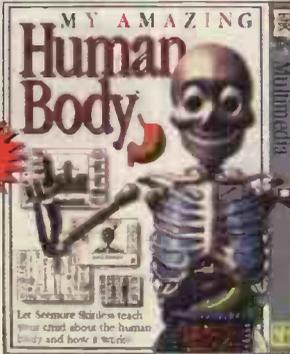
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### My Amazing Human Body



This superb new CD-ROM for 6-10 year olds provides a wonderfully entertaining insight into the workings of the human body. Stunning 3D graphics combined with highly interactive games, activities and information screens, provide an unparalleled resource that will stimulate children to explore and find out for themselves. Prompted by Seemore Skinless, an enthusiastic animated 3D skeleton, children can pull the body apart, operate the "controls" of the digestive system or even extract their own teeth - all from the safety of the home computer! Packed with information, this disc is a comprehensive reference resource as well as a stimulating activity disc, that will keep children engaging for hours.

#### KEY FEATURES

- **INTERACTIVE LEARNING TOOL**  
Special interactive features allow children to "take control of" the body themselves so that they really "learn by doing".
- **SPECIALLY CREATED 3D CHARACTER**  
Seemore Skinless guides, entertains and adds a humorous quality that makes the disc a joy to explore.
- **COMPLETE REFERENCE RESOURCE**  
packed with information and an easy-to-use-index, the disc provides an excellent reference resource for young children

#### PERSONALISED DISC

Children can personalise their own disc with information about themselves, their families and their friends.

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- Advanced PhotoReal colour printing
- 40% Speed Improvement
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- Win 95, 98, NT 4.0 & Mac compatible
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- 1440dpi colour & true black printing with EPSON Super MicroDot™
- Fast print speeds
- EPSON PhotoEnhance 3 for Optimisation of Digital Images
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The printer driver has been improved and is now easier and more intuitive to use. The EPSON Stylus COLOR 440 incorporates many of the enhancements of the EPSON Stylus COLOR 640, with the focus on ease of use. The EPSON Stylus COLOR 440 is easy to use, with on-line documentation, a dual-cartridge ink system, bonus media and software to ensure a fast-start - there's no stopping once the creative process swings in to action.

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- Designed for ease-of-use - ideal for first time buyers
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- Fast print speeds
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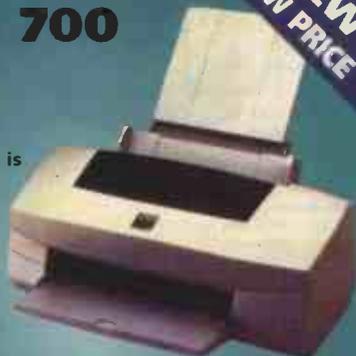
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- Intelligent sleep mode

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- 600 dpi printing
- Flat paper path
- 5 year warranty on LED print head
- Software driven menu in DOS, Windows 3.1 and 95
- 2MB standard
- 12 months on-site warranty



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OKI023 Okipage 6ex .....**£219**

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- 6 pages per minute page printer
- Windows NT3.51 and 4.0 drivers included
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- Flat paper path
- 5 year warranty on LED print head
- Software driven menu in DOS, Windows 3.1 and 95
- 2MB standard
- 12 months on-site warranty



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- R3000 RISC processor
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OKI041 Okipage 20nps PostScript Version .....**£899**



OKI044 Okipage 20endx Duplex/Network .....**£1069**

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OKI111 Okipage 8c .....**£2199**

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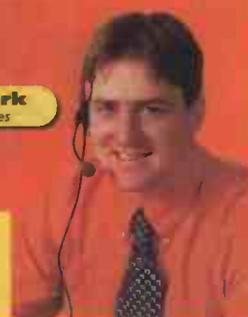
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- |  |   |
|--|---|
| <p><b>Brotherfax 920</b></p> <ul style="list-style-type: none"> <li>• Modem speed 9600 bps</li> <li>• Paper cassette (100 pgs)</li> <li>• 20 page memory capacity</li> <li>• Transmission speed 15 seconds</li> <li>• Caller ID</li> </ul> | <p><b>Brotherfax 930</b></p> <ul style="list-style-type: none"> <li>• Modem 14,400</li> <li>• Paper cassette (100 pgs)</li> <li>• 20 page memory capacity</li> <li>• Digital answer machine</li> <li>• Transmission speed 9 seconds</li> <li>• Caller ID</li> </ul> |
|--|---|

BRO014 Brother Fax 510 .....£127 (Inc. VAT £149.23)

BRO041 Brother Fax 1020 .....£238 (Inc. VAT £279.65)

BRO085 Brother Fax 920 .....£195 (Inc. VAT £229.13)

BRO086 Brother Fax 930 .....£238 (Inc. VAT £279.65)

## Brother MFC-9050

This new multi-function centre from Brother gives you a complete office in a compact unit not much bigger than an average printer.



**ONLY £425**  
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**Key Features**

- It offers high levels of resolution across its range of functions - faxing, printing and copying and it only requires one plug and one cable to connect to your PC.
- It has 600x600dpi laser print quality in Windows, print at 6ppm, has 124 speed dial stations and as a copier it has document sorting and 50-200% reduction/enlargement.

BRO091 Brother Fax MFC-9050 .....£425 (Inc. VAT £499.38)

BRO053 MC3000 Colour-Multi Centre ..£449 (Inc. VAT £527.58)

## Brother MFC-Pro 700C

The new MFC Pro 700C is a Multi-Functional Centre. It provides a colour inkjet printer, colour scanner and colour copier and a colour fax at an entry level price.



**FROM £536**  
(Inc. VAT £629.80)

**Key Features**

<ul style="list-style-type: none"> <li>• As a fax</li> <li>• fast 14,400bps modem</li> <li>• telephone handset with answer machine 99mins recording time</li> <li>• Dual Access</li> <li>• 4mb memory (300 pages)</li> <li>• Optional upgrade 1 &amp; 2mb</li> <li>• As a printer</li> <li>• Up to 720x720dpi</li> <li>• Up to 5ppm mono printer</li> <li>• Up to 3.5ppm colour</li> </ul>	<ul style="list-style-type: none"> <li>• As a scanner</li> <li>• Colour scanner</li> <li>• up to 1200x1200dpi scan resolution with OCR</li> <li>• As a copier</li> <li>• up to 99 copies</li> <li>• 50-200% reduction/enlargement</li> <li>• 200 sheet paper input</li> <li>• PC Interface</li> </ul>
--	---

BRO069 Brother Fax MFC-Pro 700C ....£536 (Inc. VAT £629.80)

# XEROX PRINTERS



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- 17 pages per minute
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- Edge to edge printing

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- Up to 12 pages per minute
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**Docuprint XJ6C Inkjet**

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- Up to 7ppm mono/ 2.5ppm colour
- Photo quality output

XER082 Docuprint XJ6C Inkjet .....£114 (Inc. VAT £133.95)



**Xerox XJ8C**

- 8ppm monochrome, 4ppm colour printing
- 1200 x 1200dpi monochrome or colour
- Intelligent Colour software auto improves photos
- High yield black cartridge

XER086 Xerox XJ8C .....£149 (Inc. VAT £175.08)



**Mono Laser Printer P8e**

- Up to 8 pages per minute
- 600 x 600dpi resolution
- Large input (150 sheets)
- Microfine toner

XER085 Mono Laser Printer P8e .....£229 (Inc. VAT £269.08)



## Kyocera FS-600



**Features**

- Very fast processor ensures rapid delivery of first page
- Robust design and construction
- Low-cost modular upgrade options
- Low cost per page at a penny per page
- Ideal personal or shared printer
- 600dpi, 6ppm laser printer
- Cartridge-free technology
- 50mhz Power PC processor
- IEEE 1284 parallel plus option port
- Internal 150-sheet cassette
- Optional 250-sheet cassette
- Ethernet/serial Interface options

**JUST £229**  
(Inc. VAT £269.08)

KYO021 Kyocera FS-600 .....£229 (Inc. VAT £269.08)



## Kyocera FS-800



The compact size of the ECOSYS FS-800 conceals a powerful 8ppm printer engine driven by an ultra-fast PowerPC processor. With support for both PCL and PostScript level 2; 4MB memory as standard and user-friendly controls, it's a powerful and versatile personal printer.

The FS-800 is easily upgraded with the addition of an optional paper cassette to support a second paper type. Add a network option and you have a powerful printing system ideal for the smaller workgroup.

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(Inc. VAT £398.33)

**Features**

- Compact 8ppm laser design
- 50MHz PowerPC processor
- Reliable ECOSYS technology
- 4MB RAM as standard
- LCD control panel
- PCL5e and PostScript level 2
- 600dpi laser technology (1200dpi KIR2)
- Optional 250 sheet cassette
- Ideal for single users or small workgroups

KYO043 Kyocera FS-800 Printer .....£339 (Inc. VAT £398.33)

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<b>72 pin without Parity</b>	SIM024 <b>£11.86</b> (Including VAT £13.95)	SIM025 <b>£25.46</b> (Including VAT £29.95)	SIM033 <b>£42.46</b> (Including VAT £49.95)	X	X	X
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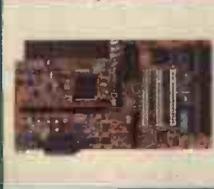
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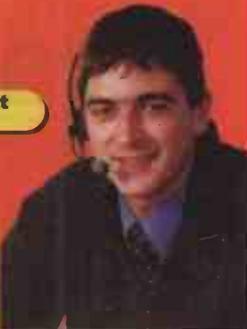
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- 200 GB of storage space on each compact Jaz cartridge basic coverage.
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- Packaged to suit you. Plug-in portable drive or compact internal modem that fits any standard 3.5" or 5.25" drive bay.

IOM021	Jaz 1Gb Drive (SCSI Internal)	£165
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**ONLY £149 (inc. VAT £175.07)**

IOM051	iomega BUZ	£149
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IOM081	Zip 100 USB	£99
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## Zip Starter Kit Everything you need to back up your stuff!

This little blue number is the hottest portable drive on the market. It's got hard drive-like performance. Its 100MB floppy-size disks have room to store all your stuff. So put one on your desk - it's bound to make it more interesting. The Zip Drive is really easy to install too, it simply connects to your printer port on your PC and then your printer connects to the back of the Zip Drive. The portable drive weighs about a pound, so you can take it anywhere, and a Zip disk fits right in your pocket.



Includes 6 Zip disks worth **£46.99 inc VAT**

IOM077	Zip Starter Pack (includes 6 Disks+software)	£109
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Flexibility for your data. The new standard for 6 pack and Recordit portable storage presentations. Graphics, pictures games and spreadsheets all handled with ease on your zip Save £'s when you buy the iomega multi coloured 10 pack.

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IOM020	Zip Drive (SCSI) ext	£79
IOM074	Ipa ATAPI Internal drive	£69
IOM077	Zip Starter Pack (PP Drive+6pack+software)	£109

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- Ditto FullBack™ System Recovery software makes recovering your stuff easy. Just one tape and two diskettes created from the software is all it takes.

IOM008	iomega Ditto Max Pro External	£169
IOM009	iomega Ditto Max Pro Internal	£139

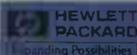
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- Excellent Image Quality (600dpi HSS)

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QUA122	FIREBALL EX	6.4GB	QM307600EXA	5400	9.5ms	£106.00	£124.55
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Win'95 & Win'98 ready  
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**Minimum system requirements:** Pentium class PC running Microsoft Windows 95 with a spare PCI bus slot, a minimum of 16Mb RAM, CD-ROM drive and 10Mb of hard disk space.

**Bus architecture:** PCI local bus. Plug and Play 2.1 compliant.

**Line interface:** ISDN BRI S/T

**Switch type:** EuroISDN2 & 2E

**Software:** CD enclosed with Mitel NetVoyager card drivers, simplistic wizard installation.

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NDIS WAN Miniport.

**Dimensions:** 120mm x 55mm

**Warranty:** One Year

**Support:** Technical hot lines, Internet web site: <http://www.mitel.com/netvoyager>



Photo: NetVoyager BRI only



**Features**  
Up to 128Kbps  
Ultra fast Web Access  
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**Minimum system requirements:** Pentium class Notebook PC running Microsoft Windows 95 with a spare PCMCIA slot, a minimum of 16Mb RAM, preferably a CD-ROM drive and 10Mb of hard disk space.

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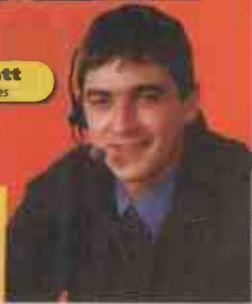


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#### Features

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- 69 billion colours
- Optical resolution: 600 x 1200 dpi
- Max resolution: 9,600 x 9,600 dpi
- 8.5" x 11.7" max scan area
- Prestol PageManager: All-in-one scanning solution
- UMAX Copy Utility: Turns your printer into a copy machine
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ACE051 VuegoScan 610PT(Parallel) & transparency feature £129  
(inc. VAT £151.58)  
ACE039 VuegoScan 610ST(SCSI) with transparency feature..£159  
(inc. VAT £186.83)

FOR MORE INFORMATION SEE OUR WEB SITE AT: [www.software-warehouse.co.uk/acer](http://www.software-warehouse.co.uk/acer)

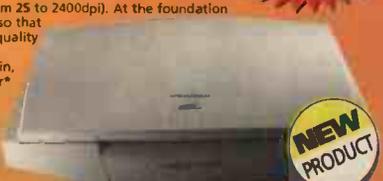
## Canon FB320P

## Canon

Unlike any other scanner you've ever seen! The new FB320P incorporates traditional Japanese design elements to create striking visual impact. But it doesn't just look good, it produces great looking scans as well. Set up and installation are so easy, with parallel port connection and bundled CD-ROM software.

- A novel design. A traditional approach - Colour image processing is a powerful tool for the visual. Imagination. Which is why hardware should be artware objects that resonate with the creative spirit of their user. In designing our new CanoScan FB series, we discovered our inspiration in the age-old aesthetic forms of traditional Japanese arts and crafts.
- Spectacular Image quality The CanoScan FB320P produces beautiful scans at 300dpi (software Interpolation ranges from 25 to 2400dpi). At the foundation of the FB320P is Canon's advanced LIDE technology, an array of sensors spanning the entire width of your document, so that images are produced without distortion at the edges. And in addition to sharp images, you also get fantastic colour quality
- 10bit input for red, green and blue means your scanner recognises over a billion different colours!
- Easy connectivity The CanoScan FB320P's parallel port interface provides simple installation with your PC - just plug it in, and you're ready to scan! What's more, the CanoScan FB320P can be slotted into the link between your PC and printer\* for convenient switching between scanning and printing, or even straightforward colour copying.
- \* Excluding printers using Windows Printing System (WPS).
- Complete software bundle Incorporates TWAIN, Image Editing & OCR software. Operating within Windows 95, 98 and NT 4.0 30 bit colour, optical resolution of 300 x 300dpi Connects directly to you PC via parallel port

**ONLY**  
**£75**  
(inc. VAT £88.13)



**NEW PRODUCT**

CAN099 Canon FB320P .....£75  
(inc. VAT £88.13)

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Index on page 2



# SOFTWARE WAREHOUSE



## INPUT DEVICES

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### YOUR PERFECT BUSINESS PARTNER

## ScanMaker X6

Microtek introduces the powerful new ScanMaker X6 to master even the most arduous tasks in the office: brochures, presentations and much, much more are no problem for this SCSI scanner! With its 600x1200 dpi optical resolution and 36-bit maximum colour depth the ScanMaker X6 is your perfect business partner. The award-winning SilverFast software is optional.

- Features**
- New "GO" button (launches the PC Software to scan, fax or copy)
  - Optical resolution 600 x 1200 dpi
  - Interpolated 9600 x 9600 dpi
  - Colour Depth 36 bit
  - Scan Area 216mm x 297mm (A4) (8.5" x 11.6")
- Software Bundle**
- ScanWizard (PC Mac)
  - Caere OmniPage LE (PC Mac)
  - Ulead PhotoImpact Full (PC Mac)
  - Kai's Photo5oop (PC Mac)
  - DocuMagix PaperMaster (PC)
  - Imagepaiz2Go! (Win 3.0) / ColorIt! (Mac)
  - Transparent-Media Adaptor



**NEW PRODUCT**

**36-bit**

## Phantom 336CX

**A SCANNER YOU CAN TAKE ON YOUR TRAVELS**  
Microtek's Phantom 336CX gives very high quality scans, and comes with a complete suite of software. It is so compact, it was taken to the PC FORMAT office in the bottom of a standard briefcase!  
The Phantom has a built-in EPP (Enhanced Parallel Port) and printer pass-through, which eliminates the need for an additional parallel port on your PC.

If you need extra speed, upgrade to the ScanMaker 336 which comes with extra software and its own SCSI card.

### PC FORMAT EDITOR'S CHOICE:

**Best for budget:**  
The new Phantom from Microtek is remarkable for two reasons: not only is it the cheapest we looked at, but it's also by far the smallest - and makes a peach of a partner for a lonesome laptop.

PC FORMAT Rating **88%**

## MICROTEK



**36-bit**

**ONLY £68.08**

- Features**
- Designed for ease of use and simplicity
  - Ultra streamlined and compact design
  - Extremely easy to install
  - Ideal for Notebooks
  - Contact Image Sensor technology
  - Lightweight, small, portable
  - OmniPage LE & Photo Express inc. **FREE!!**

SCA022 Phantom 336 CX...**£68.08**

SCA025 Scanmaker X6 SCSI.....**£179**

SCA021 Transparent Media Adaptor .....**£75**

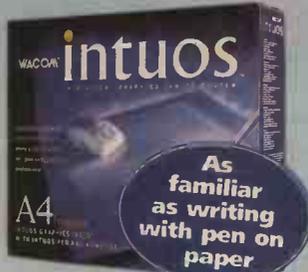
## WACOM



### Full graphics power at your fingertips

Forget your uncontrollable old mouse and discover just how creative you and your PC can be with PenPartner.

With no need for cable or batteries, pointing and clicking with the Wacom PenPartner UltraPen is fast and accurate in any program. What's more, it makes drawing expressive. Pencil lines or making sensitive strokes with an airbrush, paintbrush or felt pen are easy and precise. Just like with an ordinary pen or pencil, you can control exact strokes of a line. Edit and retouch photos, draw, paint and erase with nothing short of 100% control.



**As familiar as writing with pen on paper**

- WAC041 Pen Partner A6 .....**£49**
- WAC042 PenPartner A6 + Dabble V2.0 + Kai's Photo5oop SE .....**£59**
- WAC043 PenPartner A6 + Disneys magic Artist.....**£59**
- WAC032 Intuos A6 Tablet W95/NT .....**£119**
- WAC034 Intuos A5 Tablet W95/NT .....**£209**
- WAC036 Intuos A4 Tablet W95/NT .....**£299**

## DC-F1 1920x1600 pixel CMOS Digital Camera

**The DC-F1 is the lowest cost - High Quality digital camera in the world.**

Based upon a revolutionary Active Pixel CMOS image sensor that provides 1920x1600 pixel high quality 30 bits/pixel images. A 4 element coated glass lens provides focus free operation from 1m to infinity. Sound records can be acquired with the built-in microphone. An automatic electronic flash provides additional illumination when required. Images and accompanying sound can be stored either in camera internal memory or in a 2MB removable memory card that can hold up to 30 images. This camera establishes a new criteria for low cost - high quality digital capture.

### Features:

- 800,000 pixel CMOS sensor
- High Quality images (1920x1600x 30bits/pixel)
- JPEG compression
- Integrated Automatic Electronic Flash
- 2M Removable Flash Memory Cards, included - stores up to 30 images
- Sound Recording at 20 sec. Per image
- Includes Bundled Software
- Adobe Photo Deluxe: based on Adobe PhotoShop, to put many powerful PhotoShop features at your command through a new, easy to use interface
- Adobe PageMill: Powerful tool to design professional looking WebSite
- Presto! Photo Album: Powerful tool to edit, crop, touch-up,resize, and organise your images into a digital photo album.

**NOW £279**

(inc. VAT £327.83)

UMA042 Umax DC-F1 CMOS Digital Camera .....**£279**

FOR MORE INFORMATION SEE OUR WEB SITE AT: [www.software-warehouse.co.uk/umax](http://www.software-warehouse.co.uk/umax)

## UMAX

## SCANNERS & PRINTERS

### PARALLEL SCANNERS

	Ex Vat	Inc Vat
ACER VUEGOSCAN 310P	£47.00	£55.23
ACER VUEGO SCAN 610P	£75.00	£88.13
ACER VUEGOSCAN 610PT PP	£125.00	£146.88
SNAPSCAN 310 PARALLEL	£85.00	£99.88
CANON CANOSCAN FB310	£105.00	£123.38
CANON FB320	£75.00	£88.13
EPSON GTX8500 PARALLEL	£369.00	£433.58
GTX 9500 PARALLEL	£446.00	£524.05
EPSON GT9500 PARALLEL	£462.00	£542.85
HP SCANJET 55 P/P	£129.00	£151.58
HP SCANJET 3100C	£149.00	£175.08
IBM FLATBED IDEASCAN	£84.95	£99.82
PLUSTEK OPTIPRO A3-1	£339.57	£398.99
MICROTEK PHANTOM 336CX	£68.08	£79.99
PHANTOM 636 EPP	£129.00	£151.58
UMAX ASTRA 610P	£58.00	£68.33
ASTRA 1220P+PHOTOSHOP LE	£159.00	£186.83
UMAX ASTRA 1220P SCANNER	£99.00	£116.33
UMAX 1210P PHOMO	£55.27	£64.94
UMAX 600P WHITE BOX	£42.51	£49.95
UMAX ASTRA 600P5 3YR EXT	£49.95	£58.69
PAPERPORT 6100 P/P FLAT	£99.95	£117.44

### SCSI SCANNERS

ACERSCAN 610 PLUS FLATBED	£199.00	£233.83
VUEGOSCAN 310S SCSI	£69.00	£81.08
ACER VUEGOSCAN 610S	£115.00	£135.13
ACER VUEGOSCAN 610ST SCSI	£159.00	£186.83
AGFA STUDIOSCAN IISI lite	£369.00	£433.58
AGFA DUOSCAN SCSI	£2,999.95	£3,524.94
AGFA SNAPSCAN 310 SCSI	£95.95	£112.74
AGFA SNAPSCAN 600 SCSI	£199.00	£233.83
AGFA ARCU5 II SOLO SCSI	£679.00	£797.83
GTX 9500 SCSI	£469.00	£551.08
EPSON GTX9500 SCSI MAC	£499.00	£586.33
EPSON GTX9500 SCSI WIN	£161.00	£189.18
GT-12000 A3 MAC+PC SCSI	£1,315.95	£1,546.24
EPSON GT7000 COLOR SCAN	£147.00	£172.73
EPSON GT-7000 PHOTOSCANN	£210.82	£247.71
FUJITSU SCAN PARTNER 300C	£699.00	£821.33
HP SCANJET 6100C	£434.00	£508.95
SCANMAKER 6400XL	£999.00	£1,173.83
SCANMAKER 9600XL A3	£1,675.00	£1,968.13
SCANMAKER 5	£1,549.00	£1,820.08
SCANMAKER636csi	£199.00	£233.83
SCANMAKER 330csi	£79.00	£92.83
SCANMAKER X6 SCSI A4	£149.00	£175.08
SCANMAKER 4 A4 SCSI	£525.00	£616.88
UMAX POWERLOOK 2	£749.00	£880.08
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UMAX MIRAGE 2 A3 PH5P	£4,999.00	£5,873.83
UMAX ASTRA 610s	£89.00	£104.58
UMAX ASTRA 1220S FLATBED	£139.00	£163.33
UMAX ASTRA 1220S+PH	£329.00	£386.58
UMAX ASTRA 1220S+PHOTO	£259.00	£304.33
UMAX POWERLOOK 3	£1,899.00	£2,231.33
UMAX POWERLOOK 3000	£6,999.00	£8,223.83
UMAX 2400S	£349.00	£410.08
ACER VUEGOSCAN 310U USB	£59.00	£69.33
ACER VUEGOSCAN 610U USB	£109.00	£128.08
SNAPSCAN 1212U USB	£139.00	£163.33
HP SCANJET 6200C USB/SCSI	£237.00	£278.48
HP SCANJET 6250C USB/SCSI	£277.00	£325.48
HP SCANJET 4100C USB	£116.00	£136.30
UMAX ASTRA 1220U USB SCAN	£109.00	£128.08

### SCANNERS ACCESSORIES

AGFA STUDIOSCAN ADF	£319.00	£374.83
AGFA STUDIOSCAN TRANSPAR	£299.00	£351.33
AGFA SNAPSCAN UTA	£169.00	£198.58
AGFA SNAPSCAN ADF	£169.00	£198.58
EPSON GTX 9500/8500 ADF	£329.00	£386.58
ADV PHOTO SYS CART HOLDER	£65.95	£77.49
GT-9500 TRANSPARE UNIT	£395.00	£464.13
EPSON GT-12000 ADF DUPLEX	£849.00	£997.58
EPSON GT12000 TRANSPARE	£499.95	£587.44
EPSON GT9500 TRANS ADPTR	£406.00	£477.05

## THE ULTIMATE SCANNING SOFTWARE



## Pagis Pro 2.0

**4 POWERFUL SCANNING PRODUCTS 1 EASY-TO-USE PROGRAM!**

Pagis Pro 2.0 is the ultimate scanning software. It features four powerful scanning products integrated into one easy-to-use program. With Pagis Pro 2.0, you'll get the productivity and colour output you want from your scanner. Pagis Pro 2.0 includes the most accurate OCR - TextBridge Pro 98 - for converting paper documents into electronic documents without re-typing; world-class photo editing with MGI's PhotoSuite; tools for scanning, compressing and organising your documents using Pagis and Pagis Copier; to use your scanner and colour printer to make quality colour copies using Pagis Copier. Pagis Pro 2.0 lets you scan any document or photo, bring it into any application, share it with others and index it so you can easily find it later when you need it. Powerful yet so easy to use, Pagis Pro 2.0 meets all of your scanning needs.



XEROX Pagis Pro 2.0 .....**£69.95**



## TEXTBRIDGE PRO98

**DRAMATICALLY INCREASE YOUR SCANNER'S OCR CAPABILITIES**

Industry analysts agree that the most important issues for OCR users are accuracy and ease-of-use. To satisfy such user demands, Xerox has introduced TextBridge Pro 98, a major new release of its award-winning OCR scanning software. TextBridge Pro 98 is a full-featured, highly accurate and easy to use document recognition package. TextBridge Pro 98 offers increased accuracy, improved duplication of page layout (including pictures and tables) and easy conversion of scanned documents into HTML for use on the World Wide Web. Users can edit their scanned documents with their existing word processor, spreadsheet or HTML editor. This advanced functionality is not found in the bundled OCR packages included with many scanners. TextBridge Pro 98 combines an intuitive user interface, a powerful new OCR engine and tools that optimise the scanning process to deliver new levels of accuracy, ease-of-use and better overall results.



- Features**
- Over 80% more accurate than other versions
  - Improved document recognition retains original layout
  - Retains tables, line art, inserts, reverse text and much more
  - Improved HTML output for Web-ready text
  - Adobe Acrobat PDF support
  - Office 97 compatible

Upgrade to TextBridge Pro 98 for only **£48.95**

TEXT002 TextBridge Classic Win 3.0 x Only **£28.95** XEROX1 TextBridge Pro 98 Upgrade .....**£48.95**

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Sarah Sales



# DIGITAL CAMERAS

## ULEAD Photo Express

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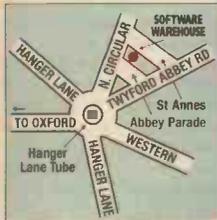
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# SOFTWARE WAREHOUSE

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## THE FRIENDLY COMPUTER SPECIALISTS

### Powershot A5 Canon

The new PowerShot A5 is a camera perfectly designed for the business user, providing superb image quality and picture taking flexibility in a compact, lightweight and totally portable package, small enough to fit into a shirt pocket.

The PowerShot A5 is packed with sophisticated features that enable you to get the best picture every time. A 2" LCD display enables simple reviewing or previewing of pictures, whilst the camera's 810,000 pixel CCD captures pictures at the optimal resolution for business users.

The camera also comes complete with a host of essential accessories, allowing simple connection to a PC or Mac. It can even be connected to a TV - enabling users to convert TV into a presentation or Preview monitor. The PowerShot A5 is supplied with a rechargeable battery and a quick charger, together with a range of fully integrated software.

- KEY FEATURES**
- High Capacity 8Mb compact flash card
  - Autofocus lens
  - 810K pixel CCD
  - 1024 x 768 pixels
  - Built in Autoflash with red eye reduction
  - Continuous shooting mode allows 1 shot per second
  - Windows\* 3.1, 95, NT 4.0 & Mac compatible
  - Ulead PhotoImpact 4.0, Photostitch & SlideShowMaker software

### The Ideal Partner for Photo Computing

**NOW £395**  
(inc. VAT £464.1)



**BEST BUY**  
**PC Direct**  
**BEST BUY**

CAN085 Canon PowerShot A5 ..... £395 (inc. VAT £464.12)

### Cassiopeia Palmtop A20E

Casio Windows CE 2.0 platforms are designed for data collection and communication applications. By employing multiple input devices and formats Casio's Windows CE platforms can store and transfer data into most industry standard databases.

Operating System:	Microsoft Windows CE 2.0
Display:	640x240 dots
CPU:	4 grayscale monochrome with backlight
Memory:	32-bit 5H-3, 80MHz
Memory Card Slots:	8 MB RAM
Card:	PC Card (PCMCIA Type II), CompactFlash
Ports:	RS-232C, IrDA, 3-pin Serial Port
Speaker:	Built-in
Microphone:	Built-in
Power Supply:	Main: Two AA-size Alkaline batteries
Back-up:	One CR-2032 Lithium battery, AC Adapter, Rechargeable Batteries

- CAS030 E-10 Palmtop ..... £239 (inc. VAT £280.82)
- CAS024 A20E Palmtop (8Mb) ..... £199 (inc. VAT £233.83)

### EPSON PhotoPC 700

Professional quality Megapixel digital photography for the home and business. The EPSON PhotoPC 700 is an AutoFocus digital camera using 1280 x 960 pixels. This produces outstanding quality images for printing, archiving, producing creative designs and more. It has other exciting features including, direct print to the Stylus Photo range and the Stylus Color 600, 800 and 850, a large 2" built in colour LCD, file and presentation upload capabilities, video output and an advanced continuous shot mode. Also included in the PhotoPC 700 are some new and important features, including exposure compensation control, sensitivity selection, white balance settings and improved macro facility to give photographers a greater control over their photos.

- JUST £361**  
(inc. VAT £424.17)
- Features**
- Megapixel (1280 x 960) Auto Focus Digital Camera
  - Ease of use with OLE2 and TWAIN support
  - Large, high quality, built-in 2" LCD colour view finder
  - PAL TV & Video output for excellent large screen viewing
  - Extensive range of software included
  - Up to 10 exposure continuous-shot mode
  - Both Windows and Macintosh Compatible as standard
  - Direct Printing to the Epson Stylus Photo range and Stylus COLOUR 600, 800 & 850
  - 4Mb internal memory and external CompactFlash card (option 4Mb, 15Mb) for flexible image storage
  - Panoramic, Macro and Black & White image capture modes
  - Amazing close-up 10cm macro facility

EP5259 EPSON PhotoPC 700 ..... £361 (inc. VAT £424.17)

### Sanyo digiCAM

The future of photography today

Meet Sanyo's exciting new digiCAM, the incredibly easy to use camera that's so much more flexible than conventional photography. No fuss. No film. You can see the result the instant you take the picture.

**NOW £199**  
(inc. VAT £233.83)



**Sound with every Picture**

- SAN002 Sanyo digiCAM VGA200 ..... £199 (VGA Camera with Sound) (inc. VAT £233.83)
- SAN018 Sanyo digiCAM VGA210 ..... £235 (as SAN002 but with removable storage) (inc. VAT £276.12)
- SAN019 Sanyo digiCAM VGA250 ..... £249 (VGA, Sound, 10 sec Camcorder mode) (inc. VAT £292.57)
- SAN013 Sanyo digiCAM XGA300 ..... £339 (XGA, 3s zoom + sound) (inc. VAT £398.33)
- SAN021 Sanyo digiCAM XGA350 ..... £375 (XGA, sound, 30 sec CAMCORDER mode) (inc. VAT £440.63)

### Sanyo Projectors PLCSU15

Call for free Demo

The NEW SU15 is the most advanced, ultra lightweight LCD Projector available today. Weighing only 3.9Kg it features a PCMCIA slot, ideal for storing basic PowerPoint Presentations on. Save your presentations to the PCMCIA card direct from your PC. Leave your notebook at home and just carry the A4 size ultra lightweight to your presentation. Amazing true 600 ANSI Lumens brightness with power zoom and focus. Also features digital zoom to zoom onto a selective area. Unlike DLP projectors text is a lot sharper using the TFT technology.

- FREE 16MB PCMCIA CARD**
- SAN022 Sanyo PLCSU15 ..... £3795 (inc. VAT £4459.12)
- FREE DEMONSTRATION AVAILABLE**
- PLC5605/8815/9005
- The PLC5605 and 8815 projectors are the latest portable and projectors from the world's number 1 name in Multimedia Projectors. The PLC5605 has a brightness of 700 ANSI Lumens and is SVGA output. The PLC8815 is 600 ANSI lumens and is XGA output. Both weigh only 5.9Kg's have power zoom and focus and have a 2 year piece of mind loan replacement warranty. The PLC9005 is a fixed site 2100 ANSI Lumens projector that has shift lens and is workstation compatible.
- SAN014 Sanyo PLC5605 ..... £3595 (inc. VAT £4224.12)
- SAN023 Sanyo PLC8815 ..... £4695 (inc. VAT £5516.62)
- SAN020 Sanyo PLC9005 ..... £7699 (inc. VAT £9046.32)

### NEW DC210 Plus- Zoom Camera

- 2X zoom lens with close-up mode
- 1152 x 864 pixels per image
- Colour LCD display lets you review and preview your pictures
- Now with 8MB Compact Flash memory card
- Video out capability allows you to view your digital pictures on TV
- Supplied with Kodak Picture Easy, 3.0, Adobe Photodeluxe and Pagemill software
- Compact and stylish design
- Includes AC Power adapter



KOD030 DC210 Plus Digital Camera ..... £339 (inc. VAT £398.32)

### DC220 - Zoom Camera

- Megapixel Technology
- 2X Optical plus 2X Digital Zoom
- Burst Feature
- Scripting Capability
- Time-Lapse Mode
- Audio Record and Playback
- Picture Easy Software 3.0
- 8MB card stores up to 120 pics
- Includes AC Adapter



**JUST £419**  
(inc. VAT £492.32)

KOD028 DC220 Digital Camera ..... £419 (inc. VAT £492.32)

### DC260 - Zoom Camera

- Megapixel Plus Technology
- 3X Optical plus 2X Digital Zoom
- Burst Feature
- Scripting Capability
- 8MB card Stores up to 120 pics
- Includes AC Adapter
- Time-Lapse Mode
- Audio Record and Playback
- Picture Easy Software 3.0
- 1536 x 1024 pixel resolution produces photo-realistic 8" x 10" images



KOD029 DC260 Digital Camera ..... £669 (inc. VAT £786.07)

### DV323 - Digital Video Camera

The fast, easy way to capture and share pictures and videos. Create 30 frames per second video. Video conference with business associates easily

- Up to 640 x 480 pixels resolution
- Totally plug and play
- Supports USB interface
- Comes with all the software you need to get started: Picture works Live, Microsoft Netmeeting, Kodak Picture Easy, Kai's Power Goo SE, Twain acquire module



KOD027 DV323 Digital Video Camera ..... £129 (inc. VAT £151.58)

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Index on page 2

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### NEW PRODUCT

## Sound Blaster Live! Value

**FEATURES**

- EMU10K1 Audio Processor
- Supports real-time digital effects like reverb, chorus, flanger, pitch shifter or distortion across any audio source
- Creative Multi Speaker Surround Technology for surround sound audio on the PC with built in support for two or four speakers
- Environmental 3D Positional Audio Technology
- Hollywood Quality, 32 Bit Digital Audio Engine
- Unreal (Environmental Audio Enabled edition - The top action game of '98

CRE052 **SoundBlaster Live! Value** ..£49 (inc. VAT £57.57)

CRE039 **SoundBlaster Live!** .....£102 (inc. VAT £119.85)

### NEW PRODUCT

## 3D Blaster Banshee PCI

Great 2D/3D power! Great Value!

**FEATURES**

Powered by 3Dfx Interactive's Voodoo Banshee chipset

- 16Mb SDRAM
- Voodoo2 Technology
- 100 MPixel/sec
- 128 Bit Graphics Engine
- 4 million triangles/sec
- 1.6 Gigabytes/sec memory bandwidth
- Full glide compatibility

CRE045 **3D Blaster Banshee PCI** .....£69 (inc. VAT £81.08)

### NEW PRODUCT

## Graphics Blaster RIVA TNT

Turbo charge your PC's 2D/3D Graphics

**FEATURES**

Powered by nVidia's Riva TNT chipset

- 2X AGP 2D/3D Accelerator
- 16Mb Synchronous Memory
- TwiB - Texel 3D engine
- 36 billion operations/sec
- 128-bit wide graphics engine
- 9 Gigaflops/sec

CRE046 **Graphics Blaster RIVA TNT** .....£89 (inc. VAT £104.58)

### NEW PRODUCT

## PC-DVD Encore 5x

Join the DVD revolution

**FEATURES**

- DVD storage capacity up to 17GB
- 5x DVD / 32x CD ROM
- Dynamic Xtended Resolution technology
- Quality Digital Video (MPEG-2)
- Dolby digital (AC-3) output
- TV Out
- Bundle games

JUST £135 (inc. VAT £158.63)

CRE047 **PC - DVD Encore 5x**.....£135 (inc. VAT £158.63)

### NEW PRODUCT

## PC Works Fourpoint Surround

**FEATURES**

- Four Channel Amplified Speaker System with Powered Subwoofer
- Power - Subwoofer - 10watts RMS
- Satellites - 4 x 3.5 watt RMS
- Frequency response - 65Hz - 20kHz
- Floor stands for rear speakers
- Perfect partner to the SB Live! & SB PCI 128

JUST £45 (inc. VAT £52.88)

CRE040 **Four Point Surround Speakers** £45 (inc. VAT £52.88)

**PC WORKS SPEAKER PROMOTION** Buy a FourPoint Surround system and an SB PCI 128 or SB Live! and receive £15 cashback

CRE049 **PCI128/ 4 Point Surround (Kit)**.....£67 (inc. VAT £78.73)

CRE033 **Voodoo2 12Mb** .....£72 (inc. VAT £84.60)

**FOR MORE INFORMATION SEE OUR WEB SITE AT: [www.software-warehouse.co.uk/creativelabs](http://www.software-warehouse.co.uk/creativelabs)**

## Explosive 3D Graphics

### NEW PRODUCT

## ELSA VICTORY Erazor™

At last, frenzied games players and multimedia freaks can have a graphics quality and performance previously reserved exclusively for gaming arcades: Direct3D In mind blowing speed and quality, stunning graphics acceleration for Windows 95 and outstanding 2D performance. State of the art video-in/video-out connectors let you record videos, carry out internet and video conferencing, and even transform your TV into an arcade centre.

**SPECIFICATIONS**

Bus System	AGP, PCI
Graphics Controller	RIVA 128 by 3TmVIDIA
Display Memory	4MB SGRAM up to 230 MHz
Pixel Clock	up to 230 MHz
Driver	Windows 95, Windows NT, 4.0, Windows NT 3.51
Warranty	6 years
Support	Via hotline, faxline, CompuServe and Internet.

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- Parallel array of floating point geometry units, virtual texture RAM

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**SPECIFICATIONS**

Bus System	AGP, PCI
Graphics Controller	3Dlabs PERMEDIA 2
Display Memory	4MB and 8MB SGRAM
Pixel Clock	up to 230 MHz
Driver	Windows 95, Windows NT, 4.0, Windows NT 3.51
Warranty	6 years
Support	Via hotline, faxline, CompuServe and Internet.

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**Features**

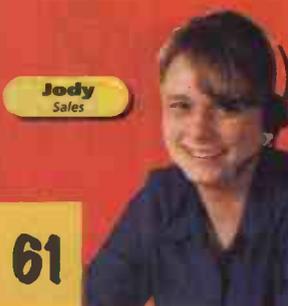
- 230 MHz RAMDAC, up to 200Hz refresh rate, 16 million colours at 1280 x 1024 pixels
- Detailed display at resolutions of up to 1920 x 1200 pixels possible with thousands of colours
- MPEG and AVI full screen video playback with horizontal and vertical filtering
- Video inputs and outputs for video mail and video conferencing, or output to TV, VCR or projectors
- Ideal for professional applications with 17" to 21" monitors

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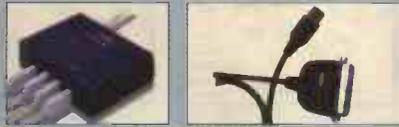
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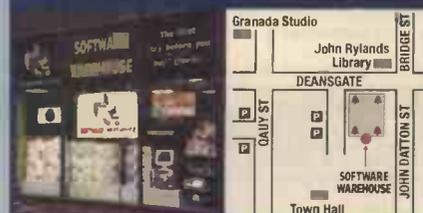
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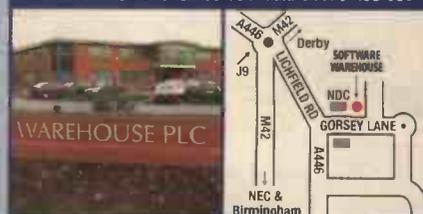
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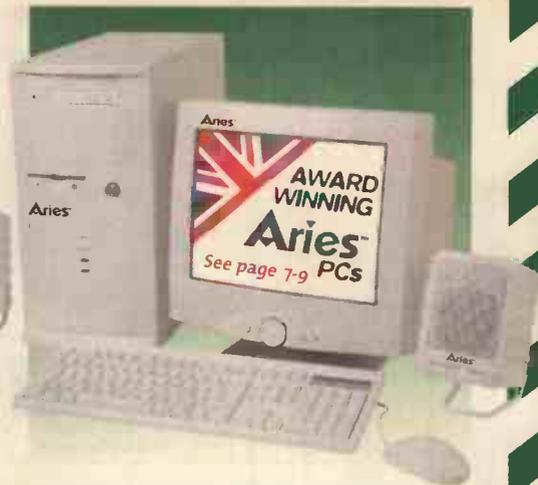
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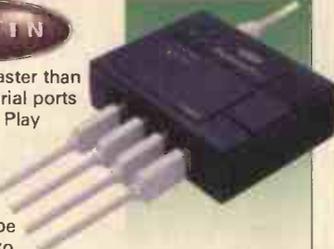
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#### The Basics

##### Q What is USB?

**A** USB (Universal Serial Bus) is a new technology for connecting PC peripherals together. USB technology has been around on the PC for quite a while, but until now compatible peripherals have been thin on the ground. Today the number of devices available has grown, currently a wide range of peripherals are made specifically for the USB port. These include Printers, Scanners, Removable storage, Cameras, Joysticks, Keyboards and Mice! USB devices use a common hot-swappable interface which allows the connection and disconnection of peripherals while your PC is switched on. USB devices configure themselves automatically, removing hassle associated with drivers, IRQs or SCSI ID settings.

##### Q Why USB?

**A** The beauty of USB is its hot-swappable hub-based topology! In plain English this means that multiple devices can be connected to a single USB port with a 4-way adaptor called a Hub. All you do is plug the hub into the back of your PC and instantly you have 4 (or more) ports available for a wide range of peripherals. In the past all your devices used different ports to connect to your PC e.g. PS/2 for mice and keyboards, the Com port for modems, Parallel port for scanners, printers and storage devices, and SCSI for high performance removable storage. With USB you can connect all your devices to the same port simplifying installation, tidying your desk and improving performance.

#### The Printer Solution

##### Q Why choose a USB Printer?

**A** With the wide choice of printers available today why would I choose a USB printer over a standard type? The actual print quality will be equal to a conventional Parallel port printer, but the connectivity will be easier and hassle free. With a USB hub you could connect multiple printers to your computer at once removing the need to have extra Parallel ports fitted and configured. Once the printer is connected it will operate immediately, no need to restart your computer or power-down the printer.

#### The Scanner Solution

##### Q What are the benefits of USB scanning?

**A** Adding images to your documents (be they digital or printed) has always been an excellent way to improve their visual appeal. A colour flatbed scanner is fast becoming an essential addition to any system, unfortunately installation can often prove complicated. For example some parallel port scanners cause conflicts with other devices and may require a dedicated card. Fitting a scanner card requires internal alterations to the PC which can be costly and complicated. A USB scanner can connect directly to your USB port with no conflicts and no hassle!

#### The Backup Solution

##### Q Why choose USB Backup?

**A** With the size of digital documents increasing rapidly, floppy discs are no longer a viable storage medium. The choice of storage devices is huge with several versions battling for your attention. Now USB compatible drives are on the market choosing the right one is even more tricky. As with all USB devices ease of installation is the main benefit. If your parallel port is already full (with your printer or scanner) a USB storage device can provide plug & play connectivity without the expense and complications of SCSI.

#### The Hub Solution

##### Q What does a Hub do?

**A** A USB hub works in the same way as a Ethernet hub. A hub is a little like a 4 (or more) way mains adaptor. Plug the Hub into a single USB port on the back of your PC enabling you to connect a maximum of 127 devices. While USB hubs are unlikely to provide 127 ports on a single adaptor you can to daisy-chain multiple hubs together to provide extra ports when they are needed. Plus because USB is hot-swappable you can connect new devices and hubs without restarting your computer!



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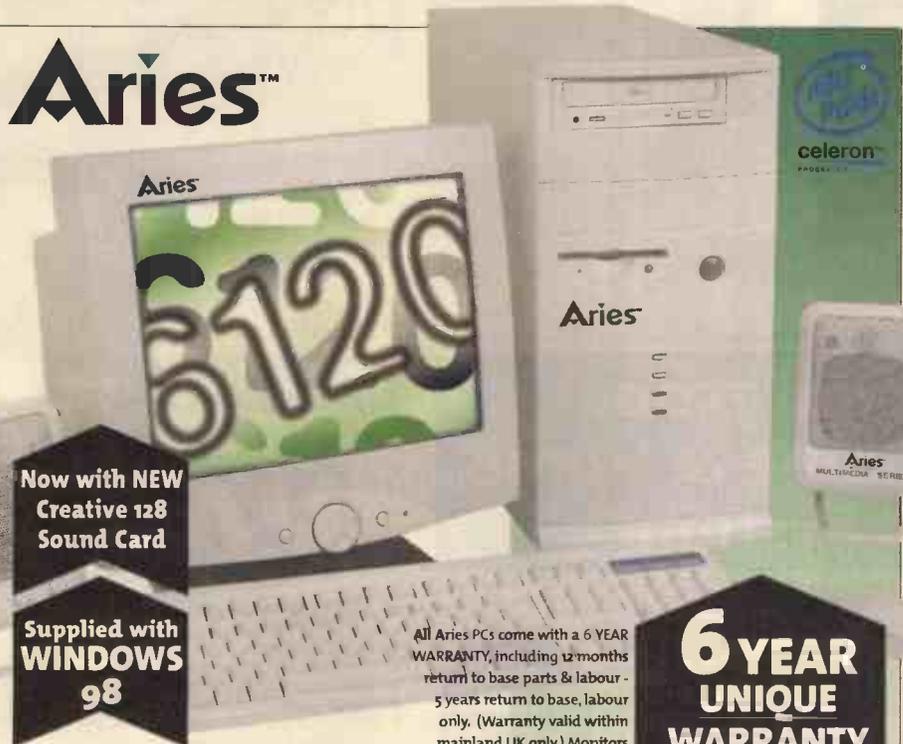
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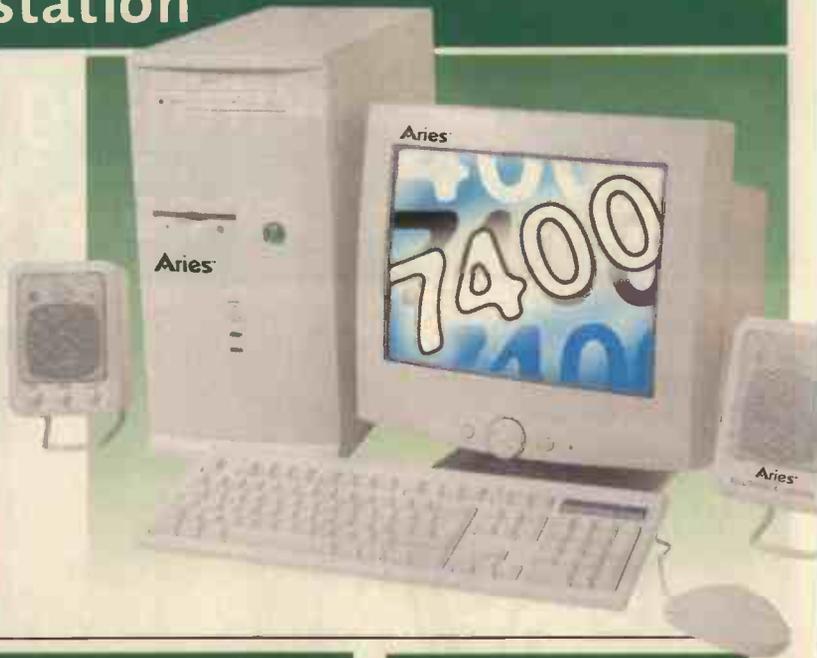
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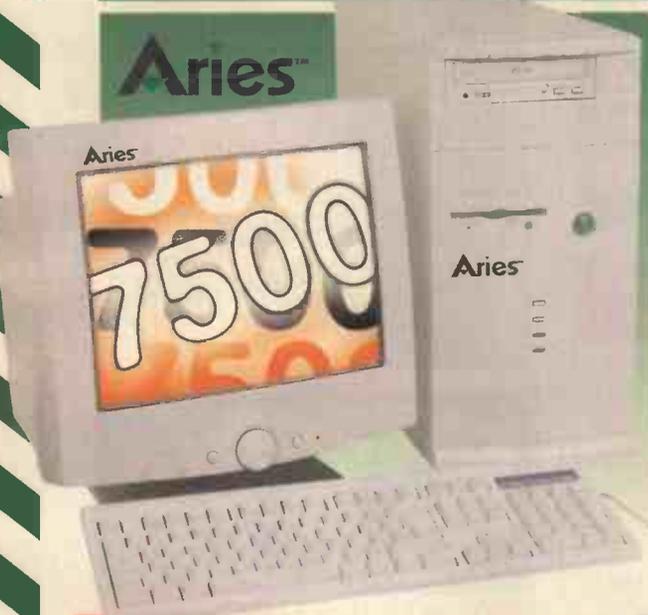
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- Midi Tower Case
- Microsoft Windows 98
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Cyrix M2 300Mhz MX Processor £499 Ex VAT £586.33 Inc VAT

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- ATI 4MB 3D Rage AGP Graphics Card
- 15" SuperVGA Low Radiation 0.28mm Digital Colour Monitor
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- 36X MAX CD ROM Drive
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- Bios Year 2000 Compliant
- USB (Universal Serial Bus) enabled
- Midi Tower Case
- Microsoft Windows 98
- PC Cillin Antivirus & Aries Rescue Kit\*
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- 512K Pipeline Burst Cache Memory
- 3.2Gb 11ms FAST Ultra DMA Hard Disk Drive
- ATI 4Mb 3D Rage AGP Graphics Card
- 15" SuperVGA Low Radiation 0.28mm Digital Colour Monitor
- 36X MAX CD ROM Drive
- SoundBlaster Compatible 16-bit 3D sound card
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- New Creative SoundBlaster PCI 64V
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- Bios Year 2000 Compliant
- USB (Universal Serial Bus) enabled
- Midi Tower Case
- Microsoft Windows 98
- PC Cillin Antivirus & Aries Rescue Kit\*
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- Matrox G100 8MB AGP Graphics Card
- 17" XGA Low radiation 0.26mm Digital Colour Monitor
- Aries K56/V90 Internet Fax/Modem with free 30 days internet access
- DVD ROM Drive (2nd Generation)
- Creative SoundBlaster PCI 64V
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- Microsoft Windows 98
- PC Cillin Antivirus & Aries Rescue Kit\*
- 6 Year unique warranty (see page 8)

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Intel MMX 200Mhz  
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- Intel Mobile Pentium II Processor
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- High performance L2 Pipeline Burst Cache
- 3.2Gb Hard Disk Drive (upgradeable upto 8Gb)
- Integrated 24X CD-ROM and 3.5" 1.44Mb Drive
- 3D AC-97 PCI Sound System
- High performance PCI graphics
- Zoomed video support
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**SAVE £100**

<b>Intel Pentium II Mobile 233Mhz</b>	<b>Intel Pentium II Mobile 266Mhz</b>	<b>Intel Pentium II Mobile 300Mhz</b>
<b>£1599</b> EX VAT £1878.83 inc.VAT	<b>£1699</b> EX VAT £1996.33 inc.VAT	<b>£1899</b> EX VAT £2231.33 inc.VAT



**14.1" display**

**CALL FOR MEMORY AND HARD DISK UPGRADES. EXTENDED WARRANTY AND ALL RISK INSURANCE AVAILABLE ON ALL NOTEBOOKS**

**FREE SOFTWARE BUNDLE PACK WITH ARIES PCs ON THIS PAGE**

- Microsoft Windows 98
  - Lotus SmartSuite
- CD's including: Electronic Organiser, Word Processor, Spreadsheet, Database, Presentation software etc.



## TOSHIBA BALANCING POWER, PORTABILITY AND WORLD-CLASS LOOKS IN PERFECT HARMONY

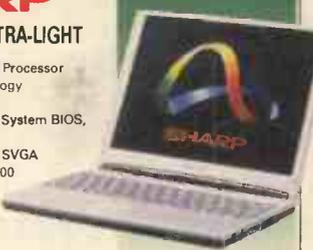
- Intel Pentium II 300Mhz
- 3.2GB Hard Disk
- Memory 32MB SDRAM standard expandable to 160MB
- DVD/CD-ROM, 24 x (max.) CD-ROM via optional CD network dock
- Diskette drive, External 3.5" 1.44MB
- 12.1" diagonal display size 800x600 pixel resolution
- Plug and Play BIOS
- Rechargeable, removable Lithium Ion battery
- SVGA



**NEW**  
**TOSHIBA PORTEGE 7010CT**  
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## SHARP ULTRA-THIN, ULTRA-LIGHT

- 233Mhz Pentium® Processor with MMX Technology
- 256KB cache
- Flash EPROM with System BIOS, VGA BIOS
- LCD, Active Matrix SVGA
- Resolution 800 X 600 Internal
- Video Memory 1.1MB
- Video RAM 1.1MB
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**Sharp Actius A100 UltraLite PC**  
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- 233MHz Pentium® II Processor
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OUR MOST INTERGRATED THINKPAD YET, GOES EVERYWHERE YOU GO

- 266MHz Pentium® II Processor
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- 12.1" HPA Display



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- 266MHz Pentium® II Processor
- 4.0GB Hard Drive
- 32MB SDRAM
- 24X CD-ROM
- 13.3" TFT Display



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- Speak and send - Digitally record your voice, then send it as an attachment to an e-mail
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- 'Pause', 'rewind' and 'record-over' features for total user versatility



**PHILIPS Digital Voice Tracer**  
**£109** EX VAT  
£128.07 inc.VAT  
Part Code 20956

FOR FULL PRODUCT RANGE SEE PAGE 42

\*Bundled software supplied with all Aries™ PCs advertised on this page. Software boxes for illustrative purposes only



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- Micro design, 250gm
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**NOVA MAX**

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- PCMCIA Interface-Plug & Play
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**AMACOM Portable Hard Drive 3.2-6.4Gb\***

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 \* Requires optional parallel port cables

**AMACOM**

- Powered directly from your computer
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- Print by sending data to a printer via IR-port
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- Send data via e-mail
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- Stylus pen for pointing device
- Optional Digital Camera Card



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- Instant access to your data - calendar, e-mail, address book, to-do list, memo pad & expenses
- Backlit screen
- Synchronize data with your PC at the touch of a button - no dual entry
- 3 easy ways to input data - PalmPilot's stylus, the on screen keyboard or from your desktop PC keyboard



3 COM PALM III

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- Icon buttons for instant access to applications
- Microphone & speaker
- Powered by battery or AC adapter
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- Pen for easy on-screen navigation & selection

PSION Series 5

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**HP HEWLETT PACKARD**

Expanding Possibilities

**THE HP 620LX PALMTOP PC FOR THE MOBILE PROFESSIONALS**

- Vibrant 256-color display
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- Easy palmtop asset management due to full DMI compliance and integration into HP TopTools
- Don't lose Ideas, important content, instant-on voice recording with over one hour storage
- Windows CE 2.0 with colour support
- PC card & CompactFlash card allow simultaneous communication via modem while accessing/storing data on a card
- Catch e-mail messages, send and receive faxes & surf the Web from anywhere

**Hewlett Packard 620LX Colour Palmtop PC**

**£470** EX VAT  
 £552.25 inc. VAT  
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HANDHELD PCs & PORTABLES

FOR FULL PRODUCT RANGE SEE PAGE XX

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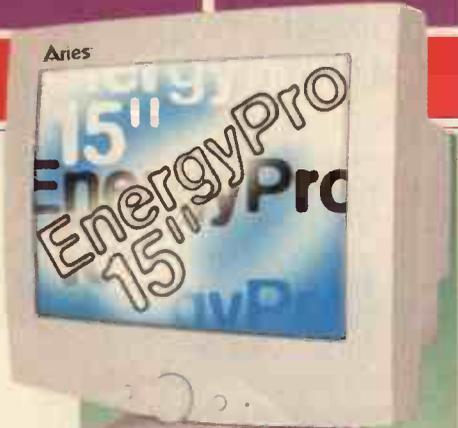
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All Aries™ Monitors carry a 3-year on-site swap out warranty

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OUR #1 BEST SELLING COLOUR MONITOR GIVES YOU HIGH QUALITY AT A VERY LOW PRICE

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- Digital control with 7 user programmable modes
- Low radiation: MPRII
- Anti-static, anti-glare
- 3-year (On-site Swap Out warranty)
- Digital controls with 12 user programmable modes



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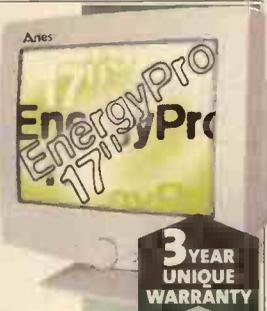
Aries™ EnergyPro 15"

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**Part Code 10075**

## Aries™

17" CRT COLOUR MONITOR

- Monitor size: 17"
- Tube type: CRT
- Agrab screen
- Dark tint
- Tube type: CRT
- Dot pitch: 0.26mm
- Max. resolution: 1600 x 1200 NI
- Low radiation: TCO 92, MPRII
- Power management: EPA Energy Star, VESA DPMS
- Frequency: 30 - 85kHz (horizontal) 50 - 130Hz (vertical)
- Digital control
- EPA, MPRII, CE
- 3-year (On-site Swap Out warranty)
- Anti-static, anti-glare
- Digital controls with 16 user programmable modes



**3 YEAR UNIQUE WARRANTY**  
**SAVE £5**

Aries™ EnergyPro 17"  
**£179 EX VAT**  
**£210.33 inc.VAT**  
**Part Code 10074**

## Aries™

19" CRT COLOUR MONITOR

- Monitor size: 19"
- Tube type: CRT
- Dot pitch: 0.26mm
- Max. resolution: 1600 x 1200 @75Hz
- On screen display
- TCO compliant
- 3-year (On-site Swap Out warranty)
- Anti-static, anti-glare



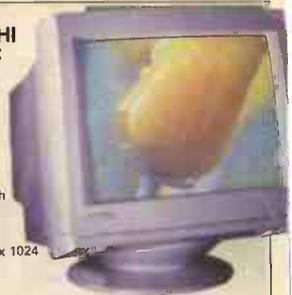
**3 YEAR UNIQUE WARRANTY**

Aries™ EnergyPro 19"  
**£355 EX VAT**  
**£417.13 inc.VAT**  
**Part Code 20078**



15" FST COLOUR DISPLAY MONITOR

- Monitor size: 15"
- Tube type: FST
- Dot pitch: 0.28mm high contrast MicroFilter ShadowMask
- Max. resolution: 1280 x 1024 @65Hz
- On screen display
- 3-year (1st Year swap out warranty)
- Anti-reflective coating
- TCO 95 compliant



MITSUBISHI DiamondScan 50

**£135 EX VAT**  
**£158.63 inc.VAT**  
**Part Code 21134**

## CTX

17" FLAT SQUARE CRT COLOUR DISPLAY MONITOR

- 17" Flat square CRT display monitor
- 0.28mm dot pitch
- 1024 x 768 @85Hz
- 1280 X 1024 Max resolution
- Frequency: Horizontal: 30-70KHz Vertical: 50-120 Hz Bandwidth: 135MHz
- Complete on-screen menu adjustments
- Digital, OSD, MPRII
- 3-year On-Site warranty



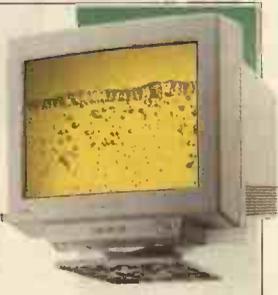
CTX 1769SE / VL700

**£189 EX VAT**  
**£222.08 inc.VAT**  
**Part Code 18687**



17" CRT COLOUR MONITOR

- Monitor size: 17"
- Tube type: CRT
- Dot pitch: 0.25mm AG pit Diamondtron™
- Max. Resolution: 1600 x 1200 @ 75Hz
- Frequency: 27 - 96kHz (horizontal) 50 - 160Hz (vertical)
- VESA DDC2B™ Win95/98 and TCO95
- 3-year, 1st year On-Site Swap Out warranty



Iiyama VisionMaster Pro 400 (A701GT)

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## Panasonic

17" DIGITAL MULTISCAN COLOUR FST DISPLAY

- 17" FST
- 0.27mm Dot pitch
- Max. resolution: 1280 x 1024
- On screen display
- Compliant with the VESA DPMS standards which governs "Plug & Play" functions
- 3-year On-Site Swap Out warranty
- Advanced anti-glare, anti-static coating (A-AGRAS coat)



PANASONIC PanaSync E70

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### 17" FST COLOUR MONITOR

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- Up to 1024 x 768 @ 90Hz
- Built-in 5 watt stereo speakers
- Built-in Bi-directional microphone

**17"**  
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Part Code 19593



## NOKIA

### 17" SHORT NECK FST COLOUR MONITOR

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- Up to 1280 x 1024 @ 80Hz
- New Shortneck Technology

**17"**  
Nokia  
Multigraph 447XS  
**£299** EX VAT  
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## NOKIA

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- Up to 1600 x 1200 @ 76Hz
- On-Screen Menu with Navi™ key

**17"**  
TRINITRON  
Nokia  
Multigraph 447XPro  
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Part Code 19591



## NOKIA

### 19" SHORT NECK FST COLOUR MONITOR

- 19" High Contrast 0.25mm FST
- Up to 1600 x 1200 @ 75Hz
- New Shortneck Technology

**19"**  
Nokia  
Multigraph 446XS  
**£419** EX VAT  
£492.33 inc.VAT  
Part Code 21024



## NOKIA

### 19" HIGH CONTRAST FST COLOUR MONITOR

- 19" High Contrast 0.26mm FST
- Up to 1600 x 1200 @ 85Hz
- On-Screen Menu with Navi™ key

**SAVE £20**  
**19"**  
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Multigraph 446XPro  
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Part Code 19590



## NOKIA

### 21" HIGH CONTRAST FST COLOUR MONITOR

- 21" High Contrast 0.28mm FST
- Up to 1600 x 1200 @ 88Hz
- On-Screen Menu with Navi™ key

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Multigraph 445XiPlus  
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Part Code 19640



## ViewSonic®

### 15" TFT, ACTIVE MATRIX, LCD COLOUR MONITOR

- 15", TFT active matrix XGA LCD
- Pixel pitch: 0.297mm
- Viewing Angle: 140° horizontal, 100° vertical
- Brightness: 250 cd/m2 (typ) - high luminance
- Color Filter: RGB vertical stripe
- Glass Surface Anti-glare hard coat
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VIEWSONIC  
ViewPanel®  
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## PHILIPS

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- TFT flat panel
- Dot pitch of 0.30 mm
- Max. resolution: 1024 X 768
- Full compatibility with all standard video cards and all common VESA modes
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- TCO 95 approval
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151AX LCD  
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- Scart cable with 1/4" female audio input jack



PC TO TV  
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# FREE IMSI 35,000 clip-art with every digital camera purchased\*

**Kodak ds digital science™**

## MASSIVE SAVINGS ON KODAK CAMERAS



- Image Resolution (high/Standard): 1152 x 864 (h), 640 x 480 (s)
- Memory configuration: 8MB compactflash
- Image storage capacity: 22-104
- LCD colour display: 50mm TFT
- Flash modes: Auto, Red-Eye, Fill, Off
- Memory: 8MB storage
- Windows and Macintosh compatible
- 1-year return to Kodak warranty
- Software: Adobe Photoshop & PageMill, Windows 95 & NT Mounter Twain acquire Module
- 2x optical zoom, 2x digital / Video Out: NTSC, PAL
- AC power adaptor

**SAVE £80**

**KODAK DC220**

**£419 EX VAT**  
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- Image Resolution (high/Standard): 1536 x 1024 (h), 1152 x 768 (s)
- CCD Sensor/CMOS: 1.6 million pixels per image
- Memory configuration: 8MB compactflash
- Image storage capacity: 14-90
- LCD colour display: 2" TFT
- Flash modes: Auto, Red-Eye, Fill, Off, External
- Memory: 8MB storage
- Windows & Macintosh compatible
- 1-year return to Kodak warranty
- Software: Adobe Photoshop & PageMill, Windows 95 & NT Mounter Twain acquire Module
- 3x optical zoom, 2x digital / Video Out: NTSC, PAL
- AC power adaptor

**SAVE £36**

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**JVC**

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- Resolution: 560 Lines Vertical Resolution with Progressive Colour Filter
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**JVC GR-DVL 9000**

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**JVC**

### BRAND NEW ULTRA LIGHT, ULTRA SMALL DIGITAL STILL CAMERA



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**AGFA Agfa**

The complete picture.

