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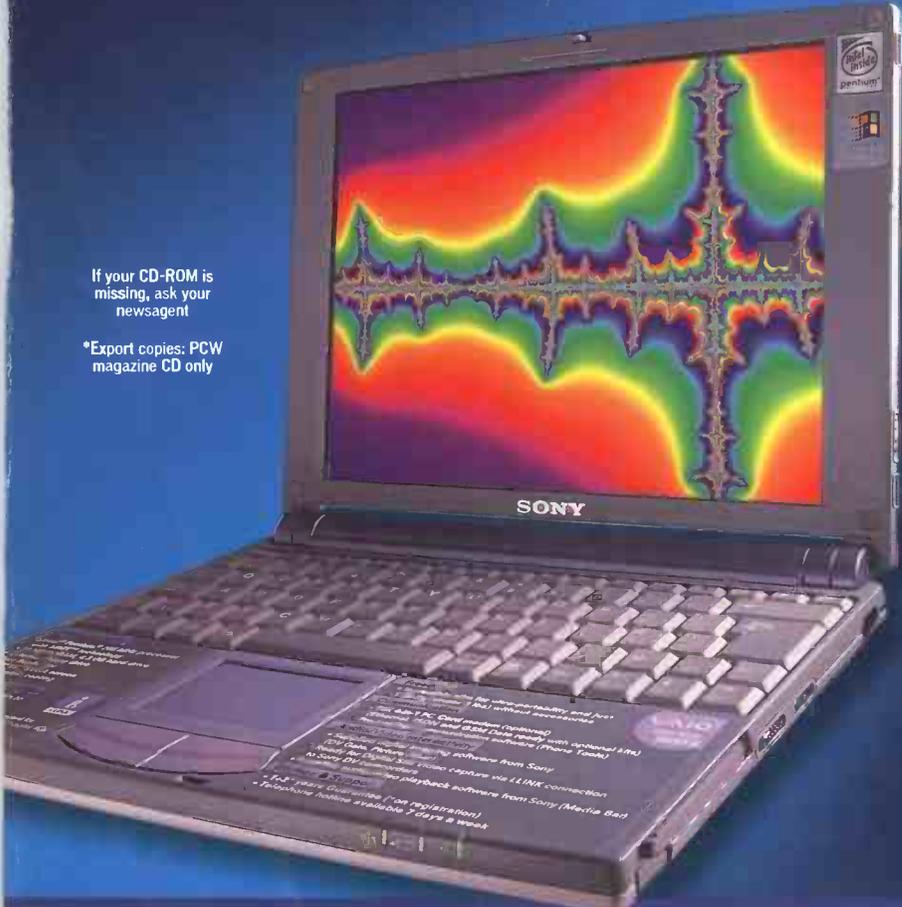


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GROUP TESTS

144 NT Power, ready for Windows 2000

Why take two operating systems into the new millennium? Microsoft's forthcoming Windows 2000 will marry consumer-friendly 98 and business-secure NT. Trying out the latest preview version, Ajith Ram looks at the implications, predicts new hardware developments, and tests four high-end workstations comfortably running NT today and prepared for the future of Windows 2000.

155 Mesh Elite Pro 450 PII

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156 Armari Rage X2E-Xeon

156 HP KayakXU-Dual Xeon

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Can't decide which type of notebook to buy? We've tested the budget beaters, the desktop replacements and the sexiest ultra-slims. Adele Dyer and Paul Trueman get carried away with our 12 perfect portables.

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181 Compaq Armada 1700

181 Gateway Solo 2500 S5-233

181 Pico Consul

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190 Web authoring software

Don't delay, spin your web site today! Nik Rawlinson and Panicos Georghiades have rounded up the best in web software. And, Nik Rawlinson has even written a *Hands On Workshop* to get you weaving (p216).

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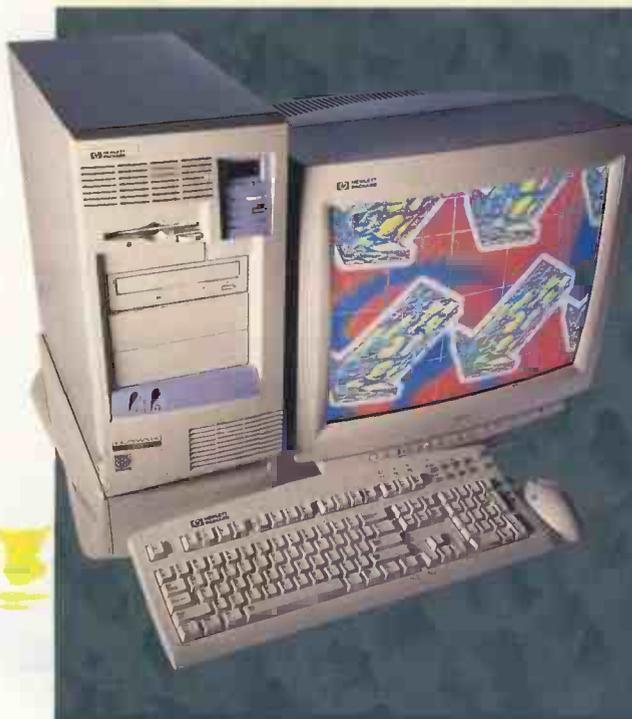
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 Take a look into
the future and
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122 Net protection

Getting your business online is essential, but make sure you're protected. John Leyden checks out the do's and don'ts of firewalling.

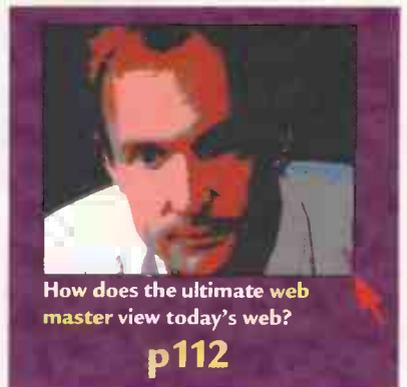
130 USB and 1394

Don't know where to plug your peripheral? With USB it won't matter since one plug fits all. The Universal Serial Bus and its faster cousin, IEEE 1394, arrived at PCW with gadgets galore. Roger Gann plugged them all in at once and he's still reeling from the shock.



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On the tenth anniversary of the world wide web, Michael Hewitt asks its creator, Tim Berners-Lee, whether his original intention has been realised.



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We've all faced computer viruses, but why would anyone want to poison your PC? Geof Wheelwright investigates the perpetrators and the protectors.

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¹Source: PC Magazine August 98, Service and Reliability Survey 98, Servers. ²Source: PC Pro, October 98, Dell PowerEdge 2300 review. ³Source: PC Magazine, January 99, Dell PowerEdge 6300 review. *Source: IDC Top 4 Manufacturers Worldwide.

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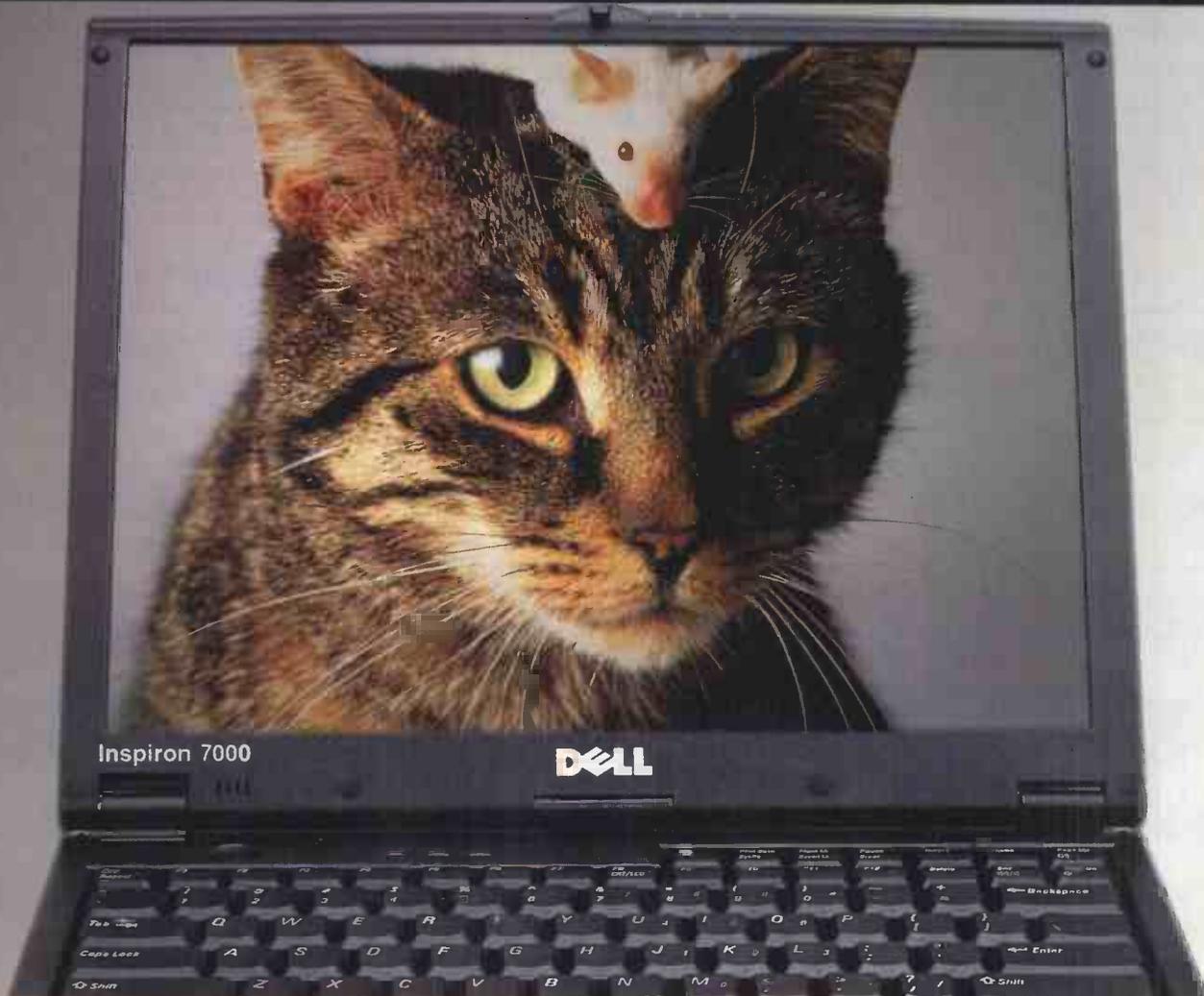
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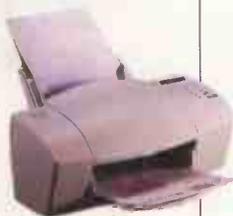
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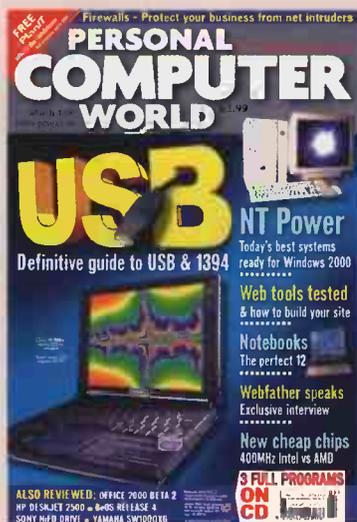
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The **Universal Serial Bus**, or USB, is set to revolutionise I/O.

The bus stops here

Ever wondered why your keyboard, mouse, joystick, modem, speakers and printer all need different plugs? I'm afraid it's been that way for some time. Believe it or not, the array of serial and parallel ports we're faced with has been essentially unchanged since the birth of the PC over 15 years ago. Experienced users may not think twice about this absurd situation, but I pity the first-timer confronted by the wealth of connectors at the back of a modern PC — it makes wiring the hi-fi seem like a walk in the park.

There is an alternative: it's called the Universal Serial Bus, or USB, and it's here today [p130]. All USB devices use the same type of plug, and no fewer than 127 of them can be chained together off a single USB port on a PC — and there's no problem connecting or disconnecting devices while the power's switched on.

USB as a technology has been around for several years, but it's only now that it's starting to catch on. Most PCs built in the past year have featured a pair of

USB ports — indeed, the Apple iMac has little else — but the big push began when Microsoft eventually got round to properly supporting it with the release of Windows 98. USB peripherals,

including mice, keyboards, cameras and scanners, have already begun to arrive. At PCW we're great believers in USB and its faster, more versatile cousin, 1394, aka FireWire. 1999 promises to be the year both technologies hit the big time, so to whet your appetite we've explained how it all works, rounded up a wealth of devices, and seen what happens when you try to connect them all at the same time: I personally can't wait to dump my PC's prehistoric I/O system.

We're also very excited about the forthcoming Windows NT 5.0, now to be known as Windows 2000 (and unlikely to appear much before that date). In the past, Microsoft has pitched NT at high-end users and 95/98 for those less serious. In around a year's time, however, Windows 2000 will be the only desktop operating system that Microsoft wants you to use. In the run-up we've been testing the latest preview version of Windows 2000 [p144] and assessing its suitability for leisure and business users alike. We've also looked at the sort of processors and memory that are on the way in the next year. In the meantime we've tested four high-end workstations ideally suited to running NT 4.0 today, and Windows 2000 in a year's time.