### 1024 X 768 RESOLUTION DIGITAL STILL CAMERA



- Image Resolution: 1024 x 768
- CCD Resolution: 350,000 pixels
- 1.8" colour LCD display
- Memory configuration: 2Mb Removable Flash Memory card
- Image storage capacity: up to 96 images
- Flash modes: auto, fill-in, red-eye reduction, off
- Windows 95/NT & MAC compatible
- Software: Agfa Photo Wise, Kal's PhotoSoap SE.

**SAVE £33**

**AGFA ePhoto 780**

**£210 EX VAT**  
£246.75 inc.vat Part Code 20637

**UMAX**

### 1920 X 1600 RESOLUTION DIGITAL STILL CAMERA



- Image Resolution (high/Standard): 1920 x 1600 x 30-bits/pixel
- CCD Sensor/CMOS: 800,000 pixels CMOS sensor
- Memory configuration: 2Mb Removable Flash Memory card
- Image storage capacity: up to 30 images
- Flash modes: Integrated Auto Electronic Flash
- Windows and Macintosh compatible
- Software: Adobe PhotoDeluxe, Adobe PageMill, Prestol PhotoAlbum
- Sound recording at 20 sec. per image/JPEG compression

**1920 x 1600 PIXELS**

**UMAX DC-F1**

**£279 EX VAT**  
£327.83 inc.vat Part Code 20643

**EPSON**

### MEGAPIXEL 1280X960 AUTO FOCUS DIGITAL CAMERA



- Auto Focus Digital Camera
- Image Resolution (high/Standard): 1280 x 960 Megapixel
- Memory configuration: 4MB internal memory and external CompactFlash card
- Image storage capacity: up to 10 exposure continuous shot mode
- LCD colour display: large, high quality, built-in 2" LCD colour view finder
- Flash modes: Built in flash, Auto (with pre flash), off and forced (fill-in)
- Windows and MAC compatible
- Software: PhotoPC 700 software / PhotoPC 700 image gallery
- PAL TV & video output / Direct printing to Epson Stylus & Stylus Color range

**SAVE £37**

**EPSON PhotoPC 700**

**£361 EX VAT**  
£424.18 inc.vat Part Code 20372

**hp HEWLETT PACKARD**

Expanding Possibilities

### MEGA-PIXEL DIGITAL STILL CAMERA



- Image Resolution: 1152 x 872 Mega-Pixel, 24 bit colour
- Memory configuration: 4Mb Re-usable Flash Memory card
- Image storage capacity: up to 40 images
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- Glass lens with autofocus and macro
- Programmed, automatic through the lens exposure metering
- Fully automated downloading to PC or TV
- Supplied with AC Adaptor

**HEWLETT PACKARD C20**

**£299 EX VAT**  
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**RELISYS**

A Brand Name of TECO

### 640X480 DIGITAL STILL CAMERA



- Image Resolution (high/Standard): 640 x 480
- CCD Sensor/CMOS: Image sensor-270k pixels
- Memory configuration: Optional, Unlimited storage expandable with RFM cards (Replaceable Flash Memory cards)
- Image storage capacity: approx. 10 to 20 images
- Memory: 1MB removable
- 1-year (return to base warranty)
- Auto dual iris control, Auto flash light, Auto power saving & Focus free

**EXCLUSIVE**

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- 2x digital zoom
- Various playback options
- The MX-500 stores images as JPEG files on reusable, removable SmartMedia cards, so storage capacity is limitless
- Complementary products: FlashPath floppy disk adapter for direct download from SmartMedia to PC and NX-5D photo-real digital printer

**NEW**

**FUJIFILM Compact MX-500**

**£429 EX VAT**  
£504.08 inc.vat Part Code 2118

FOR FULL PRODUCT RANGE SEE PAGE 40

\*Offer valid from 1/12/98-31/12/98. Offer subject to availability



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## EPSON

EASY TO USE 720 DPI,  
COLOUR INKJET  
PRINTER

- 720 x 720 dpi - PhotoReal
- Windows 3.1, 95, 98, and NT 4.0
- Paper size up to A4
- Extensive media type
- 1-year return to manufacturer warranty
- Parallel Centronics interface
- Includes PerfectPicture Pak, home creativity software
- Ideal printer for first time users



EPSON Stylus  
Color 440



**£103** EX VAT  
£121.03 inc.VAT  
Part Code 20575

## EPSON

1440 DPI PHOTO-REAL  
OUTPUT COLOUR  
INKJET PRINTER

- 1440 x 720 dpi with EPSON Ultra MicroDot™
- Fast print speeds
- Windows 3.1, 95, 98, and NT 4.0
- Paper size up to A4
- Extensive Media type
- 1-year return to manufacturer warranty
- FREE EPSON PerfectPicture Pak offering a range of software including Corel Print House Magic & Professor Franklins



BEST BUY  
COMPUTER SHOPPER  
LABS  
December 1998

OUR #1  
BEST  
SELLER



EPSON Stylus  
Color 640

**£133** EX VAT  
£156.28 inc.VAT  
Part Code 20577

## EPSON

NEW GENERATION  
PHOTO QUALITY  
HOME PRINTER

- 1440 x 720 dpi
- 3.5ppm B/W
- 2ppm Colour
- Windows 3.1, 95, Windows NT & Macintosh
- Paper size up to A4
- Extensive Media type
- 1-year return to manufacturer warranty
- 2 interfaces as standard Parallel Centronics
- Comes complete with Adobe PhotoDeluxe software



PHOTO  
QUALITY  
PRINTER

EPSON Stylus  
Photo 700

**£163** EX VAT  
£191.53 inc.VAT  
Part Code 19628

## EPSON

ULTRA FAST 1440 DPI  
COLOUR INKJET  
PRINTER

- 1440 x 720 dpi with EPSON Super MicroDot™
- 9ppm B/W
- 8.5ppm Colour
- Windows 3.1, 95, NT 4.0 & Macintosh
- Paper size up to A4
- Extensive Media type
- 1-year return to manufacturer warranty
- 2 interface as standard Parallel Centronics



EPSON Stylus  
Color 850

**£207** EX VAT  
£243.23 inc.VAT  
Part Code 19631

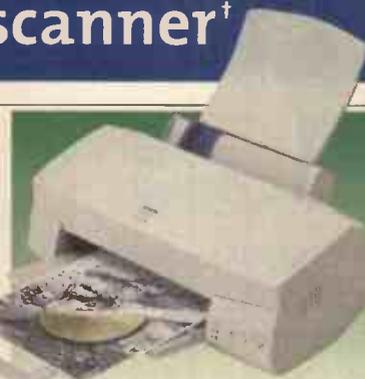
**£25 OFF any EPSON inkjet printer when purchased with a Plustek 9636T scanner†**

## EPSON

STATE OF THE ART 1440DPI  
COLOUR INKJET PRINTER

USB

- 1440 x 720 dpi with EPSON Ultra MicroDot™
- Fast print speeds
- Windows 3.1, 95, 98, NT4.0 & MAC
- Paper size up to A4
- Parallel, Mac, USB interfaces
- iMac compatible
- 1-year return to manufacturer warranty
- Advanced PerfectPicture Pak including Adobe PhotoDeluxe 2.0, together with a free pack that contains samples of special inkjet papers



EPSON Stylus Color 740



**£177** EX VAT  
£207.98 inc.VAT  
Part Code 20578

## EPSON

EPSON DOT MATRIX PRINTER RANGE

Covered by 1 year warranty

13372	EPSON LX300 80col	£97	(113.98)
18977	EPSON FX880	£247	(290.23)
13381	EPSON FX-1170 136 col	£230	(270.25)
13658	EPSON DLQ3000 132col	£791	(929.43)
10035	EPSON LQ300 80col	£115	(135.13)
10049	EPSON LQ570+ 80col	£216	(253.80)
14418	EPSON LQ670	£230	(270.25)
13378	EPSON LQ870	£377	(442.98)
14072	EPSON LQ2070 132col	£330	(387.75)
10048	EPSON LQ2170 132col	£468	(549.90)



IDEAL FOR ALL  
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FORM PRINTING

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11471	EPSON SQ850/2550 Black Ink	£17
15369	EPSON SQ870/SQ1170 Black Ink	£16
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11586	EPSON Stylus 300 Black Ink Cart. S020031	£15
18678	EPSON Stylus 300 4 Colour Ink Cart.	£12
18436	EPSON Stylus Colour 3000/5000 Black Ink Cart. S020018	£32
18437	EPSON 3000 Cyan S020130	£32
18439	EPSON 3000 Magenta S020126	£32
18440	EPSON 3000 Yellow S020122	£32
13772	EPSON Stylus 400/500/600 Black Ink S020093	£14
11592	EPSON Stylus 400/800+/1000 Black Ink	£8
13760	EPSON Stylus 400/800+/1000 Double Black Ink	£13
20689	EPSON Stylus 440/640 Black Ink	£12
20690	EPSON Stylus 440/640/740 Colour Ink	£16
20691	EPSON Stylus 740 Black Ink S020189	£14
11671	EPSON Stylus 1500 Black Ink	£28
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16405	EPSON Stylus Colour 800/1520 Black Ink Cart. S020108	£15
11532	EPSON Stylus Colour 200/820/11/Is Black Ink	£13
11535	EPSON Stylus Colour 820/11/Is Colour Ink	£16
11396	EPSON Stylus Colour/Pro/Pro XL Tri Colour	£18
13708	EPSON Stylus Colour Pro XL + Tri Colour	£18
11395	EPSON Stylus Colour/Pro/XL/XL+ Black Ink	£9
17919	EPSON Stylus Photo 5 Colour Ink	£12

## EPSON

A3+ 1440 DPI  
PROFESSIONAL  
COLOUR  
PRINTER

- Super Micro Dot Maximum Print Quality 1440 x 720 dpi
- 6 A3 prints per hour at 1440dpi
- 10 A3 prints per Hour at 720dpi
- Mac System 7.0; Windows 3.1, 95, NT4.0
- Paper size up to A3 + bleed
- Extensive Media type
- 1-year return to manufacturer warranty
- Fast Parallel interface
- Network and postscript options available



EPSON Stylus  
Pro 5000

**£1587** EX VAT  
£1864.73 inc.VAT  
Part Code 19835

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**THE FLEXIBLE PARTNER  
THAT GIVES YOU  
GREAT RESULTS WITH  
NO HASSLE. FAST AND  
QUIET, PRINTS PHOTOS  
WITHOUT SWAPPING  
CARTRIDGES**



**GREAT VALUE FOR XMAS PHOTO QUALITY PRINTING NEW**

- 600 x 600 dpi HP PhotoREt II
- 4ppm B/W
- 0.2ppm - Full page colour
- Windows 3.1, 95/98 & NT 4.0 compatible
- Paper size up to A4
- Supports all media types
- 1-year return to HP Warranty
- Compact design and very quiet operation
- Easy 'plug and play' installation and set-up
- Photo-quality imaging out of the box

**HEWLETT PACKARD  
DeskJet 710C**

**£134 EX VAT**

**£157.45 inc.VAT  
Part Code 20607**

HP SUPPORT PACK £35<sup>EX VAT</sup> £41<sup>25 INC VAT</sup> Part Code 12513

**hp HEWLETT  
PACKARD**  
Expanding Possibilities

**A4, 600 DPI,  
10PPM,  
INKJET  
PRINTER**



- 600 dpi HP PhotoREt II
- Up to 10ppm B/W
- Up to 6ppm Colour
- Wins 3.1, 95/98, NT 4.0 & MS DOS
- Paper size up to A4
- Plain, special paper, envelopes, transparency, labels, card stock, postcards & banner printing
- 1-year return to HP Warranty
- USB and parallel port
- Connect to a network with an HP JetDirect external print server

**USB  
NETWORK  
Compatible**

**HEWLETT PACKARD  
DeskJet 895Cxi**

**£186 EX VAT**

**£218.55 inc.VAT  
Part Code 20902**

HP SUPPORT PACK £57<sup>EX VAT</sup> £66<sup>98 INC VAT</sup> Part Code 16978

**hp HEWLETT  
PACKARD**  
Expanding Possibilities

**A4 AWARD  
WINNING  
INKJET PRINTER**



- 600 dpi Color Resolution PhotoREt II
- Up to 8ppm B/W
- Up to 7ppm Colour
- Win 3.1x, 95, NT 4.0 operating systems and supports Intel's MMX technology for faster color processing
- Paper size up to A4
- Plain, Premium papers, photo papers, transparency, cards, envelopes, labels, banners & iron-on transfers
- 1-year return to HP Warranty
- Compliant Centronics parallel

**HEWLETT PACKARD  
DeskJet 720C**

**£149 EX VAT**

**£175.08 inc.VAT  
Part Code 19347**

HP SUPPORT PACK £41<sup>EX VAT</sup> £48<sup>18 INC VAT</sup> Part Code 12513

**hp HEWLETT  
PACKARD**  
Expanding Possibilities

**A4, 600 DPI, 3PPM,  
INKJET PRINTER**

- Black 600dpi /colour 300dpi
- 3ppm B/W
- 0.25 ppm Colour
- DOS/Win 3.1/95/98/NT 5.0
- Paper size up to A4
- Plain paper, special, envelopes, transparency & card stock
- 1-year return to HP Warranty



**HEWLETT PACKARD  
DeskJet 420c**

**£66 EX VAT**

**£77.55 inc.VAT  
Part Code 20606**

HP SUPPORT PACK £35<sup>EX VAT</sup> £41<sup>13 INC VAT</sup> Part Code 12513

**hp HEWLETT  
PACKARD**  
Expanding Possibilities

**A4, 600 DPI,  
COLOUR INKJET  
PRINTER**

- 600 x 600 dpi
- Paper size up to A4
- Paper type; Plain paper, Deskjet photo paper & HP Premium paper
- 1-year return to HP Warranty



**HEWLETT PACKARD  
DeskJet 690c**

**£96 EX VAT**

**£112.80 inc.VAT  
Part Code 15371**

HP SUPPORT PACK £35<sup>EX VAT</sup> £41<sup>13 INC VAT</sup> Part Code 14242

**hp HEWLETT  
PACKARD**  
Expanding Possibilities

**A3, 600 DPI, 3PPM,  
INKJET PRINTER**

- 600 dpi HP PhotoREt II
- 4ppm B/W
- 3ppm Colour
- Wins 3.1x, 95, NT 4.0 & DOS
- Paper size up to A3
- All media types
- 1-year return to HP Warranty
- Bi-directional parallel Interface



**HEWLETT PACKARD  
DeskJet 1120c**

**£285 EX VAT**

**£334.88 inc.VAT  
Part Code 19552**

HP SUPPORT PACK £57<sup>EX VAT</sup> £66<sup>98 INC VAT</sup> Part Code 16978

**hp HEWLETT  
PACKARD**  
Expanding Possibilities

**A4, 600 DPI, 7PPM,  
COLOUR INKJET PRINTER**

- 600 dpi Color, HP PhotoREt II
- 10ppm B/W
- 7ppm Colour
- Windows 3.1x, 95 and NT 4.0
- Paper size up to A4
- All media types
- 1-year return to HP Warranty
- Bi-directional parallel interface
- Ready to connect to the network - right out of the box Equipped with HP JetDirect 300X print server, including Automatic 10Base-T and 100Base-T speeds



**HEWLETT PACKARD  
2000C**

**FROM £450 EX VAT**

**£528.75 inc.VAT  
Part Code 20338**

HP SUPPORT PACK £124<sup>EX VAT</sup> £145<sup>70 INC VAT</sup> Part Code 12519

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PACKARD**  
Expanding Possibilities

**SUPPORT  
PACKS**

**For absolute peace of mind, and at little extra cost, take out an HP SUPPORT PACK. For as little as 3 pence per day you will be entitled to three years on-site maintenance\***

**- CALL FOR MORE DETAILS**

\*an engineer will be available at your home or piece of work within 24 hours



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PACKARD  
Expanding Possibilities

**A4, 16PPM COLOUR  
LASER PRINTER**

- 600 x 600 dpi Image Ret 2400
- Up to 16ppm B/W
- Up to 6ppm Colour
- Up to 35,000 pages per month
- Win 3.1x, 95, NT 3.51 & 4.0 and Macintosh
- Paper size up to A4
- Media Flexibility, up 900 sheets A4 size capacity
- Plain and special papers, transparency, envelopes & labels
- 1-year return to HP Warranty
- Bi-directional interface
- Duplexing capability



**HEWLETT PACKARD  
Color LaserJet 4500**

FROM  
**£1597** EX VAT  
£1876.48 inc.VAT  
Part Code 20952

HP SUPPORT PACK £199 EX VAT £233.83 INC VAT Part Code 13740

**hp** HEWLETT  
PACKARD  
Expanding Possibilities

**A4, 1200 DPI, 17PPM,  
WORKGROUP LASER  
PRINTER**

- Laser Printer
  - 1200 dpi
  - 17ppm B/W
  - Paper size up to A4
  - Plain paper, envelopes, transparency, labels and card stocks
  - 1-year return to HP Warranty
  - Bi-directional parallel interface
  - HP JetDirect internal print servers
  - Specialised Workgroup printer
- HIGHER INPUT  
& NETWORK VERSIONS AVAILABLE



**HEWLETT PACKARD  
LaserJet 4000**

FROM  
**£711** EX VAT  
£835.43 inc.vat  
Part Code 18802

HP SUPPORT PACK £154 EX VAT £180.95 INC VAT Part Code 14080

**hp** HEWLETT  
PACKARD  
Expanding Possibilities

**A3, 1200 DPI, 16PPM,  
WORKGROUP  
LASER PRINTER**

- Laser Printer
- 1200 dpi
- 16ppm B/W
- Paper size up to A3
- Plain paper, envelopes, transparency, labels & card stocks
- 1-year return to HP Warranty
- Compliant bi-directional parallel
- HP JetDirect internal print servers
- Specialised Workgroup printer



**HEWLETT PACKARD  
LaserJet 5000 4MB**

FROM  
**£929** EX VAT  
£1091.58 inc.vat  
Part Code 19567

ALSO AVAILABLE IN 8MB & 12MB  
Picture shows 5000 inclusive of optional paper trays

HP SUPPORT PACK £199 EX VAT £233.83 INC VAT Part Code 13740

**hp** HEWLETT  
PACKARD  
Expanding Possibilities

**All-in-One  
Printer • Copier • Scanner**

- Print**
- 600 x 600 dpi with HP's Resolution Enhancement technology (RET) and HP UltraPrecise Toner Cartridge
- Print the first page out in 18 seconds with instant-on-fuser
- Produce output at a fast 8 ppm
- Plain paper, envelopes, transparencies, card stock, postcards & labels
- Copy**
- Copy speed up to 8 ppm
- Copy documents with a push of a button
- Use HP Desktop software for efficient document management
- Scan**
- 600 dpi enhanced (300 dpi optical) with 256 levels of grey
- Operate with standard PC systems (Windows)
- TWIN 1.6



**HEWLETT PACKARD  
LaserJet 1100A**

**£285** EX VAT  
£334.88 inc.vat  
Part Code 20740

HP SUPPORT PACK £95 EX VAT £111.63 INC VAT Part Code 12518

**hp** HEWLETT  
PACKARD

Expanding Possibilities

**All-in-One**

**Printer • Fax • Copier •  
Colour Scanner**

**Print**

- 600 x 600 dpi Black
- 600 x 300 dpi Colour with HP ColorSmart technology
- Up to 5ppm black and 2ppm colour

**Fax**

- 100 speed dials
- 65 page memory
- 14.4 Kbps transmission speed

**Copy**

- 600 x 300 colour<sup>2</sup> & black/white
- Up to 99 copies from original
- Digital zoom from 50% to 200%<sup>2</sup>

**Scan**

- Up to 1200 dpi enhanced
- 24-bit colour (millions of colours)
- 8-bit grayscale (256 levels of gray)
- Caere® Omnipage® Ltd. Ed. OCR software included

**SAVE  
£17**

**HEWLETT PACKARD  
OfficeJet 635**

**£322** EX VAT

**£378.35 inc.VAT  
Part Code 19386**

HP SUPPORT PACK £61 EX VAT £71.88 INC VAT Part Code 12516

**hp** HEWLETT  
PACKARD  
Expanding Possibilities

**HUGE SAVINGS ON RE-  
MARKETED PRINTERS ON  
CURRENT MODELS**

- 600 x 600 dpi laser and HP's Resolution Enhancement technology
- 6ppm B/W
- DOS and Windows 3.1, 3.11, 95, NT 3.51, NT 4.0 & OS/2
- Paper size up to A4
- Plain paper, envelopes, transparency, labels & card stock up to 43-lb thickness
- 1-year return to HP Warranty
- High-speed compliant parallel interface
- HP JetDirect External Print Servers

HP SUPPORT PACK £67 EX VAT £78.73 INC VAT Part Code 13720

**HURRY - LIMITED STOCKS  
CALL FOR DETAILS AND AVAILABILITY**

**1 YEAR  
WARRANTY**

**UP TO  
20%  
OFF**

**AVAILABLE  
ON ALL  
HP PRINTERS**



**HEWLETT PACKARD  
LaserJet 6L Re-Marketed**

**£204** EX VAT

**£239.07 inc.vat  
Part Code 20954**

**hp** HEWLETT  
PACKARD  
Expanding Possibilities

**All-in-One  
Printer • Fax • Copier  
• Scanner**

- Print**
- 6ppm - first page out in 18 seconds
- 600 x 600 dpi
- Paper sizes A4, B5, C5 & DL
- Fax**
- 6 seconds per page
- 175 programmable speed dials
- Photo mode resolution 300 x 300 dpi
- Copy**
- 6ppm, 1-99 copies with automatic collation
- Photo mode 300 x 300 dpi
- Reduce to 50%, enlarge to 200%
- Scan**
- TWIN 1.6
- 300 x 300 dpi optical (600 x 600 enhanced)
- Up to 6ppm



**HEWLETT PACKARD  
LaserJet 3100**

**£489** EX VAT  
£574.58 inc.vat  
Part Code 19553

HP SUPPORT PACK £102 EX VAT £119.45 INC VAT Part Code 16478

**hp** HEWLETT  
PACKARD  
Expanding Possibilities

**All-in-One  
Printer • Copier • Scanner  
- All-in-One, All in Colour**

- Print**
- 9ppm Black, 5ppm Colour
- Black 600 dpi, Colour 600 dpi with PhotoRET II
- Fax**
- Fax through PC modem only & automatic document feeder
- 1-year with Express repair warranty
- Copy**
- 9ppm Black, 3cpm colour
- 25% - 400% scaling
- Scan**
- Flatbed
- 300 dpi (1200dpi enhanced)
- Optical Character Recognition (OCR)
- Adobe PhotoDeluxe Image Editor
- Includes Winfax Pro



**HEWLETT PACKARD  
OfficeJet 1175**

**£614** EX VAT  
£721.45 inc.vat  
Part Code 20609

HP SUPPORT PACK £125 EX VAT £146.88 INC VAT Part Code 12519

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## Panasonic

**THE KX-P3200 9-PIN DOT MATRIX PRINTER IS DESIGNED FOR FORMS PRINTING**

THE KX-P3200 features excellent multi-part stationery capability and easy operation. a bottom push tractor allows a straight paper path-best for printing invoices and slips with high copy ability and high yield (non-tearable) long life ink ribbon (6 million characters).

- 330cps (15cpi) draft speed
- Highly accurate paper feed
- High carbon copy capability
- Extra long life ribbon
- Parallel and serial interfaces as standard
- Set-up disk with Windows 3.1 & 95 included



**HIGHLY ACCURATE HIGH QUALITY**

Panasonic KX-P3200

**£169** EX VAT  
 £198.58 inc.VAT  
 Part Code 16873

**PRINT LEXMARK**

**600 DPI, A4, COLOUR INKJET PRINTER**

- 600 x 600 dpi
- 3.5ppm B/W
- 1.5ppm Colour
- Win 3.1, 3.11, 95/98
- Paper size up to A4
- Variety of paper types, Banner & T-shirt printing feature
- 1-year return to manufacturer warranty
- High speed parallel interface
- Free Software: Winnie the Pooh Print Studio, Quick Project Book & Windows Draw 6-Special Edition Print Studio



**LEXMARK ColorJet 1100**

**£79** EX VAT  
 £92.83 inc.VAT  
 Part Code 20640

**FREE SOFTWARE**

Winnie the Pooh Print Studio, Quick Project Book & Windows Draw 6-Special Edition Print Studio

**PRINT LEXMARK**

**1200 DPI A4 COLOUR INKJET PRINTER**

- 1200 x 1200 dpi
- 6ppm Mono B/W
- 2.5ppm colour
- Win 3.1, 95/98 & NT4.0
- Paper size up to A4
- Banner printing feature
- 1-year return to manufacturer warranty
- Bi-directional parallel interface
- Micrografix Windows Draw 6.0 & Quick Projects Book



**LEXMARK ColorJet 3200**

**£118** EX VAT  
 £138.65 inc.VAT  
 Part Code 20641

**FREE SOFTWARE**

Micrografix Windows Draw 6.0 & Quick Projects Book

## Panasonic

**THE LASER PRINTER FOR WINDOWS USERS COMBINING QUALITY AND USER FRIENDLY OPERATION**

- Laser printer
- Size: 132mm x 378mm x 287mm
- True 600dpi print quality
- 6ppm High speed printing
- Windows 95 driver included
- On-Screen Animated Help
- Ultra-Compact design
- Printing for workgroups
- Power saving mode
- Waste toner recyclable



**PORTABLE & COMPACT**

Panasonic KX-P6300

**£172** EX VAT  
 £202.10 inc.VAT  
 Part Code 14040

**PRINT LEXMARK**

**1200 DPI A4 4PPM COLOUR INKJET PRINTER**

- Inkjet printer
- 1200 x 1200 dpi
- 8ppm B/W
- 4ppm Colour
- Win 3.1, 3.11, 95/98 & NT4.0
- Paper size up to A4
- Superior paper handling
- 1-year return to manufacturer warranty
- Bi-directional parallel Interface
- Best text and highest Resolution at an affordable price



**LEXMARK ColorJet 5700**

**£153** EX VAT  
 £179.78 inc.VAT  
 Part Code 19711

**SAVE £7**

**Canon**

**A4, COLOUR INKJET PRINTER**

- New Image Optimizer technology improves quality of low resolution images
- Up to 3ppm mono output
- Up to 1ppm COLOUR output
- Paper size up to A4
- Paper type: Plain paper, Banner printing capability
- 1-year return to Canon warranty



**\*FREE VIDEO RENTAL UNTIL THE YEAR 2000**

**Canon BJC 250**  
**£71** EX VAT  
 £83.43 inc.VAT  
 Part Code 14468

**Canon**

**A4, 720DPI COLOUR INKJET PRINTER**

- Drop Modulation Technology™ to enhance the 720 x 360 dots per inch resolution
- 2ppm colour - 4.5ppm mono
- Windows 95/98, 3.1x and NT compatible
- Paper size up to A4
- Paper type: Plain paper, Banner & T-shirt print features
- 1-year return to Canon warranty



**\*FREE VIDEO RENTAL UNTIL THE YEAR 2000**

**Canon BJC 4300**  
**£93** EX VAT  
 £109.28 inc.VAT  
 Part Code 14610

\*Buy a promotional BJC 250/4300/4300scan/4650/5000 or 7000 and you can apply for a Canon Blockbuster Value Card via In-box voucher redemption. This will entitle you to hire movies FREE for up to a year

**Canon**

**A3, 1440DPI COLOUR INKJET PRINTER**

- 1440 dpi photo output
- 7.5ppm mono
- 3ppm Colour
- Paper size: A4/A3 - accepts media up to 550 gsm
- Paper type: Extensive media support from plain to banners
- 1-year return to Canon warranty
- New Drop Modulation Technology™, maximises printing quality for colour and photo images



**\*FREE VIDEO RENTAL UNTIL THE YEAR 2000**

**Canon BJC 5000**  
**£172** EX VAT  
 £202.10 inc.VAT  
 Part Code 20766

FOR FULL PRODUCT RANGE SEE PAGE 43-44



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**brother**

**A4, 8PPM,  
LASER PRINTER**

- Laser printer
- 600 x 600 dpi
- Up to 8ppm B/W
- Windows 3.1 / 3.11 / 95 / 98 / NT4.0 compatible
- Paper Size up to A4
- Paper type: Plain paper, OHP film, labels, envelopes
- 1-year return to manufacturer warranty
- Bi-directional parallel interface
- Free Software: Automatic E-mail Printing (Win 95/98)



**Brother HL-820**

**£159** EX VAT  
£186.83 inc.VAT  
Part Code 20482

**brother**

**A4, 10PPM,  
PROFESSIONAL  
LASER PRINTER**

- Professional laser printer
- 1200 x 600 dpi
- Up to 10ppm B/W
- 4Mb standard memory - upgradable to 36Mb
- Windows 3.1/3.11/95/98/NT4.0 compatible
- Paper size up to A4
- Paper type: Plain paper, OHP film, labels, envelopes
- 1-year on-site warranty
- Bi-directional parallel interface
- Free Software: Automatic E-mail Printing (Win 95/98)



**Brother HL-1070**

**£299** EX VAT  
£351.33 inc.VAT  
Part Code 20485

**brother**

**A4, 16PPM,  
PROFESSIONAL  
NETWORK LASER PRINTER**

- Network laser printer
- 1200 x 600 dpi for DIB graphics in Windows, 600 x 600 dpi for Windows/DOS
- Up to 16ppm B/W
- 8Mb Standard Memory - Expandable to 72Mb
- Windows 3.1, 95, 98, NT4.0 compatible
- Paper size up to A4
- Paper type: Plain paper, labels, transparencies, envelopes, card
- 1-year ON-SITE warranty
- High speed bi-directional parallel interface
- Networking: NC-2010h (Network interface)



**8MB**

**Brother HL-1660e 8MB**

**£609** EX VAT  
£715.58 inc.VAT  
Part Code 14268

**brother**

**A4, 20PPM,  
PROFESSIONAL HIGH  
SPEED WORK GROUP  
LASER PRINTER**

- Professional laser printer
- 1200dpi Print Resolution
- Up to 20ppm Print Speed
- 8Mb standard memory
- PCL6 & Postscript Level 2 Emulation
- Optional Duplex Unit - up to 18ppm
- Advanced paper handling
- Job re-print function
- Paper size up to A4
- 1-year ON-SITE warranty



**Brother HL-2060**

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# Three new printers from OKI to suit all needs

## OKI

**NEW PERSONAL PAGE PRINTER FOR FAST 1200DPI PRINTING**

- LED printer
- 600 x 1200 dpi
- Up to 8ppm B/W
- 2Mb standard memory - upgradable to 6Mb
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- Paper types: Irregular sizes and thicknesses, envelopes
- 1-year on-site warranty
- Parallel interface

**NEW**



**OKI Page 8p**

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## OKI

**A4, 10PPM,  
LED PRINTER**

- LED printer
- 600 x 1200 dpi
- Up to 10ppm B/W
- 2Mb standard memory - upgradable to 35Mb
- Windows 3.1/95/98/NT4.0 compatible
- Paper size up to A4
- Paper types: Irregular sizes and thicknesses, envelopes
- 1-year on-site warranty
- Parallel interface

**NEW**



**OKI Page 10ex**

**£239** EX VAT  
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## OKI

**A4, 12PPM, NETWORK  
LED PRINTER**

- Professional LED printer
- 600 x 1200 dpi
- Up to 12ppm B/W
- 4Mb standard memory - upgradable to 36Mb
- Windows 3.1/95/98/NT4.0 compatible
- Paper size up to A4
- Paper types: Irregular sizes and thicknesses, envelopes
- 1-year on-site warranty
- Parallel interface
- Postscript & ethernet as standard

**NEW**



**OKI Page 12in**

**£409** EX VAT  
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## KYOCERA

**FS-1700+ 12PPM,  
MEDIUM  
WORKGROUP  
PRINTER**

- Laser network printer
- 12ppm B/W
- 600dpi laser technology (1200dpi KIR2)
- 66MHz PowerPC processor
- PostScript Level 2 emulation as standard
- 4MB RAM as standard
- Full SNMP connectivity support
- Modular paper handling options
- 1-year return to manufacturer warranty
- ECOSYS cartridge-free technology

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Part Code 14273



## KYOCERA

**FS-800 8PPM,  
PERSONAL/SMALL  
WORKGROUP  
PRINTER**

- Laser printer
- True 600dpi laser print quality (1200dpi KIR2)
- 8ppm B/W
- Paper size up to A4
- Postscript Level 2 emulation
- Paper Type: Plain paper, OHP film, laser labels, post card and envelopes
- 1-year return to manufacturer warranty
- High speed bi-directional parallel interface

**KYOCERA Ecosys FS-800**

**£339** EX VAT  
£398.33 inc.VAT  
Part Code 20243



**SAVE £76**

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**PRINTERS**

# The top brand flatbed scanners at the best prices!

## UMAX

### 36 BIT, COLOUR FLATBED SCANNER

- Single pass, colour CCD flatbed scanner
- 36-bit billions of colours
- Optical resolution: 600 x 1200 dpi
- Interplated resolution: Max. Resolution 9600 x 9600 dpi
- Scan area up to 8.5" x 11.7"
- SCSI connectivity
- 1-year return to UMAX warranty
- Additional features: 'Bit Enhancement Technology'



UMAX 1220S

PARALLEL & USB  
VERSIONS  
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**£125** EX VAT

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## UMAX

### 30 BIT, PARALLEL COLOUR FLATBED SCANNER

- Single pass, colour CCD flatbed scanner
- 30-bit billions of colours
- Optical resolution: 300 x 600 dpi
- Interplated resolution: Max. Resolution 4800 x 4800 dpi
- Scan area up to 8.5" x 11.7"
- 1-year return to UMAX warranty
- Software: Vista Scan, PhotoDeluxe, Presto!PageManager, Umax Copy Utility, Omnipage Direct
- Additional features: 'Bit Enhancement Technology'



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LABS  
December 1998

SCSI VERSION  
AVAILABLE

INCLUDES  
KODAK  
COPY MANAGEMENT SOFTWARE

UMAX  
610P Parallel

**£59** EX VAT

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## Nikon

### PROFESSIONAL 35MM FILM SCANNER

- Scanner type: 35mm film scanner
- Film type: 35mm-135 format / IX240 Advanced Photo System™ (IA-20)
- Optical resolution: 2,700 dpi
- Scan area: 24.3 x 36.5 mm
- Connectivity: SCSI-II Interface
- Software: Nikon Scan Ver.2
- Digital ICE-removes surface imperfections such as dust and scratches from scans
- Versatile film loading-35mm strip film adapter and slide mount adapter
- Hot swap adapters for simple switching between film types
- Colour Matching Library provides vivid and extremely accurate colour matching on both monitors and printers

Nikon  
CoolScan III

**£509** EX VAT

**£598.08 inc. VAT**  
Part Code 20635

## RELISYS

### 30BIT, 9600 DPI, A4 FLATBED COLOUR SCANNER

- Flatbed single pass colour scanner
- More than 1 Billion colours at 30 bit colour
- Optical resolution: 300 x 600 dpi
- Interplated resolution: 9600 x 9600 dpi
- Scan area: 216 x 297mm
- 1-year (return to base warranty)
- Connectivity: SCSI-2 Interface for PC
- SCSI Card included for PC



RELISYS Scorpio

**£75** EX VAT

**£88.13 inc. VAT**  
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## HP HEWLETT PACKARD

Expanding Possibilities

### USB, 36 BIT, FLATBED COLOUR SCANNER

- Flatbed colour & greyscale scanner
- 36-bit colour image processor
- Optical resolution: 600 dpi
- Interplated resolution: 1200 dpi enhanced
- Scan area up to 8.5" x 11.7"
- 1-year return to HP warranty
- Connectivity: Universal Serial Bus (USB)
- Software: HP PrecisionScan LT w/integrated Caere OCR software, HP ScanJet Color Copy Utility, Adobe PhotoDeluxe
- HP Intelligent image scanning technology with automatic Image & text optimisation, push button convenience, intuitive scanning software including OCR



USB

HEWLETT PACKARD  
ScanJet 4100C

**£116** EX VAT

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Part Code 20610

## HP HEWLETT PACKARD

Expanding Possibilities

### PARALLEL, 36 BIT, FLATBED COLOUR SCANNER

- Flatbed colour & monochrome
- 36-bit colour image processor
- Optical resolution: 600 dpi
- Interplated resolution: 1200 dpi enhanced
- Scan area up to 8.5" x 11.7" (216 x 297mm)
- 1-year return to HP warranty
- Connectivity: Enhanced, pass-through parallel
- Software: HP PrecisionScan with integrated OCR software from Caere, HP Color Copy Utility, Adobe PhotoDeluxe, Caere PageKeeper Lite
- Additional features: With other scanners it can take hours to re-create a document; the HP ScanJet with its Intelligent scanning technology does it in minutes with the push of a button



INTELLIGENT  
SCANNING  
TECHNOLOGY

HEWLETT PACKARD  
ScanJet 5100C

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## HP HEWLETT PACKARD

Expanding Possibilities

### PROFESSIONAL 36 BIT, USB/SCSI, FLATBED COLOUR SCANNER WITH DOCUMENT FEEDER

- Flatbed colour & greyscale
- 36-bit colour image processor
- Optical resolution: 1200 dpi
- Interplated resolution: Unlimited
- Scan area up to 8.5" x 11.7" (216 x 297mm)
- 1-year return to HP warranty
- Connectivity: Universal Serial Bus (USB) or SCSI II interface



AUTOMATIC  
DOCUMENT  
FEEDER

HEWLETT PACKARD  
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- Connectivity: High density SCSI-II interface card
- Software: HP PhotoSmart scanner software
- Additional features: Ready to print or electronically send in minutes

HEWLETT PACKARD  
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Part Code 19655

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A4, 30 BIT, FLATBED COLOUR SCANNER

- Flatbed single pass colour scanner
- 30bit for 1 billion colours
- Optical resolution: 300 x 600 dpi
- Interplated resolution: High Res. 4800 dpi
- Scan area up to A4
- 1 year return to manufacturer warranty
- FREE SOFTWARE BUNDLE\*
- EPP Card may be required

**FREE SOFTWARE\***

**Plustek OpticPro 600P**

**£39** EX VAT

£45.83 inc.VAT  
Part Code 17654

**Plustek**

A4, 36 BIT FLATBED COLOUR SCANNER

**SAVE £6**

- Flatbed single pass colour scanner
- 36bit colour
- Optical resolution: 600 x 1200 dpi
- Interplated resolution: 9600 dpi
- Scan area up to A4
- 1 year return to manufacturer warranty
- OCR Software: Scan text documents straight into your PC
- FREE SOFTWARE BUNDLE\*
- EPP Card may be required

**FREE SOFTWARE\***

**Plustek OpticPro 1236P**

**£69** EX VAT

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Part Code 19988

**EPSON**

EASY TO USE 36 BIT, A4, FLATBED COLOUR SCANNER

- Flatbed colour scanner
- Can distinguish 68 billion different colours (36 bit)
- Optical resolution: 600 x 2400 dpi
- 1 year return to EPSON warranty
- For Windows 95/98, NT 3.51 or later and Macintosh System 7.5 or later
- Ultra fast scanning - a leader in its class
- Optional Film Adapter and Automatic Document Feeder for added flexibility

**ONE TOUCH OPERATION**

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**MICROTEK**

A3, 36-BIT, COLOUR FLATBED SCANNER

- Flatbed colour scanner
- Scans up to 12" X 17"
- 36 BIT colour
- Optical resolution: 600 x 1200 dpi
- Maximum interpolated resolution: 9600 x 9600 dpi
- Compatible Win 95/NT/MAC
- FREE transparent media adapter

**Microtek ScanMaker 9600XL**

**£1649** EX VAT

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Part Code 20425

**Plustek**

36 BIT FLATBED COLOUR SCANNER WITH BUILT-IN TRANSPARENCY LID

**BEST BUY COMPUTER SHOPPER LABS**

**December 1998**

**FREE SOFTWARE\***

**Aries™ Plustek OpticPro 9636T**

- Flatbed single pass colour scanner
- Built-in transparency scanner
- 36bit for 68 billion colours
- Optical resolution: 600 x 1200 dpi
- Interplated resolution: 9600 dpi
- Scan area up to A4
- 1 year return to manufacturer warranty
- EPP Card may be required
- FREE software: Micrografx Picture Publisher 7 & Xerox Textbridge Pro

**£125** EX VAT

**£146.88 inc.VAT**  
Part Code 20808

\*Boxes for illustrative purposes only, software will be supplied on CD with on-line help.

**Plustek**

A3, 30 BIT FLATBED COLOUR SCANNER

- A3 Flatbed colour scanner
- 30-bit colour
- Optical resolution: 400 x 800 dpi
- Interplated resolution: 6400 dpi
- Windows 3.x/95 compatible
- Scan area: 297 x 431.8mm
- 1 year return to manufacturer warranty
- Twain compatible
- EPP Card may be required

**FREE SOFTWARE\***

**Plustek OpticPro A3i**

**£175** EX VAT

£205.63 inc.VAT  
Part Code 18380

**AGFA**

The complete picture.

A4, 36-BIT COLOUR FLATBED SCANNER

- Flatbed colour scanner
- Scans up to A4
- 36 BIT colour
- Optical resolution: 600 x 1200 dpi
- Maximum interpolated resolution: 9600 x 9600 dpi
- Interface: Enhanced Parallel Port
- Compatible Win 98
- FREE software\*: Agfa FotoLook, Agfa FotoSnap, iPhoto Express, OmniPage Limited Edition and Visioneer PaperPort
- 1 Year on-site swap-out warranty
- USB VERSION AVAILABLE

**FREE SOFTWARE**

**AGFA SnapScan 1212P**

**£96** EX VAT

£112.80 inc.VAT  
Part Code 20897

**AGFA**

The complete picture.

A4, 36-BIT, SCSI, COLOUR FLATBED SCANNER

- Flatbed colour scanner
- Scans up to A4
- 36 BIT colour
- Optical resolution: 600 x 1200 dpi
- Maximum Interpolated resolution: 9600 x 9600 dpi
- Interface: SCSI
- Compatible Win 95/98/NT & MAC
- FREE software\*: Agfa FotoLook, Agfa FotoSnap, iPhoto Express, Gaere OmniPage Limited Edition and Visioneer PaperPort
- 1 Year on-site swap-out warranty
- Optional transparency module and document feeder

**FREE SOFTWARE**

**AGFA SnapScan 1236S**

**£149** EX VAT

£175.08 inc.VAT  
Part Code 20899

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Expanding Possibilities

**20GB BACKUP SOLUTION**

- Disaster recovery for Windows 95/98/NT with full system protection
- Up to 20GB compressed capacity
- Backup up to 60MB in less than a minute (120MB compressed)
- Includes backup software for servers, peer-to-peer networks or PC workstations

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EXTERNAL MODEL AVAILABLE

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Expanding Possibilities

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- Backup up to 2GB in less than an hour
- Includes Colorado Backup II software for Windows 95/98/NT/3.1 and DOS
- HP's unique install Assistant software for easy installation and configuration of internal drives
- Low cost HP Colorado 5GB media

**HEWLETT PACKARD Colorado Back Up Solution Internal**

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**i iomega zip 100**

- Expand your hard drive without limits (100Mb at a time)
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- Insert your hard drive (fast and easy)
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**PURCHASE THE IOMEGA ZIP STARTER KIT FOR ONLY £109\*\* INCLUDING 6 100MB ZIP DISKS & RECORD-IT SOFTWARE**

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- Plug & Play - Easy to attach USB connection
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**NEW**

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**REMOVABLE STORAGE MEDIA MADE EASY**

- Up to 10GB for all your data
- Range of available cartridges: 3.7GB, 5GB, 7GB & 10GB
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- Provides 2GB of disk space on each compact cartridge - enough to back up your 4GB hard drive (with 2:1 compression)
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FOR FULL PRODUCT RANGE SEE PAGE 39-40

**hp HEWLETT PACKARD**  
Expanding Possibilities

A COMPLETE, EASY TO USE CD-RW SOLUTION FOR STORING AND SHARING INFORMATION

- 6 x read, 2 x write transfer rates
- Internal drive interface: ATA-2/ATAPI-MMC
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- Disc capacity up to 650MB, 74 minutes audio
- Average access time up to 350ms
- Included Software;
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  - ✓ HP Simple Trax
  - ✓ Norton AntiVirus
  - ✓ DocuMagix PaperMaster Live
  - ✓ Adobe Photo Deluxe
  - ✓ Digital Now Photo Album
  - ✓ Corel PrintHouse Magic



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THE FASTEST CD-RW AVAILABLE TODAY!

- Transfer Rates: Up to 24 speed read, 4 speed write for CD-R, 2 speed write for CD-RW
- Interfaces: Internal drives, EIDE - (ATAPI), MMC compliant
- HP Fast Format - Formats CDs in under 5 minutes
- Write Methods: Track Once Incremental (packet), MultiSession acc. Orange Book part 2, Disc at Once
- Recording Format: UDF and ISO 9660
- Disc Capacity: up to 650 MB, 74 mins. audio
- Software Included: Adaptec DirectCD, Adaptec Easy CD Creator, HP Disaster Recovery, HP Fast Format, Multimedia Tutorial, Install Assistant
- Includes HP CD-R & CD-RW media
- Warranty: 1 year



**HEWLETT PACKARD 8100i Internal CD Writer**

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EXTERNAL VERSION ALSO AVAILABLE



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- 2x CD recordable
- 2x CD re-writable
- 16x CD ROM Drive



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**YAMAHA**

NO.1 IN CD REWRITABLE TECHNOLOGY

The Yamaha CRW4260 Series Recorder Three Drives in one!!! The generous 2MB data buffer on the CRW4260 recorder virtually eliminates buffer underrun.

- 4x CD recordable
- 2x CD re-writable
- 6x CD ROM Drive

**YAMAHA CRW4260**

**£197 EX VAT**

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Part Code 19409

**THREE DRIVES IN ONE**  
**SAVE £20**



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TOMORROW'S MEMORY TODAY

**HI-SPACE™ CD-R Action pack**

- Universal compatibility with 2x - 4x drives
- Protective varnish assures data stability & protects from scratches & fingerprints
- Pure gold reflective layer
- Certified 100% optically tested
- Guaranteed projected life of over 100 years



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**HI-SPACE CD-R 50 Pack**

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**ASUS**  
ASUSTeK COMPUTER INC.

**ASUS 40X CD-ROM**

**Double Dynamic Suspension System:** With ASUS's advanced vibration control technology, DDSS#, Double Dynamic Suspension System, CD-S400 has a double anti-vibration device and dynamic dampers to effectively absorb the vibration caused from the high revolution of the spindle motor. So the pick-up head can access data with more stability and accuracy.

- Achieves 6100KB/s highest data transfer rate. 75ms access time and small CPU utilisation.
- Unique DDSS design, the drive maintains data integrity at high rotation speed for better readability.
- Compatible with all CD formats, supports Ultra DMA/33 transfer mode, and Play/Skip button on panel.



**ASUS S400 CD ROM Drive**

**£47 EX VAT**

£55.23 inc.vat  
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**PHILIPS**

The Philips PCA362RW is a 6X CD-ROM reader that lets you create your own CDs. In addition to recording information on low cost CD-Recordable [CD-R] media.

The CD-RW media capacity is 650MB as standard CD-ROM and CD-R discs. The Philips drive writes and rewrites files at the standardised 2X speed, that is up to 350 KB/sec.

The PCA 362 RW automatically identifies the media as it is loaded into the drive. CD-Recordable media are compatible with more than 800 CD-ROM drives and CD-Audio players installed in the world and will also work with many of the new DVD-Rom drives.

Comes with 1 year world wide manufacturers warranty.



**SAVE £37**

**PHILIPS PCA362RW**

**£132 EX VAT**

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- Intel LDCM PC Health Monitoring software
- On-board sound
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**SAVE £7**

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19399 Pentium II 400MHz	£265
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## Networking



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17287	3C509B ISA TP only	£32
11446	3C509B ISA BNC/TP	£85
17345	3C900 PCI TP only	£31
11438	3C900 PCI BNC/TP	£70
17288	3C589D 16bit PC Card TP only	£75
11479	3C589D 16bit PC Card BNC/TP	£103
17857	3C563 16bit PC Card BNC/TP + 33.6 Modem	£179
DLINK		
18201	DE220PCT ISA BNC/TP	£13
12121	DE530CT + PCI BNC/TP	£19
18202	DE660CT 16bit PC Card BNC/TP	£38
GENIUS		
11456	GE2000 III ISA BNC/TP	£12
12123	GE2500 III PCI BNC/TP	£13
13355	E3000 II Parallel Port BNC/TP	£39
11638	ME3000 16bit PC Card BNC/TP	£37
INTEL		
12115	EtherExpress Pro/10+ ISA BNC/TP	£58
16319	EtherExpress Pro/10+ PCI BNC/TP	£59
SMC		
12117	EtherEZ ISA TP only	£16
12118	EtherEZ ISA BNC/TP	£19
11460	EtherPower PCI BNC/TP	£49

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3COM		
16763	3C905TX PCI 10/100	£54
19407	3C515TX ISA 10/100	£94
19009	3C574TX 16bit PC Card 10/100	£88
18210	3C575TX 32bit CardBus 10/100	£89
DLINK		
18072	DPE500TX PCI 10/100	£27
18203	DPE60TX 16bit PC Card 10/100	£75
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12116	GF100TX PCI 10/100 TP only	£29
INTEL		
20065	EtherExpress Pro/100 ISA 10/100	£95
15624	EtherExpress Pro/100 + PCI 10/100	£49
18713	EtherExpress Pro/100 PCI Server Adapter	£185
18655	EtherExpress Pro/100 16bit PC Card 10/100	£89
18654	EtherExpress Pro/100 32bit CardBus 10/100	£92
SMC		
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20764	Excel 8 Port Mini Hub 8xTP,1xBNC	£29
20765	Excel 19" Rack 16xTP,1xBNC,1xAUI	£87
3COM		
20050	3C16704 OfficeConnect TP4 4xTP	£39
20051	3C16703 OfficeConnect TP4-Combo 4xTP,1xBNC/AUI	£49
17295	3C16700 OfficeConnect 8TP0 8xTP	£49
20052	3C16701 OfficeConnect 8TPC 8xTP,1xBNC	£68
18701	3C16702 OfficeConnect TP16C 16xTP,1xBNC	£125
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18214	DE805TP Mini Hub 5xTP	£26
18215	DE809TP Mini Hub 8xTP + Link Port	£42
18217	DE812TP 19" Rack 12xTP,1xBNC,1xAUI	£71
18218	DE816TP 19" Rack 16xTP,1xBNC,1xAUI	£84
18219	DE824TP 19" Rack 24xTP,1xBNC,1xAUI	£120
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12199	GH4160 Mini Hub 16xTP,1xBNC,1xAUI	£68.95
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20053	J3128A AdvanceStack 8E 8xTP,1xBNC	£86.50
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20054	SH10T5 InBusiness Mini Hub 5xTP	£38
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SMC		
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3COM		
20058	3C16710 OfficeConnect 8TPM 8xTP,1xBNC	£203.95
DLINK		
18220	DE1812 19" Rack 12xTP,1xAUI Master	£305
18222	DE1812 19" Rack 12xTP,1xAUI Client	£174
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18702	3C16722 OfficeConnect TP800 8xTP	£215
18703	3C16721 OfficeConnect TP1200 12xTP	£315
CISCO		
18805	5128 8port Mini Hub 8xTP	£345
18806	116T 19" Rack 16port Hub 16xTP	£531
DLINK		
18224	DPE808TX Mini Hub 8xTP	£145
18225	DPE812TX+ 19" Rack 12xTP Stackable	£312.95
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15627	GF4080TX 19" Rack 8xTP	£396
15628	GF4120TX 19" Rack 12xTP	£440
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18710	J3234A AdvanceStack 12TX 12xTP	£615
INTEL		
20060	SH100TX4 InBusiness Mini Hub 4xTP	£115
20061	SH100TX8 InBusiness Mini Hub 8xTP	£215
20062	SH100TX8+ InBusiness Mini Hub 8xTP + Link	£299
RINGDALE		
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18723	8port 100baseTX Mini Hub	£317
18724	16port 100baseTX 19" Rack Hub	£599
DLINK		
18226	DPE1612TX 19" Rack 12xTP Master	£775
18227	DPE1212TX 19" Rack 12xTP Client	£517
3COM		
18707	3C16730 OfficeConnect Switch 140 1x100,4x10	£229
20063	3C16732 OfficeConnect Switch 280 2x100,8x10	£369
DLINK		
18708	DES1008 Switch 19" Rack 8x10/100	£465
INTEL		
18719	SS110TX8 InBusiness Switch 8x10,2x10/100	£429
20064	Express 10/100 Downlink 2x10/100	£459
3COM		
20066	3C8812 OfficeConnect 112 IP/PPX 1x10Mbs,1xWAN	£592
20067	3C8817 OfficeConnect 117 Multi 1x10Mbs,1xWAN	£845
20068	3C8842 OfficeConnect 142 IP/PPX 1x10Mbs,1xWAN,1xISDN	£845
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18234	DP300 10/100 External 2xP,1xS	£143.95
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12430	GPS300 BNC/TP Pocket NetWare 1xP	£68
17856	GPS300M BNC/TP Pocket Multiprotocol 1xP	£79
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20072	NetPort Express Pro MIO BNC/TP Internal	£149
17330	NetPort Express Pro BNC/TP External 2xP,1xS	£218
18236	NetPort Express Pro/100 10/100 External 1xP	£155
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RINGDALE		
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- Read your favorite passages
- Explain or pronounce unfamiliar words
- The wide range of built-in educational options includes music and sound effects to enhance reader appreciation

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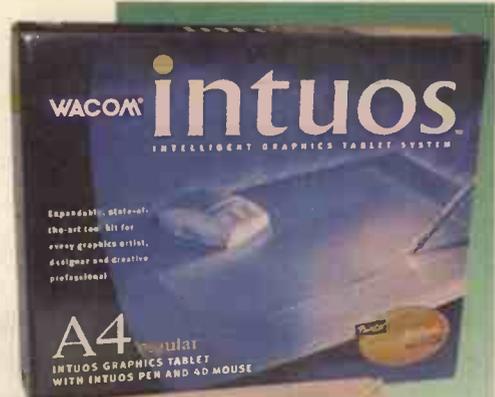
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- 1700 music and video samples at various tempos
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- 16 track arranger, real time audio hard disk recording easy to use drag and drop interface use your own .WAV and .AVI files
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- Dolby Surround Pro Logic amplifier
- Can be connected to almost all sound sources
- 5 different sound effects
- IR remote control Included

**TEAC PowerMax 1000 Surround Sound**

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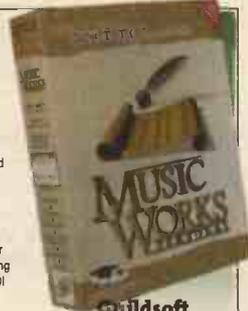


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Music Works operates using standard musical notation and provides a host of tools for manipulating your composition including transposing and replicating. A huge selection of annotations can be added, including rests, dynamics, ornaments, repeats, guitar chords, text and lyrics.