As it's the tenth anniversary of the world wide web, we've group-tested the software that lets you build your own site [p190]. We've also interviewed Tim Berners-Lee [p122], arguably the man who came up with the idea in the first place. Also in this packed issue we've put 12 notebook computers through their paces [p170], tracked down the virus hunters [p116], looked at how to protect your business from internet intruders [p122] and taken a first look at brand-new budget 400MHz chips from Intel and AMD [p76]. The PC industry has never been more exciting, and you're in the right place to read about what's happening.

1999 promises to be the year that both **USB AND AND ITS MORE VERSATILE COUSIN, FIREWIRE**, hit the big time

Gordon Laing, Editor



When was the
last time someone
gave you
precisely what
you asked for?

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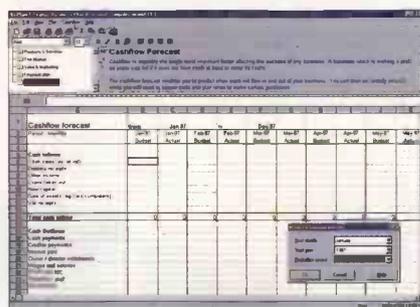
March COVER DISC

GAMES APPLICATIONS LIBRARY ENTERTAINMENT INTERNET

Thinking of setting up your own business? Well take a look at the full versions of PlanIT's business software on this month's cover disc which includes the PlanIT Start Up Business Plan. There's also an exclusive, full MultiPath movie offer from Brilliant Digital Entertainment and a range of excellent upgrade offers with PhotoEnhancer, NetTracker and Music Ace. You will also find no less than five games demos including Thief and Heretic II, two of the latest and greatest games around, plus a range of internet tools and utilities, and much more in our Software Library.

PlanIT (full version)

Yes, it's absolutely true — a CD with full versions of two PlanIT business packages. The **PlanIT Start Up Business Plan** (£49.99 inc VAT) is a program designed for those just setting out on the first steps of running their own business. Dealing with the need to attract investment and co-ordinating the first crucial months or years of your business, Start Up Business Plan shows you how to set objectives, implement



If you're going to be a millionaire the first thing you'll need is a good business plan and PlanIT will walk you through the process of analysing your business idea to create this important document.

PCW DETAILS

Platform Windows 95
Limitation Full version
Sales Contact
01494 455551
Technical Support
0181 8754459

strategies and raise finance. This program is straightforward and easy to use and is tailored specifically to the needs of UK users.

You will also find **PlanIT Financial Adviser** (£29.99 inc VAT) which is designed to help with financial decisions and investments. It can be used in your personal and business life and offers a simple, user-friendly interface.

So, now you can use PlanIT to analyse your finances and work out what else you can spend the money on!

➔ **For further information** on any of the PlanIT range of software, telephone 0181 875 4444. Alternatively, you can visit their website at www.planit.co.uk direct from the CD Online section of our disc.

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 autoload, go to Start/Run and type <CD Drive>:\pcw.exe From Windows Program Manager choose File/Run, then type <CD Drive>:\pcw.exe and press enter.

✓ Faulty Discs

If you get messages such as 'Cannot read from drive D:', or your drive continually scans the disc without

starting, you may have a faulty disc. In this event, please return the disc with a covering note bearing your name and address, and clearly marked 'PCW CD MARCH 1999' to: TIB plc, HelpLine Returns, Unit 5, Triangle Business Park, Pentrebach, Merthyr Tydfil, CF48 4YB. A replacement disc will be sent to you by post. You must use this address as replacement discs cannot be supplied from our VNU offices.

✓ 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 p23). And see

IMPORTANT NOTICE

The publisher, VNU, has checked the Personal Computer World CD-ROM for known viruses at all stages of production but cannot accept liability for damage caused either to your data or to your computer system which may occur while using either the disc or any software contained on it. If you do not agree with these conditions you should not use the disc. It is good practice to run a virus checker on any new software before running it on your computer and to also make regular backup copies of all your important data. Unless otherwise stated, all software contained on the CD is for demonstration only. This means it may be restricted in some way. For example, it may be time limited or have certain functions disabled.

'Faulty Discs' (left) for replacement disc information.

✓ Getting software onto our 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

Photo Enhancer



Originally supplied to be used with the Kodak DC50 digital camera, PhotoEnhancer is a simple program which enables you to correct faults in photographic digital images. If photos are too bright or too dark, or off-colour from the poor use of a flash, this will put it right quickly and

conveniently without the need for a program like Paint Shop Pro or Photoshop, say. Tools include Marquee, Blur, Sharpen, Lighten and Darken. Filters include Daylight, Inside Flash and Heavy Shadow.

Note: Camera operation options shown on the application menus only work with a Kodak DC50 digital camera attached to your system. If they are selected with no camera present, the program will crash.

PCW DETAILS

Platform Windows 95
Limitation Full version
Sales Contact
 01420 83811
Technical Support
 None available

Photo Enhancer Upgrade Deal – HotShots

Upgrade to HotShots from PhotoEnhancer for only £44.95 (inc VAT and delivery) saving nearly 30 percent on the recommended retail price of £62.28.

HotShots is a state-of-the-art photo-editing package which utilises all the best facilities available under Windows 95.

Special features include:

- Picture enhancement
- Improved pictures with a one-step QuickFix
- Automatically correct lighting conditions with SmartPix
- Add shapes, arrows, text and special effects to pictures
- Quick one-step retrieval and organisation of your pictures
- In built internet access

For more information, contact Bit UK

Phone 01420 83811 or fax 01420 80657. Web www.bit.co.uk

HoTMetal PRO 5

HoTMetal PRO 5.0 is the most powerful version yet of SoftQuad's HTML authoring and publishing tool. It is suitable both for professionals and those less experienced in website development and has all the necessary features to help the user easily develop sophisticated websites. It offers a comprehensive range of site development tools, all within one application, including the production of HTML for all flavours of browser, a customisable user interface and tools to create the funky graphics that no up-to-date site should be without.

HoTMetal PRO 5.0 uses Internet Explorer components in its implementation and offers: an Asset tab in the Resource Manager, a WYSIWYG Frames viewer, Page Preview, Site Maker preview and macros. Thumbnail View

and the Open dialog preview window also require that Microsoft Active Desktop be installed: the software still operates satisfactorily under Windows 95 and NT 4.0 if Internet Explorer and Active Desktop are not installed but the above features will not be available.

New features include the combination of the HoTMetal PRO Editor and Information Manager from HoTMetal PRO 4.0 into a single application, offering editing and site management functions. The Resource Manager is new, too: it is an asset management tool which allows access to all kinds of web objects such as images, cascading style sheets, scripts and dynamic HTML plus many more new features for you to play with!