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- Text and titling



**Guildsoft Music Works**

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## evolution

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- Include PC connector cable



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## evolution



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**FastTrak Hip Hop eJay**

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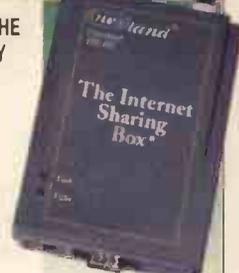


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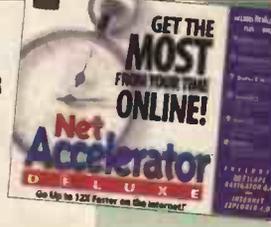
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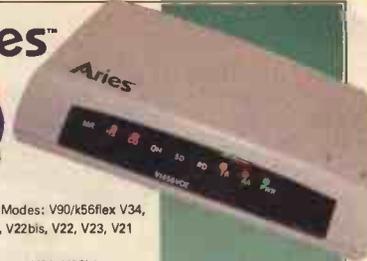
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Via Optional Flash Upgrade

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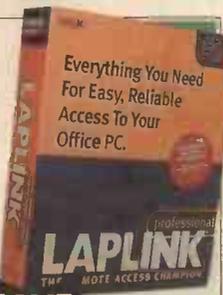
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- Makes Communications Management Easy



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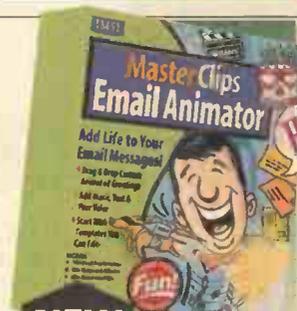
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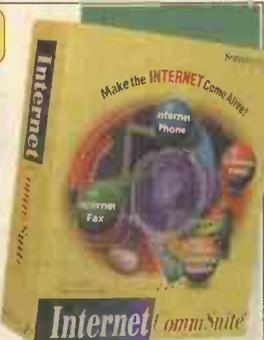
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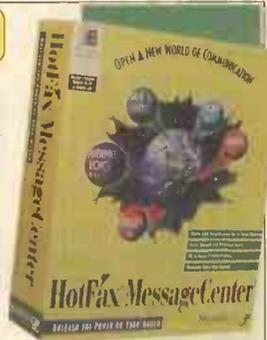
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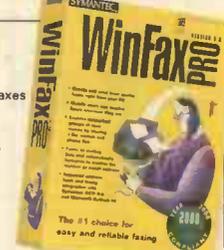
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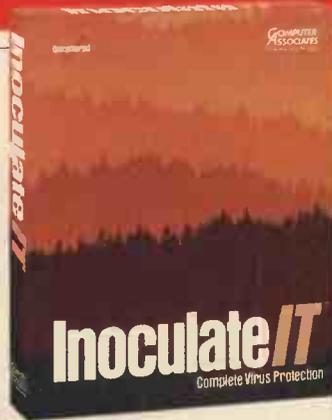
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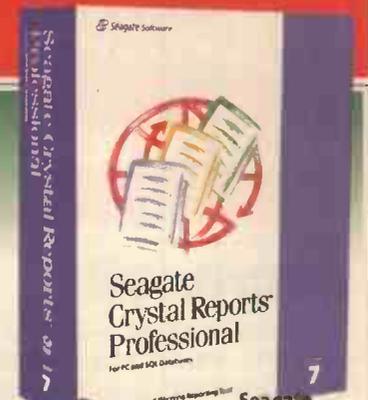
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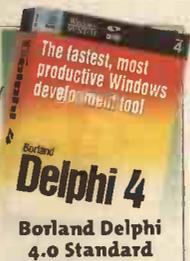
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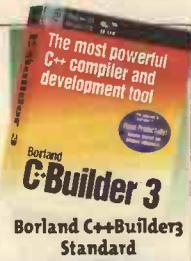
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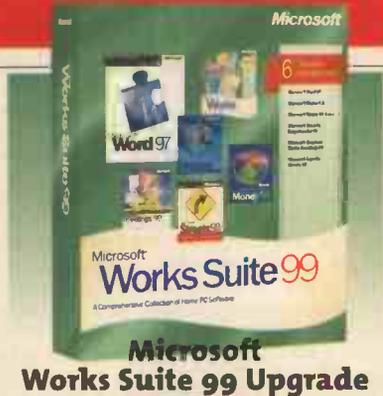
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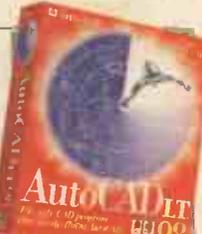
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20527	MPC3084AT 8.4Gb Ultra DMA 11ms 5400rpm 256K Cache	£129
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- 20563 LG DRD-820B Drive Internal IDE.....£75

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- 17245 Toshiba DVD 4.7Gb Internal IDE Bare Drive ATAPI - SD-M 1102.....£139
- 19414 Panasonic SR8582B DVD Drive ATAPI.....£95
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- 20565 Panasonic LF-D101E Internal SCSI Drive (inc 2.6Gb DVD-RAM disk).....£399
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17663	Microlink ISDN TL PRO.....	£199
<b>HAYES</b>		
14322	Accura 64K External.....	£174
<b>PACE</b>		
20412	ISDN Terminal Adaptor.....	£179
<b>TELES FROM ELECTRONIC FRONTIER</b>		
16751	Teles PnP Card - Internal ISDN Card ISA.....	£99
20276	Teles TLS-PCI ISDN Card.....	£139
20136	Teles TLS-PCMCIA Type II ISDN Card.....	£239
20275	Teles TLS-ATA2 2 Port Analog PBX (for ISDN).....	£199
16752	Teles SO TA - External ISDN (Parallel Port)+ 2 Port analog PBX.....	£249
<b>3COM</b>		
14261	Courier I V34 Analogue or ISDN - Internal.....	£239
14260	Courier I V34 Analogue or ISDN - External.....	£239
18587	Sportster TA ISDN.....	£99
<b>ZYXEL</b>		
20277	Omni.net ISDN TA + 2 Analog Port Flash.....	£229
20278	Omni TA128 ISDN TA + 2 Analog Port 2 Simultaneous Users Flash.....	£249
20279	Elite 28641 ISDN TA + Built in V34 Modem.....	£445

<b>MODEM CONNECTING CABLES</b>		
12360	25 Male - 25 Female 2m.....	£7
13724	25 Male - 9 Female 2m.....	£8
<b>MODEM ADAPTER KITS</b>		
15866	Avro Pacific International Kit.....	£42
15871	Avro Pacific Six Piece Kit.....	£25
15873	Avro Pacific Fax Friend Auto Switch.....	£49
<b>Monitors</b>		
<b>ARIES</b>		
3 Year Warranty inc. 1st Year On-Site Swap Out		
10073	14" EnergyPro LR 0.28mm SuperVGA.....	£75
10075	15" EnergyPro LR 0.28mm 1280x1024 NI.....	£99
18929	15" EnergyPro LR Trinitron NEW.....	£159
10074	17" EnergyPro LR 0.28mm 1280x1024 NI.....	£179
15857	17" 8000S EnergyPro + 0.25mm 1600x1200 NI.....	£219
18930	17" 8500T EnergyPro Trinitron 1600x1200 NI.....	£359
20078	19" EnergyPro LR 0.26 SuperVGA.....	£355
18844	21" 9000S EnergyPro 0.26 + C417mm 1600x1200 NI.....	£675
20570	14.5" LCD Screen 1024x768 Panoview PV745.....	£599
<b>BELINEA</b>		
3 Year Warranty		
19434	104010 14" 0.28mm Digital 1024 x 768 NI.....	£75
19435	105035 15" 0.28mm Digital 1280 x 1024 NI.....	£99
20675	105080 15" 0.27mm Digital + Speakers 1280 x 1024 NI.....	£125
19374	107060 17" 0.27 1280 x 1024 + speakers.....	£199
19436	107020 17" 0.28mm 1280 x 1024 NI.....	£145
19437	107050 17" 0.25mm TC095 1600 x 1200 NI.....	£259
19438	106090 19" 0.26mm TC095 1600 x 1200 NI.....	£310
19439	108050 21" 0.25mm TC095 1600 x 1200 NI.....	£559
19737	108015 21" 0.25 1600 x 1200.....	£699
<b>CTX</b>		
3 Year Warranty On-Site Swap Out		
10082	1451ER M400 14" Colour Monitor.....	£85
20739	1555M510 15" Colour Monitor.....	£99
15434	1569SE/MS00 15" Colour Monitor.....	£105
15437	1569MS/MS00 15" MultiMedia Colour Monitor.....	£149
18931	1569UA/PR500 15" Trinitron Colour Monitor.....	£159
18683	1792SE/M710 17" Colour Monitor.....	£249
18686	1769SE/7100 17" Colour Monitor.....	£189
17704	1769MS M5700 17" Multimedia Colour Monitor.....	£189
17705	1785XE 17" Colour Monitor.....	£215
18686	1792UA/PR710 17" Trinitron Colour Monitor.....	£309
20078	1995UE/M 950T 19" Colour Monitor.....	£359
15436	2085XE/EX800 20" Colour Monitor.....	£599
17706	2185XE 21" Colour Monitor.....	£679
20001	2195XE/EX1100 21" Colour Monitor.....	£795
20568	10.4" CTX LCD Screen 640x480 PV540.....	£499
20569	12.1" CTX LCD Screen 800x600 Panoview PV500.....	£599
<b>IIVAMA</b>		
Covered by 3 year warranty		
13447	(MF8515G) Vision Master 350 15" Colour Monitor.....	£135
20320	S701GT Vision Master 400 17" Colour Monitor.....	£285
20321	A701GT Vision Master Pro 400 17" Colour Monitor.....	£315
16431	MF8617ES 17" Colour Monitor with Speakers.....	£349
19337	S901GT 19" Vision Master 450 Colour Monitor.....	£399
19337	A901GT 19" Vision Master Pro 450 Colour Monitor.....	£435
19337	A102GT 21" Colour Monitor.....	£719
20003	S102GT 21" FST Colour Monitor.....	£699
19616	TXA-3601GT 14.1" TFT LCD.....	£575
<b>IIVAMA</b>		
Extended on-site warranty		
14252	15" 3 year on-site maintenance.....	£15
14253	17" 3 year on-site maintenance.....	£39
14254	21" 3 year on-site maintenance.....	£49
<b>MITSUBISHI</b>		
Covered by 3 year warranty		
16371	Diamondpro 67TXV 17" Diamondtron Monitor.....	£279
21134	Diamondscon 50 15" 0.28mm Monitor.....	£135
16368	Diamondscon 17HX 17" 0.28mm Monitor.....	£275
19523	Diamond Pro 700 17" Diamondtron Monitor.....	£399
20019	Diamond Plus 72 17" Diamondtron Monitor.....	£309
19338	Diamond Pro 1000 21" Diamondtron Monitor.....	£549
16369	Diamondpro 91TXM 21" Diamondtron Monitor.....	£699
18932	17" 3 Years On-Site Warranty.....	£435
18933	21" 3 Years On-Site Warranty.....	£50
<b>NEC MULTISYNC</b>		
Covered by 3 year warranty		
19589	LCD 400V 14" Flat Panel.....	£799
19588	LCD 400 14" Flat Panel.....	£809
20925	LCD 1510V 15" Flat Panel.....	£929
20926	LCD 1510 15" Flat Panel.....	£829

HARDWARE LISTINGS

**SALES HOT-LINE: 01582 745555**  
**FAX-LINE: 0870 729 5648**  
**ON-LINE: www.watford.co.uk**  
**SALES LINES OPEN: 9am-7pm MONDAY-FRIDAY, 9am-6pm SATURDAYS**

**FREE GIFT WITH EVERY ORDER**



20927	LCD 1810 18" Flat Panel	£2,999
20928	LCD 2110 21" Flat Panel	£4,339
14535	A500 15" Colour Monitor	£156
14536	E500 15" Colour Monitor	£189
13191	M500 15" Colour Monitor	£209
14537	A700 17" Colour Monitor	£275
14542	E700 17" CRT Colour Monitor	£369
15154	M700 17" Colour Monitor	£395
20929	E900+ 19" Colour Monitor	£449
17721	E1100 21" Colour Monitor	£739
15734	XM37 37" Multimedia Colour Monitor	£4,940
<b>NOKIA</b>		
Covered by 2 years warranty		
19592	300Xa 13.3" STFT	£815
21028	500XA 15.1" STFT	£925
17708	449XA 15" Colour Monitor with Speakers	£185
17576	447X0 17" Trinitron Colour Monitor	£335
19593	447Za 17" FST Monitor with speakers, mic	£269
21117	447XS Multigraph 17" FST 0.25" Monitor	£299
19591	447X Pro 17" Trinitron TC095 PhP	£349
19590	446X Pro 19" FST Monitor	£449
21024	446XS 19" FST Monitor	£419
19841	445X Pro 21" FST Colour Monitor Dynamic Focus	£679
19640	445X Plus 21" CRT Colour Monitor	£679
17711	445XAV 21" Monitor with Speakers, Sub Woofer & Mic	£675
<b>PANASONIC</b>		
Covered by 3 years warranty		
15954	TXD1562FU 15" Multimedia	£129
15952	TXD1563 15" Pro 4G P50	£140
15951	TXD15650 15" Panasonic 4 S50	£129
15972	TXD1734FU 17" Multimedia SM70	£283
20314	Parasync E70 17" FST Monitor	£223
10095	TXD 1734 5G Monitor S70	£245
15953	TXD1753 17" Pro 5G P70	£295
15360	TXD2162 21" Pro 7G S110	£659
20882	Panasonic Parasync SL70 17"	£275
20883	Panasonic Parasync SL90 19"	£439
<b>PHILIPS</b>		
Covered by 3 years warranty		
16948	15" High Resolution Autocast 105B	£165
16949	17" Autocast Colour Brilliance 107S	£199
16950	17" Brilliance Colour 107MB	£249
18935	21" Colour 201B	£695
18936	21" Brilliance Colour 201P	£849
18937	21" Brilliance Colour 201CS	£1,145
20881	15.1" LCD Monitor Brilliance 151 AX	£525
<b>SAMSUNG</b>		
Covered by 3 years warranty		
19596	Synmaster SM500S 15" Colour Monitor	£99
18589	Synmaster SM700S 17" Colour Monitor	£179
19595	Synmaster SM100P 17" Colour Monitor	£269
10107	Synmaster 17GLSI 17" Colour Monitor	£455
<b>SONY</b>		
Covered by 1 year warranty		
19464	CPD100ES 15" Colour Monitor	£169
19465	CPD100EST 15" Colour Monitor	£215
19466	CPD200EST 17" Colour Monitor	£295
14331	CPD300FTS 20" Colour Monitor	£709
17587	GDM20SE2TS 20" Colour Monitor	£599
17589	GDM900 24" Colour Monitor	£1,399
<b>TAXAN</b>		
Covered by 3 years warranty		
19014	Ergovision 430LR 14" Colour Monitor	£113
19358	Ergovision 550TCO 95 15" Colour Monitor	£151
14201	Ergovision 730TCO 95 17" Colour Monitor	£255
19360	Ergovision 730TCO 95 S 17" + Speakers Colour Monitor	£265
14202	Ergovision 740TCO 95 17" Colour Monitor	£305
14203	Ergovision 740TCO 95 S 17" Multimedia Colour Monitor	£315
14364	Ergovision 750TCO 95 17" Colour Monitor	£349
19362	Ergovision 760 TCO 95 17" Colour Monitor	£252
19363	Ergovision 760 TCO 95 S 17" Colour Monitor	£262
19361	Ergovision 975 TCO 95 19" Colour Monitor	£475
14437	Ergovision 2150TCO 95 21" Colour Monitor	£835
18940	Crystavision 620 TFT Colour Monitor with Speakers 12.1"	£589
18941	Crystavision 650 TFT Colour Monitor with Speakers 14.5"	£1,095
<b>VIEWSONIC</b>		
Covered by 3 years warranty		
10113	14" 14E641 1024 x 768	£89
10114	15" 15E65 1024 x 768	£125
10116	15" 15G5 1280 x 1024	£185
10117	15" 15GA 1280 X 1024 with Speakers	£185
20884	15" VP150 View Panel TFT	£845
10118	17" 17EA 1280 x 1024 0.27 with Speakers	£395
10119	17" 17GS 1280 x 1024 0.27	£325
10120	17" 17GA 1280 x 1024 0.27 with Speakers	£389
10121	17" 17PS Professional 1600 x 1200 0.25	£385
17743	17" PT775 Pro 1600x1200 @ 77Hz 0.25	£375
10084	20" G800 1600 x 1200 0.28	£535
16959	21" P810 Professional 1600 x 1200 0.25	£799
16960	21" P815 Professional 1800 x 1440 0.25	£825

## Multimedia

### SOUND / MIDI KEYBOARDS

<b>ARIES</b>		
13920	16 Bit 3D PhP Sound Card (SB Compatible)	£12
20201	64 PhP PCI Sound Card (SB Compatible)	£32
<b>CREATIVE LABS</b>		
10675	Sound Blaster 16 Value PhP	£21
20706	Sound Blaster Live PCI	£102
20706	Sound Blaster Live Value PCI	£49
20661	Sound Blaster PCI 128	£32
17833	4MB Ram Upgrade for AWE64	£29
17834	8MB RAM Upgrade for AWE64	£53
10383	3DO Blaster Game Player	£99
<b>DIAMOND</b>		
19949	Monster Sound 3D MMX100	£65
19946	Sonic Impact PCI S90 Sound Card	£29
<b>EVOLUTION</b>		
19461	Music Wizard Keyboard	£29
19459	Music Creator Keyboard	£42
19462	Music Creator Pro Midi Keyboard	£102
19457	Music Creator Pro 61 Midi Keyboard	£148
19458	Sound Studio Gold Software	£127
19460	Evolution Music System - Full Size Keyboard with PC Adaptor Pack	£255
20642	Evolution DanceStation	£68
<b>GRAVIS</b>		
16839	UltraSound ACE Wavetable Add In Card	£75
14014	UltraSound MIDI Kit	£39
<b>ORCHID</b>		
20221	NuSound 64 3D PCI Sound Card	£40
<b>TYPHOON</b>		
16844	FM Radio Card	£18
<b>VIDEOLOGIC</b>		
19412	Videologic 3D Sonic Storm PCI Sound Card	£32

### SPEAKERS & ACCESSORIES

10699	SP681 10W HiFi Speakers	£11
10230	SP688 80W Power Speakers	£19
20198	SW66 300W 3D Surround Sound Speakers	£39
20199	SW10 600W Magnetically Shielded Speakers	£65
20200	SW20 800W 3D Surround Sound Speakers	£89
10200	Stereo Speakers	£6
20855	Teac PowerMax 1000	£149
10185	Screen Microphone	£8
10128	Stereo Headphones	£5
<b>CREATIVE</b>		
17041	CSW-20 20W Speakers	£12
20712	CSW-50 50W Speakers	£24
20713	CSW-100 100W Speakers PC Works	£39
20714	CSW-200 200W Speakers Sound Works	£69
20718	CSW-350 350W Speakers Micro Works	£115
<b>MICROSOFT</b>		
21079	Digital Sound System 80 Speakers	£149
<b>TYPHOON</b>		
16846	Typhoon Desktop Adjustable Microphone	£5
16847	Typhoon Headset with Microphone (Full Duplex)	£9
16845	Typhoon Lapel/Monitor-Mount Mini Microphone	£5
<b>YAMAHA</b>		
19036	Yamaha YST-M15 10W Speakers	£35
19037	Yamaha YST-M25 25W Speakers	£55
19038	Yamaha YST-M20DSP 10W Digital Surround Processing Speakers	£45
19821	Yamaha YST-M100 20W Digital Surround Processing Speakers	£83
19850	Yamaha YST MSW 10 Sub Woofer 25W	£59
21084	Interactive Barney	£75

### MULTIMEDIA KITS

18479	Creative Blaster 24X Discovery Kit	£95
15805	Diamond Ultrakit 12000 12x Multimedia Kit	£195
21132	PCI128 / Four Point Surround	£68

## Notebooks

<b>SHARP</b>		
20950	Actius A100 Ultra Lite PC	£1,878
<b>SONY</b>		
21080	VAIO 505 - 233MMX, 32Mb, 2.1Gb, 56k, 10.4" TFT	£1,899
21081	VAIO 737 - 233MMX, 32Mb, 2.1Gb, CD, 56k, 12.1" TFT	£1,525
<b>TOSHIBA</b>		
20340	Satellite 320 CDS - 1 Year Warranty	£1,009

20341	Satellite 320 CDT - 1 Year Warranty	£1,175
19916	Satellite Pro 480 CDT - 3 Year Warranty	£1,596
20342	Satellite Pro 490 CDT - 3 Year Warranty	£1,679
20343	Satellite Pro 490X CDT - 3 Year Warranty	£1,849
20109	Libretto 100CT - 1 Year Warranty	£1,089
20344	Portege 320 CT - 3 Year Warranty	£1,849
21138	Portege 7010CT - 3 Year Warranty	£CALL
20478	Tecra 550 CT - 3 Year Warranty	£1,849
19911	Tecra 750 DVD - 3 Year Warranty	£2,469
20345	Tecra 780 DVD - 3 Year Warranty	£3,028

## PC Components

<b>MEMORY - SIMMS</b>		
<b>ARIES</b>		
10607	1M x 9, 30pin 3chp	£CALL
10609	4M x 9, 30pin 3chp	£CALL
13316	1M x 32, 4Mb 72pin	£CALL
10620	2M x 32, 8Mb 72pin	£CALL
10622	4M x 32, 16Mb 72pin	£CALL
13304	8M x 32, 32Mb 72pin	£CALL
10614	1M x 36, 4Mb 72pin	£CALL
10617	2M x 36, 8Mb 72pin	£CALL
10613	4M x 36, 16Mb 72pin	£CALL
13621	8M x 36, 32Mb 72pin	£CALL
10625	1M x 32, 4Mb EDO	£CALL
10626	2M x 32, 8Mb EDO	£CALL
10627	4M x 32, 16Mb EDO	£CALL
10644	8M x 32, 32Mb EDO	£CALL
18270	16M x 32, 64Mb EDO	£CALL
<b>MEMORY - DIMMS</b>		
15909	8Mb 168 Pin (1 x 64) 3.3v	£19
19191	16Mb 168 Pin (2 x 64) 3.3v	£20
15912	32Mb 168 Pin (4 x 64) 3.3v	£34
17632	64Mb 168 Pin (8 x 64) 3.3v	£59
15908	8Mb 168 Pin (1 x 64) 5v	£20
19590	16Mb 168 Pin (2 x 64) 5v	£32
15907	32Mb 168 Pin (4 x 64) 5v	£20
18956	64Mb 168 Pin (8 x 64) 5v	£65
<b>SDRAM 3V3</b>		
18271	8Mb 168Pin (1 x 64)	£15
18272	16Mb 168 Pin (2 x 64)	£18
18273	32Mb 168 Pin (4 x 64)	£25
18573	64Mb 168 Pin (8 x 64)	£62
19088	128Mb 168 Pin (16 x 64)	£105
20120	32Mb 168 Pin for 100MHz Bus	£35
20121	64Mb 168 Pin for 100MHz Bus	£69
20122	128Mb 168 Pin for 100MHz Bus	£119
20383	16Mb 144 Pin SO EDO	£15
20384	32Mb 144 Pin SO EDO	£35
20385	64Mb 144 Pin SO EDO	£62

<b>MEMORY - DIMMS</b>		
<b>INTEL</b>		
20117	Pentium II 266MHz Celeron	£57
20397	Pentium II 300MHz Celeron	£76
20710	Pentium II 300MHz 128K Celeron	£99
20711	Pentium II 333MHz 128K Celeron	£123
18640	Pentium II 333MHz	£145
19399	Pentium II 350MHz	£199
19399	Pentium II 400MHz	£265
20434	Pentium II 450MHz	£369
<b>OTHERS</b>		
20177	AMD K6-2 (3D) 300	£57
20178	AMD K6-2 (3D) 333	£75
20683	AMD K6-2 (3D) 350	£99
20699	AMD K6-2 (3D) 380	£120
20940	AMD K6-2 (3D) 400	£175
20156	Cyrix M2-PR300	£55
20552	Cyrix M2-PR333	£95
18241	Cyrix Media GX 300	£85
20545	IBM 6x86 PR300MMX	£79
20546	IBM 6x86 PR333MMX	£129

<b>PROCESSORS - CPU</b>		
<b>INTEL</b>		
20117	Pentium II 266MHz Celeron	£57
20397	Pentium II 300MHz Celeron	£76
20710	Pentium II 300MHz 128K Celeron	£99
20711	Pentium II 333MHz 128K Celeron	£123
18640	Pentium II 333MHz	£145
19399	Pentium II 350MHz	£199
19399	Pentium II 400MHz	£265
20434	Pentium II 450MHz	£369
<b>OTHERS</b>		
20177	AMD K6-2 (3D) 300	£57
20178	AMD K6-2 (3D) 333	£75
20683	AMD K6-2 (3D) 350	£99
20699	AMD K6-2 (3D) 380	£120
20940	AMD K6-2 (3D) 400	£175
20156	Cyrix M2-PR300	£55
20552	Cyrix M2-PR333	£95
18241	Cyrix Media GX 300	£85
20545	IBM 6x86 PR300MMX	£79
20546	IBM 6x86 PR333MMX	£129

<b>OVERDRIVE</b>		
<b>EVERGREEN</b>		
20085	486-586/P75 Upgrade	£85
20496	486-586/P75 Upgrade - 5 Pack	£330
20887	P75 - PR200 MMX Upgrade	£89
20265	P75 - PR200 MMX Upgrade - 5 Pack	£390
<b>INTEL OVERDRIVE</b>		
18934	Pentium P100, 133 to P166 with MMX	£103
18957	Pentium P100, 133 or 166 to P200 with MMX	£130

<b>NOVA OVERDRIVE</b>		
20046	Nova Max P180 MMX Pentium CPU Upgrade	£79
20047	Nova Max P200 MMX Pentium CPU Upgrade	£85
<b>CPU MAXIMIZER</b>		
15620	GB586-133	£75
<b>CPU COOLING FANS</b>		
10588	486DX Fan and Heat Sink	£4
10651	AMD K6 Fan and Heat Sink	£6
17635	Cyrix 6x86 Fan and Heat Sink	£8
10596	Cyrix Pentium Fan and Heat Sink	£5
15899	Pentium Pro Fan and Heat Sink	£10
19394	Pentium II Fan and Heatsink	£10
20151	Pentium II Celeron Fan and Heatsink	£12

<b>MOTHERBOARDS</b>		
<b>ABIT</b>		
18274	Pentium 430TX P75- MMX 512k cache PXS	£47
20702	Pentium 440LX 100MHz Socket 7 ATX Motherboard AP5	£CALL
18275	Pentium II LX440 ATX Motherboard LX6	£67
20207	Pentium II BX440 ATX Motherboard BX6	£69
20941	Pentium II BX440 ATX Motherboard BH6	£79
20703	Pentium II EX440 ATX Motherboard EX6	£CALL
<b>ASUS</b>		
18310	Intel 440 LX chip set Pentium II ATX format P2L97	£76
18992	Intel 440LX chip set Dual Pin Socket P2L97 DS	£205
19917	Intel 440 LX chip set (P2L97-SCSI) Pentium II with SCSI	£125
19973	440BX Pentium II ATX Format P2B	£99
20402	440BX Pentium II ATX Format P2B-S	£85
20587	ALI Aladin 5 AGP 100MHz Socket 7 P5A-B (AT)	£161
20594	ALI Aladin 5 AGP 100MHz Socket 7 P5A (ATX)	£68
<b>DFI</b>		
19974	440BX Pentium II ATX Format P2BXL	£79
<b>ELITE</b>		
19862	P100-Up 512K 83MHz ATX Format P5SD-A	£63
19863	P100-Up 512K 100MHz AT Format P5SD-B	£59
<b>GIGABYTE</b>		
20515	GA-SAX Pentium 100MHz Socket 7 ATX	£75
20159	GABEX Pentium II EX ATX Motherboard	£55
18995	GA-68GLX Pentium II LX ATX LX4	£72
20150	GA-686DLX Dual Pentium II ATX	£92
20104	GA-686BX Pentium II 440BX PII ATX	£92
20554	GA-686BXDS Dual Motherboard 440BX PII ATX	£206
19771	GA-586TX3 Motherboard FTX (AT)	£59

<b>SUPER MICRO</b>		
19805	Super Micro P6SLA ATX Pentium II Motherboard	£71
19806	Super Micro P6SLS ATX Pentium II Motherboard SCSI	£95

PK ELECTRONICS	
19320 PK Blackout Buster 500VA UPS	£89
19321 PK Blackout Buster Powerpack	£79
19322 PK Blackout Buster Smartpack	£49
19323 PK Blackout Buster Micropack	£25

Printers	
<b>LASER PRINTERS</b>	
<b>BROTHER</b>	
Covered by 1 year warranty	
20482 Brother HL820 (2Mb) 6ppm	£159
20483 Brother HL1040 (2Mb) 10ppm	£215
20484 Brother HL1050 (4Mb) 10ppm	£239
20557 Brother HL1050 (8Mb) 10ppm	£255
14268 Brother HL1650E 8MB 16ppm (1 year onsite)	£609
14415 Brother HL1660 EN 8Mb 16ppm	£819
14416 Brother HL1660 EN 16Mb 16ppm	£835
20485 Brother HL1070 4Mb 10ppm	£299
20558 Brother HL1070 8Mb 10ppm	£315
19503 Brother HL240c	£2145
20893 Brother HL2060 8MB	£699
20894 Brother HL2060 16MB	£895
20895 Brother HL2060N 8MB	£899
20896 Brother HL2060N 16MB	£915
19680 Brother HL2400cn	£2,495
19659 Brother MFC9000 All in one Print/Scan/Fax Mono Laser	£569
19858 Brother MFCPR0700 All in one Print/Scan/Fax Colour Laser	£649
<b>CANON</b>	
17859 Canon LBP660 6ppm	£185
19658 Canon LBP1260 + 12ppm	£614
20445 Canon LBP1760 17ppm	£655
19689 Canon LBP 2460 24ppm	£1,459
<b>EPSON</b>	
Covered by 1 year warranty	
17901 Epson EPL-N1200 12ppm	£593
17902 Epson EPL-N1200EN 12ppm	£791
17903 Epson EPL-N1200PS 12ppm	£986
17904 Epson EPL-N2000 20ppm	£1,278
17905 Epson EPL-N2000PS 20ppm	£1,582
20019 Epson EPL-5700 7ppm	£304
20020 Epson EPL-5700 EN 7ppm	£455
20022 Epson EPL-5700 PS 7ppm	£456
<b>HEWLETT PACKARD</b>	
Covered by 1 year warranty	
10001 HP LaserJet 5M 12ppm	£937
10002 HP LaserJet 5M 12ppm	£795
10003 HP LaserJet 5 Colour 10ppm (1 year onsite)	£2,460
10004 HP LaserJet 5M Colour 10ppm (1 year onsite)	£3,099
14607 HP LaserJet 5M Colour (1 year onsite)	£2,700
14169 HP LaserJet 6MP 6ppm	£562
15368 HP LaserJet 6P 8ppm	£461
20740 HP LaserJet 1100 C4224A 6ppm	£265
19553 HP LaserJet 3100 Printer/Fax/Copier/Scanner	£489
18802 HP LaserJet 4000 16ppm	£711
16809 HP LaserJet 4000T 16ppm	£787
18810 HP LaserJet 4000N 16ppm	£914
19671 HP LaserJet 4000TN 8MB 16ppm	£990
20952 HP LaserJet 4500 Colour 6ppm	£1,597
19567 HP LaserJet 5000 16ppm	£929
19570 HP LaserJet 5000N 16ppm	£1,344
19573 HP LaserJet 5000GN 16ppm	£1,649
19924 HP LaserJet 8000	£1,604
19925 HP LaserJet 8000N	£1,791
19926 HP LaserJet 8000DN	£2,062
20889 HP LaserJet 8100	£1,587
20890 HP LaserJet 8100N	£1,875
20891 HP LaserJet 8100DN	£2,145
20740 HP LaserJet 1100A 6ppm	£232
17629 HP LaserJet Companion (4/5/6 series)	£78
19670 HP LaserJet 5si Mopier	£4,199
20011 HP LaserJet 240 Mopier	£2,362
<b>KYOCERA</b>	
Covered by 1 year warranty	
14464 Kyocera FS-600 6ppm	£229
20243 Kyocera FS-900 8ppm	£339
14273 Kyocera Ecosys FS1700 12ppm	£494
15894 Kyocera Ecosys FS3400+ 18ppm	£775
17517 Kyocera Ecosys FS3700 18ppm	£679
19672 Kyocera Ecosys FS-1550+ 10ppm	£575
19673 Kyocera Ecosys FS-1700N Network Ready 12ppm	£655
21113 Kyocera Ecosys FS-6700 12ppm	£1,239
19674 Kyocera Ecosys FS-3700N Network Ready 18ppm	£885
14492 Kyocera Ecosys FS-7000 28ppm AAA/3	£1,699
20903 Kyocera FS-1700+ 12ppm	£494

LEXMARK	
Covered by 1 year on-site warranty	
20173 Lexmark Optra S 1255 (100dpi) 4Mb 16ppm	£639
18749 Lexmark Optra S 1855 (1200dpi) 4Mb 16ppm	£709
18748 Lexmark Optra S 1855N	£909
18747 Lexmark Optra S 2455	£1,366
18755 Lexmark Optra ES	£339
18758 Lexmark Optra N	£1,685
18759 Lexmark Optra N Pro	£1,919
18751 Lexmark Optra SC 1275	£2,245
18752 Lexmark Optra SC 1275 N	£2,615
18756 Lexmark Optra C Contone	£3,374
18757 Lexmark Optra C Pro Contone	£3,699
<b>OKI</b>	
Covered by 1 year on-site warranty	
14573 Oki 4W+	£135
14560 Oki OL6e 6ppm	£189
21131 Oki OL8p 6ppm	£189
21130 Oki OL10e 10ppm	£239
21129 Oki Page 12i 12ppm	£409
<b>PANASONIC</b>	
Covered by 1 year on-site warranty	
14040 Panasonic KXP6300 6ppm	£172
14407 Panasonic KXP7200 20ppm	£1,175
19677 Panasonic KXP 6500 6ppm	£249
<b>QMS</b>	
Covered by 1 year warranty	
18506 QMS 2060EX AA/A3 (48Mb) 20ppm	£2,107
18500 QMS 2060GX AA/A3 (16Mb) 20ppm	£1,249
18482 QMS 2060EX AA/A3 (8Mb) 20ppm	£1,239
18480 QMS DeskLaser 600 6ppm 1 year RTB	£1,519
19679 QMS Office Laser 6P CF	£539
19681 QMS Desk Laser 2000 NET A3 20ppm	£889
19784 QMS Magicolor 2 CX (24Mb) Colour	£2,150
19907 QMS Magicolor 2 EX (80Mb) Colour	£2,925
<b>LASER RAM UPGRADES</b>	
12470 4Mb LaserJet 4/4M/4S/4SIMX	£39
15471 4Mb LaserJet 4P/4MP/5/5M/5MP/6P/6MP	£36
13809 4Mb LaserJet 5L/6L	£39
19829 4Mb LaserJet 5SIMX	£39
16432 8Mb LaserJet 4P/4MP/4+4M+/5P/5MP/6P/6MP/5M/5N	£65
<b>LASER CONSUMABLES</b>	
11416 Brother HL600 Series Drum	£85
11415 Brother HL600 Series Toner	£19
14222 Brother HL730/760 Series Toner	£114
17645 Brother HL820/1040/1060/1070 - TN300 Toner	£15
11307 Canon LBP4/Star LP4 Toner	£49
11308 Canon LBP8/HPW/HP10D/HP11N/HP11D Toner	£50
15468 Epson EPL3000 Toner	£73
11573 Epson EPL4000/1100/4300 Toner	£75
11304 Epson EPL5000/5200 Toner	£89
11563 Epson EPL5500 Drum	£39
11565 Epson EPL5500 Toner	£28
11529 Epson EPL5600/11200 Toner	£68
11614 Epson EPL7100/7500/8100 Toner	£131
19895 Epson Photo Conductor Unit for EPL 5500	£40
11216 HP 4L/4ML/4P/4MP Toner	£43
11418 HP 4V/4VMP Toner	£79
11537 HP 5L/6L Toner	£39
11526 HP 5P/5MP/6P/6MP Toner	£50
11426 HP 5SI Toner	£95
15192 HP III/5/4SI Toner	£62
14605 HP PhotoSmart Cartridge - Purple Moon	£22
11308 HP LaserJet 11/10D/11/10D Toner Cartridge	£45
11307 HP LaserJet HP Plus / HP Toner Cartridge	£47
11477 HP LaserJet 4/4M/5/5M/5N Toner Cartridge	£49
15192 HP 4S/4SIMX/3SI Toner Cartridge	£59
14234 Kyocera 800 Toner TK6	£21
15927 Kyocera Toner 1550/1600/3400/3600/6500	£38
15927 Kyocera 3400/6500/1550 Toner	£34
11540 Kyocera FS400 Toner TK11	£12
16659 Lexmark Optra C Black Toner	£73
16674 Lexmark Optra C Cyan Toner	£87
16676 Lexmark Optra C Magenta Toner	£87
16675 Lexmark Optra C Yellow Toner	£87
11621 NEC 610/660/660 EP Toner	£65
14196 Oki 4W Toner	£14
13561 Oki OL400/410/800/810/830/840/850/870 Drum	£132
11429 Oki OL400/410/800/810/830/840/850/870 Toner	£16
15248 Oki OL400E/OL400W/410E/410EX/600EX/610EX/810EX Drum	£99
11482 Oki OL400E/OL400W/410E/410EX/600EX/610EX/810EX Toner (4511)	£15
14460 Oki 16N Toner	£23
11390 Panasonic KXP4400/5400 Drum	£52
13501 Panasonic KXP4400/5400 Toner	£10
11389 Panasonic KXP4410/4430/4440 Developer	£82
11388 Panasonic KXP4410/4430/4440 Drum & Ozone	£69
11577 Panasonic KXP4410/4430/4440 Toner	£29
11127 Panasonic KXP4420 Developer	£57
11333 Panasonic KXP4420 Drum	£52
11447 Panasonic KXP4420 Toner	£27
11447 Panasonic KXP4450/4450/4451/4455 Developer	£55

15065 Panasonic KXP4450/4450/4451/4455 Drum	£67
11214 Panasonic KXP4450/4450/4451/4455 Toner	£19
11425 Panasonic KXP100/6150 Toner	£12
11679 Panasonic KXP3300/6500 Toner	£12
11589 Star L55 Toner	£68
11562 Star WinType 4000 Toner	£68
<b>LASER ACCESSORIES</b>	
14419 Brother HL1660 Second Duplex Unit	£336
15716 HP LaserJet 4 JetDirect Ethernet Card	£235
11136 HP A4 Letter Tray For L4/4M	£225
11431 Panasonic KXP4420 Ozon Filter	£9
18001 JetEye Printer Infrared Link	£82
19693 ExtendNet 100s	£265
<b>9 PIN DOT MATRIX PRINTERS</b>	
<b>EPSON</b>	
Covered by 1 year warranty	
18977 Epson FX880	£247
13372 Epson LX300 80col	£97
13381 Epson FX-1170 136 col	£230
<b>OKI</b>	
19652 Oki ML 320	£309
19659 Oki ML 3320	£315
19656 Oki ML 3410	£799
<b>PANASONIC</b>	
Covered by 1 year warranty	
13367 Panasonic KXP1150 80col	£87
16873 Panasonic KXP3200 80col	£169
10010 Panasonic KXP3596 132col (1 year onsite)	£269
<b>24 PIN DOT MATRIX PRINTERS</b>	
<b>EPSON</b>	
13658 Epson DL3000 132col	£791
10035 Epson LQ300 80col	£115
10049 Epson LQ570 + 80col	£216
14418 Epson LQ670	£230
13378 Epson LQ870	£377
14072 Epson LQ2070 132col	£330
10048 Epson LQ2170 132col	£468
<b>PANASONIC</b>	
13363 Panasonic KXP2023 80col	£112
10063 Panasonic KXP3626 132col (1 year onsite)	£265
<b>INKJET PRINTERS</b>	
<b>BROTHER</b>	
18518 Brother MFC3000 Colour Printer/Copier/Scanner	£449
<b>CANON</b>	
20435 Canon BJC50	£192
20559 Canon BJC50 + Image Scanner	£238
14508 Canon BJC80 Colour	£142
14609 Canon BJC80 + Image Scanner	£185
14468 Canon BJC250 Colour	£71
19650 Canon BJC4650 Colour A3 InkJet Printer	£197
20766 Canon BJC5000	£175
16997 Canon BJC5500 Colour	£409
19255 Canon BJC7000 Colour	£175
<b>CITIZEN</b>	
19669 Citizen Printiva 700C Colour	£122
<b>EPSON</b>	
20575 Epson Stylus 440 Colour	£103
20577 Epson Stylus 640 Colour	£133
20578 Epson Stylus 740 Colour	£177
19631 Epson Stylus 850 Colour	£207
14295 Epson Stylus 1520 Colour	£451
17843 Epson Stylus 3000 Colour A2	£1,118
19835 Epson Stylus Pro 5000	£1,587
19628 Epson Stylus Photo 700	£163
19629 Epson Stylus Photo EX	£308
<b>HEWLETT PACKARD</b>	
15370 HP DeskJet 340 Colour	£135
19709 HP DeskJet 340 CBI (Infra Red)	£159
20606 HP DeskJet 420C Colour	£66
15371 HP DeskJet 690C Colour	£96
20607 HP DeskJet 710C Colour	£134
19347 HP DeskJet 720C	£149
20902 HP DeskJet 8950A Colour	£186
19552 HP DeskJet 1120C Colour	£285
13710 HP DeskJet 1600 Colour	£871
10007 HP DeskJet 1600N Colour	£1,280
19386 HP OfficeJet 635	£339
20608 HP OfficeJet 1170C Colour	£489
20609 HP OfficeJet 1175C Colour	£614
20338 HP DeskJet 2000C	£460
20339 HP DeskJet 2000CN	£652
<b>LEXMARK</b>	
Covered by 1 year swap-out warranty	
20640 Lexmark 1100 ColourJet Colour	£79
20641 Lexmark 3200 ColourJet Colour	£118
19711 Lexmark 5700 ColourJet Colour	£153
19480 Lexmark 7200 ColourJet Colour	£195

20585 Lexmark Optra 40 Colour Jet. A4 4Mb	£276
20586 Lexmark Optra 40N Colour Jet. A4 4Mb	£425
20583 Lexmark Optra 45 Colour Jet. A3 8Mb	£589
20584 Lexmark Optra 45N Colour Jet. A3 8Mb	£947
<b>QMS</b>	
18487 QMS Magicolor CX 40Mb 1200dpi Colour	£4,295
<b>OLIVETTI</b>	
JetPrinters	
18394 Olivetti JP 90	£114
17567 Olivetti JP 190	£79
18401 Olivetti JP 790C	£145
<b>XEROX</b>	
InJet	
19712 Xerox - DocuPrint X4C Colour	£130
19713 Xerox - Document Home Centre A4 Printer/Copier/Scanner	£169
<b>INK CARTRIDGES</b>	
18523 Brother MC3000 Black Cartridge	£13
18522 Brother MC3000 Cyan Cartridge	£6
18521 Brother MC3000 Magenta Cartridge	£6
18520 Brother MC3000 Yellow Cartridge	£6
11342 Canon BJ105x/BJ105x/BJ20 BC01	£12
11422 Canon BJ30 / BJC70/80 Black Ink Tank - 3Pack	£9
11432 Canon BJ200 /210/230/240 Black Ink BC02	£13
15322 Canon BJ200 /210/230/240 Colour Ink BC05	£14
11343 Canon BJ300/BJ330 Black BJ642	£9
11424 Canon BJC70 Ink Tank In Colour 3 Pack BC11c	£20
11420 Canon BJ30/BJC70/80 Black Ink Cart.	£12
11421 Canon BJC70 Colour & Black Cartridge BC11	£23
11423 Canon BJC70 Black Ink 3 Pack BC11BK	£28
18676 Canon BJC80 Non Sruddge Colour Ink Cartridge BC11e	£81
16679 Canon BJC240 Fluorescent Ink Cartridge - BC09F	£21
16616 Canon BJC240 Photo Ink Cartridge - BC09	£13
11646 Canon BJC600/600e/610/620 Black High Capacity	£5
13683 Canon BJC600/600e/610/620 - Cyan	£5
11608 Canon BJC600/600e/610/620 - Magenta	£5
11607 Canon BJC600/600e/610/620 - Yellow	£5
11581 Canon BJC800 - Black BJ643BK	£12
13727 Canon BJC800 - Cyan BJ643C	£15
11584 Canon BJC800 - Magenta BJ643M	£15
13729 Canon BJC800 - Yellow BJ643Y	£15
11405 Canon BJC4000/4100/4200/4550/5550 Black Ink Tank	£11
11406 Canon BJC4000/4100/4200/4550/5550 Colour Ink Tank	£450
11407 Canon BJC4000/4100/4200/4550/5550 BC20 Black Ink Cart	£18
21114 Canon BJC5000 Black Ink cartridge BC23	£C4LL
16680 Canon BJC4200/4650 Fluorescent Ink Cartridge BC29F	£21
18828 Canon BJC4000/4100/4200/4300/4550 Colour Ink Cart BC-21e	£25
14289 Canon BJC4200/4650 Photo Ink Cartridge BC22	£18
19494 Canon BJC7000 Colour Cartridge BC61	£36
19495 Canon BJC7000 Colour Ink Tank BC61	£14
19496 Canon BJC7000 Photo Colour Cartridge BC62	£29
19497 Canon BJC7000 Photo Colour Ink Tank BC62	£19
21035 Canon BJC4650 Photo Colour Cartridge BC-22e	£18
21036 Canon BJC4650 Scanner Cartridge IS - 22	£67.41
14024 Citizen Printiva 600C/700C Black Ink Cart	£4
11548 Citizen Printiva 600C/700C Cyan Ink Cart	£5
11552 Citizen Printiva 600C/700C Magenta Ink Cart	£5
11554 Citizen Printiva 600C/700C Yellow Ink Cart	£5
15139 Citizen Printiva 600C/700C Metallic Cyan Ink Cart	£10
11558 Citizen Printiva 600C/700C Metallic Gold Ink Cart	£10
11555 Citizen Printiva 600C/700C Metallic Magenta Ink Cart	£10
11471 Epson S0850/2550 Black Ink	£17
15369 Epson S0870/S01170 Black Ink	£16
13771 Epson Stylus 200/500 Colour Ink Cart. S020097	£18
11586 Epson Stylus 300 Black Ink Cart. S020031	£15
18678 Epson Stylus 300 4 Colour Ink Cart.	£12
18436 Epson Stylus Colour 3000/5000 Black Ink Cart. S020018	£32
18437 Epson 3000 Cyan S020130	£32
18439 Epson 3000 Magenta S020126	£32
18440 Epson 3000 Yellow S020122	£32
13772 Epson Stylus 400/500/600 Black Ink S020093	£18
11592 Epson Stylus 400/800+/1000 Black Ink	£4
13760 Epson Stylus 400/800+/1000 Double Black Ink	£13
20689 Epson Stylus 440/640 Black Ink	£12
20690 Epson Stylus 440/640/740 Colour Ink	£16
10007 HP DeskJet 1600N Colour	£1,280
19386 HP OfficeJet 635	£339
20608 HP OfficeJet 1170C Colour	£489
20609 HP OfficeJet 1175C Colour	£614
20338 HP DeskJet 2000C	£460
20339 HP DeskJet 2000CN	£652
<b>LEXMARK</b>	
Covered by 1 year swap-out warranty	
20640 Lexmark 1100 ColourJet Colour	£79
20641 Lexmark 3200 ColourJet Colour	£118
19711 Lexmark 5700 ColourJet	

11348	HP DeskJet 350 / 400 / 500 Black Ink	£17
11347	HP DeskJet 350 / 400 / 500 Colour Ink	£16
11519	HP DeskJet 600Series Black Ink	£17
11522	HP DeskJet 600Series Colour Ink	£17
14192	HP DeskJet 690 633 Photo Colour Cartridge C18161A	£23
11495	HP DeskJet 720/850/870/890/1600 H51645A Black Cart.	£18
19488	HP DeskJet 720/850/870 Colour Ink Cartridge C1823A	£26
11502	HP DeskJet 820/850/870 Colour Ink H51641A	£18
15128	HP DeskJet 1200/CopyJet/DesignJet650 Bk. Ink	£22
11600	HP DeskJet 1200/1600/CopyJet - Cyan	£18
11598	HP DeskJet 1200/1600/CopyJet - Magenta	£19
11599	HP DeskJet 1200/1600/CopyJet - Yellow	£18
11601	HP PaintJet XL300 Black Ink Cart.	£20
11602	HP PaintJet XL300 - Cyan Ink Cart.	£21
11603	HP PaintJet XL300 - Magenta Ink Cart.	£21
11604	HP PaintJet XL300 - Yellow Ink Cart.	£21
11674	Lexmark 1000/1020/2030/2050/3000 Black Ink	£19
14210	Lexmark 1000/1020/2030/2050/3000 Colour Ink	£23
14150	Lexmark 2070 Black Ink	£24
14151	Lexmark 2070 Colour Ink	£27
18684	Lexmark 7000/7002/5000/5700 Black	£19
18685	Lexmark 7000/7002/5000/5700 Colour	£22
19787	Lexmark 5000/7000/7200 Photo Colour	£27

**COMPATIBLE INK CARTRIDGES**

18733	Canon BJC4000 series ok B021C	£5.75
18735	Canon BJC600 series Black BJC201BK	£4.25
18727	Epson Stylus Col/Pro/AL Ti Colour	£15
18726	Epson Stylus Col/Pro/AL Black	£7
18728	Epson Stylus Mts Black	£7
18741	Epson Stylus 200/500 Colour	£14.99
11419	Epson Stylus 800/1000 Black Twin pk	£9
18740	Epson Stylus 400/500/600 Black	£8.99
18730	HP 500/500c Black twin pk	£17
18737	HP 500/500c Black System	£35

**PRINTER RIBBON**

11321	Citizen 1200+	£6
17495	Citizen ProDot 450 L Black Ribbon	£7
17497	Citizen ProDot 810 X Black Ribbon	£22
17498	Citizen ProDot 810 X Colour Ribbon	£40
11338	Citizen Swift 24/200/240/ABC Black Ribbon	£5
13653	Citizen Swift 24/200/240/ABC Colour Ribbon	£11
11378	Citizen Swift 24X Black Ribbon	£7
11377	Citizen Swift 24X Colour Ribbon	£11
18456	Epson DF-X5000+8000 Black Ribbon	£13
18451	Epson DF-X5000+8000 Ribbon Refill	£12
18450	Epson DL03000 Black Film Ribbon	£16
11408	Epson DL03000 Black Ribbon	£15
11409	Epson DL03000 Colour Ribbon	£21
11322	Epson EX800/1000 Black Ribbon	£5
11310	Epson EX800/1000 Colour Ribbon	£9
18454	Epson FX/L021170/L022070 Black Ribbon	£14
13733	Epson L01100 Black Ribbon	£5
11442	Epson L0570/L0670 Black Ribbon	£5
11323	Epson L01000/L0501070/L170 Black Ribbon	£12
11444	Epson L01070/L01170 Black Ribbon	£5
18457	Epson L01500 Black Ribbon	£5
11334	Epson L02550 Black Ribbon	£5
13737	Epson L02550 Colour Ribbon	£12
11445	Epson LX86/80, GX80 Black Ribbon	£4
13732	Epson LX100 Black Ribbon	£4
18459	Epson LX300 Colour Ribbon	£16
13750	NEC PS2/P72/P90 Black Ribbon	£8
11301	Panasonic 1123 / 1124 / 2023	£6
11265	Panasonic 1150/1170/1180	£5
11384	Panasonic 1624/2624	£7
11339	Panasonic 2180/2123/2124/2135 Black Ribbon	£8
11559	Panasonic 3696/3626	£10
11567	Star LC10/LC20/LC100 Black Ribbon	£4
11331	Star LC10/LC20/LC100 Colour Ribbon	£6
11349	Star LC200 Black Ribbon	£5
11379	Star LC200 Colour Ribbon	£11
11385	Star LC240 Col Black Ribbon	£7
11386	Star LC240 Col Colour Ribbon	£10
11413	Star SJ144 Black Ribbon	£9
13762	Star SJ144 Black Ribbon	£10

**CUT SHEET FEEDERS**

15491	Epson L0570, 870, FX870, C806382	£99
11158	Epson L01170 Hi-Cap C806471	£49
11178	Epson S0870 Hi-Cap CSF C806481	£89

**PRINTER ACCESSORIES**

13744	Canon BJC3070 Battery Pack & Adaptor	£47
15164	Epson LX300 Colour Kit	£29
11677	Epson L0300 Colour Kit C832112	£35
17841	Epson Ethernet Interface for Stylus 1520 Printer	£279
14377	HP DeskJet 320/340 Infra Red Adaptor	£32
14182	HP DeskJet 6300 Photo Colour Kit (C4584A)	£30
14267	HP Infra Red Adaptor for 313/320/340	£29
19759	Printer Organiser	£22

**PRINTER LEADS & CABLES**

12332	1.8m 18wire PC Parallel	£3
12385	1.8m 25wire PC Parallel Enhanced EPP	£5
12360	1.8m 25 Male 'D' to 25 Female 'D'	£4
12366	1.8m 25 Male 'D' to 25 Male 'D'	£4
12340	1.8m Centronics Male to Centronics Male	£7
12343	5m 18wire PC Parallel	£8
12383	5m 25wire PC Parallel Enhanced EPP	£10
12365	5m 25 Male 'D' to 25 Female 'D'	£8
12370	5m 25 Male 'D' to 25 Male 'D'	£8
12375	5m Centronics Male to Centronics Male	£8
12346	10m 18wire PC Parallel	£13
12384	10m 25wire PC Parallel Enhanced EPP	£15
12368	10m 25 Male 'D' to 25 Female 'D'	£12
12372	10m 25 Male 'D' to 25 Male 'D'	£12
12378	10m Centronics Male to Centronics Male	£11

**PRINTER PAPER**

11311	9.5"x11" Fanfold Paper - 1000shs.	£5
11313	9.5"x11" Fanfold Paper - 2000shs.	£9
11315	A4 70g Fanfold Paper - 2000shs.	£12
11450	A4 80g White Laser Paper - 500shs.	£3
11595	A4 90g White Laser Paper - 500shs.	£5
16743	Canon BJC4000 Coated Paper - 200shs.	£20
16741	Canon BJC4000 High Gloss Film - 50shs.	£20
16742	Canon BJC4000 Transparencies - 50 Shs.	£30
14313	Canon BJC4550/4650 Coated Paper A3 - 200shs.	£35
18443	Epson A2 Photo Quality Glossy Paper - 20shs.	£32
14307	Epson A2 Stylus Photo Quality Ink Jet Paper - 30shs.	£24
18442	Epson A3 Photo Quality Glossy Paper - 20shs.	£17
11672	Epson A4 360 dpi Stylus Coated Paper - 100shs.	£9
14299	Epson A4 High Gloss Paper for Stylus 15shs.	£20
18441	Epson A4 Photo Quality Glossy Paper - 20shs.	£6
15156	Epson A4 Transparencies for Stylus 30shs.	£32
14298	Epson A4 Stylus Photo Quality Ink Jet Paper - 100shs.	£9
16736	HP A4 DeskJet Cut Sheet Paper - 200shs.	£12

**PRINTER LABELS**

11480	70mm x 37mm A4 Laser Labels - 2400	£15
11317	89mm x 36mm Single Row Fanfold Labels - 1000	£5
11318	89mm x 36mm Twin Row Fanfold Labels - 1000	£5
11320	102mm x 36mm Twin Row Fanfold Labels - 1000	£5

**EXTENDED ON-SITE WARRANTY PACKS**

<b>CANON</b>		
19801	3 Year Extended Warranty - BJC-80	£32
<b>EPSON COVER PLUS</b>		
15072	Group 1 - Lx300, LQ300, Stylus 300/440/640	£25
15180	Group 2 - FX880, L0570, L0670, Stylus 400/800/700, G15000	£35
Onsite - LX300, LQ300, Stylus 300/440/640		
15181	Group 3 - FX1170/1180/2180, L0870/2070/2170, Photo EX, Stylus 1520	£99
Onsite - FX880, L0570+L, L0670, Stylus 400/800, Photo, EPL5700, G15500		
15182	Group 4 - DL0300+	£59
Onsite FX1170/1180/2180, L0870/2070/2170, Stylus EX/1520		
15183	Group 5 - DF-X5000+DL03000/Styl 1500	£189
15184	Group 6 - DF-X8000/Pro XL+EP19000	£239

**HEWLETT PACKARD SUPPORT PACKS**

12513	Deskjet 340 400 600 670 690 930 120 1100 Surestore T4i (H5416A)	£35
12516	OfficeJet 635 (H5467A)	£61
12518	Deskjet 1600C 1600CM (S473A)	£295
12519	Deskjet 1175C 2000 Pro (H5475A)	£124
13713	Laserjet 6P 6MP Drumbock (H5476A)	£119
13720	Laserjet 6L (H5500A)	£67
14080	Laserjet 4000 Series (H5479A)	£154
16478	Surestore 1200 Officejet 1150c 1170c Lj3100 (H5471A)	£102
16978	Deskjet 890c Surestore 5000 (H5465A)	£57

**KYOCERA WARRANTY PACKS**

14504	Kyocera FS600 (2 Years)	£99
16709	Kyocera FS1550/FS1600 (3 Years)	£179
16706	Kyocera FS3400/FS3600 (1 Year)	£160
12530	Kyocera FS1550/FS1600	£95
14274	Kyocera FS1700	£190
15926	Kyocera FS3400/FS3600	£89

**LEXMARK WARRANTY PACKS**

16710	Lexmark Optra R+	£118
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**PRINTER SHARER / BUFFERS**

<b>MANUAL PRINTER SHARERS - PARALLEL</b>		
12396	2in/1out	£10
12401	2in/2out	£29
12391	3in/1out	£17
12419	4in/1out	£15
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18861	GT-5500 SCSI	£125
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21029	GT-7000 Film Adaptor	£256
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<b>KISSCO</b>		
19466	Short Cuts Win95/NT CD	£21
19467	Key View Pro Win95/NT CD	£29
19469	Speed Surfer Win95/NT CD	£21
19471	Modem Wizard 97 Win95/NT CD	£21
<b>OTHER</b>		
19242	Compuserve Internet Plus Win95/NT4.0 CD	£6
21067	Softquad Hot Metal Pro V5.0 CD	£75
17984	IMSI Net Accelerator Win95	£24
17658	Micrografx Webcity Win 95 CD	£95
21061	Micromedia Fireworks CD	£239
<b>UTILITIES - VOICE RECOGNITION</b>		
<b>DRAGON SYSTEMS</b>		
20866	Naturally Speaking Personal Win 95/NT CD	£119
19326	Naturally Speaking Preferred Win95/NT CD	£39
19326	Naturally Speaking Professional Win95/NT CD	£299
19327	Naturally Speaking Deluxe Win95/NT CD	£429
20650	Dictate Lite Win 95 CD	£37
20651	Point & Speak Win 95 CD	£49
<b>IBM</b>		
20523	ViaVoice 98 Executive Edition Win95/98/NT CD	£89
20525	ViaVoice 98 Home Edition Win95/98/NT CD	£37
16386	VoiceType Dictation V3.0 Win95 CD	£469
16387	VoiceType Simply Speaking V3.0 Win95 CD	£32
<b>LEARNOUT &amp; HAUSPINE</b>		
20867	Voice Xpress Cont. Dictation	£31
20868	Voice Xpress Plus Cont. Dictation into MS Word	£102
<b>KURZWEL</b>		
20525	Voice Commands Win95 CD	£42
<b>WORD PROCESSORS</b>		
<b>LOTUS</b>		
17965	Word Pro 97 WIN3.1 WIN95 CD	£36

SOFTWARE LISTINGS

**SALES HOT-LINE: 01582 745555**  
**FAX-LINE: 0870 729 5648**  
**ON-LINE: www.watford.co.uk**  
**SALES LINES OPEN: 9am-7pm MONDAY-FRIDAY, 9am-6pm SATURDAYS**

**FREE GIFT WITH EVERY ORDER**



# Aries PC Configurator.

At Watford Electronics we understand how important it is that a PC matches your needs. That's why we are proud to offer our custom PC configuration system. To specify your own system simply tick one component from each section and fax a copy of this page to our PC specialists on 0870 729 5648. We will fax you a quote for your ideal system. If you like what you see, we can build it within a few days. It's that simple! Where a \* appears next to a GROUP name, selection of one component from that group is mandatory. Where a \* appears next to a COMPONENT name, selection of that component is mandatory. In groups with an OTHER option you can specify any component from our range. See the appropriate page for our listings. In the Optional OTHER section you can enter any additional components which you require. e.g. a network card. All PCs carry a 6 Year warranty as standard. This includes 1 year return to base parts and labour warranty followed by 5 Years Return To Base labour only warranty.