PCW DETAILS

Operating Systems
 Windows 95, 98 and NT 4.0
Limitations
 30-day limited demo
Sales Contact
 0181 387 4110
Technical Support
simon@uk.sq.com

MultiPath Movies Digital Projector

Multipath Movies, from Brilliant Digital Entertainment, are a new hybrid of video game and video movie which allow you to watch a story unfold in 3D animation and interact with the action along the way. The online library includes adventures from Xena - Warrior Princess, Ace Ventura,

Superman, Popeye and original titles – all available to order from the internet.

This month's cover disc contains a special copy of the Digital Player required to watch the movies. It carries watchable

previews of an adventure with Xena - Warrior Princess and a spooky story called 'The Evil Pen Pal'. Other previews are available from the Box Office at the Brilliant Digital Website. By using this exclusive version of the Player, *Personal Computer World* readers can download the full length version of 'Evil Pen Pal' from the online Box Office completely free. Just install the Player on your

system and watch the preview movies. Then, while previewing Evil Pen Pal, click on Get Movie. This will launch your browser and take you to an order page for the Evil Pen Pal movie. You will need to set up your account by supplying

your email address and credit card details. Evil Pen Pal will be made available for you to download completely free. In future, if you want to purchase another film, your details will already be stored so you can just go straight ahead and download your new movie – your account will be debited automatically. The movies are compact and relatively quick to download. If you already have the preview movie inside the Player (as mentioned) only the key files that open the full movie are downloaded and these are very small.



PCW DETAILS

Platform Windows 95
Limitation Fully working player with access to one free movie.
Sales Contact
 01895 831307
Technical Support
 01895 831307

COVER DISC NOTES

GAMES

APPLICATIONS

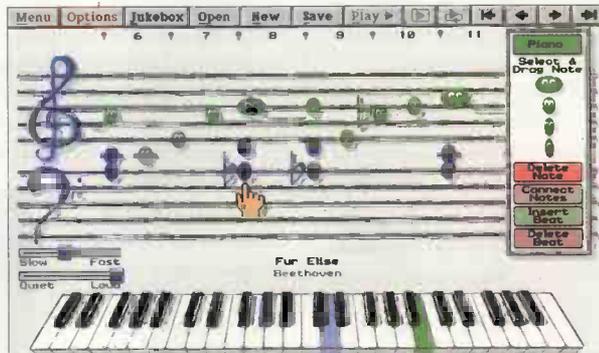
LIBRARY

ENTERTAINMENT

INTERNET

Music Ace

Music Ace is an engaging and relaxed music education software program from Harmonic Vision, that provides an introduction to music fundamentals for new music students. It is suitable for both children and older students and its user-friendly interface (including Maestro Max) is continually present to direct and support the student. A choir of singing notes participates in a series of 24 comprehensive lessons, playing a variety of challenging games with users, who can compose and listen to their own music from the unique Music Doodle Pad. Students can also



compose their own music using a variety of instrument sounds. These creative compositions can then be saved and played back. It is also possible to create pieces by modifying popular music selections from

the Jukebox section of the Music Doodle Pad.

The 24 lessons cover stave and keyboard relationship, keyboard basics, major scales and octaves, pitch identification, note reading and listening skills amongst many other features. Individuals can track their progress through lessons and games with a 'completion count', which provides a record of the number of times the user

has gone through each section of a lesson, as well as through 'games progress' which provides an account of high scores. Lively animations and colourful graphics complement the traditional music instruction.

Special Offer to readers of Personal Computer World

Music Ace normally sells for £29.95 (inc VAT, plus £6 p&p) but is now available to PCW readers for only £19.95 (inc VAT, plus £6 p&p).

Personal Computer World readers should contact Guildsoft by phoning 01752 895100 and quoting the reference 903GUWOR.

PCW DETAILS

Operating systems
Windows 3.1, 386MHz or better.

Limitations Only a limited number of tutorials and games available.

Sales Contact
+44 (0) 1752 895100

Technical Support
01752 895100
(9am to 5.30pm)

GAMES

APPLICATIONS

LIBRARY

ENTERTAINMENT

INTERNET

Wargasm

Wargasm is a new kind of combat game, released by DID. It's a simulation game where the players check out battlefield and weather effects as if in the real world. The game allows players to fight from the air,



on foot or in a tank. In addition to the combat action, Wargasm allows strategic and tactical control of your forces and offers a multiple-player option.

When entering the game, you are presented with a map of global territories and your objective is to turn the map one colour. Once an enemy is identified you must assemble your forces from a selection of virtual troops and armoured fighting vehicles before going into battle. But if your force is made up from the wrong elements, it could spell disaster! Once in the midst of the battle, the tactical control of your forces is in your hands via a drag-and-drop interface. You can jump into any tank commander's seat to enjoy the full excitement of the combat!

PCW DETAILS

Operating System
Windows 95/98

Limitations Training levels and first level only.

Sales Contact
0161 827 8000

Technical Support
0161 827 8060

Heretic 2

Activision brings you Heretic II, a third-person action game based on the Quake II engine. It sets players on a quest through city and outdoor environments as they search for a



cure to an evil plague. Players take on the role of Corvus, the character from Heretic who has been banished to the Outer Worlds by D'sparil. As Corvus, the user can perform a variety of acrobatic, swimming and climbing manoeuvres in order to penetrate the mystery of the plague. Exploring city, swamp, canyon and dungeon levels, you use a variety of offensive and defensive spells such as the Sphere of Annihilation, Repulsion and Fireball in conjunction with a magical bow and staff to defeat the plague-ridden inhabitants of Parthoris.

Heretic II is not a battle tale but rather tells the further story of Corvus, the hero of the original Heretic game. For those who haven't played the first in this semi-series, Heretic was rather like Doom with a medieval setting.

PCW DETAILS

Operating System
Windows 95/98

Limitations
Restricted levels and weapons.

Sales Any good software retailer.

Technical Support
None available.

Thief

Thief is a first person action adventure. You take the role of the hero Garrett, the master thief, and you are assigned a mission by your patron, Constantine, to steal a guarded sword. Stealth and intellect

are best your weapons as you slip through the silent corridors of a sleeping ancient town. You walk around a city with guarded prisons, haunted cathedrals and large mansions. Your victims are the city's

corrupt and privileged nobility whose wealth is yours — provided that their guards don't hear you coming! Having successfully completed your first mission your patron explains to you that this was merely a test and you are then assigned your real mission: to steal a gem known as the

'Eye'. As your quest progresses, a mystic dark world unfolds exposing the true identity of Constantine. Strength is all important in trying to discover, and get out of, the web of intrigue that surrounds you.

You are supplied with unique weapons to succeed in your goal. There is a blackjack which can be used to knock out unsuspecting opponents, a noise arrow to throw them off the trail and moss bombs to silence your footsteps in stone corridors. If all these weapons are not enough then the fire arrow, or your sword are always available. The revolutionary 'Dark Engine' provides advanced environmental simulation and advanced artificial intelligence brings you creatures with 'hearing' capabilities, which react to all sounds in the environment.



PCW DETAILS

Operating system
Windows 95/98
Limitations Restricted levels and weapons.
Sales Contact
0121 3324647
Technical Support
0121 6061800
techsupp@eidos.com

Tomb Raider III

Version three and we find Lara in India for her new adventure! Compared to previous versions Tomb Raider III is non-linear, both in the style of the game and within the levels. Users are able to choose their own path through the game by selecting the order in which they play each of the four main levels. These levels are also more open, with multiple routes to the same end so the player must make wise choices — if you don't replay every level of this adventure you'll probably miss parts of it.



Tomb Raider III contains five separate worlds which link together. After completing the first adventure, the subsequent three can be

played in any order before the fifth, concluding, level is undertaken. New features include enemies with 'pack' mentality, a new landscape system, improved texture palettes and improved water effects. New moves including crawl, monkey swing and speed dash.

PCW DETAILS

Platform Windows 95/98
Limitations One level only.
Sales Contact
0121 3324647
Technical Support
0121 356 0831

Glover

Hasbro Interactive brings you Glover! The story is that a good wizard, with magical gloves, accidentally mixes the wrong potions which results in one almighty explosion! This explosion sends one of his magic gloves sailing through the air while the other flies into a cauldron of evil — and suddenly the entire kingdom's power crystals are bouncing around like rubber balls. What a mess!

The user is challenged to put everything back in order again. For the user to restore the kingdom, he must return the gloves and crystals. He must also transform the balls and gloves to magical spells to beat his enemies, discover the secret sections and the crush level.

— The full game features

- Control of the glove and ball as a team, to solve unique puzzles
- The possibility of casting a variety of magical spells and exploring huge levels
- Unique 3D platform action
- Bizarre characters
- Seven different fantasy worlds to explore.
- There are more than 20 levels.



PCW DETAILS

Operating systems
Windows 95/98
Limitations
Restricted levels and weapons
Sales Contact
Hasbro Interactive
0181 569 1234
Technical Support
0990 745745

CD-ROM

HELPLINE

01685 354762

Software Library

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

What follows is a selection of just some of the many utilities included on our cover disc this month.

Some essential utilities

• Add/Remove 4Good 2.0

(Windows 95)
Get rid of those unwanted entries in Control Panels' Add/Remove list. (Limited-use shareware)

• Adobe Acrobat Reader 3.01 + Search

(Windows 3.1/95/NT)
View, navigate and print PDF files across all major computing platforms. (Fully-functioning reader)

• **Awave 4.9**
(Windows 95/98/NT)
Read a host of audio file formats from different platforms, synthesisers and trackers. Awave can be used as an audio file format converter, an audio editor, and audio player. (30-day shareware)

• Catch-UP 1.2

(Win95/NT/3.1/32s)
Search for the newest versions of many popular internet-distributed software applications and hardware drivers and generate a custom list of software updates and corresponding download sites. (Freeware)

• GIF Construction Set 1.0Q

(Windows 3.1/95)
A quick and professional way to create transparent, interlaced and animated GIF files for web pages. (30-day shareware)

• Ed for Windows 3.80

(Windows 3.1/95/NT)
Intelligent, language-sensitive editing. A one-stop productivity tool for programmers that slashes coding. (45-day trial)

• EzDesk for Windows 1.8

(Windows 95/NT)
Manage desktop icons layout and restore a previous desktop icon layout from a saved arrangement. (Limited function shareware)

• Fontastic 5.0

(Windows 95)
A font management tool that allows quick and easy viewing of all the fonts stored on your system, and the printing of samples. (31-day evaluation)

• **GetRight 3.2**
(Windows 95/NT)
Resume on errors while downloading files from web or ftp sites, schedule downloads and more. (30-day evaluation)

• Graphics Workshop Professional 2.0a

(Windows 95/NT)
View, convert and catalogue your images in a wide variety of formats. (Shareware)

• Macro Express 1.0k

(Windows 95/NT)
A macro utility that allows you to create macros manually or by recording them. Macros can be created and edited with an easy 'Scripting Editor' which allows you to see each step and command. (30-day trial)

• MacSEE (Windows 3.1/95/NT)

Simple and fast transfer of files between a Mac and a PC-compatible system. Read and write directly to or from Macintosh disks on your PC. (Limited demo)

• New version Microangelo 98

(Windows 95)
Browse, manage, create and edit Windows 95 icons from 8 x 8 to 64 x 64 pixels in size and up to 256 colours. (30-day shareware)

• Microsoft Excel & Word Viewers

(Windows 95/NT)
Allows documents from any version of Microsoft Word or Excel to be shared

with others. (Freeware)
• **UBE 98 1.8**
(Windows 98)
Security program which encrypts your current work as well as creating encrypted self-extracting .exe files for distribution to others. Uses 2,048-bit encryption technology. (Shareware)
• **Winarj 95/98**
(Windows 95/98)
A 32-bit Windows Shell for 'ARJ Archive Software'. This version is written for Windows 95/98 and supports long-file-names. (Time-limited demo).

• **WinZip 7.0**
(Windows 95/NT)
Industry-standard

compression/decompression utility for Windows 95 and NT. (21-day evaluation).

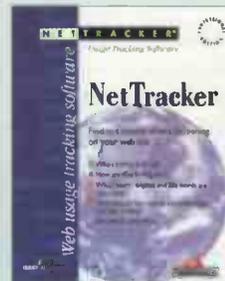
New Software

• **Roulette**
(Windows)
This great new game combines 100 percent accuracy with brilliant 24-bit rendered graphics, smooth animation and a genuine 'real feel'. (Limited demo)

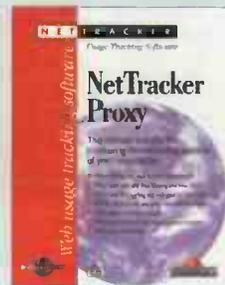
• **STD Code Decoder 6.0**
(Windows)
List UK Telephone STD Codes and selected overseas codes, in numerical order, avoiding wasted calls, identifying mobile phones and

premium rate lines. (Limited demo)
• **Web Scrapbook 1.00**
(Windows 95 and NT)
Eight simple steps to creating a web page. You don't need a single word of HTML! (Freeware)
• **Budget Tracker 1.0**
(Windows 95 and NT)
A budgetary control system that sets up single or multiple budgets, earmarks funds, registers commitments and spending of funds against budgets. (Limited demo)
• **Hardware Organizer 3.0**
(Windows 95/98/NT)
Allows computer

NetTracker Upgrade Offer



NetTracker 3.5 (Win95 and NT)
Provides network administrators with a simplified solution for monitoring their organisation's web surfing patterns, to increase productivity and assist in establishing corporate internet usage policies. (Limited demo).