If all the above seems like double dutch, simply phone or fax us, to tell us what you want your PC to do. We will fax you a tailor made quote.

Build your own PC!

## Motherboards and Processors\* (A motherboard and processor are essential, choose 1 processor from 1 of the sections below)

### BX Motherboards and Intel Processors

- Intel Pentium II 300Mhz
- Intel Pentium II 350Mhz
- Intel Pentium II 400Mhz
- Intel Pentium II 450Mhz

### Ali Motherboards and AMD Processors

- AMD K6-2 (3D) 300Mhz
- AMD K6-2 (3D) 350Mhz
- AMD K6-2 (3D) 380Mhz
- AMD K6-2 (3D) 400Mhz

### Ali Motherboards and Cyrix Processors

- Cyrix M2-PR233 233Mhz
- Cyrix M2-PR300 300Mhz
- Cyrix M2-PR333 333Mhz

## Memory\*

### SDRAM PC 100

- 32MB
- 64MB
- 128MB (64 x 2)
- Other \_\_\_\_\_

## Storage\*

(You need 1 Hard Drive and 1 Floppy Drive (or LS120). You may also choose a CD-ROM, DVD or Iomega Drive. See page 39-40 for further options.)

### EIDE Hard Drives\*

- 3.2Gb Ultra ATA
  - 4.0Gb Ultra ATA
  - 6.4Gb Ultra ATA
  - Other \_\_\_\_\_
- Manufacture \_\_\_\_\_

### Drives

- 3.5" Floppy Drive\* or
- LS-120 120Mb Drive\*
- Iomega Zip 100Mb Drive
- Iomega Jaz 1Gb Drive
- Other \_\_\_\_\_

### CD / DVD (optional)

- 36X Max CD-ROM IDE
- 2nd Generation DVD
- Creative DVD & MPEG Decoder
- Other \_\_\_\_\_

## Display\*

(You need 1 Monitor and 1 Graphics card. See page 40-42 for further options.)

### Aries Monitors\*

- Aries EnergyPro 14"
- Aries EnergyPro 15"
- Aries EnergyPro 17"
- Aries EnergyPro 19"
- Other \_\_\_\_\_

### Graphics Cards\*

- ATI 3D Rage 4Mb
- Matrox Productiva 8Mb
- Matrox Millennium 8Mb G200
- Creative Blaster Riva TNT
- Other \_\_\_\_\_

## Multimedia

(These items are optional choose 1 from each section. See page 42 for further options.)

### Sound Cards

- Aries 16bit 3D PNP
- Creative Sound Blaster 128
- Diamond Sonic Impact S90
- Other \_\_\_\_\_

### Speakers

- Aries Ultra Power 80W PMPO
- IBM Subwoofer System
- Creative FourPoint Surround
- TEAC PowerMax 1000 Surround
- Other \_\_\_\_\_

## Basics\*

(You need 1 item from each section. See page 41 & 45 for further options.)

### Keyboards\*

- Aries Standard 105 Key
- Aries Advance 105 Key
- Microsoft Natural
- Other \_\_\_\_\_

### Mice\*

- Microsoft Compatible
- Logitech Pilot
- Microsoft Mouse
- Other \_\_\_\_\_

### Case\*

- Desktop Case
- Midi Tower ATX Case
- Full Tower ATX Case

### Operating System\*

- Windows 98
- Windows NT Workstation

## Modems

(See page 41 for options)

### K56 Modems

- Aries 56K/V90 Internal
- Aries 56K/V90 External
- Other \_\_\_\_\_

## Options

(Specify your own options here!)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Personal Information

Name \_\_\_\_\_

Job Title \_\_\_\_\_ No. of PCs at site \_\_\_\_\_

Company/Organisation \_\_\_\_\_ No. Systems Required \_\_\_\_\_

Address \_\_\_\_\_

Postcode \_\_\_\_\_ e-mail \_\_\_\_\_

Tel: (Daytime) \_\_\_\_\_ Fax: (Daytime) \_\_\_\_\_

## Printers

(Specify your own, see page 43 & 44)

\_\_\_\_\_



**WATFORD**  
electronics

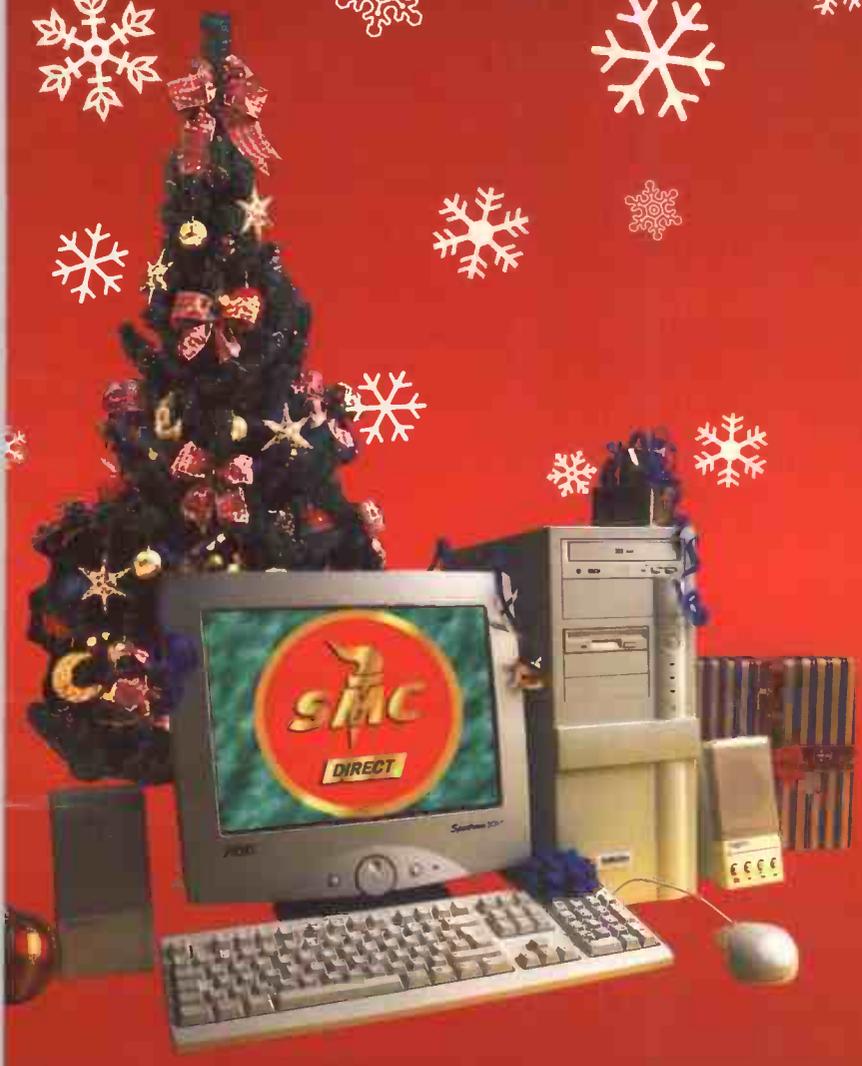
For a fast quote. Fax this page on:  
**0870 729 5648**

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HEAD OFFICE & RETAIL STORE: JESSA HOUSE, FINWAY, OFF DALLOW ROAD, LUTON LU1 1WE

# CHRISTMAS 1998

## HAVE A GREAT CHRISTMAS WITH SMC DIRECT!



At this time of year everybody has just one thing on their mind—Christmas; and the mayhem it entails. But with queues getting longer and days getting colder, why bother to go shopping, when a simple phone call to SMC Direct saves you time and, more importantly, money. With our recent accreditation of ISO9002 you're guaranteed the best quality of service and good prices.

So let SMC Direct take the stress out of your Christmas and give you a present from us . . .

. . . peace of mind.

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Prices effective from 8th day of month of publication. Whilst every effort is made to ensure accuracy, prices & specifications can be subject to change without notice. Please confirm details when ordering. E&OE : Errors & Omissions excepted.

# PC UPGRADES & SYSTEMS

## SMC : TOTAL QUALITY AT LOWEST PRICES



# SHOP AT SMC AND MAKE SURE OF A QUALITY CHRISTMAS !



At SMC, as one of the UK's foremost suppliers of PC's and upgrades, we have built our business on our reputation for providing an utterly professional service at fiercely competitive prices.

Take a look at the product listings on these pages and we're sure you'll agree that with our established quality of operation coming free of charge, you won't find better value for your money.

## USEFUL INFORMATION

### HOW TO ORDER



#### BY TELEPHONE :

Call one of our FREE Sales Hotlines (given at the top of every right-hand page). We can give you details of product availability, process your order and start the shipment process while you wait.

#### BY FAX :

Fax us on 01753 - 524443 with your requirements and payment details and we'll process the order immediately. Please include a phone number !

#### BY POST :

Send us your requirements and payment for immediate attention. Uncovered personal cheques may take 10 working days to clear. Please include a phone number !

#### IN PERSON :

Personal callers are welcome, but you are advised to telephone and reserve stock beforehand, when you will be given a sales reference and given priority treatment when you arrive.

#### PLEASE NOTE :

SMC Computers has very strict payment security procedures which exist for everyone's benefit. We may call you to confirm details as part of this process.



### Welcome to the Christmas edition . . .

As the year draws to a close, we are celebrating the most successful period since we started nearly eight years ago.

Our objectives for 1998 were to grow strongly but carefully, and to constantly review our quality standards with a view to further enhancement.

In all areas, we have over-achieved. Sales have surpassed our expectations by a very long way, and our ISO9002 quality accreditation was achieved with BSI's auditors being visibly impressed by the standards we work to.

On the back of our success, we have been able to reduce prices as never before. This month's catalogue features our lowest prices ever, along with dozens of new lines, enabling us to offer you the very latest products on the market in time for Christmas.

Don't forget, we're just a Freephone call away, so when you're ready, just give us a ring and let us make sure that your Christmas is a quality one !

### NON-SALES HOTLINES

<b>CUSTOMER CARE</b>	<b>01753 550999</b>
<b>SWITCHBOARD</b>	<b>01753 550666</b>
<b>FAX</b>	<b>01753 535175</b>

### SMC Guarantees You Peace Of Mind

We appreciate that the products we sell are of a technical and sometimes confusing nature, and occasionally problems may arise, so for your peace of mind SMC offers you a unique **Four-Stage** guarantee :

- Stage 1 : Our 7 day option -** When you receive your purchase, if you are not completely satisfied, we will gladly exchange it or refund the purchase price less carriage charges.
- Stage 2 : Our 30 day option -** If any product that you order fails within 30 days, we will gladly exchange it or refund the purchase price less carriage charges.
- Stage 3 : Warranties -** Just arrange to return the product to us and we will handle it from there.
- Stage 4 : Quick response -** If you have need to use any of the above options, or if you have any problems that need resolving, please contact our Customer Service team on **01753 550999** for an immediate, no-fuss response.

So with this in mind, you can order from SMC with total confidence in the knowledge that every product will perform to your expectations -

#### OR WE WILL TAKE IT BACK

(Does not include: Notebooks, Printers, Software, made-to-order items such as Systems and cables, and items specially purchased. Goods must be returned intact and complete in their original packaging! (Full SMC Terms & Conditions are available on request)

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Midlands - 0800 597 6 333

North - 0800 597 7 333

Scotland - 0800 597 8 333

FAX : 01753 524443

VISIT OUR WEBSITE AT:  
www.smcdirect.co.uk

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For Customer Care and Switchboard Hotlines see Page 2



THE BEST YOU'LL GET

**NEW!**

**Infinite**  
Personal Computer

## PC PACKAGES

### Home PC Plus 300

SMC's design team have brought together everything for a complete home PC solution :

- >> AMD 300MHz K6/2 processor
- >> 32MB SDRAM
- >> 2MB 2D/3D graphics
- >> 64-bit sound with stereo speakers
- >> 2GB hard drive
- >> 32-speed CD-ROM drive
- >> 14" SVGA monitor
- >> Hewlett Packard Deskjet printer
- >> W95 105-key keyboard & mouse
- >> Microsoft Windows 98
- >> Lotus Smartsuite software

We don't think you'll find better value for money!

**£559**

£656.83 inc.VAT

The latest offerings from SMC are our new ready-to-go bundled PC's, complete with the equipment and software necessary to get straight into action.

The **Home PC Plus 300** is the ideal solution for the entry-level purchaser : not only do you get state-of-the-art technology, but with a Hewlett Packard Deskjet printer and the full Lotus Smartsuite office software, you're up and running in no time at all.

The **Multimedia Publisher 300A** has been designed with real flair in mind : all the sound and vision capabilities of the Home PC Plus, as well as Internet capability, enhanced graphics, a colour A4 Flatbed Scanner and the full Microsoft Home Essentials software package.

We're very pleased with our latest creations, and to see why, all you have to do is call . . .

### Multimedia Publisher 300A

Whether it's business, games or Internet access, this is the versatile solution for all needs. You'll also be able to scan images and text into your PC, adding a new dimension to both work and play.

- >> Intel 300MHz Celeron A processor
- >> 32MB SDRAM
- >> 4MB 2D/3D graphics
- >> 64-bit sound with stereo speakers
- >> 56k Fax/Modem
- >> 3GB hard drive
- >> 24-speed CD-ROM drive
- >> 14" SVGA monitor
- >> Hewlett Packard Deskjet printer
- >> Colour A4 Flatbed Scanner
- >> W95 105-key keyboard & mouse
- >> Microsoft Windows 98
- >> Microsoft Home Essentials software

**£849**

£997.58 inc.VAT

Software packaging shown for illustration purposes only

SMC Direct is a trading name of :  
SMC Computers Plc

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ALL MAJOR CREDIT CARDS ACCEPTED

INFINITE PC SYSTEMS

For SMC's unique guarantee : see page 2

3

## For a truly Personal Computer ...

While the systems listed below can usually be provided off-the-shelf, we also specialise in the production of made-to-measure PC's, designed and built to individual requirements. If you have a specific design in mind - or would simply like a quotation on a variation of a model you see below - just give one of our Sales Hotlines a call and one of our Technical Sales specialists will be happy to discuss what you need in terms of performance and price. Individually-built systems take around five working days to process fully, so if you call us today, within a week you could have a new PC that is exactly what you want, and because we don't charge for the extra service, it will be at a price you can afford.

## LYNX C300A

The Lynx can run all your business applications today and because of its ease of upgradability, when your business grows - it can grow with you.

- >> INTEL CELERON A 300MHz processor
- >> Upgradability to 450MHz
- >> INTEL's latest PII 440BX chipset
- >> 32MB fast SDRAM
- >> 4.3 GB Hard Drive
- >> 32-speed CD-ROM drive
- >> 2MB 2D/3D AGP graphics
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> 15" SVGA monitor

**£569**

£668.58 inc.VAT

## COUGAR 333

The Cougar has been designed as the ideal all-round Multimedia PC.

- >> INTEL Pentium II 333MHz processor
- >> Upgradability to 450MHz
- >> INTEL's latest PII440BX chipset
- >> 512KB Level 2 Cache
- >> 32MB fast SDRAM
- >> 4.3 GB Hard Drive
- >> 32-speed CD-ROM drive
- >> 4MB 2D/3D AGP graphics
- >> 64-bit sound with stereo speakers
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> 15" SVGA monitor

**£629**

£739.08 inc.VAT

## LEOPARD 350

The Leopard is configured as the ultimate gaming solution.

- >> INTEL Pentium II 350MHz processor
- >> Upgradability to 450MHz
- >> INTEL's latest PII 440BX chipset
- >> 512KB Level 2 Cache
- >> 64MB super-fast 100MHz SDRAM
- >> 6.8GB Hard Drive
- >> 32-speed CD-ROM drive
- >> 64-bit sound with stereo speakers
- >> 12+4MB 2D/3D AGP Voodoo2 graphics
- >> 56Kbps Fax/Modem
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> G.Police, Incoming, Actua Soccer and Ultimate Race games
- >> 15" SVGA monitor

**£899**

£1056.33 inc.VAT

## PUMA 350

With network capability, the Puma is ideal for use as a workstation on either a conventional or peer-to-peer network.

- >> INTEL Pentium II 350MHz processor
- >> Upgradability to 450MHz
- >> INTEL's latest PII 440BX chipset
- >> 512KB Level 2 Cache
- >> 64MB super-fast 100MHz SDRAM
- >> 4.3GB Hard Drive
- >> 32-speed CD-ROM drive
- >> 64-bit sound with stereo speakers
- >> 4MB 2D/3D AGP graphics
- >> Intel 10/100 Base-T Network card
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> 15" SVGA monitor

**£739**

£868.33 inc.VAT

## JAGUAR 350

The Jaguar is an excellent all-round system with ample capacity for all business, games and multimedia applications.

- >> INTEL Pentium II 350MHz processor
- >> Upgradability to 450MHz
- >> INTEL's latest PII 440BX chipset
- >> 512KB Level 2 Cache
- >> 32MB super-fast 100MHz SDRAM
- >> 6.8GB Hard Drive
- >> 32-speed CD-ROM drive
- >> 64-bit sound with stereo speakers
- >> 4MB 2D/3D AGP graphics
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> 15" SVGA monitor

**£699**

£821.33 inc.VAT

## PANTHER 400 DVD

The Panther includes a DVD drive for playing back movies in crystal clear digital quality and for running the next generation of software.

- >> INTEL Pentium II 400MHz processor
- >> Upgradability to 450MHz
- >> INTEL's latest PII 440BX chipset
- >> 512KB Level 2 Cache
- >> 64MB super-fast 100MHz SDRAM
- >> 6.8GB Hard Drive
- >> 5-speed DVD-ROM drive
- >> 64-bit sound with stereo speakers
- >> 4MB 2D/3D AGP graphics
- >> 56Kbps Fax/Modem
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> 15" SVGA monitor

**£989**

£1162.08 inc.VAT

**HARDWARE** : Our product quality is the best because we control every stage of the process, and will only install major branded products into our systems.

**SOFTWARE** : In addition to Windows 98 operating system pre-installed, you have the option of special software upgrade offers at the time of purchase. Please discuss these with your sales contact, who will be pleased to advise you.

**SUPPORT** : With every Infinite system on this page, there's a full FIVE-YEAR warranty (the first year on-site (parts and labour), years 2-5 return to base, labour only) and 3 year warranty with every monitor. Extended on-site warranty options are available.

With the special PC Packages featured on Page 3, warranty is one year, return-to-base, covering both parts and labour, though on-site warranty can be arranged for a small additional charge. In addition, there's lifetime technical support on our dedicated hotline to give you complete peace of mind.

**Infinite**  
Personal Computer

**Monitor options** : all system specifications on this page include an SVGA 15" monitor, but we can provide any monitor in our range. Obtaining a price for an alternative is easy : simply refer to the monitor listings on Page 28-29 and adjust for the difference in price.

## CHEETAH 450

The Cheetah is our latest top-of-the-range PC, and it maintains our tradition of offering high-performance technology at extremely competitive prices.

- >> INTEL P450 Pentium II processor
- >> INTEL's latest PII 440BX chipset
- >> 512KB Level 2 Cache
- >> 64MB super-fast 100MHz SDRAM
- >> 8.4GB Hard Drive
- >> 32-speed CD-ROM drive
- >> 64-bit sound with stereo speakers
- >> 8MB 2D/3D AGP Matrox G200 graphics
- >> 56Kbps Fax/Modem
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> 15" SVGA monitor

**£1099**

£1291.33 inc.VAT

**NOTE** : Prices are given for systems collected from SMC. For delivery please add £25 + VAT (£29.38)

**SALES FREEPHONES :** South - 0800 597 5 333

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North - 0800 597 7 333

Scotland - 0800 597 8 333

FAX : 01753 524443



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THE BEST YOU'LL GET

5 YEAR WARRANTY \* . . .

# LIFETIME PEACE OF MIND



\* Three-year warranty applies to monitors

## SMC INFINITE systems

At SMC, we have been building PC's for years, and we don't believe anyone can match our unique combination of high performance, flexibility and competitiveness. From the sales process, where trained, friendly and helpful staff can exactly match the specification to your needs and produce a quotation as you speak, to the final build process, we take a genuine pride in our work. Every PC is built on-site by our own staff: we do not sub-contract or "buy in" systems from third parties. Initial assembly is carried out by an individual engineer, fully "burned in" and then quality-checked by another engineer before being passed for shipment. Components used are all major-brand products with full specification and totally compatible and upgradable as technology moves on.

The INFINITE brand has been built strongly over the years on the basis of care and attention to detail, and a deliberate and unbroken rejection of so-called "box-shifter" principles. In this way we have developed a no-compromise approach to quality that will give you a PC you'll be both pleased and proud to own.

What's more, as with everything we do, getting a premium service from SMC doesn't mean you'll find anything added to the price.

## Software Upgrade options

Take advantage of these software upgrade options (available at the time of purchase only) to add even more value to your PC.

**Lotus Smartsuite £19**  
£22.33 inc.VAT

**Microsoft Works £19**  
£22.33 inc.VAT

**Microsoft Home Essentials £75**  
£88.13 inc.VAT

**Microsoft Office SBE £129**  
£151.58 inc.VAT

INFINITE PC SYSTEMS

For SMC's unique guarantee: see page 2

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SMC Computers Plc

253-257 Famham Rd Slough Berkshire SL2 1HA



ALL MAJOR CREDIT CARDS ACCEPTED



# SHOP AT SMC AND MAKE SURE OF A QUALITY CHRISTMAS!



In our new Notebooks section, you will find products laid out in the SMC style : simple and informative so you have all you need to make the choice that suits you best. Thanks to everyone whose purchases are making the introduction of Notebook PCs such a success : proof again that by concentrating on providing the products people want, supported by the highest possible levels of service, we are able to continue our progress at the forefront of the market. And don't forget that we have probably the most technically competent operation you'll find, so should you need an upgrade in the future, our salespeople will be able to provide you with exactly what you want at - of course - exactly the right price.

NOTEBOOK PCs : LG, ASUS, COMPAQ & SONY



## LG HANDHELD PC

Nobody is further ahead in IT than LG. £1.5m is spent every day on R&D and £2.0bn is being invested in a manufacturing plant in Wales, ensuring LG Electronics' position as a leading player in a very exciting digital future.



### Totally portable computing

#### PHENOM (H120S) Handheld PC

- Windows CE 2.0 operating system inc. Pocket Word, Excel, PowerPoint Viewer, Explorer & Schedule
- Extra wide LCD screen & large keyboard
- In built VGA for full colour Powerpoint presentations
- 8MB RAM & 16MB ROM inc. Pre-loaded software
- Type II PCMCIA & compact flash expansion slots

94-26-1200 **£355** (£417.13inc.VAT)



**LG** We put people first

Website <http://www.lge.co.kr>

## COMPAQ ARMADA



As the inventor of the very first portable PC, Compaq has spent more than a decade studying mobile computing needs. With unrivalled business expertise, Compaq have assembled the Armada as a formidable range of eye-catching, state-of-the-art and affordable all-round business solutions.

ex VAT inc VAT

### 1590 Series

- Features : >> 32MB RAM (upgradable to 96MB)  
>> 20-speed CD-ROM

94-09-1592 **1592DT** **£1149** £1350.08  
>> 12.1" TFT display  
>> Intel Pentium P233MMX processor  
>> 3.2GB Hard Drive

94-09-1598 **1598DT** **£1299** £1526.33  
>> 13.3" TFT display  
>> Intel Pentium P266MMX processor  
>> 4.0GB Hard Drive

### 1700 Series

- Features : >> 32MB RAM (upgradable to 96MB)  
>> 4GB Hard Drive  
>> 24-speed CD-ROM

94-09-6233 **6233T-W95** **£1399** £1643.83  
>> 12.1" TFT display  
>> Intel Mobile Pentium II 233MHz processor  
>> Microsoft Windows 95 installed

94-09-6238 **6233T-W98** **£1399** £1643.83  
>> 12.1" TFT display  
>> Intel Mobile Pentium II 233MHz processor  
>> Microsoft Windows 98 installed

94-09-6266 **6266T-W95** **£1699** £1996.33  
>> 13.3" TFT display  
>> Intel Mobile Pentium II 266MHz processor  
>> Microsoft Windows 95 installed

### 7300 Series

- Features : >> 12.1" TFT display  
>> 32MB RAM (upgradable to 128MB)  
>> 4GB Hard Drive and 3.5" FDD  
>> 33.6Kbps Integrated Fax/Modem

94-09-7380 **7380DMT** **£2099** £2466.33  
>> Intel Pentium P266MMX processor

### 7700 Series

- Features : >> 13.3" TFT display  
>> 32MB RAM (upgradable to 144MB)  
>> 5GB Hard Drive and 3.5" FDD  
>> 33.6Kbps integrated Fax/Modem

94-09-7792 **7792DMT** **£2099** £2466.33  
>> Intel Pentium P266MMX processor

### 7800 Series

- Features : >> 13.3" TFT display  
>> Intel Mobile Pentium II 266MHz processor  
>> 64MB RAM (upgradable to 160MB)  
>> 5GB HD and 20-speed CD-ROM

94-09-7895 **7800-W95** **£2299** £2701.33  
>> Windows 95 installed

94-09-7800 **7800-WNT** **£2399** £2818.83  
>> Windows NT installed

## SONY VAIO



The ingenious and stylish design of this ultra-slim (24mm), B5-size Notebook means that full functionality is built in to a form that can be taken anywhere.

Not only does the Notebook weigh just 1.35kg (3lbs), but with external CD-ROM/floppy drives and GSM-ready 4in1 fax/modem PC card, you're ready to work & play wherever you are.

ex VAT inc VAT

### 500 Series

94-71-0505 **VA10-505** **£1889** £2219.58  
>> 10.4" TFT display (800x600)  
>> Intel Pentium P233MMX processor  
>> 32MB RAM (upgradable to 96MB)  
>> 2.1GB Hard Drive  
>> External CD-ROM & floppy drive  
>> 2MB video RAM  
>> 1 year warranty (extra 2 years on registration)

Includes FREE Earphones, port replicator (serial, parallel, VGA, PS/2 Mouse & Keyboard connections) & ships with Windows98.

### 700 Series

Features : >> Intel Pentium P233MMX processor  
>> 32MB SDRAM (upgradable to 128MB)  
>> 2.1GB Hard Drive  
>> 512K cache  
>> Windows 98 installed  
>> Internal bay for either CD-ROM & floppy drive  
>> 2MB video RAM  
>> 1 year warranty (extra 2 years on registration)

94-71-0735 **VA10-735** **£1249** £1467.58  
>> 12.1" HPA display (Max. res. 800x600)

94-71-0737 **VA10-737** **£1499** £1761.33  
>> 12.1" TFT display (Max. res. 1024x768)

### DON'T FORGET :

Kingston matched memory upgrades available

FOR LIFETIME WARRANTY

See page 10

## ASUS NOTEBOOK PCs



ASUS notebook PCs are fitted with 32MB memory, 3.2GB Hard Drive, 20-speed CD-ROM drive and 13.3" TFT display. Windows 95 is installed, and a Carry Case is provided.

ex VAT inc VAT

### Notebook PCs

Pentium processor : with 32MB RAM  
94-99-7233 P233MMX £1469 £1726.08  
Pentium II processor : with 64MB RAM  
94-99-1233 PII 233MHz £1629 £1914.08  
94-99-1266 PII 266MHz £1789 £2102.08

### Upgrade Options

IMPORTANT : these options are available at time of purchase only.

30-99-4001 4.1GB Hard Drive £200 £235.00  
51-99-2001 DVD CD-ROM and MPEG upgrade £200 £235.00  
19-99-0016 Memory upgrade (maximum 144MB) Per 16MB £40 £47.00

## 3COM PALM PILOT

The 3Com Palm Pilot is a small (4.7" high), light (6oz) personal organiser. It stores data such as address details, and appointments and can even be used to send/receive email. Perhaps the most powerful feature is the ability to exchange and update information direct from a PC at the touch of a button, including drag'n'drop into Microsoft Word and Excel. Both models include date book, address book, mail, to do list, memo pad, expense, calculator, games and hotsynch. You'll not find a better personal assistant for such a small outlay.

ex VAT inc VAT

94-90-0100 Palm Pilot Professional  
4000 addresses, 2400 appointments,  
750 to do, 750 memos, 100 email **£159** £186.83

94-90-0200 Palm Pilot III  
6000 addresses, 3000 appointments,  
1500 to do, 1500 memos, 200 email,  
Advanced InfraRed Hotsynch **£219** £257.33

**SALES FREEPHONES : South - 0800 597 5 333**

**Midlands - 0800 597 6 333**

**North - 0800 597 7 333**

**Scotland - 0800 597 8 333**

**FAX : 01753 524443**

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**For Customer Care and Switchboard Hotlines see Page 2**

**THE BEST YOU'LL GET**

## TOSHIBA TECRA 8000 Series

### Longer Life, Lower Cost, ONE SOLUTION

Extending the life of your technology investment and reducing the total cost of ownership has never been easier. The Tecra 8000 Series' new flexible hardware design utilizes a standard platform with a single motherboard, system BIOS and graphics architecture that enable you to customize or expand your system while using the same system software image. This simplifies planning and procurement, and provides for seamless technology transition.

### Configuration Flexibility in a Notebook? . . . A NEW ERA

Being the first to market with unique products is not new to Toshiba. But that doesn't mean we don't get excited about exceptional advances in technology. And the revolutionary Tecra 8000 Series is no exception. It's the industry's first notebook configured to your specifications, and it will change the way businesses think about choosing and managing their portable computers.



	ex VAT	inc VAT
94-75-8953	<b>£1549</b>	£1820.08
>> Intel Pentium II 233MHz processor >> 12.1" STN display >> 32MB SDRAM (256MB upgradable) >> 3.82GB Hard Drive >> 24-speed CD-ROM drive		
94-75-8954	<b>£1885</b>	£2214.88
>> Intel Pentium II 233MHz processor >> 12.1" TFT display >> 32MB SDRAM (256MB upgradable) >> 3.82GB Hard Drive >> 24-speed CD-ROM drive		
94-75-8955	<b>£2399</b>	£2818.83
>> Intel Pentium II 266MHz processor >> 13.3" TFT display >> 64MB SDRAM (256MB upgradable) >> 6GB Hard Drive >> 24-speed CD-ROM drive		
94-75-8956	<b>£2649</b>	£3112.58
>> Intel Pentium II 300MHz processor >> 13.3" TFT display >> 64MB SDRAM (256MB upgradable) >> 6GB Hard Drive >> 24-speed CD-ROM drive		
94-75-8957	<b>£3089</b>	£3629.58
>> Intel Pentium II 300MHz processor >> 14.1" TFT display >> 64MB SDRAM (256MB upgradable) >> 7.63GB Hard Drive >> 2-speed DVD/20-speed CD-ROM drive		

## TOSHIBA PORTEGE

With a footprint smaller than an A4 sheet of paper, the Portege range is specifically designed for ultimate lightweight portability as well as quality, high performance and functionality.

All Porteges include a 3 year warranty.

	ex VAT	inc VAT
94-75-7010 <b>7010CT</b>	<b>£1979</b>	£2325.33
<b>Features :</b> >> 300MHz Intel Pentium II processor >> 32MB SDRAM (160MB upgradable) >> 3.82GB Hard Drive >> 12.1" 800x600 display		

## TOSHIBA WARRANTIES

Extra 2-year international cover is available for Toshiba notebooks as follows :

	ex VAT	inc VAT
94-75-9901 <b>Libretto 70CT, 100CT</b>	<b>£130</b>	£152.75
94-75-9903 <b>Satellite 300CDS, 310CDS, 320CDS, 300CDT, 310CDT, 320CDT, 4000CDS, 4000CDT</b>	<b>£130</b>	£152.75

## TOSHIBA LIBRETTO

Weighing less than two pounds, the Libretto is the world's smallest fully-functional Windows 95 PC. Includes a 1 year warranty.

	ex VAT	inc VAT
94-75-0100 <b>100CT</b>	<b>£1129</b>	£1326.58
<b>Features :</b> >> Intel Pentium P166MMX processor >> 32MB EDO RAM (64MB upgradable) >> 2.02GB Hard Drive and external 3.5" FDD >> 7.1" TFT display with 2MB VRAM PCI graphics		

## TOSHIBA SATELLITE PRO

The Satellite Pro family offers the latest features at attractive prices with full Multimedia capability. High-performance Pentium II processors, MMX technology, high-capacity hard drives and fast CD-ROM drives deliver outstanding speed and performance, and models are available with either TFT or FastScan (HPD) screens.

All Satellite Pros include a 3 year warranty.

	ex VAT	inc VAT
94-75-4807 <b>480CDT</b>	<b>£1629</b>	£1914.08
<b>Features above specifications with :</b> >> 12.1" TFT display		
94-75-4907 <b>490CDT</b>	<b>£1699</b>	£1996.33
<b>Features above specifications with :</b> >> 12.1" TFT display >> Intel Pentium II 233MHz processor >> 20-speed CD-ROM		
94-75-4909 <b>490XCDT</b>	<b>£1899</b>	£2231.33
<b>Features above specifications with :</b> >> 13.3" TFT display >> Intel Pentium II 266MHz processor >> 20-speed CD-ROM		

## TOSHIBA SATELLITE

The Satellite range provides not only value for money without compromising performance, but also versatility in helping you tailor your choice to meet the needs of your applications. All Satellites include a 1 year warranty.

ex VAT inc VAT

4000 Series		
	ex VAT	inc VAT
<b>Features :</b> >> Intel Pentium II P233MHz processor >> 32MB SDRAM (160MB upgradable) >> 3.82GB Hard Drive >> Built-in FDD and 24-speed CD-ROM >> 2MB VRAM >> 304 x 239 x 54mm : weighs 3.18kg		
94-75-8951 <b>4000CDS</b>	<b>£1029</b>	£1209.08
<b>Features above specifications with :</b> >> 12.1" STN display		
94-75-8952 <b>4000CDT</b>	<b>£1289</b>	£1514.58
<b>Features above specifications with :</b> >> 12.1" TFT display		

## TOSHIBA TECRA

From the outstanding features and value for money of the 550CDT to the ground-breaking technology of the 780DVD, the Tecra name stands for performance and epitomises Toshiba's undisputed position as the world leader in portable computing. All Tecra's include a 3 year warranty.

	ex VAT	inc VAT
<b>Features :</b> >> Intel Pentium P266MMX processor >> 32MB EDO RAM (160MB upgradable) >> 3.82GB Hard Drive >> Swappable 3.5" FDD & 20-speed EIDE CD-ROM >> 4MB VRAM PCI video with BitBlock accelerator		
94-75-5500 <b>550CDT</b>	<b>£1889</b>	£2219.58
<b>Features above specifications with :</b> >> 12.1" TFT display >> Intel Pentium P266MMX processor >> Weighs 3.2kg with FDD		
94-75-7800 <b>780DVD</b>	<b>£2399</b>	£2818.83
<b>Features above specifications with :</b> >> 13.3" TFT display >> Intel Pentium II 266MHz processor >> 64MB EDO RAM (192MB upgradable) >> 4.77GB Hard Drive >> 2-speed EIDE DVD/16-speed CD-ROM drive		

NOTEBOOK PCS : TOSHIBA



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The Microsoft range of business applications are highly integrated—you could use Office's Word to write your business proposal for a web site, use Project to plan and enforce deadlines, then publish the site seamlessly with FrontPage. With all three packages working hand in hand, things couldn't be easier.

# SOFTWARE

## BUSINESS APPLICATIONS

	ex VAT	inc VAT
<b>MICROSOFT</b>		
05-50-1210 Money 99	£20	£23.50
05-50-1220 Money 99 Financial Suite	£32	£37.60
05-50-7157 FrontPage 98	£88	£103.40
01-50-3155 Word 97	£222	£260.85
05-50-3117 Office 97	£327	£384.23
05-50-3113 Office V4.2	£325	£381.88
05-50-3177 Office Professional 97	£420	£493.50
05-50-9702 Office Small Business Edition (SBE) 97 - V2	£329	£386.58
05-50-2405 BackOffice Small Business Server 4 +5 users	£899	£1056.33
05-502425 BackOffice Small Business Server 4 + 25 users	£1529	£1796.58
05-50-3235 Excel 97	£222	£260.85
01-50-3197 Access 97	£222	£260.85
01-50-3357 Powerpoint 97	£222	£260.85
01-50-9109 Publisher 98	£67	£78.73
05-50-6198 Project 98	£299	£351.33
05-50-4010 Graphics Studio Greetings 99	£22	£25.85
05-50-4030 Graphics Studio Picture It 99	£33	£38.78
05-50-4050 Graphics Studio Publishing 99	£33	£38.78
05-50-4070 Graphics Studio Publishing Suite 99	£44	£51.70
05-50-0050 Works Deluxe	£42	£49.35
05-50-1091 Proxy Server 1.x	£659	£774.33
05-50-1095 Exchange Server +10 clients licences	£910	£1069.25
05-50-3182 Office 97 Developers edition	£525	£616.88
05-50-3202 Site Server 32 Standard Edition	£995	£1169.13
05-50-6505 SQL Server 6.5 +5 client licences	£945	£1110.38
05-50-9299 Home Essentials 98	£75	£88.13
05-50-0045 Works v4.5	£59	£69.33
<b>Upgrade Packages</b>		
05-50-9707 Office 97 SBE (CCP)	£149	£175.08
05-50-3137 Office Std - Office 97 (CCP)	£149	£175.08
05-50-3157 Office Pro - Office Pro 97 (CCP)	£205	£240.88
01-50-9798 Publisher 97 to 98	£33	£38.78
05-50-6798 Project 98	£115	£135.13
<b>LOTUS</b>		
05-91-0107 Smartsuite 97 for Windows 95	£290	£340.75
05-91-0305 Notes 4.x Full Client	£255	£299.63
05-91-7536 CCMail R8 Advanced	£339	£398.33
05-91-0201 Lotus Smartsuite Millenium Edition	£315	£370.13
<b>COREL</b>		
05-95-9808 Corel Draw 8	£255	£299.63
05-95-9818 Corel Draw 8 Upgrade	£135	£158.63
05-95-6061 Wordperfect Suite 6.1 for Windows 3.1x	£149	£175.08
<b>ADOBE</b>		
05-93-0003 Acrobat 3	£125	£146.88
05-93-1005 Photoshop 5	£399	£468.83
05-93-2007 Illustrator 7	£245	£287.88
<b>OTHERS</b>		
05-91-1700 Olympus Photoalbum	£15	£17.63
05-90-0097 AutoCAD LT 97	£419	£492.33
05-90-0197 AutoCAD LT 97 Upgrade	£167	£196.23

### Microsoft Office

Microsoft Office is now probably the standard package for business today. Applications within the package have been updated and completely revised, and integration with Microsoft Explorer Web Browser adds another dimension to your productivity. If you currently use any version of MS Word, MS Excel, MS Access, MS Powerpoint or MS Works then you are able to purchase an Upgrade version, and get full functionality for an even lower price.

05-50-3117 **£327** £384.23 inc.VAT



### Microsoft FrontPage 98

Easy-to-use, leading-edge features allow you to create great-looking Web sites without programming. Comprehensive management tools let you quickly build, organise and maintain Web sites. Seamless integration with existing content and your desktop applications means that you're productive from the start.

05-50-7157 **£89** £104.58 inc.VAT



### Microsoft Project 98

Control your projects with confidence! With a flexible, new scheduling engine, you can not only plan and track your projects, but you can identify and respond to conflicts before they happen. Presentation features include intranet/internet publishing ability and communication with team members via E-mail or the Web. Full compatibility with MS Office, as well as other databases and systems, mean you'll be up and running, and sharing data, in no time at all.

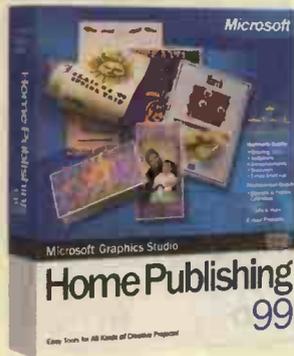
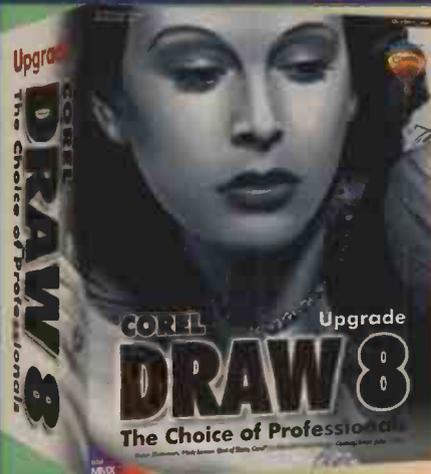
05-50-6198 **£299** £351.33 inc.VAT



### CorelDRAW 8

Since 1989, CorelDRAW has dominated the PC illustration market, receiving over 270 international awards for its innovative technology. With version 8, you now have even more to work with, including Photo-paint for photo editing and bitmap creation, and CorelDREAM 3D for 3D modelling and rendering. With a host of new features added to the main package, as well as powerful supporting utilities (including Web tools), you'll get the creative freedom to attain the highest standards of professionalism.

CorelDraw 8  
05-95-9808 **£255** £299.63 inc.VAT  
CorelDraw 8 Upgrade  
05-95-9818 **£139** £158.63 inc.VAT



### Microsoft Home Publishing 99

05-50-4050 **£29** £34.08 inc.VAT

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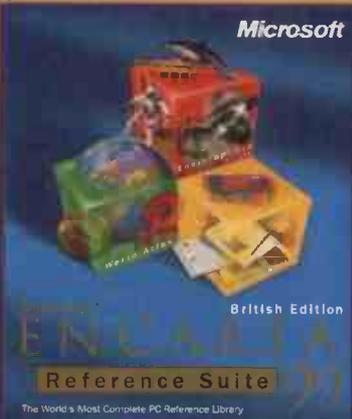
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**EDUTAINMENT**

	ex VAT	inc VAT
<b>MICROSOFT MULTIMEDIA EDUCATIONAL</b>		
05-50-5213 Composer Collection	£32	£37.60
05-50-7103 Musical Instruments	£19	£22.33
05-95-7151 Oceans	£19	£22.33
05-50-0112 Encarta Reference Suite 99 - UK	£75	£88.13
05-50-0111 Encarta 99 Deluxe UK	£54	£63.45
05-50-0110 Encarta 99 UK	£32	£37.60
05-50-0118 Encarta World Atlas 99 - UK	£32	£37.60
05-50-5445 Magic School Bus - Rainforest	£23	£27.03
05-50-5450 Magic School Bus - Dinosaurs	£23	£27.03
05-50-5455 Magic School Bus - Inside Earth	£23	£27.03
05-50-5460 Magic School Bus - Human Body	£23	£27.03
05-50-5465 Magic School Bus - Oceans	£23	£27.03
05-50-5430 Personal Tutor - Year 2-4	£22	£25.85
05-50-5435 Personal Tutor - Year 1-2	£22	£25.85
05-50-5440 Personal Tutor - Preschool	£22	£25.85
05-50-5425 Creative Writer 2	£32	£37.60

	ex VAT	inc VAT
<b>MULTIMEDIA GENERAL</b>		
05-50-0122 Autoroute Express GB 98- Windows 95	£39	£45.83
05-50-0121 Autoroute Express Europe 98-Win 95	£19	£22.33
05-95-7047 Cinemania 97	£19	£22.33
05-50-7151 Wine Guide	£19	£22.33

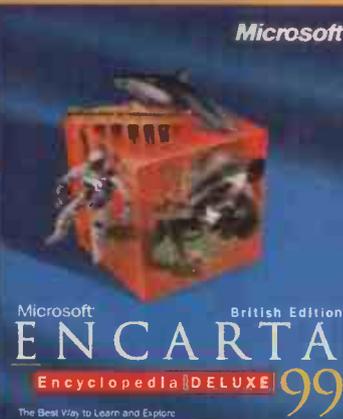
	ex VAT	inc VAT
<b>OTHERS</b>		
05-50-5153 Animals of Sandiago Zoo	£12	£14.10
05-50-5133 Arthur's Teacher Trouble	£16	£18.80
05-50-5410 Playskool Fun Pack	£16	£18.80
05-50-5415 Mr Potato Head Activity	£16	£18.80
05-50-5420 A.D.A.M - Inside Story	£25	£29.38



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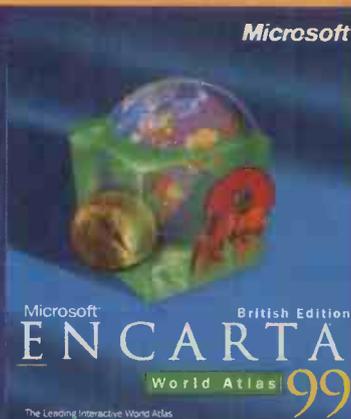
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**PROGRAMMING LANGUAGES**

	ex VAT	inc VAT
<b>MICROSOFT</b>		
05-50-3313 Visual FoxPro Std V3	£121	£142.18
05-50-9520 Visual Basic V6	£61	£71.68
05-50-9510 Visual Basic Pro V6	£329	£386.58
05-50-9530 Visual Basic V6 Enterprise Edition	£780	£916.50
05-50-9011 Visual J++ V1.1	£62	£72.85
05-50-9017 Visual C++ V5	£65	£76.38
05-50-9119 Visual C++ V5 Enterprise Edition	£749	£880.08
05-50-9049 Visual Interdev V1	£329	£386.58
05-50-9020 Visual C++ V6	£65	£76.38
05-50-9025 Visual C++ V6 Pro	£339	£398.33
05-50-9120 Visual C++ V6 Enterprise Edition	£795	£934.13

	ex VAT	inc VAT
<b>BORLAND</b>		
05-94-0328 C++ Builder 3 Professional	£73	£85.78
05-94-0329 C++ Builder 3 Professional Upgrade	£325	£381.88
05-94-0330 C++ Builder V3 Professional Upgrade	£219	£257.33
05-94-0474 JBuilder Standard	£73	£85.78
05-94-0491 JBuilder Professional	£369	£433.58

	ex VAT	inc VAT
<b>05-94-0537 Delphi V3 Professional</b>		
	£325	£381.88
<b>05-94-0593 Delphi V3 Professional Upgrade</b>		
	£219	£257.33
<b>05-94-0540 Delphi V4 Professional</b>		
	£399	£468.83
<b>05-94-0595 Delphi V4 Professional Upgrade</b>		
	£225	£264.38
<b>05-94-0698 Visual dBase V7 Professional</b>		
	£235	£276.13
<b>05-94-0698 Visual dBase V7 Professional Upgrade</b>		
	£235	£276.13

**Microsoft AutoRoute Express EUROPE 98**  
The Complete, Easy-to-Use Travel Planner

**AutoRoute Express**  
Auto-Route Express features some of the best maps you'll ever see! Plan your next trip the easy way with the AutoRoute Express Route Wizard. Get a custom itinerary for the stopovers, schedule, driving speeds and road preferences you choose. Whet your travel appetite with articles and pictures in the AutoRoute Express Travel Guide. Choose from the Great Britain or Europe editions - and enjoy the experience of removing the hassle from your travel.

**BACKUP SOFTWARE**

	ex VAT	inc VAT
<b>CHEYENNE</b>		
Arcserve 6 for Netware Server based, supports DOS, OS/2, Windows 3.x and Windows 95 workstations (optional support packs for UNIX, Macintosh and Windows NT Servers and Workstations), improved support for NetWare 4.1, with an Improved Windows 95 style user interface.		
01-90-6011 Single Workgroup	£319	£374.83
01-90-6015 Enterprise Edition for multiple servers	£649	£762.58

	ex VAT	inc VAT
<b>Arcserve 6.5 for Windows NT</b>		
Supports Windows NT, '95 and 3.x clients (optional agents available for NetWare, UNIX, OS/2 and Macintosh). Windows NT 4.0 compatible. with a built in Virus Scanner.		
01-90-6533 Workstation edition not Win95 client	£75	£88.13
01-90-6531 Single Server edition	£269	£316.08
01-90-6535 Enterprise edition for multiple servers	£494	£580.45

	ex VAT	inc VAT
<b>SEAGATE SOFTWARE</b>		
01-13-0351 Windows 95 single user, includes Job Scheduling, Netware aware, will back up any workstation or network		
	£74	£86.95
01-13-0331 Windows NT 4.0 Single Server edition		
	£370	£434.75
01-13-0500 Windows NT 4.0 Workstation edition, includes Job Scheduling, true 32-bit backup to a host of devices		
	£135	£158.63

**SOFTWARE**



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SMC Computers Plc

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ALL MAJOR CREDIT CARDS ACCEPTED



# SHOP AT SMC AND MAKE SURE OF A QUALITY CHRISTMAS!

With today's software putting more and more strain on your machine's performance and the increased risk of virus infection from the internet, it's advisable to use some form of utility suite such as the new McAfee Office product—giving virus and crash protection, system optimization and mail encryption, it should answer all your needs.

## SOFTWARE

### UTILITIES

	ex VAT	inc VAT
<b>MICROSOFT</b> 05-50-9809 Windows 98 Plus pack	£27	£31.73
<b>ONTRACK</b> Software supplied on floppy disk. OEM versions supplied with Hard Drive only		
01-93-8642 Disk Manager OEM	£15	£17.63
01-93-8644 Disk Manager Retail	£35	£41.13
01-93-8402 Drive Rocket OEM	£12	£14.10
01-93-8404 Drive Rocket Retail	£17	£19.98
<b>POWERQUEST</b>		
01-94-0002 Partition Magic	£39	£45.83
01-94-0030 Drive Image for backup/recovery	£39	£45.83
01-94-0035 Drive Image Pro Drive Data cloning	£449	£527.58
<b>NORTON</b>		
01-95-0103 Utilities V8	£88	£103.40
05-95-9503 Utilities - WIN 95 V3	£55	£64.63
05-95-9055 Uninstall Deluxe	£26	£30.55
05-95-9057 CrashGuard Deluxe	£29	£34.08
05-95-9065 PC Anywhere 8	£92	£108.10
05-95-9510 ACT V4	£139	£163.33
05-95-9515 Visual Cafe for Java	£68	£79.90
05-95-9520 System Works	£69	£81.08
05-95-9525 Your Eyes Only	£55	£64.63
05-95-9530 WinFax Pro	£69	£81.08
<b>QUARTERDECK</b>		
05-95-0202 Partition-It Ex.Strength	£38	£44.65
05-95-0213 Real Help Ex.Strength	£29	£34.08
05-95-0221 VirusSweep	£24	£28.20
05-95-0219 Cleansweep Deluxe	£33	£38.78
<b>McAfee</b>		
05-97-0123 PC Medic International	£24	£28.20
05-97-0109 PC Medic Int. Deluxe	£29	£34.08
05-97-0102 Nuts & Bolts	£28	£32.90
05-97-0105 Nuts & Bolts Deluxe	£36	£42.30
05-97-0320 Hurricane 98	£21	£24.68
05-97-0107 Safe & Sound Internat.	£16	£18.80
05-97-0550 PGP Personal Edition -2 user license	£21	£24.68

<b>IBM</b>		
DICTATION SOFTWARE		
05-91-0410 VIAVOICE Home Edition	£38	£44.65
05-91-0420 VIAVOICE Executive Edition	£89	£104.58

<b>DRAGON</b>		
DICTATION SOFTWARE		
05-95-0320 DRAGON DICTATE Lite	£29	£34.08
05-95-0310 DRAGON DICTATE Point & Speak	£38	£44.65

We can also provide a range of McAfee Multi-node user licence products from 5-node through to 250-node.

Multi-node products offered include:-  
Total Virus Defense, VirusScan Security Suite, Internet Security Suite, VirusScan, WebScanX, Nuts&Bolts, PGP Desktop and Server Suite along with PGP Total Network Security Suite.

Prices and node levels vary - please call with your requirements.



### PowerQuest Partition Magic



Run Windows 98 and Windows 95 on the same PC!  
Partition Magic 3.0 makes it easy to run multiple operating systems on the same machine without compatibility problems. Using IBM's Boot Manager, it is possible to select an operating system on startup.  
So you can explore the possibilities of, say, Windows NT while using your existing operating system for your main applications.  
Create a separate partition for data files you wish to protect from unauthorised use, corruption by unstable packages, or to simplify data backup.  
Save disk space too: up to 40% of hard drive space can be wasted, and Partition Magic 3.0 restructures partitions and cluster sizes so you get the most from your disk.

01-94-0002 **£39** £45.83 inc.VAT



### PowerQuest Drive Image



Drive Image is an easy to use, fast, and comprehensive solution for fast backup, upgrades and even system recovery.  
Create a complete backup of your hard drive in minutes, on to removable media such as Zip, Jaz or Syquest. Restore via a simple click of the mouse.  
Drive Image also checks for disk integrity and looks for bad sectors to prevent data loss. With Drive Image Professional, you can extend this functionality to multiple workstations, vastly simplifying and reducing the cost of network management.

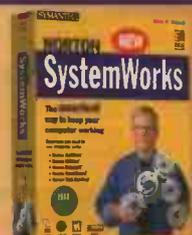
**PowerQuest Drive Image** **PowerQuest Drive Image Pro**  
01-94-0030 **£39** £45.83 Inc.VAT 01-94-0035 **£499** £586.33 inc.VAT

### SYMANTEC. Norton System Works

Your one-stop computer saver offering virus protection, crash protection, full software uninstallation and it even updates itself via the internet.

Contains Norton: Anti-Virus, Utilities, Uninstall, CrashGuard and Web Services.

05-95-9520 **£69** £81.07 inc.VAT



### SYMANTEC. Norton Crashguard Deluxe

Prevents application or system crashes and will diagnose and fix system problems.

05-95-9057 **£29** £34.08 inc.VAT



### McAfee - Network Associates

**ALL THE SURVIVAL GEAR YOU'LL EVER NEED!**

With headquarters in Santa Clara, California, Network Associates, Inc., formed by the merger of McAfee Associates and Network General, is a leading supplier of network security and management solutions.  
SMC can provide a comprehensive suite of products which improve efficiency and performance, making you, the user more productive than ever before, and lowering overall IT and network total cost of ownership.



### NUTS&BOLTS

#### Nuts&Bolts

'Deluxe'

05-97-0105

**£28**

£42.30 inc.VAT

#### NUTS&BOLTS DELUXE

Nuts&Bolts - Fixes, tunes, cleans and speeds up your PC. It also helps recover deleted files and Windows crashes. The Deluxe version includes:-  
VirusScan - 100% virus detection  
WebScanX - Protection against malicious websites  
Hurricane - 13 accelerating and diagnostic utilities  
Year2000 fix - Checks and corrects PC for Y2000

### OFFICE



#### McAfee Office

05-97-0340

**£39**

£64.63 inc.VAT

#### MCAFFEE OFFICE

McAfee Office provides all the tools you'll ever need to secure, defend, repair and improve your PC, including VirusScan, Nuts & Bolts, Uninstaller, GuardDog, First Aid and more.

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**Midlands - 0800 597 6 333**

**North - 0800 597 7 333**

**Scotland - 0800 597 8 333**

**FAX : 01753 524443**

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**THE BEST YOU'LL GET**

**ANTI-VIRUS**

exVAT incVAT

**Dr. SOLOMON'S**

**Anti-Virus Toolkit**

01-93-0114	1 Year cover, 4 updates	£72	£84.60
01-93-1112	1 Year cover, 12 updates	£129	£151.58
01-93-1304	3 Year cover 4 updates p.a.	£141	£165.68

Anti-Virus Toolkit is designed for single user computers running any of the following:- DOS/Windows 3.1x, 95, NT and OS/2. License packs and server versions for Novell Netware/Windows NT Server are also available.

**NORTON**

**Anti-Virus**

01-95-9103	For Windows 3.1x	£65	£76.38
05-95-9535	V5 for Win 95/98	£35	£41.13

**MCAFFEE**

**Virus Scan V3**

05-97-0305	Electronic updates	£23	£27.03
05-97-0307	Quarterly updates	£28	£32.90
05-97-0323	Deluxe + Quart up.	£31	£36.43
05-97-0326	Security Suite	£45	£52.88
05-97-0309	VS + WebScan X	£23	£27.03
05-97-0327	WebScanX standalone	£18	£21.15

**OPERATING SYSTEMS**

exVAT incVAT

**MICROSOFT**

**Full Versions**

05-50-9800	Windows 98 (Requires DOS)	£112	£131.60
05-50-9807	Windows 98 OEM *	£99	£116.33
05-50-1013	Windows NT 4.0 Workstation	£219	£257.33
05-50-1017	Windows NT 4.0 Server + 5 clients	£542	£636.85
05-50-1018	Windows NT 4.0 Client license	£29	£34.08
05-50-2435	Back Office Server	£1550	£1821.25

**Upgrades**

05-50-9598	Windows 3.1/95 to 98	£59	£69.33
05-50-1015	Windows NT V3.51 to V4 Upgrade	£105	£123.38
05-50-9309	Windows NT Server + 5 clients V3.51 TO V4.x	£279	£327.83

\* 05-50-9807 (Win98 OEM) must be purchased with a new Hard Drive : it does not include Microsoft Support, however it can be updated via the Windows 98 Update on the Web.

**Microsoft Windows 98**



Microsoft Windows 98 makes your computer work better by integrating tightly with the Internet and providing better system performance and easier diagnostics and maintenance. With Windows 98, your system will also play better, with support for the latest graphics, sound and Multimedia technologies, easy addition and removal of peripheral devices, and the convergence of PC and TV in your home.

This exciting new operating system builds on the groundbreaking features introduced with Windows 95, while at the same time maintaining the best support for older Windows-based applications and technologies.

**Microsoft Windows NT 4 Workstation**



Enhance productivity and reduce computing with Windows NT Workstation, the most powerful desktop operating system for business computing.

A range of powerful new features makes Windows NT Workstation the best value of any operating system on the market, combining the ease of use of Windows 95 with the reliability and security of Windows NT.

**VIRUSSCAN**



**VirusScan**

'v3 EU'

05-97-0305

£23

£27.03

inc. VAT

**VIRUSSCAN**

"On demand" scanning program that is used by over 25 million users worldwide. VirusScan also features an "on access" scanner call Vshield that is constantly on guard, watching all your system resources to deny virus attacks. Available with quarterly updates by mail OR as an electronic update (EU) via the Internet.



**WebScan**

'X'

05-97-0327

£18

£21.15

inc. VAT

**WEBSCANX**

WebScanX stops a new type of threat to your PC; destructive ActiveX and Java applications. It also offers the best detection of Word and Excel Macro viruses.

WebScanX also allows you to block offensive, dangerous or time wasting websites to ensure that your surfing is safe and productive.

**WEBSCANX**

**GAMES**

exVAT incVAT

**For Windows 95**

**MICROSOFT**

05-50-0175	Chaos Island	£19	£22.33
05-50-0131	Age of Empires	£18	£21.15
05-50-0129	Close Combat 2	£25	£29.38
05-50-0133	CART Precision Racing	£18	£21.15
05-50-0160	Urban Assault	£25	£29.38
05-50-0170	Revenge of Arcade	£15	£17.63
05-50-0180	Motocross Madness	£23	£27.03
05-50-0137	Flight Simulator 98 & World of Flight	£33	£38.78
05-50-0190	Pinball Arcade	£15	£17.63
05-50-0130	Rise of Rome - Age of Empires expansion	£17	£19.98
05-50-0140	Combat Flight Sim	£28	£32.90

**VARIOUS**

05-95-1103	Premier Manager 98	£15	£17.63
05-95-1102	HardWar	£27	£31.73
05-95-1101	WarLords 3	£28	£32.90
05-95-1104	Commandos - B.E.L.	£28	£32.90
05-95-1105	UNREAL	£29	£34.08
05-95-1106	Ground Zero for Quake II	£17	£19.98
05-95-1107	Creatures 2	£27	£31.73

**NEW RELEASES**

Future releases for November.

Please note: shipping dates start from 16.11.98.

05-95-1108	Dune 2000	EPOA	EPOA
05-95-1109	Moto Racer 2	EPOA	EPOA
05-95-1110	Barrage	EPOA	EPOA
05-95-1111	Rainbow 6	EPOA	EPOA
05-95-1112	O.D.T	EPOA	EPOA
05-95-1113	Settlers 3	EPOA	EPOA
05-95-1114	Gangsters: Organised Crime	EPOA	EPOA
05-95-1115	Newman Haas Racing	EPOA	EPOA
05-95-1116	Grim Fandango	EPOA	EPOA
05-95-1117	Railroad Tycoon II	EPOA	EPOA
05-95-1118	SIN	EPOA	EPOA
05-95-1119	Links 99	EPOA	EPOA
05-95-1120	Thief: Dark Project	EPOA	EPOA
05-95-1121	Tomb Raider 3	EPOA	EPOA
05-95-1122	Heavy gear 2	EPOA	EPOA
05-95-1123	Heretic 2	EPOA	EPOA



**Microsoft Age of Empires**



**CHOOSE YOUR FAVOURITE FORM OF WORLD DOMINATION**

An Epic Game of Empire-Building and Conquest. How will you rule the world? Conquer enemy civilisations? Discover the world's secrets? Accumulate wealth? As the guiding spirit of a small Stone Age tribe, follow one of these paths to build the greatest civilisations on earth.

**Microsoft Flight Simulator 98 & World of Flight Bundle**

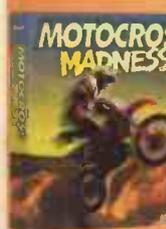


**FREE REAL FLIGHT**

Test the world's most accurate flight models for the PC. The leader in flight simulation for the PC pushes technology and realism beyond the horizon. With a global database of scenery and airports, pilot-tested flight models, and a fleet of challenging aircraft, Flight Simulator 98 is simply as real as it gets.

World of Flight is now Included FREE for a limited time, ensure that you benefit from extra video, animation, photos, historical recordings, narration's, and games. Includes fascinating details about nearly 400 aircraft.

**Microsoft Motocross Madness**



**EVIL DIRTBIKE RACING**

Stunts and Racing on Two Supercharged, Dirt-diggin' Wheels! Be the first rider out of the gate for high-flying, wheelie-riding, off-road motorbike action on indoor Supercross tracks and outdoor Motocross tracks.

Photographically-sampled textures combined with stunning 3D graphics help to make this game a sheer delight to play, again and again. Fun is the main aim of the game. Whether bikes are your thing or not -

this game will drive to the brink of Madness!

**SOFTWARE**

For SMC's unique guarantee : see page 2

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SMC Computers Plc**

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**ALL MAJOR CREDIT CARDS ACCEPTED**

IF ALL MEMORY IS THE SAME, WHY DO SOME BRANDS FAIL MORE OFTEN THAN OTHERS?

With Kingston memory, you know it's going to work. You also know that it'll stay working, year after year.

That's why you get both a 100% guarantee of compatibility and a lifetime warranty against failure.

And because Kingston have been giving the same backup for years, they have built their position as the undisputed leader in the manufacture of quality-assured memory upgrades.

This all fits in well with SMC's strategy, and in providing the same dedication to service and quality, we're pleased to be not only a very close partner with Kingston Technology, but also one of the biggest sellers of their product in the UK.

KINGSTON MEMORY

**Kingston**  
TECHNOLOGY

MANUFACTURES MEMORY FOR NEARLY EVERY PC,  
NOTEBOOK, SERVER AND PRINTER IN USE TODAY.



**KINGSTON MATCHED MEMORY**

Part No	ex VAT	inc VAT	Part No	ex VAT	inc VAT
<b>Intel</b>			<b>Digital</b>		
440LX Motherboards Non-ECC			Digital Hinate VP 520, 525, 535		
32MB KTM66X64/32	£42	£49.35	16MB KTV-VP500/16	£39	£45.83
64MB KTM66X64/64	£112	£131.60	32MB KTV-VP500/32	£68	£79.90
128MB KTM66X64/128	£214	£251.45			
440LX Motherboards ECC			<b>Hewlett Packard</b>		
32MB KTM66X72/32	£52	£61.10	Pavilion 7270, 7275, 7280P, 7285, 7295V		
64MB KTM66X72/64	£123	£144.53	16MB KTH-VL4/16	£33	£38.78
128MB KTM66X72/128	£239	£280.83	32MB KTH-VL4/32	£50	£58.75
<b>Compaq</b>			64MB KTH-VL4/64	£99	£116.33
DeskPro 2000, 4000, 6000 series			Laserjet 4000s and 5000s		
16MB KTC2430/16	£33	£38.78	16MB KTH-LJ4000/16	£28	£32.90
32MB KTC2430/32	£50	£58.75	16MB KTH-LJ4000E/16	£36	£42.30
64MB KTC2430/64	£99	£116.33	32MB KTH-LJ4000/32	£59	£69.33
Armada 7000 series D/MT, 1500 series D/M/T, 1130/T			<b>IBM</b>		
16MB KTC2721/16	£34	£39.95	Thinkpad 760 series, ELDs, 560s, 360s, 380s		
32MB KTC2721/32	£61	£71.68	16MB KTM760ELD/16	£28	£32.90
64MB KTC2721/64	£117	£137.48	32MB KTM760ELD/32	£62	£72.85
Deskpro 2000, 4000, 6000 MMX Series			<b>Thinkpad 770</b>		
16MB KTC2428/16	£25	£29.38	16MB KTM-TP770/16	£28	£32.90
32MB KTC2428/32	£46	£54.05	32MB KTM-TP770/32	£58	£68.15
64MB KTC2428/64	£87	£102.23	64MB KTM-TP770/64	£99	£116.33
128MB KTC2428/128	£167	£196.23	<b>Apvta 2137 E series</b>		
Deskpro EN, EP SDRAM 100MHz (non ECC)			16MB KTM2137/16	£28	£32.90
32MB KTC6611/32	£56	£65.80	32MB KTM2137/32	£48	£56.40
64MB KTC6611/64	£98	£115.15	64MB KTM2137/64	£112	£131.60
128MB KTC6611/128	£180	£211.50	<b>Apvta L, C &amp; S series 2136 E series</b>		
Deskpro EN, EP SDRAM 100MHz			16MB KTM7318/16	£33	£38.78
32MB KTC6615/32	£61	£71.68	32MB KTM7318/32	£50	£58.75
64MB KTC6615/64	£109	£128.08	64MB KTM7318/64	£99	£116.33
128MB KTC6615/128	£205	£240.88	<b>PC300GL (6561, 6591), Apvta 2142, 2140</b>		
Proliant 1600 Server			32MB KTM0069/32	£48	£56.40
32MB KTC3614/64	£133	£156.28	64MB KTM0069/64	£112	£131.60
64MB KTC3614/128	£245	£287.88	128MB KTM0069/128	£209	£245.58
<b>Dell</b>			<b>PC300PL (6562, 6592)</b>		
Performance 425L/M, 433L/M, 4333s L/M, 450 L/M, 466L/M			32MB KTM0076/32	£64	£75.20
Latitude 433 M/MC, 450 MC/MCX, 475 M/C/D, LX4100 D/T			64MB KTM0076/64	£112	£131.60
Omniplex 433, 450, 466, 4100 ME			128MB KTM0076/128	£214	£251.45
4MB KTD-LMT/4	£11	£12.93	<b>Netfinity 3000 SDRAM 100MHz</b>		
8MB KTD-LMT/8	£18	£21.15	32MB KTM1133/32	£58	£68.15
16MB KTD-LMT/16	£23	£27.03	64MB KTM1133/64	£115	£135.13
Dimension XPS P100c, P100C, P120C, P133C, XPS PRO 150n, 180n			128MB KTM1133/128	£221	£259.68
Dimension XPS P60, P75, P90			<b>PC300PL (Pentium II) SDRAM 100MHz</b>		
Optiplex XLX/M/XMT 575, 590, 5100, 5120, 5133			32MB KTM1136/32	£53	£62.28
Optiplex GLX/GM/GMT 575, 590, 5100, 5120, 5133, 5166			64MB KTM1136/64	£103	£121.03
Optiplex GXL/GXM/GXMT 590, 5100, 5120, 5133, 5150, 5166			128MB KTM1136/128	£199	£233.83
Optiplex GsL/GsM/GsMT 5133, 5166, 5200			<b>Toshiba</b>		
16MB KTD-NPOP/16	£33	£38.78	Tecra 750s, Portege 650, 660s		
32MB KTD-NPOP/32	£43	£50.53	32MB KTT650/32i	£56	£65.80
64MB KTD-NPOP/64	£78	£91.65	64MB KTT650/64i	£100	£117.50
Dimension P133v, P166v, P200v			128MB KTT650/128i	£249	£292.58
Dimension XPS P133s, P166s, M166s, M200s			<b>Portege 610 CT, Satellite 110CS/CT, 115CS, 200CDS, 205CDS</b>		
8MB KTD-SDRAM/8	£46	£54.05	Satellite Pro 420/425/430 CDS/CDT		
16MB KTD-SDRAM/16	£31	£36.43	8MB KTT610/8i	£25	£29.38
32MB KTD-SDRAM/32	£50	£58.75	16MB KTT610/16i	£37	£44.48
<b>Optiplex GXPRO series</b>			32MB KTT610/32i	£61	£83.43
16MB KTD-GXPRO/16	£39	£45.83	<b>Tecra 500 &amp; 510 CDS/CDT</b>		
32MB KTD-GXPRO/32	£65	£76.38	Satellite Pro 440, 445, 460, 470, 480 CDX/CDT		
64MB KTD-GXI/64	£133	£156.28	32MB KTT500/32i	£65	£76.38
128MB KTD-GXPRO/128	£214	£251.45	48MB KTT500/48i	£90	£105.75
<b>Optiplex GX series (non-parity)</b>			128MB KTT500/128i	£195	£229.13
32MB KTD-GXAN/32	£53	£62.28	<b>Tecra 8000, Portege 7000, Satellite 4000, 4005</b>		
<b>Optiplex GX series (ECC)</b>			32MB KTT8000/32i	£49	£57.58
32MB KTD-GXA/32	£53	£62.28	64MB KTT8000/64i	£93	£109.28
64MB KTD-GXA/64	£108	£126.90			
128MB KTD-GXA/128	£209	£245.58			
<b>Optiplex GX1 L/M/MT (non-ECC)</b>					
32MB KTD-OPGX1/32	£50	£58.75			
<b>Optiplex GX1 L/M/MT SDRAM 100MHz</b>					
32MB KTD-OPGX1/32	£56	£65.80			
64MB KTD-OPGX1/64	£108	£126.90			
128MB KTD-OPGX1/128	£209	£245.58			

**KINGSTON GENERIC MEMORY**

**72 Pin SIMMs**

60ns : available in Tin (T) or Gold (G)

**Non-Parity (32-bit)**

4MB	KTM1x32L-60T	£11	£12.93
8MB	KTM2x32L-60T	£18	£21.15
16MB	KTM4x32L-60T	£23	£27.03
32MB	KTM8x32L-60T	£40	£47.00
64MB	KTM16x32L-60T	£139	£163.33

**Parity (36-bit)**

4MB	KTM1x36L-60T	£14	£16.45
8MB	KTM2x36L-60T	£24	£28.20
16MB	KTM4x36L-60T	£28	£32.90
32MB	KTM8x36L-60T	£53	£62.28
64MB	KTM16x36L-60T	£155	£182.13

**EDO Non-Parity (32-bit)**

4MB	KTM1x32L-60ET	£11	£12.93
8MB	KTM2x32L-60ET	£18	£21.15
16MB	KTM4x32L-60ET	£23	£27.03
32MB	KTM8x32L-60ET	£40	£47.00

**EDO Parity (36-bit)**

4MB	KTM1x36L-60ET	£14	£16.45
8MB	KTM2x36L-60ET	£24	£28.20
16MB	KTM4x36L-60ET	£28	£32.90
32MB	KTM8x36L-60ET	£53	£62.28

**168 Pin DIMMs**

**SDRAM Non-Parity**

64MB	KTM66x64/64	£112	£131.60
64MB	KTM100x64C2/64	£100	£117.50
128MB	KTM66x64/128	£214	£251.45

**SDRAM Parity**

16MB	KTM66x72/16	£31	£36.43
64MB	KTM66x72/64	£123	£144.53
64MB	KTM100x72C2/64	£137	£160.98
128MB	KTM66x72/128	£239	£280.83

**Digital Camera & Adaptor**

4MB	CF/4ADP	£43	£50.53
8MB	CF/8ADP	£52	£61.10
16MB	CF/16ADP	£73	£85.78
24MB	CF/24ADP	£93	£109.28
32MB	CF/32ADP	£112	£131.60

Upgrading memory is the single most cost effective way of increasing system performance.

**But Not All Memory Is Created Equal.**

Knowing what questions to ask about memory will save you time and money.

- >>> **Warranties - what do they mean?**  
Insist on a lifetime warranty from an established manufacturer.
- >>> **What about support?**  
Make sure your memory comes from a manufacturer that offers free, expert technical support.
- >>> **What are the testing procedures?**  
Choose memory from a manufacturer who tests every single module 100% of the time.
- >>> **Is compatibility absolute?**  
Modules must be specifically designed for the exact systems they will be used in.
- >>> **Where do the components come from?**  
Only accept chips purchased directly from manufacturers such as IBM, Samsung and Toshiba.

Kingston Technology is the world's leading supplier of computer memory. All Kingston memory is guaranteed for 100% compatibility and reliability and carries lifetime warranty.

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**SDRAM DIMMs - 168 PIN**

ex VAT inc VAT



168pin DIMMs sold by SMC use synchronous SDRAM, operating at 3.3volts and running at 66MHz.

They are non-parity, un-buffered and also feature an SPD chip allowing them to be compatible with all machines requiring standard SDRAM.

Compatible motherboards & chipsets include:- Intel VX/TX/LX/BX.

**66MHz**

19-95-0821	8MB (1 x 64)	£29	£34.08
19-95-1622	16MB (2 x 64)	£15	£17.63
19-95-3224	32MB (4 x 64)	£25	£29.38
19-95-6468	64MB (8 x 64)	£55	£64.63
19-95-1280	128MB (16 x 64)	£109	£128.08
19-95-2560	256MB (32 x 64)	£492	£578.10

**100MHz - PC100**

100MHz SDRAM modules require an Intel BX chipset.

19-95-3201	32MB (4 x 64)	£28	£32.90
19-95-6401	64MB (8 x 64)	£57	£66.98
19-95-1281	128MB (16 x 64)	£112	£131.60

**SIMMs - 72 PIN**

ex VAT inc VAT



**EDO**

Non-Parity EDO Memory offers faster performance, but requires motherboard support: please check your motherboard manual to confirm that it supports EDO memory and any size limitations. 486-based computers that support EDO can take single modules, but Pentium computers require EDO to be installed in pairs.

**EDO SIMMs are non-parity (32-bit) and run at 60ns.**

13-97-0400	4Mb (1 x 32)	£6	£7.05
13-97-0801	8Mb (2 x 32)	£8	£9.40
13-97-1601	16Mb (4 x 32)	£13	£15.28
13-97-3201	32Mb (8 x 32)	£24	£28.20
13-97-6401	64Mb (16 x 32)	£69	£81.08
13-97-1281	128Mb (32 x 32)	£165	£193.88

**Fast Page Mode (FPM)**

FPM SIMMs can be installed singly in 486-based PCs that support them, but Pentium-based PCs require SIMMs to be installed in pairs. With 70ns modules in increasingly short supply, we strongly advise the purchase of 60ns.

Always check your manual for compatibility and motherboard support.

**Non-Parity (32-bit)**

13-97-0406	4Mb (1 x 32) 60ns	£6	£7.05
13-97-0407	4Mb (1 x 32) 70ns	£9	£10.58
13-97-0806	8Mb (2 x 32) 60ns	£9	£10.58
13-97-0807	8Mb (2 x 32) 70ns	£12	£14.10
13-97-1606	16Mb (4 x 32) 60ns	£14	£16.45
13-97-1607	16Mb (4 x 32) 70ns	£25	£29.38
13-97-3206	32Mb (8 x 32) 60ns	£24	£28.20
13-97-3207	32Mb (8 x 32) 70ns	£35	£41.13

**Full Parity (36-bit)**

13-97-0117	1Mb (256k x 36) 70ns	£24	£28.20
13-97-0217	2Mb (512k x 36) 70ns	£35	£41.13
13-97-0416	4Mb (1 x 36) 60ns	£12	£14.10
13-97-0417	4Mb (1 x 36) 70ns	£12	£14.10
13-97-0816	8Mb (2 x 36) 60ns	£14	£16.45
13-97-0817	8Mb (2 x 36) 70ns	£18	£21.15
13-97-1616	16Mb (4 x 36) 60ns	£19	£22.33
13-97-1617	16Mb (4 x 36) 70ns	£29	£34.08
13-97-3216	32Mb (8 x 36) 60ns	£32	£37.60
13-97-3217	32Mb (8 x 36) 70ns	£39	£45.83

**SIMMS - 30 PIN**

ex VAT inc VAT



All 30pin SIMMs from SMC have full parity checking.

**3-chip**

10-97-1963	1Mb (1 x 9) 60ns	£5	£5.88
10-97-1973	1Mb (1 x 9) 70ns	£6	£7.05
10-97-1983	1Mb (1 x 9) 80ns	£14	£16.45
10-97-4963	4Mb (4 x 9) 60ns	£7	£8.23
10-97-4973	4Mb (4 x 9) 70ns	£9	£10.58

**9-chip**

10-97-1969	1Mb (1 x 9) 60ns	£9	£10.58
10-97-1979	1Mb (1 x 9) 70ns	£10	£11.75
10-97-1989	1Mb (1 x 9) 80ns	£15	£17.63
10-97-4969	4Mb (4 x 9) 60ns	£11	£12.93
10-97-4979	4Mb (4 x 9) 70ns	£15	£17.63
10-97-7976	16Mb (16 x 9) 60ns	£29	£34.08

30pin SIMMs must be installed as follows :-

286 & 386sx-based PCs - in matching pairs.

386DX & 486-based PCs - in matching sets of four.

Please check your motherboard manual to confirm that your PC supports the required module size, speed and configuration.

**SO DIMMs - 72 PIN**

ex VAT inc VAT



**3.3 volt**

19-93-0413	4Mb (1 x 4) 70ns	£25	£29.38
19-93-0433	4Mb (1 x 16) 70ns	£42	£49.35
19-93-0833	8Mb (1 x 16) 70ns	£45	£52.88
19-93-0823	8Mb (2 x 8) 70ns	£45	£52.88
19-93-1613	16Mb (4 x 4) 70ns	£45	£52.88

**5 volt**

19-93-0415	4Mb (1 x 4) 70ns	£44	£51.70
19-93-0435	4Mb (1 x 16) 70ns	£39	£45.83
19-93-0835	8Mb (1 x 16) 70ns	£25	£29.38
19-93-0825	8Mb (2 x 8) 70ns	£45	£52.88
19-93-1615	16Mb (4 x 4) 70ns	£38	£44.65

Chip size, voltage, buffering, clock speeds and fitting all differ. Unless you know exactly which SO DIMM you require, we recommend the use of matched modules, especially for branded machines. Please call for details.

Always check machine compatibility before ordering.



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**Why SMC ?** While memory specifications can look the same on the page, it's a hard fact of life that the quality of manufacture and supply is more variable than most people think possible. So, it's reassuring to know that at SMC we haven't forgotten the importance of quality control. We insist on buying from reliable and reputable sources, and we carry out frequent batch checks in order to maintain the quality of our goods, and safeguard our hard-won reputation for reliability. Our range of SIMMS, DIMMS and Matched Memory is exhaustive, and because we stock in depth we can guarantee swift delivery times and very competitive prices. Add to this SMC's highest levels of after-sales service, and you'll know that when you buy from us, you're getting quality, value ... and peace of mind.

**5 Year Warranty - Batch Tested**

**Product Focus : SMC's guide to memory types**

**What are EDO SIMMs ?**

An EDO SIMM (Enhanced Data Out) is the next logical step in the 72 pin SIMM family, offering twice the communication with your computer's processor. It gives faster results in your spreadsheets or quicker updates when playing one of today's demanding 3D games. Also provides :

- > Faster boot-up times
- > Greater multi-tasking
- > Greater reliability
- > Better overall performance
- > Compatibility with more motherboards

Note : EDO SIMMs must be fitted in pairs

**What are PC100 DIMMs ?**

With today's state-of-the-art systems things move at such breakneck speeds that reliability and speed requirements have become an issue and have led to the development of PC100 DIMMS. Designed to cope with the pressing demands of today's and tomorrow's software and systems, it provides these major advantages :

- > Works with 100MHz motherboards including BX chipsets and Super Socket 7
- > Available with or without ECC (Error Correction Code)
- > Works with CPUs 350MHz+ (slot 1)
- > Provides fast access for AGP texture manipulation
- > Can be fitted singly
- > Can be used in any combination e.g. 16+32+64 = 112MB

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**253-257 Famham Rd Slough Berkshire SL2 1HA**



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**MEMORY : SIMMS & DIMMS**

For SMC's unique guarantee : see page 2



# SHOP AT SMC AND MAKE SURE OF A QUALITY CHRISTMAS!



Your Processor and Motherboard form the heart of your system. If you don't make the right choice here, the performance of your system may be seriously held back or even subject to incompatibility problems. That may sound daunting, but we give you as much technical data as possible on these pages - note, in particular our new-style motherboard listing - so that when you call you'll have the information you need to make an informed choice. Don't forget, at SMC we sell only major branded products so you can be sure of superior quality, performance and after-sales support.

If you have a special requirement, we can discuss your needs and ensure that the products you buy will maximise the value you get for your money.

# PROCESSORS, CASES & OVERDRIVES

## PROCESSORS



ex VAT inc VAT

### Intel

#### Pentium II - Slot 1 with 512k cache

Boxed, with HS & Fan (3 Yr Warranty)

09-31-8300	PII 300MHz - 66MHz bus	£139	£163.33
09-31-8333	PII 333MHz - 66MHz bus (ECC)	£129	£151.58
09-31-8350	PII 350MHz - 100MHz bus	£152	£178.60
09-31-8400	PII 400MHz - 100MHz bus (ECC)	£265	£311.38
09-31-8450	PII 450MHz - 100MHz bus (ECC)	£389	£457.08

#### Celeron - Slot 1

Cache size in brackets (1 Yr Warranty)

09-31-8305	PII 300MHz - 66MHz bus (128k)	£98	£115.15
09-31-8335	PII 333MHz - 66MHz bus (128k)	£112	£131.60

## INTEL OVERDRIVE



Pentium Overdrive processors are designed to upgrade standard Pentium PC's to MMX technology. They give both higher performance for existing applications and the ability to run MMX technology software.

They include voltage filtering and added silicon and package features to ensure worry-free processor upgradability and are supplied with a full three year warranty.

### Pentium MMX Overdrive

ex VAT inc VAT

09-31-5205	200MHz Pentium MMX OverDrive : 3.3v, for P100/133/166 (Socket 7 ZIF)	£129	£151.58
09-31-5165	166MHz Pentium MMX OverDrive : 3.3v, for P100 (Socket 517 ZIF)	£107	£125.73

All INTEL Overdrive Processors come complete with built-on fan.

INTEL are due to release a Pentium Pro Overdrive (requires BIOS support), please call for details.



**INCREASE YOUR PERFORMANCE WITH THE UK'S PREMIER UPGRADE SUPPLIER**



### AMD

#### K6-2 with 3DNow - Super Socket 7

09-05-2300	300MHz, 3.3v, 100MHz bus	£59	£69.33
09-05-2333	333MHz, 3.3v, 95MHz bus	£74	£86.95
09-05-2350	350MHz, 3.3v, 100MHz bus	£94	£110.45
09-05-2380	380MHz	£POA	£POA
09-05-2400	400MHz	£POA	£POA

NOTE: AMD processors require specific motherboard support (see table) and Heat Sink and Fan units are highly recommended.



### Cyrix

#### 6x86MX - Socket 7

09-17-6233	233MHz, 2.9v, 75MHz bus	£36	£42.30
09-17-6300	300MHz, 2.9v, 66MHz bus	£55	£64.63

NOTE: Cyrix processors require specific motherboard support (see table) and Heat Sink and Fan units are highly recommended.

## Heat Sink / Fan Units

NOTE: these units are only available when purchasing a CPU. We recommend their use for all CPUs. Ball Bearing units are designed to run at very high temperatures.

09-95-6000	Pentium Pro 200	£17	£19.98
09-95-6086	Cyrix 6x86MX	£14	£16.45
09-95-5266	Intel Pentium/AMD K6	£15	£17.63
09-95-9000	Intel Celeron	£10	£11.75

## PC CASES (CE Approved)



### Standard PC cases

Above picture refers to the ATX cases below. Left > FT, MINI, DT.

ex VAT inc VAT

#### PC-AT : 200w PSU

70-97-1005	Standard Desktop 2x 3.5", 3x 5.25" bays	£45	£52.88
70-97-1510	Mini Tower, 4x 3.5", 2x 5.25" bays	£39	£45.83
70-97-1730	Midi Tower, 5x 3.5", 3x 5.25" bays	£45	£52.88
70-97-1910	Full Tower, 3x 3.5", 6x 5.25" bays	£65	£76.38

#### PC-ATX : 235w PSU

70-00-4006	Desktop, 2x 3.5", 2x 5.25" bays	£55	£64.63
70-00-4005	Mini Tower, 4x 3.5", 2x 5.25" bays	£69	£81.08
70-00-4003	Full Tower, 5x 3.5", 6x 5.25" bays	£85	£99.88



### High-specification PC cases

Above picture refers to the AT and ATX cases below. Left > DT AT/ATX, MT ATX, FT AT/ATX, MIDI ATX, MINI/MIDI AT.

ex VAT inc VAT

#### PC-AT : 230w PSU

70-97-3012	Standard Desktop 3x 3.5", 2x 5.25" bays	£59	£69.33
70-97-3712	Mini/Midi Tower 4x 3.5", 3x 5.25" bays	£65	£76.38
70-97-3912	Full Tower, 4x 3.5", 6x 5.25" bays	£89	£104.58

#### PC-ATX : 200w PSU

70-97-3330	Desktop, 3x 3.5", 2x 5.25" bays	£89	£104.58
70-97-3790	Mini Tower, 4x 3.5", 2x 5.25" bays	£79	£92.83
70-97-3730	Midi Tower, 4x 3.5", 3x 5.25" bays	£99	£116.33
70-97-3930	Full Tower, 4x 3.5", 6x 5.25" bays	£115	£135.13

All cases are supplied with power supply units, power cables, screws and motherboard mounts.

**SALES FREEPHONES : South - 0800 597 5 333**

**Midlands - 0800 597 6 333**

**North - 0800 597 7 333**

**Scotland - 0800 597 8 333**

**FAX : 01753 524443**



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## MOTHERBOARDS

intel	G	ASUS	A															
SMC Ref	Make	Model	Chipset	Bus MHz	Max. Intel	Max. AMD	Max. AMD K6-Z	Max. Cyrix	Cache	SIMM slots	DIMM slots	AGP slot	PCI slots	ISA slots	PCI/ISA slots	Other	ex VAT	inc VAT
<b>Pentium - Socket 7 / Super Socket 7</b>																		
<b>AT</b>																		
07-99-0520	ASUS	P5A-B	ALIV	100	233	300	350	333	512k	0	3	Y	2	1	1	UH	£58	£68.15
07-99-0525	ASUS	P5A-B/AUDIO	ALIV	100	233	300	350	333	512k	0	3	Y	2	1	1	UH, S	£62	£72.85
07-93-5037	Gigabyte	GA-586TX3	TX	66	233	233	-	233	512k	2	3	-	3	1	1	UH	£57	£66.98
07-97-5925	TMC	A15TT	TX	66	233	300	-	266	512k	4	2	-	3	2	1	UH	£50	£58.75
07-97-5320	TMC	A15VG+	MVP3	100	233	350	450	333	512k	2	3	Y	3	1	1	UH	£56	£65.80
<b>ATX</b>																		
07-99-0530	ASUS	P5A	ALIV	100	233	300	350	333	512k	0	3	Y	4	1	1	UP	£62	£72.85
07-99-0535	ASUS	P5A/AUDIO	ALIV	100	233	300	350	333	512k	0	3	Y	4	1	1	UP, S	£70	£82.25
07-97-5315	TMC	T15VG	VP3	66	233	233	-	266	512k	4	3	Y	3	2	1	UP	£46	£54.05
07-97-5901	TMC	T15TT	TX	66	233	300	-	266	512k	4	2	-	3	3	1	UH	£53	£62.28
07-97-5325	TMC	T15VG+	MVP3	100	233	350	450	333	1MB	2	3	Y	4	1	1	UP	£67	£78.73
<b>Pentium II - Slot 1</b>																		
<b>ATX</b>																		
07-99-0700	ASUS	P2L97	LX	66	333	-	-	-	-	-	3	Y	4	1	1	UP	£75	£88.13
07-99-0710	ASUS	P2L97-S	LX	66	333	-	-	-	-	-	3	Y	3	1	1	UP, SC	£134	£157.45
07-99-0715	ASUS	P2L97-DS	LX	66	333	-	-	-	-	-	4	Y	3	1	1	UP, DP, SC	£215	£252.63
07-99-0730	ASUS	P2B	BX	100	450	-	-	-	-	-	3	Y	3	2	1	UP	£99	£116.33
07-99-0732	ASUS	P2B-S	BX	100	450	-	-	-	-	-	4	Y	3	1	1	UP, SC	£189	£222.08
07-99-0735	ASUS	P2B/LS	BX	100	450	-	-	-	-	-	4	Y	3	1	1	UP, SC, L	£225	£264.38
07-99-0739	ASUS	P2B/DS	BX	100	450	-	-	-	-	-	4	Y	3	1	1	UP, DP, SC	£282	£331.35
07-93-7001	Gigabyte	GA-686BX	BX	100	450	-	-	-	-	-	4	Y	3	2	1	UP	£85	£99.88
07-93-7021	Gigabyte	GA-686BXDS	BX	100	450	-	-	-	-	-	4	Y	3	2	1	DS, SC	£189	£222.08
07-31-2098	Intel	SE440BX	BX	100	450	-	-	-	-	-	3	Y	3	1	1	UP	£93	£109.28
07-97-1052	TMC	T16NL	LX	66	333	-	-	-	-	-	4	Y	4	1	1	UP	£66	£77.55
07-97-2450	TMC	T16NB	BX	100	450	-	-	-	-	-	4	Y	4	1	1	UP	£79	£92.83

Key to other features :

UH : USB Header

UP : USB Port SC : Onboard SCSI

S : Onboard Sound

G : Onboard Graphics

DP : Dual Processor

L : Onboard LAN

NOTE : 100MHz bus motherboards require PC100 memory modules when processor bus speed exceeds 66MHz

CHIPSETS : TX, LX and BX are Intel chipsets. ALIV is by Aladdin. VP3 and MVP3 are VIA chipsets.



Intel  
**'Seattle'**  
**SE440BX**  
07-31-2098

**£93**

£109.28 inc.VAT

Offers the latest advances in processor & chipset performance by combining support for a high-frequency Pentium II processor with the superior bandwidth of both the Dual Independent Bus (DIB) and the 100MHz system bus. By integrating the innovative Accelerated Graphics Port and the increased 100-MHz system bus throughput, the SE440BX motherboard delivers the highest performance available for demanding system applications.

The perfect compliment to a boxed Intel Pentium II processor.



**TMC T15VG+**  
07-97-5325

**£67**

£78.73 inc.VAT

This extremely flexible Super Socket 7 ATX motherboard, using the VIA MVP3 chipset, will support a wide range of bus speeds including 66, 95 & 100Mhz.

It supports AMD K6/2 processors and AGP graphics cards so is ideal for all those who do not wish to make the upgrade to Pentium II yet. To achieve even faster speeds the T15VG+ has twice as much cache memory as other motherboards.

Enjoyable performance, wonderful price, rigid quality.



When you buy a motherboard from SMC, you get full technical support.

You also get SMC's **FREE 16-page, easy-to-follow Installation Guide.**

Subjects covered include:-  
Mounting the board, installing Processors and Memory, making Power and Case connections. Basic and Advanced connections, configuring your BIOS and a section on Troubleshooting.

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MOTHERBOARDS



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**OPTICAL DRIVES**

	ex VAT	inc VAT
<b>Fujitsu</b>		
50-24-0643 MCB3064SS 640MB Internal	£229	£269.08
<b>Olympus</b>		
50-91-0230 Power MO 230 II Universal 230Mb External P/Port & SCSI	£179	£210.33
50-91-2600 Power MO 2600 2.6Gb External	£1349	£1585.08

All above units are SCSI devices requiring a SCSI Controller.

**PANASONIC PD DRIVES**

	ex VAT	inc VAT
<b>LF1196AB</b>		
51-57-0811 Internal EIDE drive, 8-Speed CD + 650Mb Optical	£189	£222.08
<b>LF1500EPB</b>		
51-57-0815 Parallel Port drive, 8-speed CD + 650Mb Optical	£239	£280.83

**FLOPPY DRIVES**

	ex VAT	inc VAT
<b>Internal</b>		
39-97-0350 3.5" 1.44MB, 1" high drive	£15	£17.63
<b>Parallel Port</b>		
<b>Micro Solutions BackPack</b> Require a working floppy drive for installation of software drivers.		
39-42-0350 3.5" 1.44MB parallel port drive (Supports 720k DD format)	£85	£99.88
39-42-0525 5.25" 1.2MB parallel port drive (Does not support 360k DD format)	£109	£128.08



**BABY ZIP**

Portable Zip Drive

Key Features

- Powered directly from your computer
- Uses Standard Iomega 100Mb ZIP disks
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FREE LIFETIME TECHNICAL SUPPORT

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37-92-9021 2.1GB	£279	£327.83
37-92-9032 3.2GB	£339	£398.33
37-92-9040 4.0GB	£419	£492.33
37-92-9066 6.4GB	£499	£586.33

**Accessories**

	ex VAT	inc VAT
01-92-0221 2 to 1 compression software	£22	£25.85
75-92-0122 Parallel Port/Keyboard cable set	£33	£38.78

**Baby ZIP**

	ex VAT	inc VAT
37-92-0100 PCMCIA 100Mb ZIP External	£169	£198.58

**SYQUEST SparQ & SyJet Family**



"The Personal Solution"

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**SparQ 1.0 GB Drive.** "the personal solution" - a superb combination of high performance and affordable price. With its substantial capacity and hard drive speeds it can easily backup your laptop or desktop system in minutes. The SparQ drive is the logical choice for small / home offices, business travellers, families, students, web surfers, game players, presenters, software programmers and writers.

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**SparQ**

All drives work with Microsoft Windows 95/98 & NT4, have a 512k cache buffer, 12ms access time & 1x Free piece of media.

	ex VAT	inc VAT
30-73-1001 1.0GB EIDE, Internal	£131	£153.93
37-73-1007 1.0GB Parallel Port, External	£131	£153.93

**Media**

	ex VAT	inc VAT
95-73-1000 1GB Single piece of media	£28	£32.90
95-73-1003 1GB media, pack of three	£68	£79.90

**SyJet**

All drives work with Microsoft Windows 95/98 & NT4, have a 512k cache buffer, 12ms access time & 1x Free piece of media.

	ex VAT	inc VAT
30-73-1501 1.5GB EIDE, Internal	£199	£233.83
37-73-1507 1.5GB Parallel Port, External	£199	£233.83
35-73-1504 1.5GB SCSI, External	£199	£233.83

**Media**

	ex VAT	inc VAT
95-73-1500 1.5GB Single piece of media	£51	£59.93
95-73-1503 1.5GB media, pack of three	£127	£149.23



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**IOMEGA ZIP**

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35-35-0105 SCSI - External	£79	£92.83
35-35-0100 SCSI - Internal		
Including controller	£86	£101.05
30-35-0100 ATAPI - Internal	£69	£81.08
38-35-0100 USB - External	£99	£116.33
37-35-0100 Parallel port	£79	£92.83
37-35-0161 Parallel port+6 media	£109	£128.08
35-35-3537 ZIP Plus		
Parallel port/SCSI	£115	£135.13

**Notebook (CNF) Drives - Internal**  
Please check compatibility : for latest models only

35-35-9110 Toshiba	£219	£257.33
35-35-9120 IBM	£219	£257.33
35-35-9130 Compaq	£219	£257.33

**Media (Cartridges)**

95-35-0101 Single	£8	£9.40
95-35-0106 6 Pack multicoloured	£39	£45.83
95-35-0120 20 Bulk Pack multi-c	£125	£146.88

**Accessories**

70-35-0003 Carry Case	£19	£22.33
26-35-0284 PCMCIA to SCSI card	£59	£69.33
26-35-0100 ISA SCSI Controller	£25	£29.38

The ZIP drive, with a capacity of 100MB (200MB with data compression) has become the industry standard for storing and transporting files for individual applications, and for smaller backup tasks.

With a seek time of 29ms and transfer rate up to 1.4MB/sec, the ZIP is twenty times as fast as a floppy drive, and the ZIP PLUS is more than twice as fast again!

Available with a number of interface options, it offers you the ultimate in flexibility and ease of use.



**IOMEGA JAZ**

	ex VAT	inc VAT
<b>SCSI Drives</b>		
35-35-2000 2.0Gb - Internal	£249	£292.58
35-35-2005 2.0Gb - External	£249	£292.58

**Media (Cartridges)**

95-35-1001 1.0Gb - Single	£55	£64.63
95-35-2001 2.0Gb - Single	£65	£76.38

**Accessories**

70-35-0003 Carry Case	£19	£22.33
26-35-0450 PCMCIA to SCSI card	£77	£90.48
26-35-0347 ISA 16-bit SCSI card	£59	£69.33
26-35-0346 PCI Bus-mastering SCSI card	£65	£76.38
75-35-0231 Parallel/SCSI convertor	£29	£34.08

The JAZ drive is the ultimate in storing, transporting and running your applications.

With operating speeds in excess of many conventional hard drives, the JAZ can handle even the most demanding use, including video, DTP and CAD/CAM applications.

Not only is there no limit to the number of disks you can use, but with a capacity of 2GB you can store enormous amounts of data on a single cartridge.



**IOMEGA DITTO**

	ex VAT	inc VAT
<b>Ditto 2000</b>		
2GB, 19MB/min		
Tape type (see Page 23) - E1		
46-35-2000 Internal Drive	£59	£69.33
46-35-2009 Parallel Port Drive	£88	£103.40
46-35-2003 Bundle : P/P Drive with carry case & 3 tapes	£125	£146.88

**Ditto Max Pro**  
3-10GB, 36MB/min

Tape type (see Page 23) - E2, E3, E4 OR E5

46-35-3010 Internal Drive	£139	£163.33
46-35-3015 Parallel Port Drive	£169	£198.58

**ISA Controller**

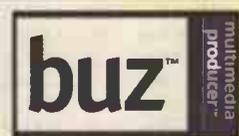
26-35-0030 DITTO-DASH	£19	£22.33
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From 2GB up to 10GB, the DITTO offers the most versatile small tape backup range on the market.

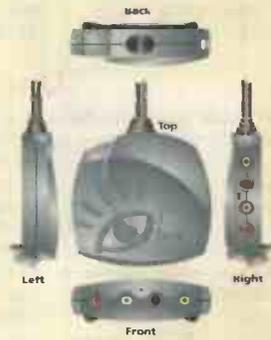
The DITTO MAX PRO even allows you to customise your capacity by using 3, 5, 7 or 10GB cartridges in the same drive.

With installation taking just 5 minutes and backup involving simple point and click activation, you won't find an option that's easier to use.



**IOMEGA BUZ**

	ex VAT	inc VAT
62-35-0700 Multimedia Card SCSI	£149	£175.08



The BUZ is a cross-platform video capture board and SCSI card that allows you to put multimedia from camcorders, VCRs, DVD and CD-ROM drives into your PC ... and then customise it using the easiest software around.

From there, you can share it with others using a ZIP or JAZ disk, or even the Internet!

Iomega have again brought stunning new technology to the market at a very affordable price.



IOMEGA REMOVABLE & TAPE DRIVES

For SMC's unique guarantee : see page 2





## What size Hard Drive do I need ?

With very small differences between the cost of different size Hard Drives , It is obviously tempting to go for the biggest drive within your immediate budget. However, there are several factors you should consider when making your decision. Your needs will increase if you use space-hungry software and/or operating system. (Don't forget Windows 98 has a maximum disk requirement of 300MB ! ) On the other hand, if you run applications direct from CD, this will obviously lower your needs, as will whether you use removable media (eg lomega ZIP or JAZ) where you can have an external "plug-in" library of data and/or applications. If you need advice, just give us a call and we'll help you choose the option that's best suited to your requirements.



HARD DRIVES : ULTRA, ULTRA-WIDE, ULTRA-2 SCSI

## ULTRA-SCSI HARD DRIVES

Part No Size Make Model Cache exVAT incVAT

### Ultra-SCSI

Ultra-SCSI drives transfer data at 20Mb/sec and use a 50-pin connector

35-86-2173	2.1GB	Western Dig	E2170-0003Enterprise	512k 8ms	£172	£202.10
35-86-4363	4.3GB	Western Dig	E4360-0003Enterprise	512k 8ms	£229	£269.08
35-64-4550	4.5GB	Quantum	PX4550SW Atlas II	512k 8ms	£189	£222.08
35-70-4520	4.5GB	Seagate	ST34520N	512k 9.5ms	£165	£193.88
35-70-4573	4.5GB	Seagate	ST34573N	512k 7.1ms	£297	£348.98
35-30-4529	4.5GB	IBM	00K3980 Ultrastar	512k 7.5ms	£175	£205.63
35-64-6400	6.4GB	Quantum	SE6400S Fireball SE	128k 9.5ms	£229	£269.08
35-70-6530	6.5GB	Seagate	ST36530N	512k 9.5ms	£239	£280.83
35-30-9188	9.1GB	IBM A/V	59H6588 Ultrastar	512k 7.5ms	£349	£410.08
35-70-9140	9.1GB	Seagate	ST39140N	512k 9.5ms	£297	£348.98
35-70-9173	9.1GB	Seagate	ST39173N Barracuda	512k 9.5ms	£312	£366.60
35-86-9103	9.1GB	Western Dig	E9100-003	512k 7.9ms	£299	£351.33
35-64-9101	9.1GB	Quantum	TD309100S Atlas III	1MB 7.5ms	£375	£440.63
35-30-1800	18GB	IBM	59H6589 Ultrastar	512k 7.5ms	£649	£762.58
35-70-8273	18.2GB	Seagate	ST118273N	512k 7.1ms	£649	£762.58
35-64-1820	18.2GB	Quantum	TD318200S Atlas III	1MB 7.5ms	£649	£762.58

### Ultra-wide SCSI

Ultra-wide SCSI drives transfer data at 40Mb/sec and use a 68-pin connector

35-86-2177	2.1GB	Western D	E2170-0007Enterprise	512k 8ms	£175	£205.63
35-24-2203	2.2GB	Fujitsu	M2952QA AL3	512k 8ms	£139	£163.33
35-24-4303	4.3GB	Fujitsu	MAB3045SP	512k 7.5ms	£214	£251.45
35-30-4318	4.3GB	IBM	22L0278	512k 8.5ms	£149	£175.08
35-86-4367	4.3GB	Western D	E4360-0007Enterprise	512k 8ms	£239	£280.83
35-30-4547	4.5GB	IBM	00K4000 Ultrastar	512k 7.5ms	£179	£210.33
35-64-4550	4.5GB	Quantum	PX4550SW Viking II	512k 7.5ms	£189	£222.08
35-70-4521	4.5GB	Seagate	ST34520W	512k 9.5ms	£169	£198.58
35-70-4574	4.5GB	Seagate	ST34573W	512k 7.1ms	£299	£351.33
35-24-3046	4.5GB	Fujitsu	MAC3045SP	512k 7.5ms	£365	£428.88
35-70-6531	6.5GB	Seagate	ST36530W	512k 9.5ms	£215	£252.63
35-24-9105	9.1GB	Fujitsu	MAB3091SP	496k 7.5ms	£369	£433.58
35-24-3092	9.1GB	Fujitsu	MAC3091SP	512k 7.5ms	£535	£628.63
35-30-0211	9.1GB	IBM	22L0211 UltrastarES	512k 7.5ms	£325	£381.88
35-30-9190	9.1GB	IBM A/V	59H6590 Ultrastar	512k 7.5ms	£355	£417.13
35-70-9141	9.1GB	Seagate	ST39140W	512k 9.5ms	£298	£350.15
35-70-9174	9.1GB	Seagate	ST39173W Barracuda	512k 7.5ms	£339	£398.33
35-86-9107	9.1GB	Western Dig	E9100-007	512k 7.9ms	£319	£374.83
35-86-9108	9.1GB	Western Dig	E9100-0016 (A/V)	512k 8ms	£322	£378.35
35-30-1891	18GB	IBM	59H6591 Ultrastar	512k 7.5ms	£649	£762.58
35-24-1800	18GB	Fujitsu	MAA3182SP	512k 8ms	£695	£816.63
35-70-8274	18.2GB	Seagate	ST118273W	512k 7.1ms	£649	£762.58

### Ultra-2 SCSI

Ultra-2 SCSI drives transfer data at 80Mb/sec and use a 68-pin connector

35-86-4557	4.5GB	Western Dig	E4550-0024	512k 7.8ms	£259	£304.33
35-86-4558	4.5GB	Western Dig	E4550-AV0030 (A/V)	512k 7.8ms	£279	£327.83
35-70-4575	4.5GB	Seagate	ST34573LV	512k 7.1ms	£299	£351.33
35-70-4502	4.5GB	Seagate	ST34502LV	1MB 5.4ms	£335	£393.63
35-86-9117	9.1GB	Western Dig	E9100-0024	512k 7.8ms	£345	£405.38
35-86-9118	9.1GB	Western Dig	E9100-AV0030 (A/V)	512k 7.8ms	£369	£433.58
35-70-9102	9.1GB	Seagate	ST39102LV	1MB 5.4ms	£454	£533.45
35-64-9108	9.1GB	Quantum	TD309100LV Atlas III	1MB 7.5ms	£369	£433.58
35-70-8275	18.2GB	Seagate	ST118273LV	512k 7.1ms	£659	£774.33
35-64-1827	18.2GB	Quantum	TD318200LV Atlas III	1MB 7.5ms	£675	£793.13



## SCA SCSI HARD DRIVES

SCA is an 80-pin connector that carries both data and power so that hard drives can be connected more easily.

It is used mainly in RAID arrays with hot swappable drives but because of its ease of connection, its use in standard systems is becoming more common.

External chassis for SCA drives to convert to 68 pin are also available. See page 24.

Part No Size Make Model Cache exVAT incVAT

### Ultra-wide SCSI

35-86-4368	4.3GB	Western Dig	E4360-0008	512k 8ms	£239	£280.83
35-70-4522	4.5GB	Seagate	ST34520WC	512k 9.5ms	£179	£210.33
35-30-4020	4.5GB	IBM	00K4020	512k 7.5ms	£197	£231.48
35-24-3045	4.5GB	Fujitsu	MAB3045SC	498k 8ms	£249	£292.58
35-70-6531	6.5GB	Seagate	ST36530WC	512k 9.5ms	£215	£252.63
35-70-9142	9.1GB	Seagate	ST39140WC	512k 9.5ms	£299	£351.33
35-86-9106	9.1GB	Western Dig	E9100-0008	512k 8ms	£325	£381.88
35-86-9105	9.1GB	Western Dig	E9100-0017 (A/V)	512k 8ms	£329	£386.58
35-24-3091	9.1GB	Fujitsu	MAB3091SC	498k 8ms	£433	£508.78
35-30-4010	9.1GB	IBM	00K4010	512k 7.5ms	£355	£417.13
35-30-6594	9.1GB	IBM	59H6594	1MB 6.5ms	£389	£457.08
35-30-7625	9.1GB	IBM	05J7625	1MB 7.5ms	£445	£522.88
35-30-6595	18.2GB	IBM	59H6595	1MB 7.5ms	£649	£762.58
35-24-3182	18.2GB	Fujitsu	MAA3182SC	498k 8ms	£696	£817.80

### Ultra-2 SCSI

35-86-4559	4.5GB	Western Dig	E4550-0025	512k 7.8ms	£259	£304.33
35-86-4556	4.5GB	Western Dig	E4550-AV0034 (A/V)	512k 7.8ms	£279	£327.83
35-86-9119	9.1GB	Western Dig	E9100-0025	512k 7.8ms	£349	£410.08
35-86-9116	9.1GB	Western Dig	E9100-AV0034 (A/V)	512k 7.8ms	£369	£433.58

## PRODUCT LINK



Drive cables & boxes page 24

## ADAPTEC SCSI CONTROLLER CARDS

### Kits (include software and internal cable)

Part No	Model	Interface	Ext.Con	DevicesBoot (Max) Bios	exVAT	incVAT
<b>ISA Bus</b>						
26-03-1542	AHA1542CP	FastSCSI2	Micro-D	7&FD Y	£149	£175.08
<b>PCI Bus</b>						
26-03-2902	AVA2902	FastSCSI2	25pin D	7Extnl N	£37	£43.48
26-03-2910	AHA2910B	FastSCSI2	Micro-D	7 N	£59	£69.33
26-03-2920	AHA2920	FastSCSI2	Micro-D	7 Y	£75	£88.13
26-03-2941	AHA2940UA	UltraSCSI	Micro-D	7 Y	£139	£163.33
26-03-2947	AHA2940UW	UltraWide	Micro-D wide	15 Y	£165	£193.88
26-03-2980	AHA2940U2W	Ultra-2	Micro-D	15 Y	£235	£276.13
26-03-3943	AHA3940AU	UltraSCSI	Micro-D	14 Y	£245	£287.88
26-03-3949	AHA3940AUW	UltraWide	Micro-D wide	30 Y	£285	£334.88
<b>PCMCIA (PC Card)</b>						
26-03-1460	APA1460A-2	FastSCSI2	Micro-D, Centronics	7	£95	£111.63
26-03-1480	APA1480	UltraSCSI	Micro-D, Centronics	3	£124	£145.70
<b>RAID 0, 1, 0/1, or 5 (PCI Bus-Netware &amp; WinNT)</b>						
26-03-0131	AAA-131	UltraWide	Micro-D wide	45 Y	£269	£316.08
26-03-0133	AAA-133	UltraWide	Micro-D wide	45 Y	£449	£527.58

### Bare Cards (do not include software or cable)

Part No	Model	Interface	Ext.Con	DevicesBoot (Max) Bios	exVAT	incVAT
<b>ISA Bus</b>						
26-03-1520	AHA1520B	FastSCSI2	Micro-D	7 Y	£43	£50.53
26-03-1549	AHA1542	FastSCSI2	Micro-D	7&FD Y	£115	£135.13
<b>PCI Bus</b>						
26-03-2943	AHA2940UA	UltraSCSI	Micro-D	7 Y	£105	£123.38
26-03-2949	AHA2940UW	UltraWide	Micro-D wide	15 Y	£129	£151.58

**SALES FREEPHONES : South - 0800 597 5 333**

**Midlands - 0800 597 6 333**

**North - 0800 597 7 333**

**Scotland - 0800 597 8 333**

**FAX : 01753 524443**

**VISIT OUR WEBSITE AT:**  
www.smc-direct.co.uk



**SALES LINES OPEN : MONDAY TO FRIDAY : 8.30am - 6.30pm SATURDAY : 9am - 1pm**

**For Customer Care and Switchboard Hotlines see Page 2**

**THE BEST YOU'LL GET**

When you buy a Hard Drive from SMC, you get something no other company offers - a free 24 page, easy-to-follow Installation Guide containing everything you need to ensure a trouble-free set up.

It covers:

- > Getting Started & basic troubleshooting
- > IDE/EIDE Hard Drive Installation
- > CMOS configuration
- > Installing with & without a translating BIOS
- > SCSI Hard Drive Installation & configuration
- > Creating a bootable floppy disk
- > Windows NT & Windows'95

**FREE**

**WHEN YOU BUY FROM SMC**



**CHECK OUT CABLES & BOXES ON PAGE 24**



**ULTRA-IDE HARD DRIVES**

Part No	Size	Make	Model	Cache		ex VAT	inc VAT
<b>2.1Gb - 3.2Gb</b>							
30-70-2122	2.1GB	Seagate	ST32122A	128k	12ms	£62	£72.85
30-86-2509	2.5GB	Western Dig	AC12500AU	128k	12ms	£77	£90.48
30-24-3033	3.2GB	Fujitsu	MPC3032AT	256k	10ms	£79	£92.83
30-70-3221	3.2GB	Seagate	ST33221A	128k	11ms	£75	£88.13
30-86-3206	3.2GB	Western Dig	AC13200AU	128k	12ms	£85	£99.88
30-64-3201	3.2GB	Quantum	EX3200AT	512k	9.5ms	£79	£92.83
<b>4.3Gb - 5.7Gb</b>							
30-24-3044	4.3GB	Fujitsu	MPC3043AT	256k	10ms	£89	£104.58
30-70-4321	4.3GB	Seagate	ST34321A	128k	11ms	£82	£96.35
30-70-4520	4.5GB	Seagate	ST34520A	512k	9.5ms	£96	£112.80
30-64-5100	5.1GB	Quantum	EL5100AT	512k	9.5ms	£92	£108.10
30-86-5101	5.1GB	Western Dig	AC25100AU	256k	<11ms	£95	£111.63
<b>6.4Gb - 16.8Gb</b>							
30-30-6408	6.4GB	IBM	00K4115	512k	8.5ms	£115	£135.13
30-70-6431	6.4GB	Seagate	ST36531A	512k	11ms	£99	£116.33
30-64-6401	6.4GB	Quantum	EX6400AT	512k	9.5ms	£129	£151.58
30-86-6401	6.4GB	Western Dig	AC26400AU	256k	<9.5ms	£109	£128.08
30-24-3065	6.4GB	Fujitsu	MPC3064AT	256k	10ms	£112	£131.60
30-70-6530	6.5GB	Seagate	ST36530A	512k	9.5ms	£105	£123.38
30-39-0680	6.8GB	Maxtor	90680D4	256k	9ms	£109	£128.08
30-39-0750	7.5GB	Maxtor	90750D6	512k	9ms	£149	£175.08
30-64-7600	7.6GB	Quantum	EL7600AT	512k	9.5ms	£122	£143.35
30-64-8000	8.0GB	Quantum	TX8000AT 5.25"	128k	12ms	£109	£128.08
30-30-8084	8.4GB	IBM	00K0394	256k	8.5ms	£133	£156.28
30-64-8400	8.4GB	Quantum	SE8400AT	128k	9.5ms	£144	£169.20
30-86-8400	8.4GB	Western Dig	AC38400AU	512k	9.5ms	£129	£151.58
30-24-3084	8.4GB	Fujitsu	MPC3084AT	256k	10ms	£129	£151.58
30-70-8641	8.6GB	Seagate	ST38641A	128k	11ms	£125	£146.88
30-70-9140	9.1GB	Seagate	ST39140A	512k	9.5ms	£145	£170.38
30-39-1000	10.0GB	Maxtor	91000D8	512k	9ms	£179	£210.33
30-30-4091	10.1GB	IBM	00K4091	512k	9.5ms	£155	£182.13
30-30-5261	10.1GB	IBM	03L5261	512k	9.5ms	£169	£198.58
30-86-1010	10.1GB	Western Dig	AC310100AU	512k	9.5ms	£159	£186.83
30-24-3102	10.2GB	Fujitsu	MPC3102AT	256k	10ms	£165	£193.88
30-39-1020	10.2GB	Maxtor	91020D8	256k	9ms	£159	£186.83
30-64-1020	10.2GB	Quantum	EL10200AT	512k	9.5ms	£159	£186.83
30-39-1152	11.5GB	Maxtor	91152D8	256k	9ms	£195	£229.13
30-64-1200	12GB	Quantum	TX12000AT 5.25"	128k	12ms	£155	£182.13
30-64-1271	12.7GB	Quantum	EX12700AT 5.25"	512k	9.5ms	£209	£245.58
30-30-4083	12.9GB	IBM	00K4083	512k	9.5ms	£199	£233.83
30-39-1360	13.6GB	Maxtor	91360D8	256k	9ms	£212	£249.10
30-30-4071	14.4GB	IBM	00K4071	512k	9.5ms	£265	£311.38
30-30-4073	16.8GB	IBM	00K4073	512k	9.5ms	£259	£304.33

All the above come with a 3 year warranty and are 3.5" wide unless stated otherwise. Ultra-IDE drives can also work as standard IDE/EIDE drives. We recommend the Promise PCI Ultra33 controller for optimized transfer rates.

**IDE/EIDE/UIDE CONTROLLERS**

**IDE**

ex VAT inc VAT

24-95-1300 IDESPC, ISA, 2HD/2FD, with I/O Ports £14 £16.45

**EIDE**

With ATAPI/CD-ROM & LBA support

24-97-1360 EIDEMAX, ISA, 2HD £24 £28.20

24-97-1365 EIDEPRO, ISA, 4HD/2FD £39 £45.83

**FloppyMax**

24-97-0120 FloppyMax, ISA Add-on for LS-120 (120Mb A:Drive) £25 £29.38

**ULTRA DMA33 (UIDE)**

24-97-0033 Promise Pro ATA Ultra33, PCI add-on controller supporting Quantum ST and UIDE drives. Co-exists with existing IDE/EIDE - ATAPI devices £44 £51.70

24-97-1120 Promise Ultra ATA PCI RAID controller £82 £96.35

**I/O Cards**

23-97-0202 2x EPP/ECP Parallel Ports (High-speed) £25 £29.38

23-97-1313 2x Serial, 1x Parallel Port (High-speed) £39 £45.83

**EIDE 2.5" HARD DRIVES**

Part No	Size	Make	Model	Cache		ex VAT	inc VAT
<b>2.1Gb - 4.0Gb</b>							
30-75-2109	2.1Gb	Toshiba	MK2109MAT	512k	13ms	£105	£123.38
30-75-3205	3.2Gb	Toshiba	MK3205MAV	128k	13ms	£149	£175.08
30-75-4310	4.3Gb	Toshiba	MK4310MAT	128k	13ms	£175	£205.63

These Hard Drives come with a 2 year warranty. All are 12.7mm high with a 44-pin connector, but please check your system for compatibility. MK2105MAV is also UIDE.