➔ **Save up to £200 on NetTracker 3.5** with special offers on this month's cover disk. Quote reference 903GUPCW when you contact Guildsoft, and you'll be entitled to these special rates for the NetTracker range (all prices are exclusive of VAT):

- **NetTracker Standard only £195**
- **NetTracker Professional only £295 (reduced from £395)**
- **NetTracker Enterprise**

incl. 5-website license only £595 (reduced from £795)
• **NetTracker Proxy only £395 (reduced from £595)**

For more information visit www.guildsoft.com, email sales@guildsoft.com or phone 01752 895100. Guildsoft Ltd, The Software Centre, East Way, Lee Mill Industrial Estate, Ivybridge, Devon.

owners, small offices, and hardware dealers to organise, catalogue, and manage their hardware on their PCs.

• **MailKing 1.1**
(Windows 95 and NT)

A powerful and easy to use email merge tool for Windows which uses many contact databases, spreadsheets and

address books directly, without importing.

• **Music Organizer 3.0**

(Windows 95/98/NT) Allows music collectors, audiophiles, hobbyists, dealers, and clubs to organise, catalogue, and manage their collections. (Limited demo)

• **Oxford University Press Patch**

(Windows 95) The Press Patch is a fix patch for our readers who experienced 'Run Time Errors' and were unable to run the Concise Oxford Dictionary that was given away with the January '99 issue of PCW. (Freeware)

• **Recipe Organizer 3.0**

(Windows 95/98/NT) Recipe Organizer enables recipe collectors, and chefs to organise, catalogue, and manage their recipe collections. (Limited demo)

• **Software Organizer 3.0**

(Windows 95/98/NT) Software Organizer

enables computer owners, institutions, and software dealers, as well as computer clubs to organise, catalogue, and manage their information about software. (Limited demo)

• **Stay Alive 2.0**

(Windows 95/98/NT) Keep your applications running after they crash. Stay Alive

enables you to save your work and avoid the pain of having to repeat it. (Limited demo)

• **Wine Organizer 3.0**

(Windows 95/98/NT) Wine collectors, hobbyists, wine clubs, and cellar owners can organise, catalogue, and manage their collections. (Limited demo)

VNUNET [WWW.VNU.CO.UK](http://www.vnu.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 vnunet.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 Publications' portfolio of 15 business and consumer titles.



JOBNET [WWW.VNU.CO.UK](http://www.vnu.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 which 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.

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PCW CD OnLine

Access the internet direct from the opening screen!

CD Online offers an extension to the normal content contained on the disc by taking you directly to the on-line web sites of the companies featured. You'll be able to find out more about their products, the company itself and you could even send them an email and talk to them directly. If you're connected to the internet, you can visit these sites via the Content Links of the CD-Online section. In addition to the links, you can access the *Personal Computer World*, Vnnet.com and Jobworld.co.uk web sites, and a live up-to-date Technical Info page about this month's cover-mounted CD-ROM. There is even a sneak preview of what will be on next month's disc! If you've enjoyed the magazine and the CD, you can subscribe via email while you're online! If you have any other comments to make about the CD, please feel free to email us at PCW_CD@VNU.CO.UK.

➔ **To access CD Online**, click on the banner at the top of the main screen. This will automatically start your browser and open the main menu. If you don't already have a browser installed, you can install the latest versions of Internet Explorer or Netscape straight from the disc.

CompuServe

You can enjoy one month's free membership to CompuServe, which includes

- Free Unlimited access for one month*
- Free Online tour of CompuServe
- Free Email address
- Free 5Mb of 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.

*The free online time is available during the first month following registration only, subject to our Fair Use Policy (GO UKFAIRUSE). You must be 18 years old or over to register for CompuServe membership. Premium Services (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 due, unless you decide to cancel your membership.

PCW DETAILS

Platform
Windows 95 and 3.1
Limitations One month free membership. Unlimited access.
Contact
0990 134819



CD-ROM HELPLINE 01685 354762

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.

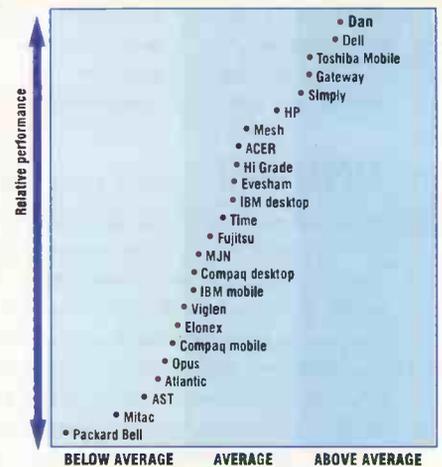
Our products, the Dan PCs featuring Intel® processors, after-sales service and overall reliability – all have always received more than enough votes to place Dan in the first rank of PC vendors. But this year we've done even better. Two of the leading magazines asked readers probably the most important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

High-end Workstation

- Choice of single or dual Intel® Pentium®II Processor with 512KB Cache Memory
- 128MB PC100 SDRAM (1x128MB)
- Choice of Hard Disk Drive
- lomega 100MB ZIP Drive + 1 cartridge
- Matrox 16MB MillenniumG200 Video Card
- 19" SVGA L/R N/I Monitor (Viewable size 18" - 450mm)
- 56KBPS Voice* FaxModem (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 4.5**

| with single processor | PENTIUM II 350 | PENTIUM II 400 | PENTIUM II 450 |
|-----------------------|----------------|----------------|----------------|
| 8.0GB UDMA EIDE | £ 1520 | £ 1645 | £ 1811 |
| 9.0GB UDMA EIDE | £ 1753 | £ 1878 | £ 2044 |
| 18.0GB WIDE SCSI | £ 2123 | £ 2248 | £ 2414 |

For dual Pentium® II processor systems:
Please add £ 164 £ 289 £ 455

Above prices exclude VAT@17.5%.

dantum 2 Duo Server

Mid-range Server

- Choice of single or dual Intel® Pentium®II Processor with 512KB Cache Memory
- 128MB PC100 ECC SDRAM (1x128MB)
- Choice of Wide SCSI HDD
- ATI 4MB 3D Charger AGP 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 UDMA EIDE | £ 1879 | £ 2004 | £ 2170 |
| 9.0GB WIDE SCSI | £ 1986 | £ 2111 | £ 2277 |

For dual Pentium® II processor systems:
Please add £ 164 £ 289 £ 455

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vendor? One which gives the happiest customers?

you get both.