**PRODUCT LINK**

**Utility Software : see Page 8**

**Maxtor DiamondMax**

**3 Year**

- 48Hr advance replacement
- Bulletin Board Service
- MaxFax™ 24-hr automated technical support
- Maxtor's commitment to total customer satisfaction
- Phone technicians available Monday - Friday

\* Applies to all Maxtor hard drives

**HARD DRIVES : ULTRA-IDE**

For SMC's unique guarantee : see page 2



**ALL MAJOR CREDIT CARDS ACCEPTED**

CD-ROM technology was heralded as a breakthrough in data storage and transmission, but the first (single speed) drives were only of use in loading software or referencing data. As time went on, speeds increased so that as four-speed and eight-speed drives arrived, it was possible to run applications (including some games) from the CD. With today's 24- and 40-speed drives, even fast-moving animation can be run from the CD, enabling whole libraries of software and data to be stored and accessed without taking up valuable Hard Drive space. Technology has moved on again, so that with CD-Rewriters and Recorders it is now possible to store your own data in convenient CD format, and with the introduction of DVD CD-ROM drives providing enormous capacity of up to 17GB, the range of uses is extending to the most complex and demanding Multimedia applications.

CD-ROM DRIVES

SCSI - Internal

		ex VAT	inc VAT
<b>32 - speed</b>			
With data transfer 4800 KB/sec			
51-93-3200	Plextor PX32Tsi 85ms (T)	£69	£81.08
51-93-3210	Plextor PX32Csi 85ms (C)	£105	£123.38
51-75-6201	Toshiba XM6201B (T)	£59	£69.33
51-62-3215	Pioneer DR-U06S 70ms (S)	£53	£62.28
51-93-1532	Teac CD532S (T)	£59	£69.33
<b>40 - speed</b>			
Data transfer 6000 KB/sec			
51-93-4000	Plextor PX40TSL 85MS (T)	£89	£104.58

SCSI - External

		ex VAT	inc VAT
<b>12 / 24 - speed</b>			
With data transfer 1800 KB/sec			
51-62-1412	Pioneer DRM-6324X 6-disc Autochanger	£325	£381.88
<b>32 - speed</b>			
Ultra SCSI, with data transfer 4800 KB/sec			
51-93-3205	Plextor PX32Tse 85ms (T)	£99	£116.33
51-93-3215	Plextor PX32Cse 85ms (C)	£145	£170.38
<b>40 - speed</b>			
Data transfer 6000 KB/sec			
51-93-4001	Plextor PX40TSE 85MS (T)	£139	£163.33

Plextor drives have a 2-year warranty (T) = Tray Loading. (C) = Caddy Loading

CD Caddies

IMPORTANT: These are only available when purchasing a CD-ROM Drive.  
51-95-9700 CD-ROM Caddy £9 £10.58

EIDE / ATAPI - Internal

		ex VAT	inc VAT
<b>8 - speed Autochanger</b>			
With data transfer 1200 KB/sec			
51-93-0068	Teac CD-C68 190ms (6-disc)	£65	£76.38
<b>24 - speed</b>			
MPC-3 Compatible, with data transfer 3600 KB/sec			
51-95-2432	Samsung SCR2432E	£35	£41.13
<b>32 - speed</b>			
MPC-3 Compatible, with data transfer 4800 KB/sec			
51-15-3201	Creative Blaster CD 32	£42	£49.35
51-57-0588	Panasonic CR-588	£35	£41.13
51-75-6302	Toshiba XM6302B	£35	£41.13
51-48-0320	Mitsumi FX320	£35	£41.13
51-26-8322	LG Gstar CRD-8322B 80ms	£35	£41.13
51-93-0532	Teac CD532E 85ms	£35	£41.13
51-95-3231	Samsung SCR3231E	£37	£43.48
<b>36 - speed</b>			
51-62-0040	Pioneer DR-A14S, 5400 KB/sec	£43	£50.53
<b>40 - speed</b>			
51-99-0400	Asus CD-S400, 6000 KB/sec	£45	£52.88

All above are tray loading, with software drivers and audio cable

Parallel Port

These plug into the Parallel (Printer) Port of your PC, and are fitted with an additional Parallel Port Interface so you can still use your printer with the drive connected.

Micro-Solutions BackPack

Drives with sound have Microsoft Sound compatibility			
51-42-3200	32-speed	£115	£135.13
51-42-3204	32-speed with sound	£146	£171.55

Micro-Solutions Bantam

The Bantam drive supports DOS, Windows 3x, 95 and NT.			
Drives with sound support 16-bit & 8-bit sound. Ultra slim design			
51-42-1000	Bantam 10-speed	£99	£116.33
51-42-1004	Bantam 10-speed with sound	£127	£149.23
51-42-2400	Bantam 24-speed	£133	£156.28
51-42-2404	Bantam 24-speed with sound	£145	£170.38

Amacom EZCD

The EZCD drive has a 256K cache and 125ms access time			
51-92-1016	16-speed with 16-bit sound	£155	£182.13
51-92-0024	24-speed	£95	£111.63
51-92-1024	24-speed with 16-bit sound	£145	£170.38
51-92-0032	32-speed	£105	£123.38
51-92-1032	32-speed with 16-bit sound	£149	£175.08

PCMCIA

Amacom EZCD Card

51-92-3024	24-speed, 125ms, 256k cache	£105	£123.38
51-92-3032	32-speed, 256k cache	£115	£135.13

Amacom EZCD Plus - BRAVO Drive

Can use as a standalone CD player. Power is drawn direct from your PC or via a mains adaptor/battery pack (supplied with 20x version).			
51-92-5020	20-speed, 125ms, 256k cache	£160	£188.00
<b>LG Electronics</b>			
51-26-8241	24-speed, 130ms, 128k cache	£115	£135.13

PRODUCT LINK

CD Sound Cables : See Page 24

CD-ROM, DVD-ROM DRIVES



LG DVD-ROM & CD-ROM DRIVES

Nobody is further ahead in IT than LG. £1.5m is spent every day on R&D and £2bn is being invested in a manufacturing plant in Wales, ensuring LG Electronics' position as a leading player in a very exciting digital future.

Lightning access to all areas with optical storage

DRD-820B Double Speed DVD-ROM Drive

- Plays all DVD-ROM Discs including MPEG2 discs with MPEG2 decoder card
- Single & dual Layer Support in DVD Mode
- Backwardly Compatible with CD-ROM, CD-R & CD-RW
- 2x Speed DVD-ROM Data Transfer (2.7MB/sec)
- 24x Speed CD-ROM Data Transfer (3.6MB/sec Max)

51-26-8200 £77 (£90.48 inc VAT)

CRD-8320B 32x MAX CD-ROM Drive

- Magnetised ball balance mechanism
- E-IDE/ATAPI Interface
- 4800KB/sec Max Data Transfer Rate
- CD-RW & CD-R compatible
- 80ms Access Time
- MPC III Compliant

51-26-8320 £35 (£41.13 inc VAT)

CRN-8240E 24x MAX EXTERNAL CD-ROM Drive

- Operates through PCMCIA attached
- E-IDE/ATAPI Interface
- Fast 130ms Average Access Time
- Max 1.950Kbytes/sec Sustained Transfer rate
- MPC III Compliant

51-26-8241 £115 (£135.13 inc VAT)



Website <http://www.lge.co.kr>

DVD CD-ROM DRIVES

DVD (Digital Versatile Disk) looks exactly like a normal CD, but stores over 26 times the amount of data. A standard DVD disk can hold over two hours of high quality MPEG-2 video with better-than-CD quality audio. DVD-ROM disks can be used to distribute all types of computer data with storage capacities from 4.7Gb to 17Gb, making them ideal for distribution of large multimedia/interactive applications such as music videos and full-length films.

		ex VAT	inc VAT
<b>EIDE/ATAPI internal</b>			
51-26-8200	LG 2x DVD (150ms), 24x CD (100ms)	£77	£90.48
51-15-0220	Creative 2x DVD (170ms), 20x CD (100ms)	£84	£98.70
51-15-1700	Creative ENCORE kit with MPEG 2 decoder card 170ms DVD, 100ms CD	£159	£186.83
59-15-5128	Creative 5x DVD, PCI-128 Sound Card, Speakers	£107	£125.73
51-57-8582	Panasonic SR8582	£85	£99.88
51-62-0200	Pioneer DVD-A02, 150ms DVD, 90ms CD	£92	£108.10
<b>SCSI internal</b>			
51-62-3020	Pioneer DVD-302, 150ms DVD, 90ms CD	£112	£131.60



BRAVO DRIVE

Portable CD-ROM & Audio Player

FREE LIFETIME TECHNICAL SUPPORT

Key Features

- No need for bulky mains adaptors, powered by the PC
- Mobile Audio CD Player
- PCMCIA Type II connection
- Up to 3Mb/sec (20 speed unit)
- Easy to install software drivers
- Fully hot swappable
- Can also be powered with optional mains adaptor or 6 AA batteries



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*For Customer Care and Switchboard Hotlines see Page 2*

**THE BEST YOU'LL GET**

**CD-ROM TOWERS**

ex VAT inc VAT

All options listed are Full Tower SCSI CD ROM solutions

**Standalone PC use**

**Toshiba**  
With 8 bays and 7 CD ROM drives

51-75-0908	32-speed option	£722	£848.35
With 16 bays and 14 CD ROM drives			
51-75-1715	32-speed option	£1499	£1761.33

**Plextor**  
With 8 bays and 7 CD ROM drives

51-93-0809	32-speed option	£795	£934.13
With 16 bays and 14 CD ROM drives			
51-93-1517	32-speed option	£1895	£2226.63

**Network CD Servers**

Supplied with AXIS StorPoint™ CD Server modules

**Toshiba**  
With 8 bays and 7 CD ROM drives

51-75-6207	XM6207/AX - 32-speed option	£1194	£1402.95
With 16 bays and 14 CD ROM drives			
51-75-6214	XM6214/AX - 32-speed option	£2195	£2579.13

**Plextor**  
With 8 bays and 7 CD ROM drives

51-93-0732	PXT732/AX - 32-speed option	£1195	£1404.13
With 16 bays and 14 CD ROM drives			
51-93-1472	PXT1472/AX - 32-speed option	£2595	£3049.13

**Hewlett Packard**  
With 8 bays and 7 CD ROM drives

51-28-3277	J3277A - 32-speed option	£1349	£1585.08
51-28-3278	J3278A - 32-speed option with 18MB RAM and external connector to daisy-chain additional towers	£1549	£1820.08

HP support Packs

99-28-5650	H5650A - 3-year for J3278A	£271	£318.43
99-28-9479	H5479A - 3-year for J3277A	£180	£211.50

**CD-ROM JUKEBOXES**

ex VAT inc VAT

**Pioneer**

These are Twenty-Four Speed External units

51-62-1412	DRM-6324X - 6 CD's, 1 drive	£325	£381.88
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These are Quad-Speed External units

**CD-REWRITERS**

ex VAT inc VAT

CD-RW disks can be read in CD-RW, Multiread and DVD drives. CD-RW drives produce standard CD (CD-R) for all CD players!

**Hewlett Packard Surestore**

1 Mb cache : 2-speed write/rewrite, 6-speed play  
HP drives include software, 1 CD-RW and 1 CD-R media

52-28-4381	7200e Parallel Port	£245	£287.88
52-28-4392	8100i EIDE/ATAPI int., 4x CD-RW	£225	£264.38

Requires P133Mhz, 32MB RAM, Win'95, free IDE channel/EPP port.

**TraxData**

99-95-0020	PRESSIT - CD Labeller	£20	£23.50
2-speed write/rewrite, 6-speed play			
52-95-2260	2260EL Pro - SCSI Internal	£195	£229.13
52-95-2262	2260EL Plus - EIDE Internal	£179	£210.33
4-speed write, 2-speed rewrite, 6-speed play			
52-95-4260	4260EL Pro - SCSI Internal	£269	£316.08
52-95-4268	4260EL Pro - SCSI External	£309	£363.08

PCI SCSI controller & audio recording software are also available.

**Yamaha**

4-speed write, 2-speed rewrite, 6-speed play  
Kits include drive, 1 x media, Easy CD software & Direct CD. All SCSI drives require a controller card.

52-93-4260	CRW4260T - Internal SCSI drive	£209	£245.58
52-93-4261	CRW4260TX - External SCSI drive	£239	£280.83
52-93-4262	CRW4260TVK - Internal SCSI kit	£205	£240.88
52-93-4264	CRW4260TVK - Extnl SCSI kit	£249	£292.58



**SureStore 7200e CD Re-Writer**

52-28-4381

**£245**



£287.88 inc. VAT

The HP SureStore CD Writer allows you to write, update and rewrite up to 650MB of data on one CD. It's a complete solution in a box, using industry-standard software to allow you to create photo, audio or simple data libraries at minimal cost. And with the combination of HP and SMC, you know you're getting not only the best-quality product, but the most dedicated service available in the market.

**CD-RECORDERS**

ex VAT inc VAT

**TraxData**

4-speed write, 12-speed play  
Traxdata SCSI drives include WinOnCD to GO for Windows 95, 3.1x and NT4.

52-95-4120	4120EL Pro - Internal SCSI drive	£209	£245.58
52-95-4128	4120EL Pro - External SCSI drive	£259	£304.33

**Accessories**

26-95-0002	PCI SCSI Controller	£44	£51.70
05-95-1010	Just Audio Recording Software	£29	£34.08

**Plasmon**

4-speed write, 8-speed play  
Plasmon SCSI drives have a 1Mb Cache and 175ms access time and are tray loading. Supplied with CD software for Windows 95, Windows 3.1x and NT3.51 & 4.

52-95-2120	CDR4801 - Internal drive	£239	£280.83
52-95-2125	CDR4801-S - External drive	£279	£327.83
52-95-2122	CDR4801-S - Internal drive and SCSI controller	£313	£367.78
52-95-2127	CDR480E-SI - External drive and SCSI controller	£355	£417.13

**Plextor**

4-speed write, 12-speed play  
Plextor SCSI drives have a 2Mb Cache and 190ms Access time. Supplied with software and a free caddy. Warranty is 1 year.

52-93-4120	PX-R412Ci - Internal drive	£249	£292.58
52-93-4125	PX-R412Ce - External drive	£265	£311.38

**Easy CD Creator™ Deluxe Version 3.5**

01-91-2445

**£55**

£64.63 inc. VAT

**NOW YOU CAN :**

- > Store your photographs & video
  - > Save your presentations & graphics
  - > Back up your important files to CD
  - > Duplicate CD's with CD Copier
- Write your own CD's with CD-Recordable (CD-R) and CD-Writable (CD-RW) players. Optimized for Windows 95 and NT v.4, featuring easy to use CD Creation software, enhanced CD Spin Doctor, Picture CD Creator, PhotoRelay, Video CD Creator, Sound Editor and Session Selector software. Supplied with audio cable.



**PRODUCT LINK**

**Media : see Page 23**

**TRAXDATA**



From now until 31st December 1998, vouchers will be included with every Traxdata product purchased (including media) with the chance to win a Ferrari F355 in a draw at the end of the period.

(NOTE : no purchase necessary)

**Traxdata Just Audio Recording Studio**

52-95-1010

**£29**

£34.08 inc. VAT



Just Audio Recording Studio allows even the novice CD-R user to create professional Audio CDs with complete ease.

- Record vinyl to CD directly from your hi-fi
- De-crackler and de-noiser to remove unwanted distracting noises
- Booklet label and inlay card editor
- Recording open sessions
- Allows you to make your own favourite CD compilations

**CDR4120 Pro Series**

Internal 52-95-4120

**£209**

£245.58 inc. VAT

External 52-95-4128

**£259**

£304.33 inc. VAT



The Traxdata CDR4120 PRO is the world's fastest 4x Record, 12x Playback CD recorders.

- High speed CD ROM read capability
- Software included enabling you to record up to 1.2GB on a single 650MB CD.
- Fast access and low CPU utilisation
- Supporting packet, disk at once and track at once recording modes
- Modes for Internal, external, SCSI and Macintosh connection.



**CD-RECORDERS, RE-WRITERS & TOWERS**

For SMC's unique guarantee : see page 2



## Why do I need to back up ?

For many people, making sure that their data is safe only ever becomes important when the data isn't there any more ! Imagine how many hours it would take to re-install software, set up all your applications as you had them before and then re-type all your work!

At SMC, we offer every kind of option, from parallel port devices which plug into your printer port to advanced SCSI DAT and Autoloader equipment, supporting from a basic 400Mb right through to a massive 144Gb.

Call us now for the solution to fit your requirements.

BACKUP : TAPE, DAT & DLT DRIVES

## DAT DRIVES

ex VAT inc VAT

### Internal drives

#### 2Gb : 11Mb/min

Tape type (see Page 23) - B1		
42-28-0120	HP DAT C1534	£259 £304.33
42-13-0200	Seagate 4320	£339 £398.33
42-71-0020	Sony SDT-2000E	£329 £386.58

#### 4Gb : 22Mb/min

Tape type (see page 23) - B1		
42-28-0130	HP DAT C1536	£279 £327.83
42-28-2050	HP SureStore 5000	£319 £374.83
42-13-0400	Seagate 4324	£355 £417.13

#### 5Gb : 22Mb/min

Tape type (see page 23) - B1 or B2		
42-71-0040	Sony SDT-5200	£359 £421.83

#### 4 - 8Gb : 44Mb/min

Tape type (see page 23) - B1 or B2		
42-28-0140	HP DAT C1599A	£429 £504.08
42-28-2067	HP SureStore DAT8i	£499 £586.33
42-84-4000	Wangdat 3400DX	£429 £504.08
42-13-0800	Seagate 4326	£445 £522.88
42-71-0090	Sony SDT-5000 (22Mb/min)	£419 £492.33
42-71-0080	Sony SDT-7000 QUAD	£429 £504.08

#### 12 - 24 GB : 44Mb/min

Tape type (see page 23) - B1, B2 or B3		
42-28-0240	HP DAT C1554A	£579 £680.33
42-28-2070	HP SureStore DAT24i DDS-3	£699 £821.33
42-71-0120	Sony SDT-9000 (22Mb/min)	£569 £668.58

#### 64 GB Autoloaders

Tape type (see page 23) - B1 or B2		
42-71-0320	Sony TSL-7000 (22Mb/min)	£1167 £1371.23

#### 72 - 144 GB Autoloaders

Tape type (see page 23) - B1, B2 or B3		
42-28-7144	HP DAT C5648A DDS-3 (6 tapes)	£1599 £1878.83

### External Drives

#### 2GB : 11Mb/min

Tape type (see Page 23) - B1		
42-28-0125	HP DAT C1534-X	£333 £391.28
42-13-0205	Seagate 4350	£415 £487.63

#### 4GB : 22Mb/min

Tape type (see page 23) - B1		
42-28-0135	HP DAT C1536-X	£349 £410.08
42-28-2055	HP SureStore 5000-X	£399 £468.83
42-84-2005	Wangdat 3200-X	£499 £586.33
42-13-0405	Seagate 4354	£419 £492.33

#### 4 - 8GB : 44Mb/min

Tape type (see page 23) - B1 or B2		
42-28-0145	HP DAT C1599A-X	£499 £586.33
42-28-2069	HP SureStore DAT8e	£559 £656.83
42-84-4005	Wangdat 3400DX-X	£555 £652.13
42-13-0805	Seagate 4356	£545 £640.38
42-71-0095	Sony SDT-5000/X (22Mb/min)	£519 £609.83

#### 12 - 24GB : 44Mb/min

Tape type (see page 23) - B1, B2 or B3		
42-28-2073	HP SureStore DAT24e DDS-3	£759 £891.83
42-84-9005	Wangdat TS3900e 12-24Gb, DDS-3 £725	£851.88

#### 64GB Autoloaders

Tape type (see page 23) - B1 or B2		
42-71-0325	Sony TSL-7000 (22Mb/min)	£1249 £1467.58

#### 72 - 144GB Autoloaders

Tape type (see page 23) - B1, B2 or B3		
42-28-2144	HP SureStore DAT24X6e DDS-3 (6 tapes)	£1829 £2149.08

## AIT DRIVES

The latest evolution in backup technology with features like memory in cartridge media and self-cleaning heads - backing up your mission-critical files has never been quicker or easier.

ex VAT inc VAT

### AIT - Advanced Intelligent Tape

Tape type (see Page 23) - F3		
48-13-2500	Int 50GB AIT Drive, SCSI 2	£1825 £2144.38
48-13-6500	Ext 50GB AIT Drive, SCSI 2	£2049 £2407.58

## DLT DRIVES

DLT technology offers high performance with exceptional reliability for backup operations involving the new generation of high end servers & workstations.

Fast backup speeds are combined with advanced error detection to give complete peace of mind.

ex VAT inc VAT

### Hewlett Packard SureStore

Tape type (see Page 23) - F2		
42-28-1579	DLT40e 40Gb External	£1963 £2306.53
42-28-5658	DLT70e 70Gb External	£4199 £4933.83

## TAPE DRIVES

ex VAT inc VAT

### HP Colorado Travan

#### 1.6 - 3.2 GB - 9.5MB/min

Tape type (see Page 23) - A3		
48-10-2000	T3000 Internal	£99 £116.63

#### 2.5-5.0GB

Tape type (see Page 23) - A5		
48-10-2505	HPC5GB/ATAPI EIDE Internal	£117 £137.48
48-10-2509	HPC5GB/PP P/Port	£155 £182.13

#### 4-8 GB

48-10-4805	HPC8GB/ATAPI EIDE Internal	£159 £186.83
48-10-4809	HPC8GB/PP P/Port External	£179 £210.33
42-28-8000	HP T41 Surestore Tape SCSI Internal	£209 £245.58
48-28-8005	HP T4E Surestore Tape SCSI External	£264 £310.20

### Iomega Ditto

#### Ditto 2000 2GB, 19MB/min

Tape type (see Page 23) - E1		
46-35-2000	Internal Drive	£59 £69.33

#### Ditto Max Pro 3-10GB, 36MB/min

Tape type (see Page 23) - E2, E3, E4 OR E5		
46-35-3010	Internal Drive	£139 £163.33
46-35-3015	Parallel Port Drive	£169 £198.58

#### ISA Controller

26-35-0030	DITTO-DASH	£19 £22.33
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### Seagate

#### 4GB Hard Drive interface - 54MB/min

Tape type (see Page 23) - C7 & A4		
48-13-8000	TST8000R-A EIDE Internal	£159 £186.83
48-13-8005	TST8000R-S SCSI Internal	£175 £205.63
48-13-8015	TST8000ES-S SCSI External	£265 £311.38

## TAPE SUPPORT PACKS

ex VAT inc VAT

### Hewlett Packard

99-28-9461	H5461A - SureStore Tape T41 DAT 8	£35 £41.13
99-28-9462	H5462A - SureStore 2000/5000, DAT 8	£47 £55.23
99-28-9464	H5465A - SureStore 6000	£66 £77.55
99-28-9471	H5471A - SureStore 12000	£118 £138.65
99-28-9475	H5475A - SureStore Tape 30e DLT	£140 £164.50
99-28-9485	H5485A - SureStore Tape 70e DLT	£299 £351.33
99-28-9511	H5511A - SureStore Tape 40e DLT	£192 £225.60

## PRODUCT LINK

### Backup Software : Page 9



### Hewlett Packard

#### Intelligent data storage solutions

Whatever the size of your business, however skilled the IT user, HP has a system that will suit your needs.

### HP Colorado 5GB & 5GB External

Full-system protection for desktop and mobile PCs

The HP Colorado 5GB has changed the face of desktop and mobile PC backup. This is the high-performance, high-capacity solution for customers who want to keep costs down, providing full-system protection and maximising price/performance.

- > Full-system protection
- > High performance at a competitive price
- > Capacity growth
- > Easy installation
- > HP service and support



48-10-2505 **£117** (£137.48 Inc.VAT)  
48-10-2509 **£155** (£182.13 Inc.VAT)

### HP SureStore T41/e

Cost-effective backup with a complete software solution for entry-level LANs

For small-business customers who want an affordable, easy-to-use backup system for their entry-level network, this is a complete solution at an affordable price.

- > Complete solution
- > Affordable, high-speed network backup
- > Full system protection for desktop PCs
- > Industry-leading reliability
- > HP service and support



48-28-8000 **£205** (£240.88 inc.VAT)  
48-28-8005 **£264** (£310.20 Inc.VAT)

### HP SureStore DLT 40e & 70e External

High-performance backup for high-end servers

Customers needing to protect mission-critical data will want the best solution money can buy. The HP SureStore DLT40 and DLT70 will meet their demanding performance requirements with the highest levels of reliability and data integrity.

- > Greater flexibility
- > Industry-leading performance and capacity
- > Industry-leading reliability
- > HP service and support



DLT 70e (70GB capacity) 42-28-5658 **£4199** (£4933.83 Inc.VAT)  
DLT 40e (40GB capacity) 42-28-1579 **£1963** (£2306.53 Inc.VAT)

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**Midlands - 0800 597 6 333**

**North - 0800 597 7 333**

**Scotland - 0800 597 8 333**

**FAX : 01753 524443**

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**THE BEST YOU'LL GET**

**REMOVABLE MEDIA**

	ex VAT	inc VAT	ex VAT	inc VAT	ex VAT	inc VAT
	Qty 1-4		Qty 5-19		Qty 20+	
95-35-0101	£8	£9.40	£8	£9.40	£7	£8.23
95-35-0106	£39	£45.83	£38	£44.65	£37	£43.48
95-35-0110	£79	£92.83	£74	£86.95	£72	£84.60
95-35-0120	£125	£146.88	£124	£145.70	£121	£142.18
95-35-1001	£55	£64.63	£55	£64.63	£52	£61.10
95-35-2001	£65	£76.38	£60	£70.50	£58	£68.15
95-73-5088	£28	£32.90	£25	£29.38	£23	£27.03
95-73-5200	£40	£47.00	£37	£43.48	£35	£41.13
95-73-1000	£28	£32.90	£23	£27.03	£21	£24.68
95-73-1500	£51	£59.93	£43	£50.53	£40	£47.00



**CD-ROM & OPTICAL MEDIA**

CD-ROM	ex VAT	inc VAT	ex VAT	inc VAT	ex VAT	inc VAT
	Qty 1-4		Qty 5-19		Qty 20+	
95-97-7174	£4	£4.70	£2	£2.35	£1	£1.18
95-97-0700	£5	£5.88	£3	£3.53	£2	£2.35
95-97-0774	£15	£17.63	£11	£12.93	£9	£10.58
95-97-4403	£8	£9.40	£6	£7.05	£5	£5.88
95-97-4404	£47	£55.23	£39	£45.83	£35	£41.13
95-97-5274	£8	£9.40	£7	£8.23	£6	£7.05
95-97-5174	£7	£8.23	£6	£7.05	£5	£5.88
95-97-5074	£7	£8.23	£6	£7.05	£5	£5.88
95-97-0874	£11	£12.93	£10	£11.75	£9	£10.58
Optical						
95-97-0128	£10	£11.75	£8	£9.40	£7	£8.23
95-97-0230	£8	£9.40	£7	£8.23	£6	£7.05
95-97-0640	£18	£21.15	£17	£19.98	£16	£18.80
95-97-0653	£18	£21.15	£16	£18.80	£14	£16.45
95-97-1300	£28	£32.90	£24	£28.20	£22	£25.85
95-97-1500	£82	£96.35	£77	£90.48	£72	£84.60



**FLOPPY/SUPER FLOPPY DISKS**

	ex VAT	inc VAT	ex VAT	inc VAT	ex VAT	inc VAT
	Qty 1-4		Qty 5-19		Qty 20+	
95-93-0140	£5	£5.88	£4	£4.70	£3	£3.53
95-71-0144	£7	£8.23	£5	£8.23	£4	£4.70
95-95-0144	£7	£8.23	£5	£9.40	£4	£4.70
95-95-1200	£12	£14.10	£11	£12.93	£10	£11.75



**TAPE MEDIA**

Tape Type	ex VAT	inc VAT	ex VAT	inc VAT	ex VAT	inc VAT
	Qty 1-4		Qty 5-19		Qty 20+	
95-95-0805	£14	£16.45	£13	£15.28	£12	£14.10
95-95-3405	£17	£19.98	£15	£17.63	£14	£16.45
95-95-8005	£22	£25.85	£20	£23.50	£18	£21.15
95-95-2505	£19	£22.33	£18	£21.15	£17	£19.98
95-95-9409	£5	£5.88	£4	£4.70	£3	£3.53
95-95-9412	£10	£11.75	£8	£9.40	£7	£8.23
95-95-9417	£18	£21.15	£18	£21.15	£16	£18.80
95-95-0345	£12	£14.10	£10	£11.75	£9	£10.58
95-95-4005	£20	£23.50	£17	£19.98	£15	£17.63
95-95-0520	£13	£15.28	£10	£11.75	£9	£10.58
95-35-2002	£12	£14.10	£11	£12.93	£10	£11.75
95-35-2003	£14	£16.45	£12	£14.10	£11	£12.93
95-35-2005	£17	£19.98	£16	£18.80	£15	£17.63
95-35-2007	£19	£22.33	£17	£19.98	£16	£18.80
95-35-2010	£23	£27.03	£20	£23.50	£19	£22.33
95-28-0514	£35	£41.13	£33	£38.78	£32	£37.60
95-64-1530	£29	£34.08	£27	£31.73	£25	£29.38
95-28-5141	£69	£81.08	£64	£75.20	£61	£71.68
95-64-3570	£59	£69.33	£54	£63.45	£50	£58.75
95-13-0170	£74	£86.95	£69	£81.08	£65	£76.38
95-95-9130	£10	£11.75	£8	£9.40	£7	£8.23



**NOTES :** Tape type codes (eg A1) in column 2 refer to codes given for Tape/DAT drives on page 22. Please note that we also supply DC2120, XL, DC3000XL, DC6250 and DC9100 media - call for details.

**MEDIA SELECTOR**

For SMC's unique guarantee : see page 2

**SMC Direct is a trading name of :  
SMC Computers Plc**



**253-257 Farnham Rd Slough Berkshire SL2 1HA**

**ALL MAJOR CREDIT CARDS ACCEPTED**

Whether it's a cable, a fitting kit, a drive box to house an external device, a keyboard or a mouse, you can be sure that the product you buy from SMC will be of the highest quality. Not only are all our products covered by a full guarantee, but our dedicated Customer Support team handle any problems so that you can be assured of the best service available.

KEYBOARDS, MICE, CABLES, DRIVE BOXES & KITS

**DATA CABLES**

ex VAT inc VAT

**Internal Cables**



Note: Cable lengths may vary - lengths given are nominal sizes.

**SCSI - 50 pin**

75-95-1501	Single drive, 19 inches	£6	£7.05
75-95-1502	Dual drive, 38 inches	£9	£10.58
75-95-1503	Triple drive, 38 inches	£15	£17.63
75-95-0500	Custom made to order, as required.		

Prices from: £10 £11.75

**Wide SCSI - 68 pin**

75-95-1703	Triple drive, for Wide SCSI	£20	£23.50
75-95-1705	5 drives, for Wide SCSI	£25	£29.38

**IDE - 40 pin**

75-95-1401	Single Drive - 12.5"	£6	£7.05
75-95-1402	Dual Drive - 18" (4" gap)	£9	£10.58
75-95-1403	Dual Drive - 20" (9" gap)	£15	£17.63
75-95-0400	Custom made, up to 18" (Max of 2 drives/cable) From:	£10	£11.75

**External Cables**



**SCSI**

All cables are a nominal 1 metre in length unless specified otherwise.

75-95-3521	25-pin D to 50-pin Centronics	£9	£10.58
75-95-3719	25-pin D to 68-pin Wide SCSI	£28	£32.90
75-95-3551	50-pin Centronics to 50-pin Centronics	£10	£11.75
75-95-3552	50-pin Centronics to 50-pin Centronics - 2 metres	£12	£14.10
75-95-3571	50-pin Micro D to 50-pin Centronics	£17	£19.98
75-95-3572	50-pin Micro D to 50-pin Centronics - 2 metres	£19	£22.33
75-95-3721	50-pin Micro D to 25-pin D	£18	£21.15
75-95-3771	50-pin Micro D to 50-pin Micro D	£19	£22.33
75-95-3661	Wide SCSI to Wide SCSI	£26	£30.55

**SCSI Adaptors**

75-95-9019	SCA to 50-pin SCSI adaptor	£18	£21.15
75-95-9021	SCA to 68-pin SCSI adaptor	£22	£25.85

**Sound Cables**

75-75-0404	ATAPI to ATAPI, 4-pin for EIDE CD-ROMs	£6	£7.05
75-57-0570	Panasonic Cable for SCSI CD-ROM only (not IDE)	£8	£9.40
75-75-0751	Toshiba Cable, 3-4 for 3xxx series	£8	£9.40
75-75-0757	Toshiba Cable, 4-4 for 4xxx series	£8	£9.40
75-75-0753	Toshiba Cable, 4-4 for 5xxx series	£8	£9.40

**Power Cables**

75-95-9357	Power Splitter 'Y' Cable - converts single drive power lead to double	£3	£3.53
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**Printer (Parallel Port) Cables**

75-95-6002	1.8 metres	£5	£5.88
75-95-6003	3.0 metres	£7	£8.23
75-95-6005	5.0 metres	£9	£10.58

**NOTE:** All cables are usually ex-stock, but orders for custom-made Internal Cables (see above) may sometimes require an extra day to process.

**PARALLEL PORT DRIVE BOXES**

ex VAT inc VAT

73-97-1183 For IDE / EIDE / Ultra-IDE drives £65 £76.38  
This is the ideal solution for turning a standard Hard Drive into a portable device.

It is easy to install and includes software to work with any size drive, which will then work at the speed of your parallel port.

**KEYBOARDS & MICE**

ex VAT inc VAT

**Keyboards**

**Microsoft Natural Elite Keyboard**  
82-50-0012

**£29**

£34.08 inc. VAT

To design a more comfortable keyboard, Microsoft conducted extensive ergonomic and usability research. The split, gently sloped shape, built-in palm rest and adjustable legs encourage a natural hand position and enable you to type comfortably in a relaxed posture.

82-50-3505	For Windows 95/98 (105 key) 5-pin (AT)	£10	£11.75
82-50-3509	For Windows 95/98 (105 key) 6-pin Din (PS/2)	£12	£14.10
82-50-0012	MS Natural Elite (105 key) 6-pin Din & USB	£29	£34.08
82-91-3595	Cherry G81-3000 Lamb (105 key) 5-pin AT, soft touch	£25	£29.38
82-91-3597	Cherry G80-3000HFM AT (102 key) 5-pin AT, click	£39	£45.83
82-91-3599	Cherry G80-3000HPM (105 key) 6-pin Din (PS/2), click	£43	£50.53

**Mice**

**Microsoft Wheel Mouse**  
82-50-0004

**£15**

£17.63 inc. VAT

Just plug Wheel Mouse into a serial or PS/2 port and it's ready to use. Install the enclosed IntelliPoint software and you can take advantage of the wheel to provide a fast, convenient way of scrolling through your documents.

82-53-3153	MS compatible mouse 9 pin serial, 2 buttons	£9	£10.58
82-50-0003	Microsoft basic mouse 9 pin serial & PS/2	£12	£14.10
82-50-0004	Microsoft Wheel Mouse 2 buttons/wheel - 9 pin serial & PS/2	£15	£17.63
82-50-0625	Microsoft Intellimouse Trackball 2 buttons/wheel - 9 pin serial & PS/2	£32	£37.60
82-50-0610	Microsoft Intellimouse USB USB connector (requires Windows 98)	£26	£30.55
82-50-0615	Microsoft Intellimouse Pro 9 pin serial & PS/2	£35	£41.13
82-50-3192	Microsoft Home 9 pin serial, 2 buttons	£15	£17.63
82-50-0002	Microsoft V.2 - 9 pin serial & PS/2	£25	£29.38
82-50-0605	Microsoft Intellimouse 9 pin serial & PS/2	£25	£29.38
82-97-1511	Pilot Mouse New shape 9-pin serial, 3 buttons	£15	£17.63
82-97-1513	Pilot Mouse New shape 6-pin DIN, 3 buttons	£15	£17.63
82-97-0035	Pilot Mouse Plus 3 buttons/wheel 9 pin serial & PS/2	£15	£17.63
82-97-0021	Mouseman 4 buttons 9-pin serial & PS/2	£24	£28.20
82-97-1396	Trackman Marble 3 buttons, marble infra-red technology	£29	£34.08

**Microsoft Intellimouse Pro**  
82-50-0615

**£35**

£41.13 inc. VAT

Ergonomic design includes a shape to support your hand and fingers, a slope which aligns your wrist, and easy-grip rubber soles. Add to that wheel features including zoom, scroll and auto-scroll, and you have a mouse that is both comfortable and an aid to faster, easier work.

**EXTERNAL DRIVE BOXES**

ex VAT inc VAT



**Centronics**

73-97-3113	1 x 3.5"HH, 40 watt	£65	£76.38
73-97-3213	2 x 3.5"HH, 65 watt	£99	£116.33
73-97-3413	4 x 3.5"HH, 2 x 65 watt	£179	£210.33
73-97-3114	1 x 3.5"HH, 30 watt	£69	£81.08
73-97-6114	1 x 5.25"HH, 65 watt	£94	£110.45
73-95-9412	2 x 5.25"HH, Conversion Kit for 73-97-6114	£14	£16.45
73-97-5114	1 x 5.25"HH, 30 watt	£65	£76.38
73-97-6215	2 x 5.25"FH, 2 x 65 watt	£175	£205.63
73-95-9524	4 x 5.25"HH, Conversion Kit for 73-97-6215	£24	£28.20
73-97-6315	3 x 5.25"FH, 3 x 65 watt	£239	£280.83
73-95-9536	6 x 5.25"HH, Conversion Kit for 73-97-6315	£34	£39.95
73-97-6415	4 x 5.25"FH, 4 x 65 watt	£345	£405.38

**Micro-D**

73-97-3133	1 x 3.5"HH, 40 watt	£79	£92.83
73-97-3233	2 x 3.5"HH, 65 watt	£115	£135.13
73-97-3433	4 x 3.5"HH, 2 x 65 watt	£189	£222.08
73-97-5134	1 x 5.25"HH, 30 watt	£85	£99.88
73-97-6144	2 x 5.25"HH, 65 watt	£115	£135.13
73-97-6235	2 x 5.25"FH, 65 watt	£189	£222.08

**Fast-Wide**

73-97-3152	1 x 3.5"HH, 40 watt	£89	£104.58
73-97-3252	2 x 3.5"HH, 65 watt	£125	£146.88
73-97-3452	4 x 3.5"HH, 65 watt	£199	£233.83

**KEY:** HH=Half-Height (1 bay high) FH=Full-Height (2 bays high)  
Wide SCSI options are available on selected models: please call for details.

All boxes are TUV approved and come with a 3 year warranty.

**HARD DRIVE MOUNTING KITS**

ex VAT inc VAT

**Fitting Bracket kit**

This universal kit can be used to mount any 3.5" Hard Drive we sell into a 5.25" bay in virtually any standard PC case.  
(Note: not suitable for cases using special bays or slide rails.)

79-95-1135	DBHD - for 3.5" IDE or SCSI drive	£9	£10.58
79-95-1123	DBHD2.5 - for 2.5" drive (3.5" bay)	£18	£21.15

**Removable Caddies**

Removable Drive Caddies enable easy movement of data between sites. They are ideal for use where large volumes of data may need to be physically transferred, and also where the removal of data for security purposes is required.

The Removable Caddy consists of a 5.25" lockable docking bay which receives a sliding frame containing a 3.5" Hard Drive. All are complete kits with full installation instructions.

79-97-3102	IDE / EIDE / Ultra-IDE (40-pin) H/duty plastic frame	£25	£29.38
79-97-3502	SCSI (50-pin) - H/duty plastic frame	£35	£41.13
79-97-3504	SCSI (50-pin) - Metal frame	£59	£69.33
79-97-3506	Fast/Wide SCSI (68-pin) Metal frame	£79	£92.83
79-97-4001	SCA SCSI (68-pin ext, 80-pin int) for 1x 3.5" HH HDD	£99	£116.33
79-97-4003	SCA SCSI (68-pin ext, 80-pin int) for up to 3x 3.5" HDD's, all LP	£149	£175.08

**SALES FREEPHONES : South - 0800 597 5 333**

**Midlands - 0800 597 6 333**

**North - 0800 597 7 333**

**Scotland - 0800 597 8 333**

**FAX : 01753 524443**

**VISIT OUR WEBSITE AT:  
www.smcdirect.co.uk**



**SALES LINES OPEN: MONDAY TO FRIDAY : 8.30am - 6.30pm SATURDAY : 9am - 1pm**

**For Customer Care and Switchboard Hotlines see Page 2**

**SOUND CARDS**

ex VAT inc VAT



Creative Labs SoundBlaster cards are designed to take advantage of Intel Pentium technology & require EIDE/ATAPI CD-ROM support. All Creative Labs products sold by SMC are full retail versions containing all required documentation, drivers and software.

**SB16**

53-15-1639 **SB16 Value Plug 'n Play**  
16bit FM Stereo, CD quality audio  
MIDI/Joystick Interface, ISA £22 £25.85

**AWE-64**

**AWE-64 Upgrades**

A memory upgrade allows you to download more sound fonts onto your card.

Each memory module is supplied with SoundFont Gold on CD.  
19-15-6404 4Mb memory module £29 £34.08  
19-15-6408 8Mb memory module £49 £57.58

**PCI range**

53-15-7100 **SoundBlaster 128 PCI**  
128-voice, 4-speaker support  
for windows 95/98 £32 £37.60  
53-15-7150 **SoundBlaster Live PCI**  
Full environmental audio  
Software includes Unreal & Cubasis £102 £119.85  
53-15-7160 **SoundBlaster Live Value Edition**  
Environmental audio for the gamer  
complete with Unreal £50 £58.75

**New Product**  
53-15-7150  
**£102**  
(£119.85 inc. VAT)

**Sound Blaster Live PCI Sound Card**



53-19-2030 **Diamond Monster 3D Sound**  
Supports Microsoft Direct Sound  
for Window '95. Audio playback  
support for 4 speakers £65 £76.38  
53-19-2055 **Sonic Impact PCI**  
Next generation sound solution  
4-speaker support with 64-voice  
wavetable playback £24 £28.20



53-53-1000 **Orchid Nu-Sound PCI**  
Positional audio, accelerated under  
Direct X. For Windows 95/98 £35 £41.13



53-97-1000 **Sonic Storm PCI**  
3D positional system  
HiFi quality audio with software £29 £34.08

**JOYSTICKS**

ex VAT inc VAT



82-50-2010 **SideWinder pad**  
Digital Game Pad for Windows 95 only  
Daisy-chain up to 4 pads per PC £24 £28.20  
82-50-2050 **SideWinder USB**  
Connects via USB under Windows 98  
or a standard 15-pin joystick port £35 £41.13  
82-50-2070 **SideWinder Force Feedback Pro**  
Feel the force! The joystick actually  
shakes in your hand as you fire! £79 £92.83

**Push Reality Beyond Sight And Sound!**  
The Microsoft SideWinder Force Feedback Pro is a joystick that breaks new game play by introducing a new sensory experience to gaming - the sense of touch, or force - to the existing senses of sight and sound found in games. The SideWinder Force Feedback Pro will come bundled with two great titles.

**SideWinder Force Feedback Pro**  
82-50-2070  
**£79**  
(£92.83 inc. VAT)

82-50-2030 **Freestyle Pro GamePad**  
Available mid. October £39 £45.83  
82-50-2090 **Force Feedback Steering Wheel**  
Available mid. October £115 £135.13



82-91-2400 **PC Pro Joystick - 5 Fire buttons,**  
analogue, adjustable handle settings £19 £22.33  
82-91-2501 **PC Gamepad Pro**  
Digital 10-button gamepad £25 £29.38

**MULTIMEDIA KITS**

ex VAT inc VAT

59-15-S128 **Sound Blaster PCI-128 Discovery**  
5-speed DVD-ROM drive, PCI 128  
sound card, 4.1 Surround Sound  
Speakers & UNREAL: the game £107 £125.73

**This is the Market Leader in Multimedia Kits!**  
In addition to the SoundBlaster PCI 128 sound card, it contains the 5x DVD-ROM (the latest DVD technology, which also works like a standard CD-ROM drive, from Creative Labs) and 4.1 Surround Sound Speakers. It also comes complete with Windows 95/98 drivers and UNREAL, one of the most popular, recent PC games.

**PRODUCT LINK**

**CD-ROMs : see Page 20**  
**Memory : see Pages 10 - 13**

**SPEAKERS**

ex VAT inc VAT



57-15-0020 **CSW20 - 5 Watt RMS** £12 £14.10  
57-15-0050 **CSW50 - 11Watt RMS** £24 £28.20  
57-15-0100 **CSW100 (with Amplifier)**  
17Watt RMS £39 £45.83  
57-15-0200 **CSW200 (with Amplifier)**  
23Watt RMS £69 £81.08  
57-15-0350 **CSW350 (with Amplifier)**  
68Watt RMS £109 £128.08  
57-15-1000 **Creative 4-Point speakers**  
10Watt RMS Surround Sound £45 £52.88



57-93-3105 **LCS-1024 - 10 watt** £34 £39.95



57-93-7133 **M15 - 10 watt** £38 £44.65  
57-93-7135 **SS510 Sub Woofer for M15** £59 £69.33  
57-93-0515 **YST-MSV5 Sub Woofer** £42 £49.35  
57-93-5525 **YST-MSV5 Sub Woofer + Speakers** £55 £64.63  
57-93-7100 **YST-M100 - 20 watt 3D with tweeters** £83 £97.53



57-71-0050 **DR50/A - Headphones & Microphone,**  
ideal for sound cards and modems £35 £41.13



57-50-0080 **Digital Sound System 80 - USB,**  
Win98 only - available end October £129 £151.58

**Superb analogue sound, superior digital sound.**  
Now you can enjoy high-end, home audio elegance and power on your PC. Microsoft Digital Sound System 80 uses the latest digital technology to deliver rich, crisp and clean audio. It's the only complete multimedia PC-audio package that delivers earthshaking bass and distortion-free sound!



**Digital Sound System 80**  
57-50-0080  
**£129**  
£151.58 Inc. VAT

**SOUND CARDS, JOYSTICKS & SPEAKERS**

For SMC's unique guarantee : see page 2

**SMC Direct is a trading name of :  
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**ALL MAJOR CREDIT CARDS ACCEPTED**

**25**



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## What is AGP?

Designed by Intel, AGP stands for Accelerated Graphics Port.

AGP streamlines the flow of data between the processor, graphics accelerator and system memory, delivering a new level of rich media and graphics performance to the PC. For the home user, AGP supports improved texture rendering in 3D software, including games, entertainment, educational and digital imaging applications. Business users will see smooth performance in 3D applications from CAD programs to sophisticated data visualisation and web authoring tools.

AGP frees system resources with its high bandwidth and is supported in all new Intel-based BX chipsets (and older style LX) sold by SMC - See ASUS and Intel in the motherboards section.

## GRAPHICS, TV & VIDEO CARDS

GRAPHICS, TV & VIDEO CARDS



### Diamond Stealth 3D series

**G460 - Second generation AGP graphics**

The G460 is based on the innovative Intel I740 chipset

64-19-4600 **8MB SGRAM** £49 £57.58

**Stealth 220 PCI**

The 220 PCI is based on Rendition V2100

64-19-2200 **4MB SGRAM** £39 £45.83

### Diamond Speedstar 3D Series

The SiS 6326 chipset allows Diamond the flexibility to offer two flavours of this card. The Speedstar 3D has 2D and 3D capabilities along with MPEG-1 video acceleration. The Speedstar DVD goes even further to include TV-out functionality and full motion MPEG-2 DVD. 1280x1024 (64k colours) @ 75Hz. 1280x1024 (16.7m colours) @ 75Hz. 175MHz RAMDAC. 100MHz SGRAM. **AGP only.**

64-19-0131 **Speedstar 3D - 8Mb SGRAM** £32 £37.60

64-19-0132 **Speedstar DVD - 8Mb SGRAM** £37 £43.48

### Diamond FireGL Series

Premium performance 2D/3D professional graphics.

**1000Pro Series**

Based on 3DLabs Permedia 2 graphics chip and rendering engine.

64-19-1108 **8Mb SGRAM - AGP** £89 £104.58

### Diamond Viper Series

The NVIDIA RIVA chipset gives true 128-bit power for incredible 2D, 3D & video under Windows 95 or NT. Hardware-accelerated OpenGL with multiple monitor support for multiple cards.

1600x1200 (64k colours), 1152x864 (16.7m colours) at 85Hz. 230MHz RAMDAC, 100MHz SGRAM.

64-19-2704 **V330 AGP - 4Mb SGRAM - AGP** £49 £57.58

64-19-0552 **V550 PCI - 16Mb SGRAM** £119 £139.83

64-19-0554 **V550 AGP - 16Mb SGRAM** £119 £139.83

### Diamond Monster

3D add-on card which works in conjunction with your existing card.

64-19-8001 **Voodoo 3D 4MB PCI EDO-RAM** £69 £81.08

64-19-0100 **Voodoo 3DII 8MB PCI (no games)** £95 £111.63

64-19-0112 **Voodoo 3DIII 12MB PCI (no games)** £105 £123.38

**Monster Sport** - includes Formula 1 97 and World Cup 98 by EA.

64-19-0208 **Voodoo 3DII 8MB PCI** £109 £128.08

64-19-0212 **Voodoo 3DIII 12MB PCI** £139 £163.33



### Monster Sport 3D II - 8Mb

The **Monster Sport** is part of the family of 3D add-on cards that benefits from the latest Voodoo2 chipset. This product has been specifically packaged to offer that extra touch to the Sporting fan. World Cup98 and Formula1 97 ship with the card and both games fully support 3Dfx to it's maximum. The package is available as either an 8Mb or 12Mb solution - you can even add two cards into the same PC to achieve resolutions of up to 1024x768 (known as MegaMonster).

64-19-0208 **£109** £128.08 Inc.VAT



### Matrox Millennium II

Optimized 64-bit MGA-2164W dual-ported processor, 250MHz flicher-free RAMDAC.

64-95-6004 **4Mb WRAM (Max 16Mb) for AGP** £109 £128.08

**Matrox Millennium II WRAM PCI/AGP upgrades**

64-95-0042 **4Mb upgrade** £55 £64.63

64-95-0082 **8Mb upgrade** £105 £123.38

64-95-0122 **12Mb upgrade (for 4Mb board only)** £149 £175.08

**Matrox Millennium (not MII) MPEG**

64-95-1036 **Media XL-MPEG board** £189 £222.08

### Matrox Millennium G200

Blistering 2D and 3D - 2x AGP utilising 2 64bit channels. 250MHz.

64-95-0228 **8Mb (Max 16Mb) OEM version** £79 £92.83

64-95-0208 **8Mb (Max 16Mb) for AGP** £85 £99.88

64-95-0210 **8MB Marvel** £145 £170.38

64-95-8200 **8MB SGRAM upgrade for above** £49 £57.58

### Matrox Productiva G100

Excellent entry 2D AGP graphics performance. 230MHz.

64-95-5008 **8Mb for AGP** £52 £61.10

### Matrox Mystique

**Mystique 220 Rainbow Runner**

This is a plug-in 'daughter board' video upgrade with sound being captured through your normal sound card. Video output is via PC to PAL and there is an easy-to-use on-screen PC-VCR remote. Hardware MPEG1 on board enables video capture/playback, with both live and still frame capture. High-quality video editing, conferencing and recording are also included.

64-95-1199 **For 2Mb or 4Mb (original) Mystique** £105 £123.38

**Mystique G200**

Based on the same engine as the Millennium G200, with SDRAM as standard to provide a lower-cost solution. The G200 also comes with PC to TV output along with a 230MHz RAMDAC and is upgradable to 16MB, DVD and Rainbow Runner technology.

64-95-0218 **8MB SDRAM AGP 2x - retail version** £95 £111.63

64-95-8201 **8MB upgrade for above** £30 £35.25

### Matrox m3D

Based on the PowerVR PCX2 processor, this card balances price with incredible 3D gaming. Works in conjunction with your existing card.

64-95-0403 **4Mb SDRAM, includes games** £29 £34.08



### Matrox m3D

The **Matrox m3D** takes you to the outer limits of 3D gaming. Combining high-speed 30 frames/second game play with support for up to 1024x768 resolution, Matrox m3D gives you the edge, making it the most cost-effective, 3D upgrade (add-on) for your PC. MDK and Ultimate Race are bundled along with 20 game demos allowing you to experience how game designers would like you to see inside their world of imagination and creativity.

64-95-0403 **£29** £34.08 Inc.VAT



### Orchid Righteous 3D

3D add-on card which works in conjunction with your existing card.

64-53-2030 **Voodoo3D 4MB PCI EDO-RAM** £62 £72.85

64-53-2008 **Voodoo 3DII 8MB PCI** £115 £135.13

64-53-2012 **Voodoo 3DII 12MB PCI** £149 £175.08



### Hauppauge!

### Hauppauge Win TV Cards

62-95-0105 **Win TV PCI - Plug'n'Play card**

125 channel £67 £78.73

62-95-0215 **Win TV Radio - as above with**

additional radio tuner £89 £104.58

**IMPORTANT** : for Windows 95 only.

The Win TV card enables frame grabbing & video clip capture, and allows you to capture and display live video in a fully movable and sizable window. It captures live video at 320 x 240 up to 15-25 FPS. It supports resolutions up to 1600 x 1200 full colour display (Direct Draw drivers required).



### Graphics Blaster Exxtreme

64-15-0423 **4Mb SGRAM : 230MHz RAMDAC** £59 £69.33

### Graphics Blaster Riva TNT

64-15-0410 **16Mb AGP : 250MHz RAMDAC** £86 £101.05

### 3D Blaster Voodoo2

3D add-on card which works in conjunction with your existing card.

64-15-0212 **12Mb - PCI with 4 games (see below)** £72 £84.60

### 3D Blaster Banshee

64-15-0430 **16Mb - PCI : 250MHz RAMDAC** £69 £81.08



### 3D Blaster Voodoo2

The **3D Blaster Voodoo2** brings a new dawn to 3D graphics and intense gaming. The card is based on the newest chipset from 3Dfx Interactive, and comes with 4 exciting "full version" games : G.Police, Incoming, Actua Soccer 2 and Ultimate Race.

Designed for PC gamers who have a passion for exceptional performance, the 3D Blaster Voodoo2 delivers more than three times the speed found in equivalent Voodoo Graphics cards.

64-15-0212 **£72** £84.60 Inc.VAT

**SALES FREEPHONES : South - 0800 597 5 333**

**Midlands - 0800 597 6 333**

**North - 0800 597 7 333**

**Scotland - 0800 597 8 333**

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For Customer Care and Switchboard Hotlines see Page 2

**GRAPHICS CARDS**



ex VAT inc VAT

**3D Graphics Cards - PCI**

**OEM packs**

64-97-0302	Charger - 2Mb	£21	£24.68
64-97-0304	Charger - 4Mb	£26	£30.55
64-97-0604	XPERT @ Play - TV Out, 4Mb	£49	£57.58
64-97-0608	XPERT @ Play - TV Out, 8Mb	£65	£76.38
64-97-0504	XPERT @ Work - 4Mb	£39	£45.83
64-97-0508	XPERT @ Work - 8Mb	£55	£64.63
64-97-0704	All-in-Wonder Pro - 4Mb	£94	£110.45
64-97-0708	All-in-Wonder Pro - 8Mb	£109	£128.08
64-97-1408	TV TUNER - fits all cards	£47	£55.23

**Retail packs with 3D software titles**

64-97-1604	XPERT @ Play TV Out, 4Mb	£69	£81.08
64-97-1608	XPERT @ Play TV Out, 8Mb	£85	£99.88
64-97-1504	XPERT @ Work - 4Mb	£59	£69.33
64-97-1508	XPERT @ Work - 8Mb	£75	£88.13
64-97-1714	All-in-Wonder Pro - 4Mb	£105	£123.38
64-97-1718	All-in-Wonder Pro - 8Mb	£121	£142.18

**3D Graphics Cards - AGP**

**OEM packs**

64-97-0614	XPERT @ Play - TV Out, 4Mb	£53	£62.28
64-97-0618	XPERT @ Play - TV Out, 8Mb	£69	£81.08
64-97-0514	XPERT @ Work - 4Mb	£43	£50.53
64-97-0518	XPERT @ Work - 8Mb	£59	£69.33
64-97-9808	XPERT 98 - 8Mb	£39	£45.83
64-97-0714	All-in-Wonder Pro - 4Mb	£98	£115.15
64-97-0718	All-in-Wonder Pro - 8Mb	£113	£132.78

**Retail packs with 3D software titles**

64-97-9818	XPERT 98 - 8Mb	£53	£62.28
64-97-1704	All-in-Wonder Pro - 4Mb	£109	£128.08
64-97-1708	All-in-Wonder Pro - 8Mb	£124	£145.70

We can also supply 4Mb SGRAM upgrades for ATI graphics cards.

**GRAPHICS CARDS**



ex VAT inc VAT

**Express 3D**

64-31-0204	4Mb AGP	£45	£52.88
64-31-0208	8Mb AGP	£55	£64.63



**Grafixstar**

64-97-1411	410 - S3 Trio64V2, 1Mb EDO DRAM	£22	£25.85
64-97-0242	560 PCI - 4Mb	£35	£41.13
64-97-0249	560 AGP - 4Mb	£35	£41.13
64-97-0261	600 Pro PCI - 2Mb	£49	£57.58

**Apocalypse**

**3Dx - 4MB SDRAM PCI**

64-97-0287	Value Pack	£36	£42.30
64-97-0213	Retail Pack	£51	£59.93

**5D - 6MB SDRAM PCI**

64-97-0265	5D - ET6100, 128-bit processor	£59	£69.33
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**Apocalypse 5D 6Mb version**  
64-97-0265  
**£59** (£69.33 inc VAT)

With SDRAM texture memory and the NEC PCX1/PowerVR 3D processor, the Apocalypse 5D has 400% more bandwidth than 64-bit DRAM cards, delivering stunning 3D realism and lightning fast 2D graphics. It runs MS DirectX, Windows 95 Direct3D and also comes with five of the best 3D games.

**INTERNET VIDEO**

ex VAT inc VAT

**Creative Labs**

64-15-0162	WebCam 2 Requires Windows 95	£59	£69.33
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**Intel**

63-31-1000	Create & Share PCI With PCI capture card	£139	£163.33
63-31-1500	Create & Share USB With USB connector. Requires Windows98/95OSR2	£99	£116.33

**Pace**

63-91-0300	Pace PCI With PCI capture card	£69	£81.08
63-91-0100	Pace USB With USB connector. Requires Windows98/95OSR2	£69	£81.08

**LIVE VIDEO OVER THE INTERNET**

**Creative Labs Video Blaster WebCam**  
gives you everything you need to capture, create and communicate with live full colour video on the Internet. It's capable of live video capture with 16.7million colours, and supports AVI and e-mail.

Affordable and easy-to-use, it plugs into your printer port and works with your existing modem so you'll be up and running with live video from your own PC in minutes.

Now You See It.



**XPERT 128**

- 128-bit 3D graphics performance
- Brilliant 2D graphics
- Full-frame, full-screen MPEG-2/DVD playback without the need for additional hardware
- Full support for Direct 3D and OpenGL for all your favourite graphics intensive 3D games and applications
- 16MB of memory
- Support for ATI-TV, the add-on TV Tuner board



**XPERT 128** 64-97-9850  
**£79** £92.83 inc.VAT

**RAGE FURY**

- 32MB of memory for realistic gameplay with massive textures and high resolution
- Explosive 128-bit 3D gaming action!
- A new 128-bit graphics engine and 128-bit memory interface for incredibly fast 3D and 2D graphics performance
- Full OpenGL ICD, Direct 3D and DirectX 6.0 support for all your favourite 3D applications and games
- Built-in hardware DVD for full-frame, full-screen DVD playback



**RAGE FURY** 64-97-9900  
**£169** £199.58 inc.VAT

**XPERT 98**

- Incredible 3D Acceleration
- Powerful 2D Graphics
- Full AGP 2X card
- Windows 98 ready
- Full support for ATI-TV, the add-on TV Tuner card



**XPERT 98** 64-97-9818  
**£53** £62.28 inc.VAT

**All-In-Wonder Pro**

- Incredible 3D Acceleration
- Powerful 2D Graphics
- Advanced TV Tuner Functionality
- Bring video into your PC
- Connect TV to All-In-Wonder Pro
- Amazing video quality
- Full AGP 2X version available



**All-in-Wonder Pro**  
64-97-0714 4MB from **£98**  
£115.15inc.VAT  
64-97-0718 8MB from **£113**  
£132.78inc.VAT

**BEST VALUE 8MB 3D/2D VIDEO ACCELERATOR**

**THE ULTIMATE TV, VIDEO AND GRAPHICS MULTIMEDIA UPGRADE !**



ALL MAJOR CREDIT CARDS ACCEPTED

GRAPHICS CARDS & INTERNET VIDEO

For SMC's unique guarantee : see page 2



# SHOP AT SMC AND MAKE SURE OF A QUALITY CHRISTMAS!

## A quick guide to Monitor sizes

14" - Ideal for business workstation use (eg word processing, database, spreadsheet) and basic games.