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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 built with BIOS compliancy

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, 1998 Survey
 - Best Support Award**
PC Pro, 1998 Survey
 - Best Customer Service Award**
PC Plus 1997 Survey
- In addition, Dan has also received numerous monthly editorial Awards.

dan Ultimate 2

High-end Multimedia System

- 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 Live! Value
- Hi Fi Power Speakers (150W PMPO)
- 56KBPS Voice* FaxModem (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 Suite 99, Serif Page Plus & Encarta 99 US Encyclopaedia

| | | |
|----------------|--------|------------------|
| PENTIUM II 350 | £ 1235 | £ 1452 incl. VAT |
| PENTIUM II 400 | £ 1355 | £ 1593 incl. VAT |
| PENTIUM II 450 | £ 1515 | £ 1781 incl. VAT |

dan Xplora 2

Multimedia Office PC

- 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 PCI64
- Hi Fi Power Speakers (150W PMPO)
- 56KBPS Voice* FaxModem (UK only)
- Microsoft IntelliMouse™
- Windows UK Keyboard
- Desktop Case with PSU
- Software: Windows 98 or 95 (specify) MS Works 4.5, Serif Page Plus & Encarta 99 US Encyclopaedia

| | | |
|----------------|-------|-----------------|
| CELERON 366 | £ 701 | £ 824 incl. VAT |
| CELERON 400 | £ 729 | £ 857 incl. VAT |
| PENTIUM II 400 | £ 880 | £1034 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 & Xplora 2 only).

*additional speakers or headphones are required at additional cost.

WE ARE CONSTANTLY REVISING OUR PRICES AND SYSTEMS.

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All systems have Lifetime Guarantee (first year full back-to-base parts and labour, then lifetime free labour – excludes certain monitors, scanners and printers – and Lifetime Telephone Support Hotline). Optional next-working-day (subject to customer location and time of call) response ON-SITE maintenance (£42 for the first year – UK mainland only – included as standard with Ultimate 2). **14 DAY MONEY BACK GUARANTEE IF NOT SATISFIED (excludes printers, scanners & software).** Dan Technology systems prices and specifications are subject to change without notice. All sales are subject to Dan Technology terms and conditions, a copy of which may be obtained on request. Dan Technology is a tradename of Dan Technology Ltd which is a subsidiary of Dan Technology Holdings plc. The Intel Inside logo & Pentium are registered trademarks and MMX is a trademark of Intel Corporation. All trademarks acknowledged.

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technology

**Home
and Internet PCs**



All Dan Home PCs are:

- Ready to run with multimedia and Internet capability
- Backed by 1years on-site hardware maintenance
- Supplied with wordprocessor, spreadsheet and database



All Dan PCs are built with BIOS compliancy



Dan Home II Plus / Dan Xplora II Plus midi-tower case

Microsoft Works Suite 99

Microsoft Works Suite 99 is your total solution for everything you need to do with your PC. Whether you're writing a newsletter or school report, doing project research, surfing the internet, or calculating a debt-reducing budget, it has the intuitive software you need to do the task quickly and easily.

Includes:

- MS Word 97
- MS Works 4.5*
- MS Money 99 Basic
- MS Encarta World Atlas
- MS Graphics Studio: Greetings
- MS AutoRoute Express: Europe 98

£ 37 (£ 44 inc.VAT)

*Please note, systems purchased with this upgrade are supplied with one licenced copy of MS Works 4.5 only.

dan Home II Plus
with Celeron or Pentium II Processor

- 64MB PC100 SDRAM
 - 6.4GB EIDE HDD
 - Choice of Intel® Celeron or Pentium®II Processor with Cache
 - ATi 8MB All in Wonder Pro AGP Card
 - 17" SVGA L/R N/I Monitor (Viewable size 16.2" / 400mm)
 - 56KBPS Voice*Fax Modem (UK only)
 - 32max Speed EIDE CD-ROM
 - Soundblaster Live! Value
 - Dan Subwoofer & Speakers
 - 1.44MB Floppy Disk Drive
 - Midi Tower Case with PSU
 - 1 Parallel, 2 Fast Serial & 2 USB Ports
 - MS IntelliMouse™, Windows UK Keyboard
 - MS Joypad, Microphone
 - Windows 98 or 95 (please specify)
 - MS Works Suite 99, Serif Page Plus, Encarta 99 US Encyclopaedia & MMX Software Bundle (5 titles)
 - 1 Year On-site Warranty
- APR 29.9%
- | | | | |
|----------------|--------|------------------|---------|
| CELERON 333 | £ 998 | £ 1173 incl. VAT | £ 55.45 |
| CELERON 366 | £ 1024 | £ 1204 incl. VAT | £ 56.88 |
| CELERON 400 | £ 1052 | £ 1237 incl. VAT | £ 58.41 |
| PENTIUM II 400 | £ 1203 | £ 1414 incl. VAT | £ 66.62 |

ATi All in Wonder Pro Card

For the ultimate in multimedia graphics and video capabilities in a single card, look no further than the All in Wonder Pro. Based on ATi's latest 3D Rage Pro processor, the All in Wonder Pro offers 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. Functions also include:

- Rage Pro powered 2D/3D graphics
- Still image and motion video capture
- Video playback software
- Intelligent TV Tuner
- Wide screen display capability
- TV set display with "Channel Surf", "Instant Replay", "Zoom" and "Scheduled Viewing"

Popular Upgrades and Add-ons for Dan systems

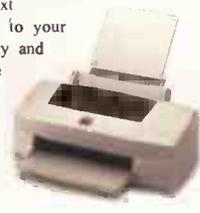
| | |
|---|--------------------|
| Additional 32MB PC100 SDRAM | £ 36 (£ 43incVAT) |
| Additional 64MB PC100 SDRAM | £ 71 (£ 84incVAT) |
| 8.0GB HDD upgrade from 6.4GB | £ 19 (£ 22incVAT) |
| 6.4GB HDD upgrade from 3.2GB | £ 30 (£ 36incVAT) |
| 17" CTX VL700 monitor upgrade from Dan SVGA 15" monitor | £ 61 (£ 72incVAT) |
| Upgrade the Dan Hi-Fi Speakers to: | |
| Yamaha YST-M20 Speakers | £ 22 (£ 26inc.VAT) |
| Dan Subwoofer & Speakers | £ 14 (£ 17inc.VAT) |
| FourPointSurround Speaker system | £ 28 (£ 33inc.VAT) |
| Panasonic SuperDisk 120MB + cart. | £ 59 (£ 70incVAT) |

EPSON Stylus Photo 700

The Stylus Photo 700 brings next generation photo-quality output to your desktop. 6 colour ink technology and resolutions up to 1400dpi make this the perfect all rounder for Home Colour inkjet printing

Stylus Photo 700 + 1yr RTB warranty[†]
£ 168 (£198inc.VAT)

Stylus Photo 700 + 3yrs on-site warranty[‡]
£ 203 (£239inc.VAT)



HP ScanJet 5100C Scanner

Featuring Intelligent Scanning Technology, the HP5100C boasts optical resolutions of 600dpi (1200dpi enhanced), 36-bit colour image processing and infinite scaling for monochrome logos and line art.