15" - Better for applications involving more graphics such as Internet use and higher resolution games.

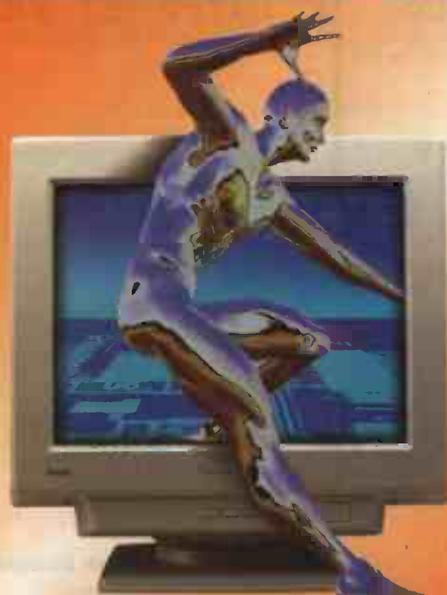
17" - Primarily graphics use such as 3D modelling.

21" - Intensive graphics use, including CAD and Desktop Publishing (including the production of this catalogue!)

Monitor screen sizes are traditionally specified in terms of the size of the glass Cathode Ray Tube (CRT), but viewable screen sizes will vary depending on how much of the CRT extends beyond the monitor casing.

LCD screen sizes are usually quoted as the actual visible size.

# MONITORS



## iiyama

a visible difference



iiyama have over 20 years experience in manufacturing monitors in Japan and across the world. Since the UK office has been established they have won 44 leading computer magazine awards for technical excellence, display quality and value for money - a unique achievement.

In turn, SMC have won iiyama's award to establish themselves as Premier Authorised Reseller for Service Excellence for the second successive year.

The current range extends from a high quality 15" FST Monitor all the way through to a professional series 21" FST Monitor. We can provide the iiyama Vision Master ProLite 36, a 14.1" TFT flat panel LCD, offering full colour at resolution of 1024x768!

Through a partnership between iiyama UK and MicroTouch UK, SMC are also able to provide a range of touchscreen monitors which are based on the popular Vision Master series, each utilising MicroTouch ClearTek capacitive technology.

## IIYAMA MONITORS

All iiyama monitors now have a 3-year warranty, with the first year on-site.

Part No	Model	Size	Dot Pitch	Max.Res	ex VAT	inc VAT
68-93-9153	MF-8515G	15"	.28mm	1280x1024	£129	£151.58
68-93-4010	S-701GT	17"	.26mm	1600x1200	£285	£334.88
68-93-4011	S-702GT	17"	.28mm	1600x1200	£229	£269.08
68-93-9175	MF-8617ES [sp]	17"	.26mm	1280x1024	£349	£410.08
68-93-4016	A-701GT	17"	.25mm grille	1600x1200	£315	£370.13
68-93-1901	S-901GT	19"	.27mm	1600x1200	£399	£468.83
68-93-4020	A-901GT	19"	.25mm grille	1600x1200	£435	£511.13
<b>Limited Offer - All 21" Monitors supplied by SMC come with 3 Year on-site included.</b>						
68-93-5010	S-101GT	21"	.27mm	1600x1200	£679	£797.83
68-93-5016	A-101GT	21"	.28mm grille	1600x1200	£679	£797.83
68-93-5020	S-102GT	21"	.27mm	1800x1440	£699	£821.33
68-93-5026	A-102GT	21"	.28mm grille	1800x1440	£719	£844.83

### Resistive Touch Screen Monitors (for Windows 95) Experience the Power of Touch

68-93-1500	TS15	15" based on MF-8515G			£535	£628.63
68-93-1700	TS17	17" based on MF-8617T			£685	£804.88
68-93-2100	TS21	21" based on MT-9221T			£1185	£1392.38

### PROLITE - Flat panel screen

68-93-3601	ProLite 3601	14.1" Analogue LCD		1024x768	£575	£675.63
68-93-3602	ProLite 3602	14.1" Analogue LCD		1024x768	£765	£898.88
68-93-3811	ProLite 3811	15" Analogue LCD		1024x768	£765	£898.88
68-93-3821	ProLite 3821	15" Analogue LCD		1024x768	£795	£934.13

### IIYAMA VISION CARE (Extended Warranty Options)

68-93-9903	LCD ProLite 36				£30	£35.25
68-93-9916	15" MF-8515G				£15	£17.63
68-93-9917	17" MF-8617T/ES & MT-9017T				£25	£29.38
68-93-9919	19" S-901GT				£30	£35.25
68-93-9921	21" S-101GT, A-101GT, S-102GT, A-102GT				£35	£41.13

Warranties are upgradable 3 Year On-Site next day swap-out.

Only available at time of purchase of monitor. [sp] denotes integral speakers.

## VIEWSONIC MONITORS

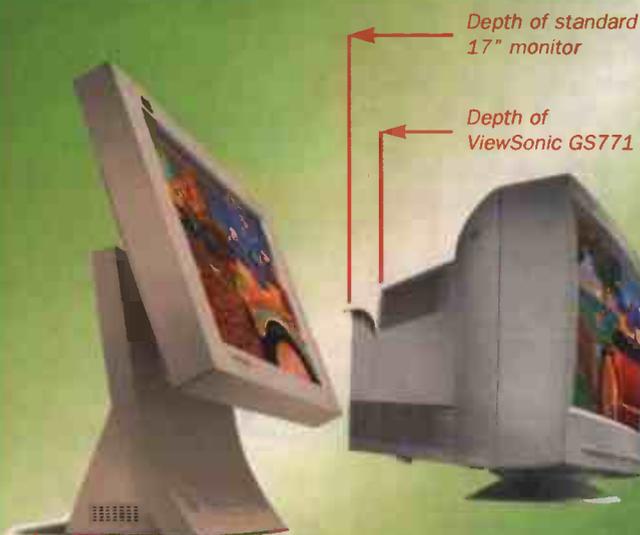
All ViewSonic monitors are supplied with a FREE 3 year 'Express Exchange' warranty\*.

Part No	Model	Size	Dot Pitch	Max.Res	ex VAT	inc VAT
<b>The Economy Series</b>						
68-99-1114	E641	14"	.28mm	1024x768	£85	£99.88
68-99-1115	E655	15"	.28mm	1280x1024	£115	£135.13
68-99-1117	E771	17"	.27mm	1280x1024	£245	£287.88
<b>The Graphics Series</b>						
68-99-3715	G653	15"	.28mm	1280x1024	£125	£146.88
68-99-3655	GA655 [a]	15"	.27mm	1280x1024	£165	£193.88
68-99-3771	G771	17"	.27mm	1280x1024	£265	£311.38
68-99-3917	GA771 [a]	17"	.27mm	1280x1024	£325	£381.88
68-99-3617	GS771 [s]	17"	.27mm	1280x1024	£285	£334.88
68-99-3717	GT775	17"	.25mm grille	1600x1200	£355	£417.13
68-99-3790	G790	19"	.26mm	1600x1200	£485	£569.88
<b>The Professional Series</b>						
68-99-5115	P655	15"	.27mm	1280x1024	£135	£158.63
68-99-5117	P775	17"	.25mm	1600x1200	£365	£428.88
68-99-5217	PT775	17"	.25mm grille	1600x1200	£405	£475.88
68-99-5790	PS790 [s]	19"	.25mm	1600x1200	£525	£616.88
68-99-5121	P810	21"	.25mm	1600x1200	£745	£875.38
68-99-5321	PT813	21"	.28mm	1600x1200	£695	£816.63
68-99-5815	P815	21"	.25mm	1800x1440	£865	£1016.38
<b>The LCD Series</b>						
68-99-7145	VPA145 [a]	14.5"	n/a	1024x768	£715	£840.13
68-99-7151	VPI150	15"	n/a	1024x768	£845	£992.88
68-99-7150	VPA150 [a]	15"	n/a	1024x768	£845	£992.88

[a] multimedia monitor

[s] short depth

\* 3 year 'Express Exchange' warranty available on all new ViewSonic monitors excluding LCD ranges. Limited to the UK mainland, the 24 hour service is available in most areas.



Depth of standard 17" monitor

Depth of ViewSonic GS771

Multi-media pivot screen LCD (VPA150)

# ViewSonic®

The Display Technology Company™

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 Midlands - 0800 597 6 333  
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For Customer Care and Switchboard Hotlines see Page 2



## COLOUR MONITORS & LCD

\* All monitors are Energy Star compliant.

Model	Dot Pitch	Max. Res.	ex VAT	inc VAT
<b>14"</b>				
68-26-1440 LG Goldstar SW44i	.28mm	1024x768	£85	£99.88
68-59-1404 Philips 104B *	.28mm	1024x768	£79	£92.83
68-95-1407 Samsung SM400b	.28mm	1024x768	£85	£99.88

With 2 year on-site warranty

<b>15"</b>				
68-90-1507 AOC 5GLR	.28mm	1280x1024	£99	£116.33
68-26-1558 LG Goldstar SW57i	.28mm	1280x1024	£105	£123.38
68-26-2160 LG Goldstar 500LC	TFT LCD	1024x768	£615	£722.63
68-59-1505 Philips 105S *	.28mm	1024x768	£99	£116.33
68-59-1513 Philips 105BR [sp] [m]	.28mm	1280x1024	£165	£193.88
68-95-1503 Samsung 500s+ FST	.28mm	30-54KHz	£109	£128.08

With 3 year on-site warranty.

68-95-1509 Samsung 500b+ FST	.28mm	30-69KHz	£129	£151.58
68-71-1517 Sony CPD100ES	.25 Grille	1024x768	£169	£198.58
68-71-1519 Sony CPD100GST	.25 Grille	1280x1024	£215	£252.63
68-71-1201 Sony CPD120AS [sp]	.25 Grille	1280x1024	£289	£339.58
68-71-0150 Sony CPDL150	TFT LCD	1024x768	£1085	£1274.88

<b>17"</b>				
68-90-1715 AOC 7GLR	.28mm	1280x1024	£179	£210.33
68-26-7700 LG Goldstar SW77T5	.28mm	1024x768	£179	£210.33
68-26-7801 LG Goldstar SW78T5	.26mm	1600x1280	£199	£233.83
68-26-7800 LG Goldstar SW78FT	.24mm	1600x1200	£275	£323.13
68-26-1783 LG Goldstar SW78M [sp]	.26mm	1600x1280	£235	£276.13
68-26-2770 LG Goldstar SW77M [sp]	.26mm	1600x1280	£219	£257.33
68-95-1709 Samsung 700s+ FST	.28mm	30-69KHz	£189	£222.08

With 3 year on-site warranty.

68-71-1721 Sony CPD200EST	.25mm	1024x768	£269	£316.08
68-71-1719 Sony CPD200GST	.25 Grille	1280x1024	£315	£370.13

Integrated mono speaker jack (for video conferencing & voice mail)

68-71-1723 Sony GDM-200PST	.25 Grille	1280x1024	£379	£445.33
68-71-2201 Sony CPD220AS [sp]	.25 Grille	1280x1024	£419	£492.33
68-59-1713 Philips 107B [sp]	.28mm	1280x1024	£265	£311.38

Including CustoMax software and Built-in Stereo sound

<b>19"</b>				
68-26-9901 LG Goldstar SW99T	.26mm	1600x1200	£369	£433.58
68-71-1940 Sony GDM400PST	.25 grille	1600x1200	£485	£569.88
68-59-1901 Philips 109BR [sp]	.26mm	1600x1200	£449	£527.58

<b>20"</b>				
68-71-2017 Sony CPD300SFT5	.30mm	1280x1024	£719	£844.83

<b>21"</b>				
68-59-2104 Philips 201B *	.27mm	1600x1200	£655	£769.63
68-59-2103 Philips 201BRC [sp] [m]	.26mm	1600x1200	£1189	£1397.08
Advanced Colour				
68-26-2160 LG Goldstar SW216SC	.28mm	1600x1200	£615	£722.63

\* Philips optional 3-year warranties

99-59-1415	14" - 15" upgrade to 3-year on-site	£30	£35.25
99-59-1721	17" - 21" upgrade to 3-year on-site	£50	£58.75

SONY optional extended 2-year warranties

99-71-1523	15" upgrade to 3-year on-site	£29	£34.08
99-71-1723	17" - 19" upgrade to 3-year on-site	£49	£57.58
99-71-2023	20" - 21" upgrade to 3-year on-site	£69	£81.08

[sp] denotes integral speakers, [m] denotes microphone supplied



## LG STUDIOWORKS MONITORS

Nobody is further ahead in IT than LG. £1.5m is spent every day on R&D and £2bn is being invested in a manufacturing plant in Wales, ensuring LG Electronics' position as a leading player in a very exciting digital future.

Seeing things more clearly

### 500LC

15.1" (15.1" viewable) screen

- Brilliant active matrix TFT display
- Genesis chip allows full SVGA/VGA
- Wide viewing angle, 60° left and right
- Bright 200cd/m<sup>2</sup> display
- Multi-sync support up to 1024x768 @ 75Hz



68-26-5000 **£675** (£793.13)

### SW7715

17" (15.8" viewable) screen

- Ultra contrast tube ensures greater levels of contrast and colour purity
- Flicker-free up to 1024x768 NI (non-interlaced) @ 85Hz
- 0.28mm Dot Pitch
- Digital controls with on-screen display



68-26-7700 **£179** (£210.33)

### SW216SC

21" (20" viewable) screen

- 30-95KHz FST
- Flicker-free 1600x1200 NI (non-interlaced) @ 75Hz
- Digital controls with on-screen display
- 0.28mm Dot Pitch with Double Focus Circuitry



68-26-2160 **£615** (£722.63)

### SW77M

17" (15.7" viewable) screen

- Integrated stereo amplifier with DOME stereo speakers
- Built in mic plus earphone jack
- Flicker-free up to 1024x768 NI (non-interlaced) @ 85Hz
- 0.28mm Dot Pitch



68-26-2770 **£219** (£257.33)

### SW7955C

17" (16" viewable) screen

- 100Hz ultra-high resolution mode
- 0.26mm Dot Pitch
- Flicker-free at max resolution 1600x1200 @ 80Hz
- On-screen digital controls
- TCO95 approved
- Made in UK



68-26-7950 **£279** (£327.83)

### SWS71

15" (13.8" viewable) screen

- Multi-sync supports from 640x480 up to 1280x1024 @ 85Hz
- Flicker-free up to 1024x768 NI (non-interlaced) @ 85Hz
- 0.28mm Dot Pitch
- Digital controls with on-screen display
- Made in the UK



68-26-1558 **£105** (£123.38)

\*TCO '95 on all models except SWS71 monitor.



All monitors come with a 3 year on-site, swap-out warranty.

Website <http://www.lge.co.kr>

## SONY

A Vision of a Better World

The name Sony stands for many things that can improve your productivity and enhance your desktop. With award-winning monitors and cameras SMC can now give you the complete Sony imaging solution that represents the best quality and functionality at the best price.

### Sony CPD200GST

68-71-1719

**£315**

£370.13 inc.VAT



MONITORS

For SMC's unique guarantee : see page 2

SMC Direct is a trading name of :

SMC Computers Plc

253-257 Farnham Rd Slough Berkshire SL2 1HA



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ALL MAJOR CREDIT CARDS ACCEPTED



# SHOP AT SMC AND MAKE SURE OF A QUALITY CHRISTMAS!



### Which printer to buy?

A good place to start when selecting a printer is to apply the "3D test"

**DPI** : This is the number of dots per inch. 600dpi gives about the best quality; beware of higher densities which may be subject to image degradation through ink saturation.

**Dots** : the size and shape of the ink dots is just as important. Many people opt for HP's unique PhotoREt II process which produces smaller, rounder dots which are overlaid to produce the broadest range of colours possible.

**Delivery** : Consider the printer's speed of operation, measured in pages per minute (ppm). Remember that saving money by selecting a slower speed will be very frustrating if the printer is unable to keep up with the volume of work!

## INKJET PRINTERS

## INKJET PRINTERS

### Hewlett Packard

#### Deskjet Printers

	ex VAT	inc VAT
99-28-2642	£66	£77.55
99-28-5890	£96	£112.80
99-28-5894	£134	£157.45
99-28-5870	£149	£175.08
99-28-2678	£285	£334.88
99-28-5160	£871	£1023.43
99-28-5168		
99-28-4530	£1280	£1504.00
99-28-5901	£450	£528.75
99-28-2684	£675	£793.13
99-28-2685	£682	£801.35
99-28-5876	£892	£1048.10
99-28-5876	£186	£218.55

#### Ink Cartridges

	ex VAT	inc VAT
96-28-5030		
96-28-5060	£15	£17.63
96-28-5069	£18	£21.15
96-28-1816	£19	£22.33
96-28-5039	£21	£24.68
96-28-5080	£19	£22.33
96-28-5089	£21	£24.68
96-28-5120	£21	£24.68
96-28-5123	£21	£24.68
96-28-5125	£21	£24.68
96-28-5127	£21	£24.68
96-28-1823	£22	£25.85
96-28-4841	£22	£25.85
96-28-4842	£22	£25.85
96-28-4843	£22	£25.85
96-28-4844	£22	£25.85
99-28-9461	£35	£41.13
99-28-9464	£66	£77.55
99-28-9473	£105	£123.38
99-28-9475	£140	£164.50

### Canon

#### Printers

	ex VAT	inc VAT
99-91-5030	£124	£145.70
99-91-5050	£197	£231.48
99-91-5080	£142	£166.85
99-91-5280		
99-91-5250	£185	£217.38
99-91-6430	£75	£88.13
99-91-6430	£95	£111.63
99-91-6465	£197	£231.48
99-91-6469		
99-91-6550	£235	£276.13
99-91-6700	£409	£480.58
99-91-6700	£175	£205.63

#### Ink Cartridges

	ex VAT	inc VAT
96-91-5000	£26	£30.55
96-91-5010	£14	£16.45
96-91-5020	£14	£16.45
96-91-5023	£16	£18.80
96-91-5026	£15	£17.63
96-91-5030	£18	£21.15
96-91-5040	£22	£25.85
96-91-5041	£29	£34.08
96-91-5060	£6	£7.05
96-91-5063	£6	£7.05
96-91-5065	£6	£7.05
96-91-5067	£6	£7.05
96-91-5080	£13	£15.28
96-91-5083	£17	£19.98
96-91-5085	£17	£19.98
96-91-5087	£17	£19.98
96-91-5405	£22	£25.85
96-91-5405	£23	£27.03
96-91-5410	£27	£31.73

#### 99-91-5000 includes:

BC22 Kit, BC22 4 Colour Cartridge, MGI PhotoSuite VB, 24Exp Kodak film, 5 sheets High Quality Paper



£26 £30.55 inc.VAT

Limited stock available.

### Epson

#### Stylus Printers

	ex VAT	inc VAT
99-93-5144	£103	£121.03
99-93-5164	£133	£156.28
99-93-5174	£177	£207.98
99-93-5185	£207	£243.23
99-93-5252		
99-93-5191	£451	£529.93
99-93-0700	£147	£172.73
99-93-5195	£163	£191.53
99-93-5300		
99-93-5500	£308	£361.90
99-93-5300	£1118	£1313.65
99-93-5500	£1587	£1864.73

#### Ink Cartridges

	ex VAT	inc VAT
96-93-8220	£10	£11.75
96-93-8229	£21	£24.68
96-93-8200	£13	£15.28
96-93-8209	£19	£22.33
96-93-8249	£21	£24.68
96-93-8009		
96-93-4000	£16	£18.80
96-93-8000	£14	£16.45
96-93-8005	£16	£18.80
96-93-0118	£13	£15.28
96-93-0122	£33	£38.78
96-93-0126	£33	£38.78
96-93-0130	£33	£38.78
96-93-0138	£14	£16.45
96-93-0143	£33	£38.78
96-93-0147	£33	£38.78
96-93-0187	£16	£18.80
96-93-0191	£19	£22.33

#### Epson cover Plus Support Packs

	ex VAT	inc VAT
99-93-0238	£35	£41.13
99-93-0338		
99-93-0438	£59	£69.33
99-93-0538	£99	£116.33
99-93-0638	£175	£205.63
99-93-0738	£275	£323.13
99-93-0738	£399	£468.83



## Hewlett Packard InkJet printers

HP InkJet printers can enable you express your creativity in as many ways as you can imagine. You can be sure that whichever InkJet printer you choose, it will help you get the job done in style.

### Deskjet 420C

99-28-2642

£66

£77.55 inc.VAT



The affordable friend that makes a great first printer! Giving both colour and black & white printing, it is ready to handle correspondence and fun projects right out of the box.

The flexible partner that gives you great results with no hassle. Fast and quiet, the 710C also prints photos without changing cartridges.

### Deskjet 710C

99-28-5894

£134

£157.45 inc.VAT



The professional consultant that lets you get down to business with breakthrough colour printing speed. For network use, choose the CN option to get a print server and 250-sheet accessory paper tray added to the package.

### HP 2000C

99-28-4530

£450

£528.75 inc.VAT

### Epson Stylus Colour 640

99-93-5164

£133

£156.28 inc.VAT



The EPSON Stylus COLOR 640 inkjet printer utilises the very latest 4 colour Inkjet technology to provide high definition 1440dpi printing and PhotoReal colour with maximum ease of use and exceptional value for money. EPSON's exclusive PerfectPicture Imaging System brings amazing results to the most demanding home applications.

Presentations, reports and newsletters can achieve new levels of professionalism, while family fun and photos will never be the same again.

EPSON®

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**THE BEST YOU'LL GET**

**LASER PRINTERS**

	ex VAT	inc VAT
<b>Hewlett Packard</b>		
<b>Laserjet Printers</b>		
[N] - Network ready [PS] - Postscript Level II		
<b>A4 Printers</b>		
99-28-7650	6P 600dpi, 8ppm	£461 £541.68
99-28-7631	6MP 600dpi, 8ppm [PS]	£562 £660.35
99-28-7620	1100 600dpi, 8ppm	£232 £272.60
99-28-4118	4000 1200dpi, 16ppm [PS]	£711 £835.43
99-28-4119	4000T 1200dpi, 16ppm [PS]	£787 £924.73
99-28-4120	4000N 1200dpi, 16ppm [N] [PS]	£914 £1073.95
99-28-4121	4000TN 1200dpi, 16ppm [N] [PS]	£990 £1163.25
99-28-4084	4500 Colour 1200dpi, 16ppm	£1875 £2203.13
99-28-4089	4500N Colour 1200dpi, 16ppm [N] £130	£2502.75
99-28-4094	4500DN Colour 1200dpi, 16ppm Duplex [N]	£2610 £3066.75
<b>A3 Printers</b>		
99-28-4110	5000 1200dpi, 16ppm [PS]	£929 £1091.58
99-28-4111	5000N 1200dpi, 16ppm [N] [PS]	£1334 £1567.45
99-28-4112	5000GN 1200dpi, 16ppm [N] [PS] 1GB Hi/Drive	£1649 £1937.58
99-28-7555	55i 600dpi, 24ppm	£1604 £1884.70
99-28-7565	55iNX 600dpi, 24ppm [N]	£1784 £2096.20
99-28-7560	55iMX 600dpi, 24ppm [N] [PS]	£2211 £2597.93
99-28-4085	8000 1200dpi, 24ppm [PS]	£1478 £1736.65
99-28-4086	8000N 1200dpi, 24ppm [N] [PS]	£1643 £1930.53
99-28-4087	8000DN 1200dpi, 24ppm [N] [PS] Duplex (two-sided printing)	£1935 £2273.63
99-28-3983	8500 Colour 1200dpi, 24ppm	£3864 £4540.20
99-28-3984	8500N Colour 1200dpi, 24ppm [N]	£4425 £5199.38
99-28-3985	8500DN Colour 1200dpi, 24ppm Duplex [N]	£5243 £6160.53
<b>Laser Toner</b>		
96-28-7413	HP92274A - 4L/4P/4M/4MP	£42 £49.35
96-28-7313	HP92275A - 11P/11P/11P/11P	£49 £57.58
96-28-7354	HP92291A - 11Si/4Si/4Si MX	£72 £84.60
96-28-7230	HP92295A - 11D/11D	£45 £52.88
96-28-7434	HP92298A - 4/4M/4/4M+/5/5N/5M	£54 £63.45
96-28-7451	HPC3900A - 4V/4MV	£85 £99.88
96-28-7551	HPC3903A - 5P/5MP/6P/6MP	£45 £52.88
96-28-7515	HPC3906A - 5L/6L	£36 £42.30
96-28-4092	HPC4092A - 1100/1150-A	£Poa £Poa
96-28-4127	HPC4127A - 4000	£52 £61.10
96-28-0412	HPC4127X - 4000 Long life	£77 £90.48
99-28-4129	HPC4129X - 5000, UltraPrecise	£169 £198.58
96-28-3909	HPC3909A - 8000	£145 £170.38
<b>HP 3-year On-Site Support Packs</b>		
99-28-9476	H5476A - 5/6P, 5/6MP	£142 £166.85
99-28-9479	H5479A - 5, 5M, 5N, 4000 Series	£180 £211.50
99-28-9482	H5482A - 4V, 4MV	£235 £276.13
99-28-9492	H5492A - 5Si MX/NX	£530 £622.75

	ex VAT	inc VAT
<b>Canon</b>		
99-28-9500	H5500A - 5L 6L	£67 £78.73
99-28-9501	H5501A - 5/5M Colour	£619 £727.33
99-28-9499	H5499A - 8000 Series	£731 £858.93
<b>Printers</b>		
99-91-7173	LBPI260+~ 600dpi, 12ppm	£614 £721.45
99-91-1760	LBPI760 - 600dpi, 17ppm	£649 £762.58
<b>Laser Toner</b>		
96-91-5500	EP-E - LBPI260+	£55 £64.63
96-91-5552	EP-S2 - LBPI760	£80 £94.00
<b>Epson</b>		
<b>Printers</b>		
99-93-7570	EPL5700 - 600dpi, 8ppm	£304 £357.20
99-93-7120	EPL-N1200 - 600dpi, 12ppm	£462 £542.85
99-93-7200	EPL-N2000 - 600dpi, 20ppm A4, 11ppm A3	£929 £1091.58
99-93-7201	EPL-2000PS - 600dpi, 20ppm	£1149 £1350.08
99-93-7160	EPLN-1600 - 600dpi, 16ppm	£POA £POA
99-93-7163	EPLN-1600T - 600dpi, 16ppm	£POA £POA
99-93-7165	EPLN-1600ENT - 600dpi, 16ppm [N]	£POA £POA
<b>Laser Toner</b>		
96-93-1016	S051016 - 5600/N1200 toner/drum	£65 £76.38
96-93-1035	S051035 - N2000 Series toner/drum	£117 £137.48
<b>Brother</b>		
<b>Printers</b>		
99-90-0082	HL820 - 600dpi, 8ppm	£159 £186.83
99-90-0104	HL1040 - 600dpi, 10ppm	£204 £239.70
99-90-0105	HL1050/4 - 600dpi, 10ppm, 4MB	£239 £280.83
99-90-0107	HL1070/4 - 1200dpi, 10ppm, 4MB	£299 £351.33
<b>Laser Toner</b>		
96-90-1953	BR1953 - HL820/1040, 1050, 1070	£13 £15.28
96-90-0126	BREP/ED - HL1260	£69 £81.08
96-90-0067	BR7833 - HL630/660	£19 £22.33
<b>OKI</b>		
<b>Printers</b>		
99-93-9601	OL6E - 600dpi, 6ppm	£189 £222.08
99-93-9603	OL6EX - 600x1200dpi, 6ppm	£219 £257.33
99-93-9101	OL101 - 600x1200dpi, 10ppm	£359 £421.83
99-93-9201	OL20N - 600x1200dpi, 20ppm	£729 £856.58
99-93-9205	OL20N/PS - 600x1200dpi, 20ppm, Postscript	£899 £1056.33
<b>Laser Toner</b>		
96-93-5136	OKI5136 - OL20,20N/PS	£23 £27.03
96-93-5122	OKI5122 - OL10	£14 £16.45
96-93-4851	OKI4851 - OL6,6EX	£14 £16.45

**DOT MATRIX PRINTERS**

	ex VAT	inc VAT
<b>Epson</b>		
99-93-0131	LX300 - 80 columns, 9 pin, 264cps, 4Kb Buffer	£97 £113.98
99-93-0880	FX880 - 80 columns, 9 pin, 455cps, 32Kb Buffer	£247 £290.23
99-93-0118	FX1180 - 136 columns, 9 pin, 455cps	£315 £370.13
99-93-0139	FX2170 - 136 columns, 18 pin, 440cps, 64Kb Buffer	£349 £410.08
99-93-0311	LQ300 - 80 columns, 24 pin, 240cps, 8Kb Buffer	£115 £135.13
99-93-0313	LQ570+ - 80 columns, 24 pin, 269cps, 8Kb Buffer	£216 £253.80
99-93-0315	LQ870 - 80 columns, 24 pin, 330cps, 8Kb Buffer	£377 £442.98
99-93-0322	LQ2070 - 136 columns, 24 pin, 330cps, 64Kb Buffer	£330 £387.75
99-93-0320	LQ2170 - 136 columns, 24 pin, 440cps, 64Kb Buffer	£459 £539.33
<b>Panasonic</b>		
99-57-1150	KXP1150 - 80 columns, 9 pin, 240cps, 4Kb Buffer	£87 £102.23
99-57-2023	KXP2023 - 80 columns, 24 pin, 192cps, 14Kb Buffer	£109 £128.08
99-57-3626	KXP3626 - 136 columns, 24 pin, 300cps, 40Kb Buffer	£254 £298.45

**PRINTER CABLES**

With the increasingly demanding two-way data communication requirements of modern PC's, it is ever-more apparent that a low-quality cable can often compromise the level of performance achieved. SMC stock premium quality bi-directional printer cables ensuring the highest performance from your printer or parallel port device. Cables use the standard 25-pin D-connector to 36-pin Centronics and are available in three lengths to suit a wide variety of installations.

	ex VAT	inc VAT
75-95-6002	1.8 metres	£5 £5.88
75-95-6003	3.0 metres	£7 £8.23
75-95-6005	5.0 metres	£9 £10.58

**HEWLETT PACKARD**  
Expanding Possibilities

**LaserJet 5000**

HP LaserJet 5000 Series printers incorporate HP's most innovative new technologies, and are ideal for office, finance, CAD, desktop publishing, marketing... any workgroup that requires fast, high-quality monochrome printouts. Don't forget, too, that every printer comes with one feature you can't get anywhere else - HP's unrivalled reputation for quality, reliability & compatibility.

99-28-4110 **£929** £1091.58 inc.VAT

**HP ALL-IN-ONE**

	ex VAT	inc VAT
99-28-5317	<b>OfficeJet 635</b> Colour Inkjet Printer/Copier/Scanner 300dpi optical 24bit colour scanning mono fax	£323 £379.53
99-28-5368	<b>OfficeJet Pro 1170C</b> Colour Inkjet Printer/Copier/Scanner 600dpi optical 24bit colour scanning	£489 £574.58
99-28-5369	<b>OfficeJet Pro 1175C</b> Colour Inkjet Printer/Copier/Scanner 600dpi optical 24bit colour scanning fax software (NOTE : fax required in PC) 50-sheet document feeder	£614 £721.45
99-28-3948	<b>Laserjet 3100</b> Mono Laser Printer/Fax/Copier/Scanner 600dpi, scan with 256 grey-scales	£471 £553.43
99-28-7620	<b>Laserjet 1100A</b> Mono Laser Printer/Copier/Scanner 600dpi	£232 £272.60
<b>Colour Digital Fax</b>		
Digital senders. Enter a new age where, with a simple network connection you can send full colour images to anyone on the network or to an email address.		
97-28-1313	HP Digital sender 10 BASE-T	£1793 £2106.78
97-28-1314	HP Digital sender 10 BASE-T/10 BASE-2	£1890 £2220.75
97-28-1316	HP Digital sender 10/100 BASE-T	£1890 £2220.75

**HEWLETT PACKARD**  
Expanding Possibilities

**HP's integrated All-in-Ones : a variety of tools at the touch of a button.**

When you have to make the most of your space, time and budget, an HP All-in-One product is the ideal solution. There are options that include either sharp black and white laser printing or excellent colour Inkjet printing, plus copying, scanning and faxing in one easy to use device. HP's All-in-One products are ideal for your small business or home office, and they fit right in if your family has a variety of printing and other imaging needs for work and school.

**LASER PRINTERS & ALL-IN-ONE**

For SMC's unique guarantee : see page 2



# SHOP AT SMC AND MAKE SURE OF A QUALITY CHRISTMAS!

## Printer resolution, Film Scanners and Digital Camera technology

Just a few years ago the standard resolution for high-quality printing was 300dpi (dots per inch).

Now there are printers with resolutions up to 1440dpi for quality that's so good it's virtually impossible to tell apart from a photo. With the recent emergence of Digital Cameras and Film Scanners the process of film development can be removed, not only saving time and money, but enabling greater flexibility in use and, ultimately, quality of presentation.

Flatbed scanners have also moved on tremendously, we now offer UMAX scanners, Epson and Logitech through to the new Hewlett Packard scanners which have unlimited DPI! using Hardware Super Sampling technology.



## FILM SCANNERS

ex VAT inc VAT

### OLYMPUS

The ES-10 is supplied with cables and software. It is an external Parallel device that supports 35mm negatives and slides at 1770dpi, 24 bit colour.

97-91-0010	ES-10 Film Scanner 35mm negatives or slides	£349	£410.08
97-91-1010	Advanced Photo System adapter	£95	£111.63

### EPSON

The Epson FilmScan 200 is supplied with an interface card, cables and software. It is an external device that supports negative and positive scanning at 1200x2400 dpi, max 4800 dpi - 30 bit colour. There is an optional film (APS) holder.

97-93-0201	Epson FilmScan 200 35mm film scanner, SCSI interface	£250	£293.75
97-93-0235	Advanced Photo System (APS) Holder Film cartridge holder for batch scanning	£75	£88.13



97-28-5107	PhotoSmart Photo Scanner 35mm-5"x7" photo, 35mm negative or slide scanner	£18	£373.65
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## Epson FilmScan 200

97-93-0201 **£250** £293.75 inc.VAT



If you'd like to create presentation documents, posters, newsletters, greetings cards - or simply lots of superb quality photoprints, enlarged just as you want them - the EPSON FilmScan 200 offers an easy and very affordable way to digitise your photos.

A truly versatile scanner, the FilmScan 200 accepts 35mm film strip (both positive and negative) and mounted slides, while the addition of an Advanced Photo System cartridge enables handling of the very latest film format. For added convenience, a batch-scanning facility enables up to 6 images to be scanned simultaneously.



## Hewlett Packard ScanJet scanners

Capture the excitement, enjoy the success!

No experience is necessary to easily scan photos, illustrations, logos or pages of text into your PC document, and turn an ordinary project into a work of art. Personalise correspondence with a family photo, or add a lively new dimension to everything from greeting cards to presentations, or even your own web site. HP's Intelligent Scanning Technology can automatically handle all the settings for you, or let you get hands-on for greater customisation. So if you've ever wished you could incorporate a favourite image into a letter or report, stop dreaming! With an HP scanner from SMC you can do it at the touch of a button.

### ScanJet 4100C

97-28-6297 **£116** £136.30 inc.VAT



The smart friend who makes it easy to add the exciting dimension of scanning to all your projects.

- >> Excellent Image Quality (600dpi HSS)
- >> Quick results with colour copy and scan buttons
- >> Dual Image Scan covers both text and graphics
- >> Automatic optimisation of text and graphics
- >> USB connection

### ScanJet 6200C

97-28-6277 **£237** £278.48 inc.VAT

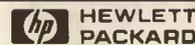


The versatile consultant for fast, high-quality scanning in the office with network capabilities for workgroup productivity.

- >> Superior Image Quality (1200dpi HSS)
- >> Intelligent Scaling for enhanced resolution
- >> HP PrecisionScan Pro for increased productivity
- >> Drag and drop scans into your application
- >> Choice of USB or SCSI II connection

## SCANNERS

ex VAT inc VAT



HP A4 scanners are all supplied with software & OCR

97-28-0050	ScanJet 55 - 600/300dpi, 24-bit colour, pass-thru sheet feed, Parallel Port interface with cable	£129	£151.58
97-28-5100	ScanJet 5100C - 1200/300dpi, 24-bit colour, Parallel Port interface with cable	£149	£175.08
97-28-6100	ScanJet 6100C - 2400/600dpi, 30-bit colour, with 35mm adaptor, ISA SCSI controller card & cable	£420	£493.50
97-28-6297	ScanJet 4100C - 600dpi HSS * 36-bit colour, USB/W98 only	£116	£136.30
97-28-6277	ScanJet 6200C - 1200dpi HSS * 36-bit colour, USB/W98 or SCSI	£237	£278.48
97-28-6278	ScanJet 6250C - 1200dpi HSS * 36-bit colour, USB/W98 or SCSI with document feeder	£277	£325.48

\* HSS (Hardware Super Sampling) is a breakthrough technology that improves image quality in areas such as fine detail, enlargements over 400% and half-toned originals.

HP 3-year On-Site Support Packs

99-28-9464	H5465A - Scanjet 55, S100C	£66	£77.55
99-28-9470	H5470A - Scanjet 6100C	£102	£119.85
99-28-94XX	H54XXA - Scanjet 4100C	£POA	£POA
99-28-94XX	H54XYA - Scanjet 6200C	£POA	£POA
99-28-94XX	H54XZA - Scanjet 6250C	£POA	£POA

### EPSON

#### GTx Range

A4 scanners (Inc. Adobe Photoshop LE, Caere OmniPage LE OCR)

Parallel Port interface - supplied with Parallel cable			
97-93-0957	GTx9500/P - 2400/600dpi, 36-bit colour	£446	£524.05
SCSI interface - with ISA SCSI controller card & cable			
97-93-0553	GTx5500/S - 1600/400dpi, 30-bit colour	£125	£146.88
97-93-0953	GTx9500/S - 2400/600dpi, 36-bit colour	£465	£546.38

#### GT12000

A3 scanners with ISA SCSI interface, supplied with PC/MAC drivers. 6400/800dpi, 36-bit colour

97-93-0120	GT12000 (bare)	£1315	£1545.13
97-93-0124	GT12000/Graphics SCSI card & cables, transparency adaptor, Adobe Photoshop LE	£1699	£1996.33
97-93-0126	GT12000/OCR SCSI card & cables, document feeder, Caere Omnipage LEV5	£1999	£2348.83

#### GT7000

A4 scanners with ISA SCSI interface, supplied with PC/MAC drivers. 36-bit colour, SCSI card & cables, touch scanner

97-93-0700	GT7000 - 2400/600dpi, 36-bit colour, SCSI card & cables, touch scanner	£147	£172.73
97-93-0720	GT7000 Photo APS adaptor	£197	£231.48

## UMAX

Software supplied :- Adobe PhotoDeluxe, VistaScan, PageManager, PhotoAlbum LE, Caere OmniPage LE and Recognita OCR & are compatible with Win95 & Win98.

ex VAT inc VAT

### Astra 610 Series

97-81-0610	610p Parallel Port	£59	£69.33
97-81-0611	610s SCSI	£89	£104.58

### Astra 1220 Series

97-81-1200	1220p Parallel Port	£99	£116.33
97-81-1201	1220s SCSI	£129	£151.58
97-81-1205	1220u USB	£109	£128.08



#### 1220 Series

- A4 Flatbed Scanner
- 36 bit colour scanning
- 600 x 1200dpi optical resolution
- 9600 x 9600dpi maximum resolution
- Single Pass, colour CCD
- Bundled software
- Available with Parallel, SCSI or USB interface



#### 610 Series

- A4 Flatbed Scanner
- 30 bit colour scanning
- 300 x 600dpi optical resolution
- 4800 x 4800dpi maximum resolution
- Single Pass, colour CCD
- Bundled software
- Available with Parallel or SCSI interface

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**Midlands - 0800 597 6 333**

**North - 0800 597 7 333**

**Scotland - 0800 597 8 333**

**FAX : 01753 524443**

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### DIGITAL CAMERAS

ex VAT inc VAT

#### OLYMPUS

Olympus has used its renowned optical expertise to develop high resolution lenses that push the CCD's performance to the max! All cameras feature auto focus, built-in flash, 12s self timer & a TTL viewfinder. Supplied with interface cables & PhotoSoap software.

98-91-0840	<b>C840L</b> 1280x960 pixels (HQ/SHQ mode), 4Mb memory 1.3million pixel CCD, LCD monitor, digital zoom (36-72mm), Photoalbum software	£425	£499.38
98-91-0900	<b>C900 ZOOM</b> 1280x960 pixels (HQ/SHQ mode), 4Mb memory, 1.3million pixel CCD, LCD monitor, optical zoom (35-105mm)	£549	£645.08
98-91-1400	<b>C1400L</b> 1280x1024 pixels (Super HQ/HQ mode), 2x 4Mb memory, 1,410,000 pixel CCD, LCD monitor, Zoom (36-110), Auto focus, Battery charger kit	£849	£997.58
98-91-1402	<b>C1400XL SLR</b> 1280x1024 pixels (HQ/SHQ mode), 2x 4Mb memory, 1.4million pixel CCD, LCD monitor, on-screen display, 3x Zoom (36-110), Auto focus, Soft case, Battery charger kit	£849	£997.58
70-91-0006	<b>C6AG</b> mains adaptor for complete range	£59	£69.33
19-91-0102	<b>M2PE</b> 2Mb Smartmedia Memory Card	£29	£34.08
19-91-0108	<b>M8PE</b> 8Mb Smartmedia Memory Card	£68	£79.90

#### EPSON

These cameras feature auto focus, built-in flash and a 10-sec timer. They run from AA batteries (supplied) with a mains adaptor optional. Interface cables & software supplied.

98-93-0600	<b>PC600</b> Camera 1024x768 pixels (XGA mode), 810,000 pixel CCD, 4Mb memory, Zoom focus.	£286	£336.05
70-93-7032	240 mains adaptor	£49	£57.58
19-93-8311	4Mb Memory module	£125	£146.88
98-93-0700	<b>PC700</b> Camera 1280x960 pixels (High Quality mode), 1.3 million pixel CCD, 4Mb memory, 200m focus	£359	£421.83

#### SONY

98-71-0051	<b>Mavica FD51</b> Camera 640x480 VGA, 380,000 pixel CCD, stores on to floppy	£339	£398.33
98-71-0071	<b>Mavica FD71</b> Camera 640x480 VGA, 380,000 pixel CCD, stores on to floppy, with 10x optical zoom, special picture effects built-in	£449	£527.58

#### HEWLETT PACKARD

98-28-0200	<b>Photosmart</b> Camera 1152 x 872 24-bit, 4MB memory, Runs on 4xAA batteries or mains adaptor (supplied) Autofocus with built-in flash. Software, cables supplied.	£320	£376.00
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#### UMAX

98-81-0100	<b>DC-F1</b> Camera 1920 x 1600 30-bit, 800,000 pixels, 2MB memory, built-in flash. Software, cables supplied.	£279	£327.83
98-81-0150	240 mains adaptor	£15	£17.63

### PHOTO PRINTERS

ex VAT inc VAT

#### OLYMPUS

Olympus digital printers support either parallel or direct printing. A cable and software are supplied for PC and MAC. Dye sublimation produces a higher quality image through lower resolution over standard printing.

99-91-0300	<b>P300E</b> 1376x1024, 16.7m colours using dye sublimation (306Dpi). Ideal for C-420L/820L/1400L Camera	£425	£499.38
96-91-6060	<b>P60N</b> A6 paper for P-300E Printer (x60)	£42	£49.35
99-91-0330	<b>P330E</b> Ultra high res dye sublimation printer work stand-alone or plug it into your TV for on-screen control	£339	£398.33
26-91-3305	<b>MA-ICE</b> PCMCIA adaptor (3.3 & 5v) for faster downloads	£72	£84.60
26-91-0144	<b>Flash Path</b> 3.5" floppy disk adaptor (3.3v & 5v)	£59	£69.33
96-91-3004	<b>B30Se</b> Ni-MH Batter Charger + 4 batteries	£68	£79.90
05-91-1700	Photoalbum Image Archive software on CD	£15	£17.63

#### EPSON

This product is supplied with cables and software. It is an external SCSI device that supports 35mm negatives and slides at 2400dpi and Photos at 300 dpi, 30 bit colour.

99-93-5191	<b>Epson Stylus Photo</b> 720Dpi, 4"x6" - A4, 1ppm	£147	£172.73
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#### UMAX DC-F1 Ultra High Resolution Camera

98-81-0100

£279

£327.83 inc.VAT



- 800,000 pixel CMOS sensor
- High quality images (1920x1600x30bit)
- JPEG compression
- Integrated automatic electronic flash
- 2Mb removable Flash Memory
- Sound recording facility (max. 20 secs)
- Bundled software

#### UMAX

### PRODUCT LINK

**Inkjet Printers : See Page 31**  
**Film Scanners : See Page 32**



**Olympus C-900 ZOOM**

98-91-0900

£549

£645.08 inc. VAT



**Olympus C-1400XL**

98-91-1402

£849

£997.58 inc. VAT

Olympus' leadership in optical technology started 20 years ago with their invention of the TAOHS optical reader - used now in every CD player in the world. This led to developments in the digital arena where both quality and innovation are of paramount importance. Olympus don't make ordinary cameras, they make cameras with style, and cameras that are market leaders in quality and cutting edge technology. If you want something special, Olympus is the choice to make.

#### OLYMPUS

DIGITAL CAMERAS

For SMC's unique guarantee : see page 2

**SMC Direct is a trading name of :  
SMC Computers Plc**

**253-257 Farnham Rd Slough Berkshire SL2 1HA**



**ALL MAJOR CREDIT CARDS ACCEPTED**

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# SHOP AT SMC AND MAKE SURE OF A QUALITY CHRISTMAS!

It's a fact of life in the IT world that as time goes on, technology gets more complex, and while it is directed at achieving ever-greater levels of performance, great attention is given by manufacturers to making products user-friendly. While the business of setting up and/or reconfiguring networking software is most definitely left to specialist engineers (it's much better to shout at them for getting it wrong than wonder how on earth you're going to sort out a problem that defies obvious logic) the specification of hardware is becoming easier all the time. At SMC, we provide a range from single interface cards, cables, hubs and switches right through to networking kits and network-ready CD Towers. We are approved reseller partners with both 3Com and Intel, so give us a call for a response you can rely on.

# NETWORKING PRODUCTS



3Com is the world's leading supplier of network interface cards, and 3Com's exclusive Parallel Tasking technology ramps up your network's performance while driving down its costs.

3Com's leadership ensures leading-edge technology, extensive compatibility and seamless integration with both computer and network operating systems.



## NETWORK CABLES & CONNECTORS

### BNC / Thin Ethernet

		ex VAT	inc VAT
86-95-1371	Thin Ethernet cable, made to order. per metre :	£1	£1.18
86-95-1311	BNC solderless crimp connectors	£3	£3.53
86-95-1353	BNC Ethernet terminator	£5	£5.88
86-95-1331	BNC 'T' piece	£6	£7.05
86-95-1302	2m BNC Thin Ethernet cable with crimps - ready made	£4	£4.70
86-95-1305	5m BNC Thin Ethernet cable with crimps - ready made	£7	£8.23
86-95-1310	10m BNC Thin Ethernet cable with crimps - ready made	£11	£12.93
86-95-1320	20m BNC Thin Ethernet cable with crimps - ready made	£17	£19.98
86-95-1330	30m BNC Thin Ethernet cable with crimps - ready made	£24	£28.20

### RJ45 / Twisted Pair

86-95-4502	2m RJ45 Ethernet/Fast Ethernet cable - ready made	£5	£5.88
86-95-4503	3m RJ45 Ethernet/Fast Ethernet cable - ready made	£6	£7.05
86-95-4505	5m RJ45 Ethernet/Fast Ethernet cable - ready made	£8	£9.40
86-95-4510	10m RJ45 Ethernet/Fast Ethernet cable - ready made	£12	£14.10
86-95-4520	20m RJ45 Ethernet/Fast Ethernet cable - ready made	£18	£21.15
86-95-4530	30m RJ45 Ethernet/Fast Ethernet cable - ready made	£25	£29.38
86-95-4550	50m RJ45 Ethernet/Fast Ethernet cable - ready made	£38	£44.65

**Crossover Cables (no hub required) - for peer-to-peer networking : 2 machines only**

86-95-0202	2m RJ45 Ethernet/Fast Ethernet Crossover cable	£20	£23.50
86-95-0210	10m RJ45 Ethernet/Fast Ethernet Crossover cable	£28	£32.90
86-95-0230	30m RJ45 Ethernet/Fast Ethernet Crossover cable	£35	£41.13

## PRODUCT LINK

### CD ROM Servers : See Page 21

## 3COM NETWORKING

		ex VAT	inc VAT
<b>Network Interface Cards (NIC's)</b>			
<b>ISA (Etherlink III)</b>			
84-90-0931	3C509B-TP AUI/RJ45	£59	£69.33
84-90-0933	3C509B-TP AUI/RJ45 - 5pack	£156	£183.30
84-90-0935	3C509B-TP AUI/RJ45 - 20pack	£612	£719.10
84-90-0951	3C509B-Combo BNC/AUI/RJ45	£69	£81.08
84-90-0953	3C509B-Combo BNC/AUI/RJ45 - 5pack	£309	£363.08
84-90-0955	3C509B-Combo BNC/AUI/RJ45 - 20pack	£1125	£1321.88
<b>PCI - 10Mb/s (Fast Etherlink XL)</b>			
84-90-1900	3C900B-TPO RJ45	£33	£38.78
84-90-5900	3C900B-TPO RJ45 - 5pack	£145	£170.38
84-90-2900	3C900B-TPO RJ45 - 20pack	£579	£680.33
84-90-9951	3C900B-Combo BNC/AUI/RJ45	£75	£88.13
84-90-9953	3C900B-Combo BNC/AUI/RJ45 - 5pack	£345	£405.38
<b>PCI - 100Mb/s (Fast Etherlink XL)</b>			
84-90-1905	3C905-TX UTP	£54	£63.45
84-90-5905	3C905-TX UTP - 5pack	£239	£280.83
84-90-2905	3C905-TX UTP - 20pack	£949	£1115.08
<b>EISA (Etherlink III)</b>			
84-90-9251	3C592-Combo BNC/AUI/RJ45	£129	£151.58
<b>MCA (Fast Etherlink III)</b>			
84-90-2931	3C529-TP BNC/AUI/RJ45	£125	£146.88
<b>PCMCIA - 10Mb/s (Fast Etherlink III)</b>			
84-90-1589	3C589D-TP RJ45	£77	£90.48
84-90-5589	3C589D-TP RJ45 - 5pack	£349	£410.08
84-90-2589	3C589D-TP RJ45 - 20pack	£1359	£1596.83
<b>PCMCIA - 10/100Mb/s (Fast Etherlink III)</b>			
84-90-1574	3C574-TX 16-bit UTP	£89	£104.58
84-90-5574	3C574-TX 16-bit UTP - 5pack	£399	£468.83
84-90-2574	3C574-TX 16-bit UTP - 20pack	£1649	£1937.58
<b>PCMCIA (Fast Etherlink XL)</b>			
Combined 33.6Kbps Modem+10Mb/s Lan Adapter			
84-90-1563	3C563D-TP RJ45	£165	£193.88
84-90-5563	3C563D-TP RJ45 - 5pack	£729	£856.58
84-90-5631	3C563D-Combo BNC/RJ45	£187	£219.73
84-90-5635	3C563D-Combo BNC/RJ45 - 5pack	£895	£1051.63

## OfficeConnect Hubs/Switches/Kits

All OfficeConnect Hubs & Switches are supplied with a user-guide, power adapter, stacking clips and rubber feet as standard.

<b>10Mb/s Stackable Hubs</b>			
84-90-1674	3C16704 4 Port TP4, 4x RJ45	£35	£41.13
84-90-1673	3C16703 4 Port TP4 Combo, 4xRJ45/1xAUI/BNC	£45	£52.88
84-90-1670	3C16700 8 Port 8TPO, 8x RJ45	£47	£55.23
84-90-1671	3C16701 8 Port 8TPC, 8x RJ45/1x BNC	£69	£81.08
84-90-1672	3C16702 16 Port TPC16C, 16x RJ45/1x BNC	£116	£136.30
<b>100Mb/s Stackable Hubs</b>			
84-90-6723	3C16723 4 Port TP400, 4x UTP	£89	£104.58
84-90-6722	3C16722 8 Port TP800, 8x UTP	£169	£198.58
84-90-6721	3C16721 12 Port TP1200, 12x UTP	£239	£280.83
<b>10/100Mb/s Dual Speed Hubs</b>			
84-90-1675	3C16750 8x UTP	£259	£304.33
<b>Networking Kits</b>			
84-90-0308	3C50902B 3 x ISA 10Mb/s cards, 1 x 8 Port Hub, 3 x 50ft RJ45 Cables	£159	£186.83

## Superstack Hubs/Switches

<b>12 Port</b>			
84-90-6112	SuperStack II PS Hub 40 TP	£206	£242.05
84-90-0252	SuperStack II Hub 100TX	£439	£515.83
84-90-6312	SuperStack II Switch 3000 10/100Mb/s	£829	£974.08
84-90-1695	SuperStack II Switch 1100	£538	£632.15
84-90-6981	SuperStack II Switch 3300	£1049	£1232.58
<b>24 Port</b>			
84-90-6524	SuperStack II PS Hub 40 TP	£369	£433.58
84-90-6824	SuperStack PS 50	£579	£680.33
84-90-6980	SuperStack II Switch 3300	£1569	£1843.58
84-90-1661	SuperStack II DS Hub 500	£696	£817.80
84-90-6950	SuperStack II Hub	£799	£938.83
84-90-1659	SuperStack II DS Hub	£639	£750.83

**SALES FREEPHONES : South - 0800 597 5 333**

**Midlands - 0800 597 6 333**

**North - 0800 597 7 333**

**Scotland - 0800 597 8 333**

**FAX : 01753 524443**

**VISIT OUR WEBSITE AT:  
www.smcdirect.co.uk**



**SALES LINES OPEN : MONDAY TO FRIDAY : 8.30am - 6.30pm SATURDAY : 9am - 1pm**

**For Customer Care and Switchboard Hotlines see Page 2**

## SMC NETWORKING

**IMPORTANT :** Standard Microsystems Corporation (SMC) is one of the world's leading LAN equipment manufacturers, and at SMC Computers we are pleased to include their products in our range. However, there is no other connection between the companies and we regret we are unable to help with general enquiries on behalf of Standard Microsystems Corporation.

**ex VAT inc VAT**

### Network Interface Cards (NIC's)

	ex VAT	inc VAT
<b>ISA - 10Mb/s Ethernet</b>		
84-93-1651 <b>E16</b> , 16-bit, Combo	£62	£72.85
84-93-2451 <b>EZ P'n'P</b> , 16-bit, Combo	£35	£41.13
84-93-1001 <b>I660BT</b> , BNC/RJ45	£19	£22.33
84-93-1050 <b>I660BT</b> , BNC/RJ45 - 50 Pack	£599	£703.83
<b>PCI - 10/100Mb/s EtherPower II</b>		
84-93-1211 <b>I211TX</b> , RJ45	£23	£27.03
84-93-1301 <b>9432TX</b> , RJ45	£44	£51.70
84-93-1305 <b>9432TX</b> , RJ45 - 5 Pack	£199	£233.83
84-93-1320 <b>9432TX</b> , RJ45 - 20 Pack	£739	£868.33
84-93-1350 <b>9432TX</b> , RJ45 - 50 Pack	£1709	£2008.08
<b>PCMCIA - 10/100Mb/s PC Cardbus</b>		
84-93-3201 <b>8302DT</b> , 32-bit, RJ45	£99	£116.33
84-93-3205 <b>8302DT</b> , 32-bit, RJ45 - 5 Pack	£475	£558.13

### Network Hubs

	ex VAT	inc VAT
<b>Stackable Hubs - 10Mb/s Ether EZ</b>		
84-93-3605 <b>3605T-EZ</b> , 5 Port	£32	£37.60
84-93-3608 <b>3605T-EZ</b> , 8 Port	£55	£64.63
84-93-3616 <b>3605T-EZ</b> , 16 Port	£99	£116.33
<b>Fast Ethernet Hubs - 100Mb/s</b>		
84-93-5008 <b>5008TX</b> , 8 Port	£169	£198.58
<b>Dual Speed Fast Ethernet Hubs - 10/100Mb/s</b>		
84-93-5512 <b>5512DS</b> , 12 Port	£595	£699.13
84-93-5524 <b>5524DS</b> , 12 Port	£889	£1044.58

### Network Switches

	ex VAT	inc VAT
<b>8 Port</b>		
84-93-0108 <b>EZ108 INT</b> , EZ Switch, 8 Port, 10/100Mb/s	£669	£786.08
84-93-6608 <b>6608 INT</b> , Tigerswitch 100, 8 Port, 10/100Mb/s	£829	£974.08
<b>16 Port</b>		
84-93-6416 <b>6416TT INT</b> , EZ Switch, 16x10Mb/s, 2x100Mb/s	£589	£692.08
<b>24 Port</b>		
84-93-6425 <b>6425LW/TT INT</b> , EZ Switch, 24x10Mb/s, 2x10/100Mb/s	£829	£974.08

## INTEL NETWORKING

**ex VAT inc VAT**

### Network Interface Cards (NIC's)

	ex VAT	inc VAT
<b>EtherExpress PRO range</b>		
<b>ISA - 10Mb/s Ethernet</b>		
84-31-8220 <b>8220B 10+ TP</b>	£35	£41.13
84-31-5822 <b>8220B 10+ TP - 5 Pack</b>	£159	£186.83
84-31-8210 <b>8210B 10+ TP/BNC</b>	£42	£49.35
84-31-5821 <b>8210B 10+ TP/BNC - 5 Pack</b>	£195	£229.13
84-31-8200 <b>8200B 10+ Combo</b>	£65	£76.38
84-31-5820 <b>8200B 10+ Combo - 5 Pack</b>	£315	£370.13
<b>PCI - 10/100Mb/s Fast Ethernet</b>		
84-31-8460 <b>8460 100+ UTP</b>	£49	£57.58
84-31-5846 <b>8460 100+ UTP - 5 Pack</b>	£189	£222.08
84-31-2084 <b>8460 100+ UTP - 20 Pack</b>	£899	£1056.33
84-31-8470 <b>8470 100+ Server Adaptor</b>	£59	£69.33
84-31-8480 <b>8480 10+ Server Adaptor</b>	£315	£370.13
<b>PCMCIA Mobile Adapters - 10/100Mb/s Fast Ethernet</b>		
84-31-1600 <b>1600 10/100+ 16Bit, UTP</b>	£89	£104.58
84-31-1656 <b>1656 10/100+ 16Bit, UTP, 56k flex</b>	£185	£217.38
84-31-3200 <b>3200 10/100+ 32Bit, UTP</b>	£89	£104.58

### InBusiness Hubs

	ex VAT	inc VAT
84-31-6015 <b>10MB/S, 5x RJ45</b>	£38	£44.65
84-31-6017 <b>10MB/S, 8x RJ45</b>	£52	£61.10
84-31-6018 <b>10MB/S, 8x RJ45, 1x BNC</b>	£53	£62.28
84-31-6104 <b>100MB/S, 4x RJ45</b>	£115	£135.13
84-31-6108 <b>100MB/S, 8x RJ45</b>	£215	£252.63
84-31-6118 <b>100MB/S, 8x RJ45, 1x BNC</b>	£289	£339.58

## HP JETDIRECT PRINT SERVERS

**ex VAT inc VAT**

	ex VAT	inc VAT
84-28-5002 <b>J2550B</b> - for 10Base-T (MIO)	£189	£222.08
84-28-5202 <b>J2552B</b> - for 10BT, BNC, LocalTalk (MIO)	£224	£263.20
84-28-5502 <b>J2555B</b> - for Token Ring (MIO)	£325	£381.88
84-28-5602 <b>J2556B</b> - for 10/100Base-T (MIO)	£245	£287.88
84-28-2593 <b>J2593A</b> - EX Plus3 - Ethernet - 10BT, BNC	£229	£269.08
84-28-2594 <b>J2594A</b> - EX Plus3 Token Ring	£319	£374.83
84-28-2591 <b>J2591A</b> - EX Plus - Print Server	£175	£205.63
84-28-9201 <b>J2592A</b> - 150X for 10Base-T (IPX Protocol only)	£99	£116.33
84-28-3263 <b>J3263A</b> - 300X for RJ45, 10/100	£179	£210.33
84-28-3110 <b>J3110A</b> - for RJ45/BNC/Local Talk	£165	£193.88
84-28-3111 <b>J3111A</b> - for 10 BaseT, 10Base 2	£165	£193.88
84-28-3113 <b>J3113A</b> - 10/100 for HP4000 series	£235	£276.13

## UPS's

According to computer insurer SAFEWARE, electrical power surges, brown-outs and black-outs, account for hundreds-of-thousands of computer losses per year, ranking second only to theft.

An **APC UPS** can protect against all mains surges and cuts. So why leave it to chance?

Protect yourself with an **APC** from **SMC**.



**ex VAT inc VAT**

### BackUPS

Lowest cost protection for desktop PC's, the BackUPS MI range have 3 mains/battery connectors and 1 surge/spike connector - which makes them ideal for printers.

89-90-0302 <b>300MI</b> 180 watts, for 486 with 15" monitor	£59	£69.33
89-90-0502 <b>500MI</b> 300 watts, for Pentium with 15" monitor	£75	£88.13
89-90-0654 <b>650MI</b> 400 watts, for Pentium with 17"+ monitor	£115	£135.13

### BackUPS PRO

High Performance PC protection with voltage regulation and shutdown software for Windows, Win95. Supplied with serial cable.

89-90-0280 <b>280</b> 200 watts, for 486 with 15" monitor	£85	£99.88
89-90-0652 <b>650</b> 460 watts, for Pentium with 17" monitor	£155	£182.13

### SmartUPS

High Performance protection for servers, with Smart Boost, Smart Trim and shutdown software for Windows, Win95, WinNT, SCO UNIX, Novell Netware. Supplied with serial cable. Also available in Rack Mount version.

89-90-0710 <b>700</b> 500 watts, for Pentium with 17"+ monitor	£199	£233.83
89-90-1010 <b>1000</b> 700 watts, for single server	£249	£292.58
89-90-1410 <b>1400</b> 1000 watts, for single server	£333	£391.28
89-90-2210 <b>2200</b> 1550 watts, for multiple servers	£531	£623.93
89-90-3010 <b>3000</b> 2135 watts, for multiple servers	£845	£992.88

**NETWORKING PRODUCTS**

For SMC's unique guarantee : see page 2

**SMC Direct is a trading name of :  
SMC Computers Plc**

**253-257 Farnham Rd Slough Berkshire SL2 1HA**



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### What is ISDN ?

**Integrated Services Digital Network (ISDN)** is the latest telecommunications technology, utilising fibre optics and digital systems. Data transfer is pushed up to 64Kbit/s or 128Kbit/s using bonded (2x) channels, with rates up to 460Kbit/sec using V.42 bis compression. All this makes an ISDN modem up to 5 times faster than a standard modem. **IMPORTANT :** All ISDN modems require the use of an ISDN line ; if connected to a non-ISDN line, they will not function.

## MODEMS



91-79-9191  
**56k Message modem** **£89**  
£104.58 inc.VAT



#### With Independent Messaging Facilities

Integrates x2 and V.90 Technology allowing users to download from the Internet and other x2/V.90 hosts at speeds up to 56Kbps\*. Its Independent Voice Messaging facility stores incoming fax and voice messages - even when your computer is switched off. The 2Mb chip can store approx. 25 faxes or approx. 35 voice messages of about 20 seconds in length, and voice messages can be retrieved through a dial-up connection. Integrated Flash memory offers capability for future features and enhancements.

\* Due to varying line conditions, the download speeds you experience may be lower.

#### US Robotics 56K\* Winmodem Internal

Designed exclusively for the Windows™ operating environment, the US Robotics Winmodem utilizes the processing capabilities of your own computer and the functionality of Windows to provide a complete communications device for the home or office. It features 56K X2 technology and is upgradeable to the V.90 ITU 56K standard which is available now. The Winmodem is Windows™ 95 Plug & Play and automatically detects and configures the modem during installation. The Winmodem also features personal voice messaging, call discrimination, remote voice and message retrieval, and full duplex speakerphone for hands-free telephone conversations\*. Free Internet/on-line trial software are included to enable the user to be surfing the web in minutes.

91-79-3392  
**£55**  
£64.63 inc.VAT



\* To utilise all voice features an external speaker, headset or soundcard is required.

#### US Robotics Courier-I Modem

91-79-4906

**£239**

£280.83 inc.VAT

#### BENEFITS :

- > Super-fast connection speeds
- > Flash Upgradable
- > Analogue compatible (through ISDN line)
- > Plug & Play support

The Courier-I modem has the flexibility of both high-speed analogue and ISDN connectivity in one single desktop product. Speeds of up to 128K/sec are obtainable using ISDN. Even using analogue via an ISDN line, speeds of up to 56Kb/sec can be achieved by using X2 Technology. This versatility enables the Courier-I modem to fulfil a variety of functions with high-speed connections.

## MODEMS : PACE

ex VAT inc VAT

All Pace Modems include cables, manuals, software, 2-year warranty, lifetime technical support and **FREE** Internet trial bundles.

91-91-5662	56k Voice Modem : Internal (56k Flex technology)	£65	£76.38
91-91-5666	56k Voice Modem : External (56k Flex technology)	£85	£99.88
91-91-5664	NB56 Voice : PCMCIA K56 Flex data, 14,400 Fax	£89	£104.58
91-91-5670	Solo 56k Voice Modem using K56 Flex Message Management & Answerphone	£142	£166.85

## MODEMS : 3COM/US ROBOTICS

ex VAT inc VAT

All US Robotics modems come with 5-year warranty and lifetime tech. support. These are compact, easy to use products designed to offer the fastest connection to the outside world. Based on an award-winning series, their performance, features, reliability and low price make a combination that's very hard to beat.

### SPORTSTER Range

#### External

91-79-6590	<b>56k Voice Fax modem</b> , 14,400bps fax speed, X2 and V90 compatible, flash upgradable, includes software and cables	£72	£84.60
91-79-9191	<b>56k Message modem</b> , x2 Technology enables speeds up to 56Kbps.	£89	£104.58
91-79-2225	<b>56k Professional Message modem</b> . Flash upgradable. Answerphone & message management with built-in speaker & microphone. X2 and V90 compatible	£111	£130.43
91-79-5001	<b>56k Data Fax modem</b> , X2 and V90 compatible	£59	£69.33

#### Internal

91-79-6090	<b>56k Voice Fax modem</b> , 14,400bps fax speed, X2 and V90 compatible, flash upgradable, includes software and cables	£69	£81.08
91-79-3392	<b>Sportster 56k Winmodem</b> , 14,400bps Fax, with Data/Fax software, X2 and V90 compatible. Win'95	£55	£64.63

#### PCMCIA

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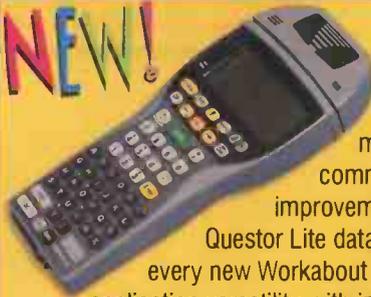
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Anthony George, our Customer Services Manager, is here to help you if things go wrong or if you have a complaint about advertisements that have appeared in Personal Computer World. Write to him with details of the complaint and he will contact you.

Anthony George  
Customer Relations Department  
VNU Business Publications  
VNU House, 32 - 34 Broadwick Street  
London W1A 2HG

#### Buyers Charter



When you order goods as a private individual reader from a UK supplier's advertisement in Personal Computer World and pay by post in advance of delivery to that Mail Order Advertiser who subsequently ceases to trade and goes into Liquidation or Bankruptcy prior to delivery of such goods, you may, under the "Buyers Charter", qualify for compensation, providing:

1. You have not received the goods or had your money returned.
2. You have followed the "Personal Computer World" guidelines when placing your order.
3. Have taken all reasonable steps to effect delivery or refund.
4. You have retained proof of purchase, for verification purposes:
  - a) A copy of the original advertisement from which the goods were ordered.
  - b) A copy of Personal Computer World's "Details of Transaction Form" (on opposite page).
  - c) Comprehensive proof of payment.

5. Submit claims so as to arrive "NOT EARLIER THAN TWENTY EIGHT DAYS AND NOT LATER THAN THREE MONTHS" from the official sale date of the magazine. Claims must be submitted to the Customer Services Manager **IN WRITING**, summarising the situation and lodged strictly within the time schedule stated. Claims received outside this period will not qualify for consideration for compensation under the "Buyers Charter".

After a supplier who has advertised has become subject to either liquidation or bankruptcy proceedings, Personal Computer World guarantees to process as expeditiously as possible those private individual readers' claims made and submitted, in accordance with those procedures outlined, up to the following limits.

- a) £2,000 in respect of any claim submitted by one Private Individual Reader.
- b) £100,000 in respect of all advertisers so affected in any one year.

These sums define the Publishers maximum liability under the scheme, and any additional payments above and beyond these thresholds will be entirely at the discretion of the Publishers.

As soon as legal confirmation that a state of liquidation or bankruptcy exists, the processing of claims will immediately commence. If, however, assets are available and the receiver/liquidator appointed confirms that an eventual payment will be made by way of a dividend, all claims under the "Buyers Charter" will be subject to re-processing and will take into account any shortfall which may then exist.

Payments under the scheme will take into consideration the obligations and liabilities of other interested parties such as credit card and/or insurance organisations etc.

This guarantee only applies to advance postal payments

made by private individuals in direct response for goods itemised/illustrated in display advertisements. It does not cover goods ordered from advertising inserts or cards, classified advertisements or MicroMart, or catalogues obtained from, or supplied by, any advertiser.

The "Buyer's Charter" is designed to safeguard the PRIVATE individual reader. It does not provide protection to any companies, societies, organisations, unincorporated bodies or any other commercially orientated outlet of any description. Similarly, cover is not provided for orders placed from or to any overseas companies or for goods purchased for resale.

#### CAVEAT EMPTOR

The protection of the "Buyers Charter" only applies to display advertisements carried in this publication. It is not designed for, nor will it protect the consumer, in circumstances whereby goods have been subsequently ordered and paid for as a direct result of any advertisements appearing on the Internet.

While limited protection still exists when Internet purchases are made from companies based in the UK, no such protection exists — other than that afforded by certain major credit card companies — relative to goods ordered from overseas organisations' web sites. We would strongly urge all readers to consider the following before purchasing via the Internet: Advertised prices invariably exclude transportation charges, do not account for currency fluctuations, Customs & Excise duties, VAT, documentation and/or importation restrictions. Statutory rights are virtually non-existent, guarantees — if any — impossible to enforce, replacement of faulty goods and/or refunds difficult to obtain, no official regulatory organisation to call upon for assistance when things go wrong, and **no protection under the "Buyers Charter"**.

## ENTRY-LEVEL PC

### Elonex MLX-6333/1

Despite its rock-bottom price, the Elonex MLX-6333/1 does not skimp on any necessary components. With its 300MHz Celeron processor and large 6.4Gb hard drive, this system's performance is actually higher than many others which cost much more. And with a good graphics card (the Diamond Viper 330) and good on-board sound, this will more than meet your expectations of a budget machine.

PCW January '99, p152



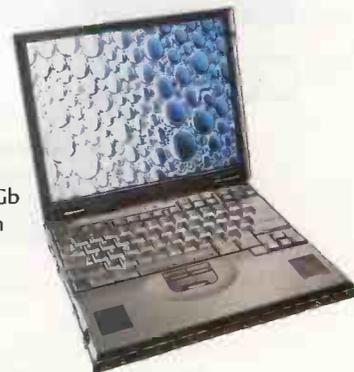
Price £700 Contact Elonex 0181 452 4444 Also Recommended Roldec Puma Price £700 Contact Roldec Systems 01902 456464 Linear Vantage XL Price £700 Contact Linear Direct 0181 408 9888 (both PCW January '99)

## HIGH-END NOTEBOOK

### IBM ThinkPad 600

Built for the road warrior, this thin, light notebook excels in its build quality. Based around a variety of processors, ranging from a Pentium 233MMX and going right up to a Mobile PII 266, it also has a huge 4Gb hard drive, 32Mb RAM and a 13.3in TFT screen.

PCW July '98, p79



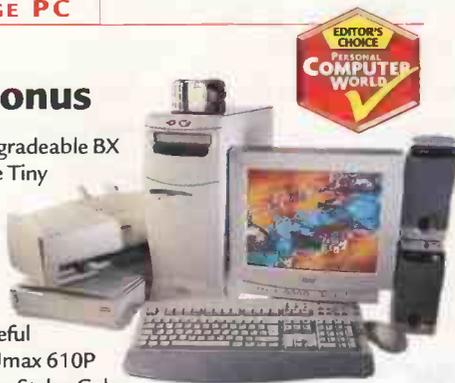
Price £4,266.43 Contact IBM 0870 601 0136 Also Recommended Gateway Solo 9100 Price £3,876.33 Contact Gateway 0800 282000 (PCW June 1998)

## MID-RANGE PC

### Tiny Family Bonus

With an easily upgradeable BX motherboard, the Tiny Family Bonus should keep you happy for a while. And it comes with no less than three useful peripherals: the Umax 610P scanner, the Epson Stylus Color 300 printer and the Fuji DX-5 digital camera.

PCW January '99, p148



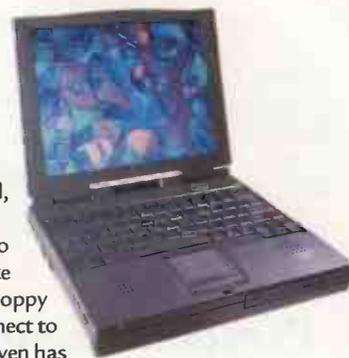
Price £1,056 Contact Tiny 0800 821333 Also Recommended Dan Xplora II Plus Price £1,018 Contact Dan 0181 830 1100 • Mertec XM300-K2 Price £999 Contact Mertec 01792 473700 (both PCW January '99)

## MID-RANGE NOTEBOOK

### Sony PCG-505G

Not only has the PCG-505G fabulous good looks, but it is also the ultimate in desirable equipment. It is incredibly small, thin and light for a fully fledged Windows 98 notebook, but also has everything you need to make working a pleasure. There is a floppy and docking station which connect to boost the functionality, and it even has 1394 built in as standard.

PCW December 98, p79



Price £2,300 Contact Sony 0870 2402408 Also Recommended Gateway Solo 2500 S6-300SE Price £2,173 Contact Gateway 0800 172000 (PCW October '98)

## HIGH-END PC

### Carrera Power Pro 2-450

In addition to being a speed monster, the quality of this machine's internal components far outstrips others. The SoundBlaster Live! audio card is a perfect gamer's card with its four speaker, surround-sound output. Similarly, the fast 450MHz Pentium II processor is a good companion to the powerful Diamond Viper V550 graphics card.

PCW January '99, p141



Price £1,550 Contact Carrera 0171 830 0486 Also Recommended Armani NBX-350 9S Price £1,498 Contact Armani 0181 810 7441 • Gateway G6-350 Price £1,397 Contact Gateway 0800 552000 (both PCW Jan '99)

## PDA

### Hewlett-Packard 620LX

For cutting-edge technology in your pocket, Hewlett-Packard's 620LX has to be the only choice. It's based on the latest Windows CE2 operating system and is the first PDA we've seen with a colour screen. It's utterly gorgeous and, at £799, a serious threat to many notebooks. PDA fans should also check out the Psion Series 5 and the 3Com PalmPilot.

PCW May '98, p262



Price £799 Contact HP 0990 474747 Also Recommended Psion Series 5 Price £429.9 Contact Psion 0990 143050 • 3Com PalmPilot Pro Price £229 Contact 3Com 0800 225252 (both PCW May '98)

### COLOUR INKJET

## Hewlett-Packard DeskJet 890C

As all-round colour inkjet printers go, Hewlett-Packard's DeskJet 890C is hard to fault. Equally happy with photos or business graphics, it's our choice for the home or small office. Meanwhile, those on a budget should look no further than Canon's BJC-250, but those wanting the bigger picture will not be disappointed with HP's DeskJet 1120C A3.

▶▶ PCW September '98, p186



Price £317.25 Contact HP 0990 474747 Also Recommended Canon BJC-250 Price £116.33 Contact Canon 0121 6808062 • HP DeskJet 1120C Price £446.50 Contact HP 0990 474747 (both PCW September '98)

### COLOUR PHOTO PRINTER

## Epson Stylus Photo 700

Colour inkjets have split into two categories, with this type clearly designed to reproduce the most realistic colour photographic prints. Epson has for a long time been the undisputed leader and its Stylus Photo 700 is our choice for inkjet photo printing. However, Lexmark comes very close behind with its 5700.

▶▶ PCW September '98, p188



Price £273 Contact Epson 01442 261144 Also Recommended Lexmark 5700 Price £229 Contact Lexmark 01628 481500 (PCW September 1998)

### BUDGET LASER PRINTER

## Panasonic KX-P6300

A decent laser printer at under £200 excluding VAT? That's Panasonic's KX-P6300, which not only turns out great results in fast time but also boasts one of the smallest footprints of any printer. Its unusual vertical design, along with being a great-value all-rounder, made it our Editor's Choice in our entry-level laser group test.

▶▶ PCW February '98, p194



Price £217.38 Contact Panasonic 0500 404041 Also Recommended Kyocera FS-600 Price £280.83 Contact Kyocera 01734 311500 • Minolta PagePro 6 Price £351.33 Contact Minolta 01908 200400 (both PCW February '98)

### BUSINESS LASER PRINTER

## Hewlett-Packard LaserJet 4000TN

King of the laser printers, Hewlett-Packard has impressed us yet again with its latest office machine. Being 25 percent faster than the LaserJet 5, with 10,000-page toner cartridge, two 250-sheet input trays, network interfaces as standard and boasting superb output, the 4000TN should be the first choice as an office workhorse.

▶▶ PCW February '98, p77



Price £1662.63 Contact HP 0990 474747 Also Recommended QMS DeskLaser 1400P Price £938.83 Contact QMS 01784 442255 (PCW March '98)

### MULTIFUNCTION DEVICE

## Hewlett-Packard LaserJet 3100

Good laser-print quality from this quiet machine. It's intelligent enough to detect a document dropped into its feeder and it will launch an idiot-proof menu for scanning, copying and emailing. Fast, accurate OCR and 2Mb memory for incoming faxes when the paper supply is exhausted, makes the 3100 an ideal multifunction device.

▶▶ PCW June '98, p83



Price £629 Contact HP 0990 474747 Also Recommended Canon MultiPASS MPC20 Price £370.13 Contact Canon 0181 773 3173 (PCW January '98)

### FLATBED SCANNER

## Umax Astra 610P

Once again, the Umax Astra 610P parallel-port scanner has won our budget flatbed scanner group test, boasting an unbeatable combination of performance and value. Note that our three recommended scanners require enhanced parallel ports found only on modern PCs, so older systems, or users wanting top performance, should stick to SCSI.

▶▶ PCW September '98, p229



Price £69.33 Contact Umax 01344 871329 Also Recommended Agfa SnapScan 310P Price £116.50 Contact Agfa 0181 231 4200 • Microtek Phantom 330CX Price £75.95 Contact Microtek 01908 317797 (PCW Sept '98)

## DIGITAL CAMERA

### Kodak DC260

Once again Kodak has produced the best digital camera for under £1,000. Not only does it have a high resolution, producing excellent images at 1536x1024 pixels, but it also has a 3X zoom. Add its advanced features, including scripting facilities and you have a highly desirable and indispensable camera.

PCW October '98, p226



Price £899 Contact Kodak 0800 281487 Also Recommended Epson PhotoPC 700 Price £587.50 Contact Epson 0800 289622 • Ricoh RDC-4300 Price £599 Contact Ricoh 01782 753355 (both PCW October '98)

## MONITOR

### Nokia Multigraph 447Za

No matter what you do, it's vital to get a good monitor with a clean, flicker-free display. In April 1998's group test we looked at 17in models and found Nokia's Multigraph 447Za to be the best in our entry-level category. Those with more to spend should check out the Mitsubishi (see panel, below) which was our Editor's Choice in the high-end section.

PCW April '98, p204



Price £440.63 Contact Nokia 01793 512809 Also Recommended Mitsubishi DiamondPro 700 Price £569.88 Contact Mitsubishi 01707 276100 (PCW April '98)

## MODEM

### Diamond SupraExpress 56e Pro

With ever-shifting goalposts, it makes sense to go for a modem which supports all the current standards, as well as simultaneous voice and data. Combine this with a roaring speed, superb ease of use and a low price, and you have the best-value modem around.

PCW December '98, p211



Price £75 Contact Diamond Multimedia 0118 944 4401 Also Recommended Zoom FaxModem 56Kx Price £89 Contact SCS Data Communications 01494 748904 (PCW December '98)

## REMOVABLE STORAGE

### Iomega Jaz 2Gb

With such different capacities, interfaces and prices there is no one removable storage device to satisfy all needs. With the large capacity of 2Gb, the Jaz drive from Iomega should act as both an overflow for your hard disk and a back-up device to store all your vital data. If you are looking for something smaller, try either the Iomega Zip, with a capacity of 100Mb or the 120Mb LS-120.

PCW August '98, p118



Price £270 Contact Iomega 0800 973194 Also Recommended Iomega Zip Price £70 Contact Iomega 0800 973194 • Imation SuperDisk 120 Price £105 Contact Imation 01344 402200 (both PCW August '98)

## SOUND CARD

### Terratec EWS64 S

A cut-down version of the heavyweight EWS64XL, Terratec's S model still boasts much of the same sampling and processing capabilities and is also a great games card with accelerated DirectSound and positional 3D audio. There's a digital I/O option and upgradeable sample memory, and the decent software bundle includes Cubasis AV.

PCW July '98, p210



Price £149.23 Contact Terratec 01600 772111 Also Recommended Creative Labs AWE 64 Gold Price £129.25 Contact Creative Labs 01245 265265 (PCW July '98)

## GRAPHICS CARD

### Diamond Viper V550

Sporting Riva's latest TNT chipset, the Viper V550 gives absolutely storming 3D performance, with a full 3D feature set and good image quality to boot. Its 16Mb of RAM gives ultra-high 2D desktop resolutions in standard Windows applications.

PCW November '98, p198



Price Approx £150 Contact Diamond Multimedia 0118 944 4400 Also Recommended MetaByte Wicked 3D Price £211.50 Contact Watford Electronics 01582 745555 (PCW November '98)

## ACCOUNTING

### Tas Books MYOB

Ideal for the owner-manager and good for bookkeepers too, Mind Your Own Business (MYOB) is our choice for accountancy software. We also recommend TAS Books which offers good bookkeeping and very powerful analysis.

PCW June '98, p198



Price £229.13 Contact Bestware 01752 201901

Also Recommended TAS Books Price £116.33 Contact Megatech 01372 727274 (PCW June '98)

## DATABASE

### Microsoft Access 97

The industry-standard database application is also the best. With its wizards, infamous Office Assistants and standard Windows interface, Access 97 is relatively easy for the novice. And its powerful relational features and VBA integration make it suitable for developers, too.

PCW November '98, p220



Price £299 Contact Microsoft 0345 002000

Also Recommended FileMaker Pro 4 Price £169 Contact FileMaker 0845 603 9100 (PCW November '98)

## IMAGE EDITING

### Ulead PhotoExpress 2.0

Ulead has succeeded in removing the frustration factor often involved in getting to grips with digital pictures. PhotoExpress 2.0 is a pleasure to use, with a great, clearly structured interface and fast, in-depth tools. It has pre-set editing modes for the novice and custom adjustments for each editing function, so the power user will be kept happy, too.

PCW January '99, p202



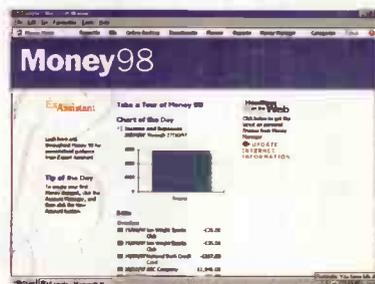
Price £34.95 Contact BIT 01420 83811 Also Recommended Adobe PhotoDeluxe 3 Price £45.83 Contact Adobe 0181 606 4001 • Paint Shop Pro 5 Price £69.95 Contact Digital Workshop 01295 258335 (both PCW Jan '99)

## PERSONAL FINANCE

### Microsoft Money Financial Suite 98

Microsoft Money Financial Suite 98 is our choice for personal finance. It offers online banking and updating facilities, plus Sage compatibility, all at a bargain price.

PCW May '98, p196



Price £49.99 Contact Microsoft 0345 002000

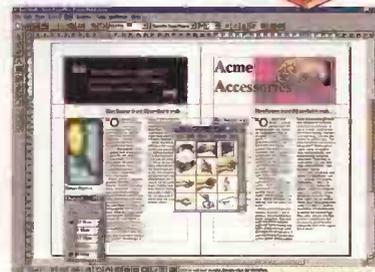
Also Recommended Quicken 98 Price £39.99 Contact Intuit 0181 990 5500 (PCW June '98)

## DTP

### Serif PagePlus 5

Inexpensive, easy to use and surprisingly well equipped, PagePlus 5 offers extremely capable desktop publishing. Those wanting the choice of professional publishers will have to fork out more for Quark XPress 4.0.

PCW June '98, p132



Price £99.95 Contact Serif 0800 376 7070

Also Recommended Quark XPress 4 Price £1,169 Contact Quark 01483 454397 (PCW June '98)

## DRAWING

### Corel CorelDraw 8

Not one of Corel's classic years, but this is still the Windows drawing package to own. Version 8 of the giant suite boasts better drawing and new interactive tools. Budget drawers should check out Micrografx Windows Draw 6.

PCW October '98, p203



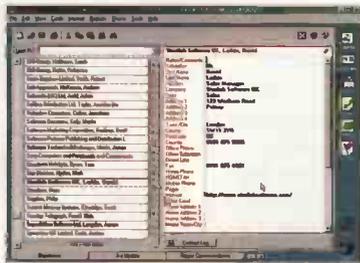
Price £464.13 Contact Corel 0800 581028 Also Recommended Adobe Illustrator Price £351.32 Contact Adobe 0181 606 4000 • Freehand Price £327.82 Contact Macromedia 01344 458600 (both PCW October '98)

## INFORMATION MANAGERS

### Starfish Sidekick 98

The best personal information manager boasts wide customisability as its greatest strength. For heavyweight contact management, look no further than Goldmine 4 (see panel, below).

▶▶▶ PCW August '98, p204



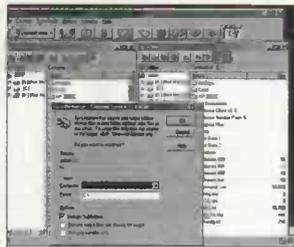
Price £39.99 Contact Starfish 0181 875 4455  
Also Recommended Goldmine 4 Price £229 Contact AVG 0171 335 2222 (PCW August '98)

## REMOTE ACCESS

### Traveling Software LapLink Tech

The high-end version of this extremely versatile product, LapLink Tech, has all the features of the standard version but also lets you print from the host machine on to a remote printer, or vice-versa, and talk to whoever is using the host machine. It includes anti-virus and hard-disk cloning utilities.

▶▶▶ PCW December '98, p233



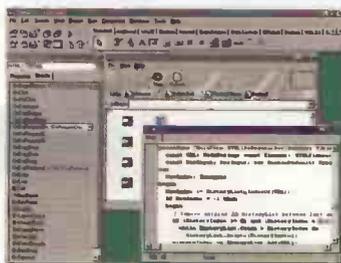
Price £169.95 Contact Traveling Software 01344 383232  
Also Recommended Symantec pcAnywhere Price £75.08 Contact Symantec 0171 616 5600 (PCW December '98)

## PROGRAMMING TOOL

### Symantec Visual Café 2

Visual Café 2 is the most productive visual Java tool and has the option of native-code compilation for Windows. Windows developers should go for Borland Delphi 3 which, although more complex, comes into its own on larger applications.

▶▶▶ PCW April '98, p177



Price from £79 Contact Symantec 0171 616 5600  
Also Recommended Borland Delphi 3 Price £95.18 Contact Borland 01734 320022 (PCW April '98)

## PRESENTATION GRAPHICS

### Lotus Freelance 97

Our choice for electronic presentations. It may also come down to which office suite you own or are considering: as part of Microsoft Office 97, PowerPoint won't let you down.

▶▶▶ PCW March '98, p200



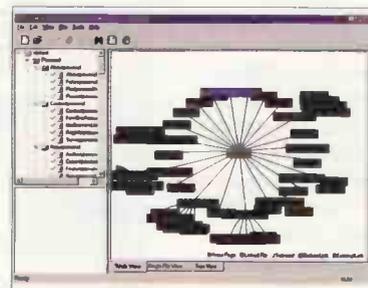
Price £49.35 Contact Lotus 01784 445808  
Also Recommended MS PowerPoint 97 Price £325.47 Contact Microsoft 0345 002000 (PCW March '98)

## WEB DESIGN

### SoftQuad HotMetal Pro 4.0

An excellent all-rounder, HotMetal Pro 4 gets our thumbs up for web design. For a slick interface and Office 97 integration, Microsoft's FrontPage 98 is worth a look.

▶▶▶ PCW January '98, p196



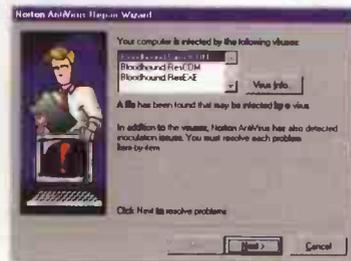
Price £123.38 Contact SoftQuad 0181 387 4110 Also Recommended FrontPage 98 Price £116.30 Contact Microsoft 0345 002000 (PCW January '98) • Adobe PageMill 3.0 Price £92.83 Contact Adobe 0181 606 4001 (PCW May '98)

## ANTI-VIRUS

### Norton AntiVirus 4.0

AntiVirus 4.0 is our choice for protecting your PC. It offers the best combination of features, ease of use and performance. Its virus detection rate is first class and there are free online updates for the life of the product.

▶▶▶ PCW April '98, p124



Price £49 Contact Symantec 0171 616 5600  
Also Recommended Dr Solomon's HomeGuard Price £29 Contact Dr Solomon's 01296 318700 (PCW April '98) • F.Secure 4.0 AntiVirus Price £109.27 Contact Portcullis 0181 868 0098 (PCW April '98)

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4 PCI/3 ISA SLOTS  
ATX MIDI TOWER CASE  
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64 MB SDRAM  
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AWE 64 SOUND BLASTER  
36 SPEED CD ROM DRIVE  
4 PCI/3 ISA SLOT  
1.44 MB FLOPPY DRIVE  
ATX MIDI TOWER CASE  
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CREATIVE AWE 128 PCI S/BLASTER  
36 SPEED CD ROM DRIVE  
1.44 MB FLOPPY DRIVE  
ATX MIDI TOWER CASE  
W/95 KEYBOARD & MOUSE  
56K INT. V90 MODEM  
200W POWER SPEAKERS  
17" DIGITAL MONITOR  
LEXMARK 5700 COLOUR PRINTER

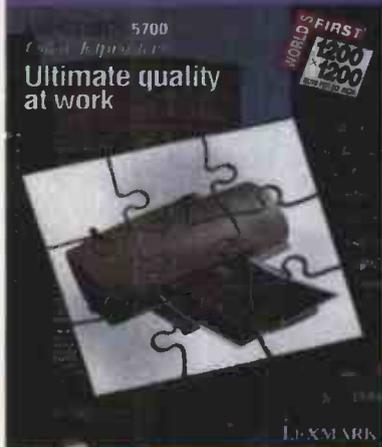
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LS120 SUPPER FLOPPY DRIVE  
8 MB 3D AGP EXPERT 98  
AWE 64 SOUND BLASTER  
INT. CDRW SCSI DRIVE & MEDIA  
4 PCI/3 ISA SLOTS  
ATX MIDI TOWER CASE  
MICROSOFT K/BOARD & MOUSE  
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8 MB 3D AGP EXPERT 98  
16 BIT SOUND CARD  
36 SPEED CD ROM DRIVE  
1.44 MB FLOPPY DRIVE  
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## IMPORTANT INFORMATION

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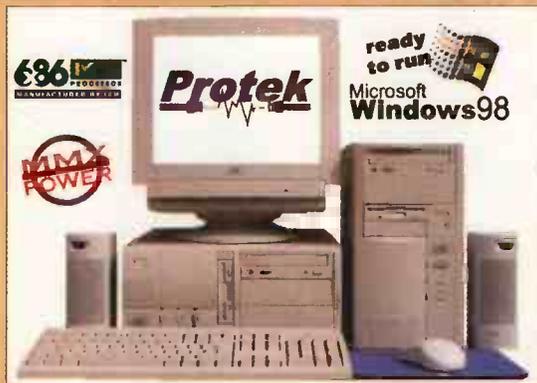
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**PERSONAL  
COMPUTER  
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WORLD**

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d-Barcode-32 Developers Kit	£139	dsSocket OCX 1.7	£70
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Chart FX Enterprise 3.0	£254	Multi-Function	
First Impression 5.0	£133	ActiveX Component Suite	£209
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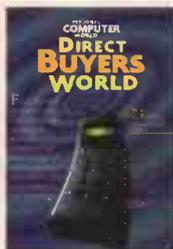
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The place in PCW where you can **compare prices** on a wide range of hardware and software. The card insert at page 324 marks the start of the section.

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Our intelligent cash drawer includes as standard serial and parallel interfaces, each with pass-through option with choice of activation codes. The drawer also features a security keylock and front slot for non-cash transactions.



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*General*

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### MCK142 PRO

All the keys you'll ever need! Two sets of function keys, enhanced style 102 layout and 24 user-programmable function keys. A great keyboard for terminal emulation.

### MICROPADS

Keypads for all applications: numeric pads for notebooks, keyboard replacements, function keypads – we can customise the standard models or make complete custom designs to match your needs exactly.

### TRACKBALLS

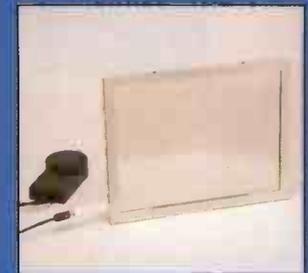
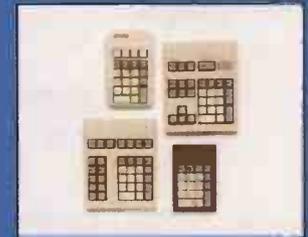
Our new trackball range features the new infrared Star Track for remote control of presentation, demonstration and any other mouse applications. Two desktop models offer the choice of thumb or finger operations with two enclosure styles. All trackballs can directly replace a serial mouse.

### TOUCH SCREENS

Our new touch screen panel clips directly to your existing monitor and, through the supplied serial interface and software, can emulate a mouse for instant touch control of your applications – or use it as a development tool for your own touch screen programmes. Fits 14" and 15" screens. Bonded touch monitors also available.

### KEYPORT

The latest Keyports now include a full PC keyboard wedge interface – just plug into the keyboard port, with or without your keyboard attached, and you're ready to programme your own layout. Software to download programme and design overlay included.



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## No-one... nowhere... wants an email from you

**HATE EMAIL JOKES.** In fact, hate is perhaps not a strong enough emotion to describe the feeling you get when you receive the same Clinton/Lewinsky joke *for the fourteenth time!* The intense fury and frustration you feel cannot be a good thing when you consider the original intention was, presumably, to make you laugh. Have you noticed, too, that the source of this so-called humour is very often the US? Don't get me wrong, I put Frasier and Larry Sanders at the top of my favourite TV comedies, but sadly their script writers don't seem to have anything to do with those hilarious lists which are emailed (27 times) concerning the differences between men and women, office politics and such like. I blame a lack of email etiquette. You know what I'm talking about: those thousands of office workers who've just been given access to the net without any training. I'm not saying the so-called technophiles are any better, always complaining about wasted bandwidth and using impenetrable acronyms, but at least they tend to leave the jokes alone.

**Those who insist** on mindlessly forwarding email humour may want to at least delete the often enormous headers that precede them. You know, the ones which contain megabytes-worth of addresses and the occasional throw-away remark about how this really reminded them of someone called Brad. In fact, rather than delete the headers, the jokesters have discovered...



**ATTACHMENTS.** Why send a mere text joke when you could distribute the security-video'd bloke who punches his monitor (pictured, above) or the poorly Photoshop'd screen-grab of Carol Vorderman next to the Countdown vowels and consonants which — wait for it — now read as something slightly naughty? I received that one no less than 12 times, each accompanied by longer and longer headers which also included my name from when I had *originally* received it several months earlier.

There is one thing more annoying than a poor American joke, and that's the fake virus warning. You know, the one which threatens to "erase your hard disk, and all your colleagues' hard disks, and your mother's hard disk, too". Wow! Glad I got that warning before my entire business and family got wiped out.

**Was I the only one** who was told at school that chain letters were an evil thing? At least my company bears the financial brunt of downloading all this rubbish. Attachments are bound to be

banned soon, though, which will really affect anyone trying to send genuine work. I guess our carefree buddies across the Atlantic don't see it as a problem, since they get free local calls and hence internet access at no charge. *No wonder they're laughing!*

▲ THIS MAN HAS JUST RECEIVED HIS 156TH MONICA LEWINSKY EMAIL JOKE — BE WARNED!

IVOR BUGBEAR

### Oops!



- In *Letters*, PCW December [p64] the winner of the star prize was robbed of his fame when his name went walkies. Congratulations to B. Cooke, of Loughborough, who walks away with a 17in Taxan monitor.
- Also in December [p41] we said that "by the end of 1997, 27 percent of all households in the United States had purchased airline tickets online". This should have read, "27 per cent of all US households that shop online, had purchased airline tickets online."

## next month

### BUDGET PCs GROUP TEST

If the Christmas and New Year celebrations have left money too tight to mention, why not check out our budget PCs group test? We've compared ten models, each for the amazing price of only £499.

### LASER PRINTERS

From small-office workhorses to printers with the personal touch, for our group test we have rounded up 18 lasers that will make you look great in print and which will not break the bank.

### INKJET PRINTERS

Don't spend a fortune at your local lab on photo reprints — today's colour inkjet printers can do the same job in the



### MAKE SURE YOU GET THE NEXT ISSUE OF PERSONAL COMPUTER WORLD

Complete this coupon and hand it to your newsagent.  
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 Please reserve for me a copy of the **FEBRUARY 1999** issue of *PERSONAL COMPUTER WORLD*, on sale **31st Dec.** Thereafter, please reserve for me each month a copy of *PERSONAL COMPUTER WORLD* until I advise otherwise. I understand that I may cancel my order at any time.

Name .....  
 Address .....  
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 Signature ..... Date .....

**FEBRUARY '99 ISSUE >**  
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Being the longest established British computer company, our dedication to customer needs remains unaltered. Viglen boasts one of the UK's most modern automated factories, providing an entire range of built-to-order systems. And, by delivering the latest in leading edge technology at great value prices with unequalled customer support, we have built quite a reputation. A reputation that's frequently reflected in the computer press.



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"Very, very fast with huge storage capabilities.... if you want your apps to fly, look no further" - *Editor's Choice*, Viglen C2 Plus 400, Personal Computer World, September 1998

"...a fast business solution at a fair price..." - *Recommended*, Viglen BizPro S 450DS, PC Direct, November 1998

"Super-fast. Loads of features. Great build quality. The fastest notebook we've seen at a low price we can scarcely believe" - *Recommended*, Dossier M, Personal Computer World, August 1998

"For topnotch graphics performance, this is the PC to choose" - Viglen BizPro S 450ES, What PC, October 1998

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The quality of our systems is second to none, a record recognised in review after review. Our BS EN ISO 9002: 1994 quality accreditation means that every PC that leaves our factory is manufactured to the highest possible standards. What's more, the seven strenuous tests we personally impose on all our products also leave the quality of our systems in no doubt.

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**BY E-MAIL** - sales@viglen.co.uk

Official orders from educational establishments, government departments and PLC's accepted.

**\*\*Buy Now, Pay Autumn 99** - Why not spread the cost of your purchase? As a Viglen customer, you can now take advantage of our Buy Now, Pay Later scheme, which entitles purchasers to 0% finance for a whole 12 months! Example: Total cash price £999. Deposit (10% minimum) £99.90. Loan value £899.10. Repayments: EITHER one repayment at the end of month 12 of £899.10 - total amount payable £999, INTEREST FREE. OR at the end of month 12, 36 monthly repayments of £36.47 - total amount payable of £1412.82, APR 29.9%.

**\*Easy2Own** monthly payment scheme is available to private purchasers. Typical example of payment calculation of PC costing £999 inc delivery and VAT. 10% deposit of £99.90. Value of loan £899.10, repayment equals 36 monthly payments of £31.90 (APR = 17.9%). Total payment £1248.30. Viglen is a licensed credit broker.

All Viglen personal finance plans are subject to status. Applicants must be aged over 18. Written details are available on request and additional payment protection insurance is available.

Very competitive Lease Rental Arrangements are available for bona fide businesses, educational and government establishments.

EDI Purchase orders via electronic data interchange accepted using INS Tradanet service.

Public Sector customers may also purchase all Viglen systems through The Stationery Office by calling 01603 694153 and GCat on 0870 6041000, for further details.

Viglen systems are exclusively distributed in EIRE by Lendac Data Systems, Unit 6 IDA Enterprise Centre, Pearse St, Dublin 2, Ireland. Tel No: Dublin 6776133 Fax No: Dublin 6710135. Prices in Eire differ from those quoted in this advertisement.

web <http://www.viglen.co.uk>

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# Have an Awesome Christmas



4X DVD ROM &  
Movie Player

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3D Accelerator

Leading Software  
Titles Included



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Strictly  
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## Viglen's award-winning HomePro Series.

Since its launch, everyone's been talking about Viglen's HomePro series. The PCs have won a whole host of awards from leading computer magazines. And little wonder. Take a look at just a few recent comments from reviews:

"Viglen's level of presentation is first rate, as is its choice of components" Computer Shopper, September 1998

"... this PC is bulging from all sides with gorgeous gear" T3, November 1998

"... a great home office and games PC" PC Direct, November 1998

Building on this phenomenal reputation, Viglen now proudly presents the HomePro Awesome Plus, taking performance to new and unparalleled levels. Combining the power of the Intel® Pentium® II processor 450MHz with a massive 128Mb RAM, and delivered with the very latest DVD ROM technology and software Movie Player, the Awesome Plus offers a multimedia experience that is second to none. Including three awesome software bundles featuring the very best in application, multimedia, education and entertainment titles.

So, if it's speed and power you are after this Christmas, think the Awesome Plus from Viglen.

### The Awesome Plus

- ◆ Intel® Pentium® II Processor 450MHz
- ◆ 100MHz Front Side Bus
- ◆ 128Mb PC100 RAM
- ◆ 512Kb cache on CPU
- ◆ 10Gb Hard Drive
- ◆ LS-120 120Mb SuperDisk Floppy Drive
- ◆ 4X DVD ROM + Software Movie Player
- ◆ ATI Xpert 98 8Mb AGP 2x Graphics
- ◆ Diamond Monster 3D II Card (12Mb 3Dfx Voodoo 2)
- ◆ Yamaha XG based 3D Wavetable Sound
- ◆ 56Kbps V90 modem
- ◆ 2 serial, 1 parallel, 1 games, 2 PS/2 ports
- ◆ 19" SuperVGA Colour Monitor
- ◆ Stereo speakers with subwoofer
- ◆ Keyboard
- ◆ Microsoft® Intellimouse
- ◆ Microsoft® SideWinder Joystick
- ◆ LIMITED OFFER Free Internal Photoscanner\*
- ◆ Microsoft® Windows®98
- ◆ Microsoft® Home Essentials
- ◆ Interactive Gold Software Pack\*\*
- ◆ 3D Platinum Software Pack\*\*

SYBB4526

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**£1599<sup>00</sup>**  
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Web <http://www.viglen.co.uk>

9am - 5.30pm Weekdays 9am - 1pm Saturday  
Quote ref: PCW01.99

### Awesome Plus software:

- ◆ Microsoft® Word® '97
- ◆ Microsoft® Works® 4.5
- ◆ Microsoft® Money '98
- ◆ Encarta World Atlas 3.0
- ◆ Microsoft® Windows® Puzzle Collection
- ◆ Oxford Interactive Encyclopaedia
- ◆ Heart Of Darkness
- ◆ Command & Conquer: Red Alert
- ◆ Heavy Gear
- ◆ Need for Speed II Special Edition
- ◆ Tomb Raider II

See inside for details

COMPUTERS ◆ NETWORKS ◆ SOLUTIONS



# Viglen

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# The Viglen HomePro Series

When it comes to choosing PCs, Viglen is well equipped to cater for all your needs. Within our award-winning HomePro range, you'll find a system that's just perfect for you - right up to latest state-of-the-art Intel® Pentium® II processor technology running at an amazing 450MHz, providing you with a multimedia experience that is second to none.

And as with all Viglen PCs, you know that your system comes with unrivalled technical support and after-sales service.

So whether it's an entry level family PC, an all-round home office workhorse or the very best in multimedia power, Viglen's got the best solution.



## Viglen's Software Advantage

### MICROSOFT HOME ESSENTIALS '98

Every single Viglen HomePro system comes shipped as standard with Microsoft's fully-rounded Home Essentials '98 software suite. A wide range of fully-featured applications worth hundreds of pounds, from the world's leading Word Processing software, through multimedia-rich education to entertainment titles and more, Home Essentials covers all your software requirements.

**Microsoft® Word® '97** Latest release of the world-famous and market-leading power word processing package.

**Microsoft® Works® 4.5** Five essential tools for easier everyday computing. Word processor, spreadsheet, database, graphics and communications tools.

**Microsoft® Money® '98** Complete set of financial management tools for managing your personal finances, budgets and investments.

**Encarta World Atlas 3.0** Superb interactive and multimedia enhanced atlas, ideal for both reference and education.

**Microsoft® Windows® Puzzle Collection** Exciting puzzle and game compendium, providing hours of fun and intrigue.

### INTERACTIVE GOLD PACK

What's more, all Viglen HomePro models are additionally supplied with the following incredible value bonus software pack, featuring the very best in multimedia encyclopaedias and two chart-topping entertainment titles:

**Oxford Interactive Encyclopaedia** Massive information resource from one of the world's most respected publishers. Featuring full multimedia content, including video and audio clips and high-res pictures, this acclaimed encyclopaedia is both easy to use, enjoyable and hugely educational.

**Heart Of Darkness** With state of the art 3D cartoon-like graphics, and a perfect mix of strategy and action, Heart Of Darkness sets a new standard in adventure games. Featuring ground-breaking fully rendered and textured 3D graphics.

**Command & Conquer: Red Alert** Manage an entire war for control of the world! Latest release in the series of award-winning real-time strategy games, C&C:Red Alert offers improved artificial intelligence when playing a computer opponent and live head-to-head play over the Internet.

### 3D PLATINUM PACK

If all this wasn't enough, to highlight the amazing graphics capability of the fitted Voodoo 2 3D Accelerator, all Viglen HomePro Awesome and Awesome Plus models are additionally supplied with 3 extra 3D rich award-winning games and 4 demos, as listed below:

**Heavy Gear** Full version. Take command of your own Battle Robot.

**Need for Speed II Special Edition** Full version. Exciting arcade-style high-speed racing game.

**Tomb Raider II** OEM version. Phenomenal million-selling arcade adventure.

**Incoming, Battlezone & Flight Unlimited** (playable demos).  
**Final Fantasy VII** (non-interactive demo).

# More Awesome

## Ⓐ HomePro Value

Just perfect as the family's first PC, the HomePro Value is a fully configured multimedia and internet ready system. With no compromise on specification, the HomePro Value offers an unequalled combination of performance and value for money.

- ◆ Desktop Case
- ◆ 32Mb RAM
- ◆ 3.2Gb Hard Drive
- ◆ 1.44Mb Floppy Drive
- ◆ 32X Speed CD ROM
- ◆ 2Mb AGP Graphics
- ◆ Wavetable Sound
- ◆ 56Kbps V90 modem
- ◆ 1 serial, 1 parallel, 1 games, 2 PS/2 ports
- ◆ 15" SuperVGA Colour Monitor with sidemount stereo speakers
- ◆ Keyboard
- ◆ Microsoft® Intellimouse
- ◆ Microsoft® Windows® 98
- ◆ Microsoft® Home Essentials
- ◆ Interactive Gold Software Pack

**EASY 2 OWN**  
from  
**£25.29**  
per month\*  
**APR 17.9%**

from  
**£649.00**  
exc. delivery & VAT  
from  
**£791.95**  
inc. delivery & VAT

	Exc Del & VAT	Inc Del & VAT	Order Code	Easy2Own
Intel® Celeron™ Processor 300MHz	£649.00	£791.95	SYHV30C6	£25.29
Intel® Celeron™ Processor 333MHz 128Kb cache	£699.00	£850.70	SYHV33M6	£27.16



## Ⓒ HomePro Awesome

Featuring the very latest in technology with 100MHz FSB (front side bus) combined with Intel® Pentium® II processor speeds of up to 450MHz, the HomePro Awesome is the most advanced multimedia system of its kind. ATI Xpert AGP 2x graphics with 8Mb of memory combine with renowned Voodoo 2 3D acceleration to deliver stunning video performance. Add in a 19" monitor, Yamaha XG based 3D wavetable sound, Yamaha stereo speakers (including subwoofer), and there is nothing more you could want from a multimedia system.

- ◆ Medium Tower Case
- ◆ 100MHz Front Side Bus
- ◆ 128Mb PC100 RAM
- ◆ 512Kb cache on CPU
- ◆ 10Gb Hard Drive
- ◆ 1.44Mb Floppy Drive
- ◆ 32X Speed CD ROM
- ◆ ATI Xpert 98 8Mb AGP 2x Graphics
- ◆ Diamond Monster 3D II Card (12Mb 3Dfx Voodoo 2)
- ◆ Yamaha XG based 3D Wavetable Sound
- ◆ 56Kbps V90 modem
- ◆ 2 serial, 1 parallel, 1 games, 2 PS/2 ports
- ◆ 19" SuperVGA Colour Monitor
- ◆ Yamaha stereo speakers with subwoofer
- ◆ Keyboard
- ◆ Microsoft® Intellimouse
- ◆ Microsoft® SideWinder Joystick
- ◆ LIMITED OFFER
- ◆ Free Internal Photoscanner!
- ◆ Microsoft® Windows® 98
- ◆ Microsoft® Home Essentials
- ◆ Interactive Gold Software Pack
- ◆ 3D Platinum Software Pack

	Exc Del & VAT	Inc Del & VAT	Order Code	Easy2Own
Intel® Pentium® II Processor 350MHz	£1329.00	£1590.95	SYHA3526	£50.80
Intel® Pentium® II Processor 400MHz	£1429.00	£1708.45	SYHA4026	£54.55
Intel® Pentium® II Processor 450MHz	£1569.00	£1872.95	SYHA4526	£59.81

## The very latest in Add-ons and Upgrades this Christmas

Why not upgrade your chosen system with any of the following options which have been carefully selected to offer great value and provide you with the latest and best technologies currently available. Please note, these items are only available as upgrades or add-ons to new systems and must be ordered at the same time as the main system.

### MONITOR SCREEN SIZE UPGRADE

Monitor Viewing Area

15"=14" viewable

17"=15.3" viewable

19"=18" viewable.



### MONITOR UPGRADE

Upgrade from 15" to 17" monitor

**£60 exc VAT. (£70.50 inc VAT).**

Upgrade from 15" to 19" monitor (no speakers)

**£210 exc VAT. (£246.75 inc VAT).**

Upgrade from 17" to 19" monitor (no speakers)

**£150 exc VAT. (£176.25 inc VAT).**

### COLOUR INKJET PRINTERS

Enter the exciting world of digital art! The following printers offer the latest in colour printing by not only providing excellent print quality for normal use but also the ability to print photo quality images.

#### HP DESKJET 690C

Simple to set up and easy to use, the HP Deskjet 690C delivers sharp black text and superb colour. Just perfect for quality everyday printing. **£109 exc VAT (£128.08 inc VAT).**

#### HP DESKJET 895CXI

The brand new HP Deskjet 895CXI produces photo-quality colour printing at speeds of up to 10 pages per minute. **£209 exc VAT (£245.58 inc VAT).**

#### CANON BJC-250

The affordable colour Bubble Jet printer ideal for the whole family. **£89 exc VAT (£104.58 inc VAT).**

#### CANON BJC-4300

The ideal desktop companion at home or in the office, the BJC-4300 colour Bubble Jet printer comes with new Drop Modulation Technology™ for professional quality results. **£109 exc VAT (£128.08 inc VAT).**



730

# Home Christmas Offers

## Ⓑ HomePro Ultimate

With massively enhanced specification in almost every area, and featuring the very latest in Intel® Pentium® II processor technology, the HomePro Ultimate takes you to the next level of multimedia performance.

- ◆ Desktop Case
- ◆ 100MHz Front Side Bus
- ◆ 64Mb PC100 RAM
- ◆ 512Kb cache on CPU
- ◆ 6.4Gb Hard Drive
- ◆ 1.44Mb Floppy Drive
- ◆ 32X Speed CD ROM
- ◆ ATI Xpert 98 8Mb AGP 2x Graphics
- ◆ Yamaha XG based 3D Wavetable Sound
- ◆ 56Kbps V90 modem
- ◆ 2 serial, 1 parallel, 1 games, 2 PS/2 ports
- ◆ 17" SuperVGA Colour Monitor with internal stereo speakers
- ◆ Keyboard
- ◆ Microsoft® Intellimouse
- ◆ Microsoft® SideWinder Joystick
- ◆ Microsoft® Windows® 98
- ◆ Microsoft® Home Essentials
- ◆ Interactive Gold Software Pack

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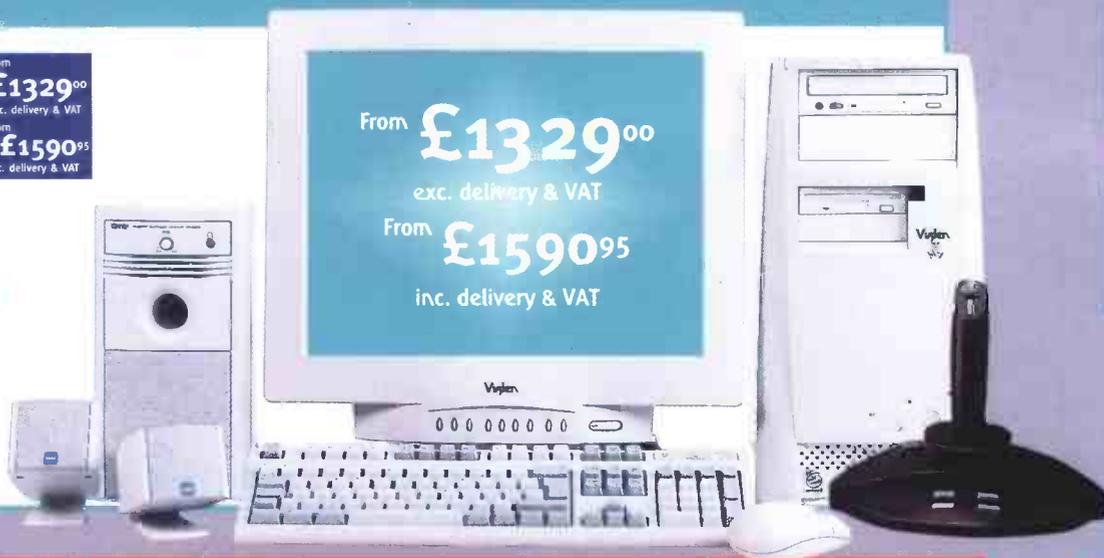
	Exc Del. & VAT	Inc Del. & VAT	Order Code	Easy2Own
Intel® Pentium® II Processor 350MHz	£899.00	£1085.70	SYHU3526	£34.67
Intel® Pentium® II Processor 400MHz	£999.00	£1203.20	SYHU4026	£38.42
Intel® Pentium® II Processor 450MHz	£1139.00	£1367.70	SYHU4526	£43.67

Model featured is a HomePro Value.



**EASY 2 OWN**  
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per month\*  
**APR 17.9%**

from **£1329.00**  
exc. delivery & VAT  
from **£1590.95**  
inc. delivery & VAT



Leading Software Titles Included

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YEAR 2000  
Compliant to DISC0 2000-1

### CANON BJC-7000

The ultimate heavy duty colour Bubble Jet printer producing a print quality to equal that of normal photographs. **£199 exc VAT (£233.83 inc VAT).**

All printers include FREE printer cable and FREE delivery if ordered and shipped with a Viglen PC.

### COLOUR FLATBED SCANNER

#### MicroTek Phantom 330 Scanner

Import colour pictures and text directly into your PC!

Add this renowned flatbed A4 colour scanner to your system and simply scan in photographs or documents for use in other applications. **£65 exc VAT (£76.38 inc VAT).**



### CD ROM TO 4X DVD UPGRADE

By specifying a DVD ROM instead of a CD ROM for your Viglen PC, you'll still be able to do everything you can with a CD ROM, plus read the new standard DVD CD's which are set to sweep the market. Viglen's 4X DVD Upgrade also comes with a software movie player, so you can watch all the latest DVD movies. Upgrade only available on Ultimate and Awesome models. **Upgrade from 32x CD ROM to 4X DVD ROM and software decoder £55 exc VAT (£64.63 inc VAT).**

### MAINTENANCE & WARRANTIES

Every Viglen PC comes with lifetime technical support and a 12 months parts and labour warranty, including collection and return to you at our expense (mainland UK only).

### ONSITE UPGRADE

Upgrade to Premium service with 12 months, 3 working days onsite repair warranty **£40 exc VAT (£47.00 inc VAT).**

A complete range of low cost onsite packages covering you for up to 5 years and with response times as low as 4 hours is also available.

[www.viglen.co.uk](http://www.viglen.co.uk)

Buy online now  
The easy way to save time and money

\*Strictly limited - first 200 orders. Only available while stocks last.

# Viglen

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**Small, tasty and very  
powerful, one will serve  
several people.**



The Kyocera ECOSYS FS-800 may be small, but it's a hot little printer to have around. Its impressive features make it ideal for small workgroups who need more power without the associated bulk and cost.

Not only do you get a speedy 8ppm, but an ultra fast processor means there's also a much quicker time to first page and a swifter return to application. Plus 4MB of memory means rapid printing of the most complex documents.

There's even more flexibility when it comes to network integration. With Postscript as standard, it can be used in mixed operating

environments. And with Kyocera's KPM software you can manage all your network printers, regardless of manufacturer, from one desktop.

Better still, it costs over 40% less to print using the FS-800 than it does with its HP equivalent. We've re-invented the printer engine so there's no need to replace expensive print cartridges. You simply add more toner. With this kind of saving, it isn't long before the FS-800 pays for itself.

Discover how the small but powerful FS-800 outsmarts even the closest of competitors. Get your free Good Printer Guide CD by calling 0345 103 104, or visit [www.kyocera.co.uk](http://www.kyocera.co.uk)

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