HP ScanJet 5100C + 1yr RTB warranty[†]
£ 165 (£194inc.VAT)

HP ScanJet 5100C + 3yrs on-site warranty[‡]
£ 221 (£260inc.VAT)



[†]Return-to-base (RTB) warranty means that failed units should be returned to Dan Technology premises for repair.
[‡]3 year on-site warranty means that a certified Epson engineer will repair the failed unit at customer's premises.



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Entry level multimedia Home PC

dan Xplora

with AMD K6-2 Processor

- 32MB PC100 SDRAM
- 4.0GB EIDE Ultra DMA HDD
- 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)
- 56KBPS Voice* Fax Modem (UK only)
- 32MAX Speed EIDE CD-ROM
- SoundBlaster PCI64
- 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 4.5
- 1 Year On-site Warranty



*additional speakers or headphones are required at additional cost.

| | | | | | |
|--------------|-------|-------|-----------|-----------|---------|
| AMD K6-2 300 | £ 648 | £ 762 | incl. VAT | APR 29.9% | £ 36.39 |
| AMD K6-2 350 | £ 673 | £ 791 | incl. VAT | | £ 37.74 |

Delivery cost to mainland UK for one system is £ 19 (€ 23 inc.VAT)

Multimedia Home PC

dan Xplora II Plus

with Celeron or Pentium II Processor

- 64MB PC100 SDRAM
- 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 Voice* FaxModem (UK only)
- 32MAX Speed EIDE CD-ROM
- SoundBlaster PCI64
- 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 4.5 & MMX™ Software Bundle (5 titles)
- 1 Year On-site Warranty



*additional speakers or headphones are required at additional cost.

| | | | | | |
|----------------|-------|--------|-----------|-----------|---------|
| CELERON 333 | £ 767 | £ 902 | incl. VAT | APR 29.9% | £ 42.88 |
| CELERON 366 | £ 793 | £ 932 | incl. VAT | | £ 44.27 |
| CELERON 400 | £ 821 | £ 965 | incl. VAT | | £ 45.80 |
| PENTIUM II 400 | £ 972 | £ 1143 | incl. VAT | | £ 54.05 |

8MB Xpert'98 AGP Video Card upgrade £ 8 (€10inc.VAT)

Games PC

dan GameStation

with Celeron or Pentium II Processor

- 64MB PC100 SDRAM
- 8.0GB EIDE Ultra DMA HDD
- Choice of Intel® Celeron or Pentium®II Processor with Cache
- ATi 8MB All in Wonder Pro AGP Card
- Creative Voodoo 2 12MB Accelerator Card
- 17" Iiyama L/R N/I Monitor (A701GT) (Viewable size 16.2" - 405mm)
- DVD Drive
- 56KBPS Voice* FaxModem(UK only)
- Soundblaster Level Value
- FourPointSurround Speaker system
- 1.44MB Floppy Disk Drive
- Midi Tower Case with PSU
- 1 Parallel, 2 Fast Serial & 2 USB Ports
- MS IntelliMouse™, Windows UK Keyboard
- MS Joypads(x2), Microphone
- Windows 98 or 95 (please specify)
- MS Works Suite 99, Encarta 99 US, Serif Page Plus, & MMX™ Software Bundle (5 titles)
- 1 Year On-site Warranty



*additional speakers or headphones are required at additional cost.

| | | | | | |
|----------------|--------|--------|-----------|-----------|---------|
| CELERON 366 | £ 1400 | £ 1645 | incl. VAT | APR 29.9% | £ 77.33 |
| CELERON 400 | £ 1428 | £ 1678 | incl. VAT | | £ 78.86 |
| PENTIUM II 400 | £ 1579 | £ 1856 | incl. VAT | | £ 87.11 |
| PENTIUM II 450 | £ 1739 | £ 2044 | incl. VAT | | £ 95.82 |

*additional speakers or headphones are required at additional cost.

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A monthly payment scheme is now available to private purchasers, subject to status & proof of identity. All you will need to pay at the time of purchase is a 10% deposit of the total value (credit cards are acceptable). 12 months later you can choose to pay the outstanding amount in full without interest (by cheque only) or you can spread the balance over 36 months at **29.9% APR**. A typical example of a payment calculation for a Dan computer costing £1228 incl. VAT would be: £1228 +£23 (delivery) = £1251 total cash price, payable by 10% deposit of £125.10 followed by 36 monthly direct debit payments of £58.00 (29.9% APR). Total amount paid over 36 months will be £2213.10. Written quotations are available on request. Dan Technology Ltd is a licensed credit broker.

Popular Software Add-ons

MS Office 97 for Students

Office 97 for Students, the world's best selling office suit, integrates unified productivity applications with the power of the internet, so you can get your job done faster and more effectively than ever before.

- MS Word 97
- MS Excel 97
- MS Access 97
- MS Bookshelf Basics
- MS Outlook 97
- MS Powerpoint 97

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Inside Track is a collection of past GCSE examination questions (with answers), that will monitor your progress and identify areas of strength and weakness, giving hints and advice for improved exam technique.

- GCSE English
- GCSE Maths
- GCSE Geography
- GCSE Science

£ 36 (€ 43 inc.VAT)



Dan Xplora desktop case

Warranty Information

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 hardware 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, scanners & 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.

Creative Sound Blaster Live!

Immerse yourself in sound so vivid, you experience games and music rather than just hear them! Features include the superior surround-sound rendering of Environmental Audio, 256 voices of music synthesis and real time audio enhancement, and Environmental Audio Extensions.

Upgrade to the Sound Blaster Live! (Full version):
from Sound Blaster Live! Value £ 68 (€ 80 inc.VAT)
from Sound Blaster PCI64 £ 103 (€121 inc.VAT)

Matrox Marvel G200

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, and more. Features 8MB memory of memory and MGA-G200 graphics chip.

Upgrade to the Matrox G200:
from 4MB 3D Charger AGP £ 135 (€159 inc.VAT)
from 8MB All in Wonder Pro AGP £ 82 (€ 97 inc.VAT)

Iomega Zip Drive

The Zip is an easy to use, affordable personal storage solution that uses 100MB cartridges. An ideal way to move and store data, Zip cartridges are robust yet small, light and convenient. They're perfect for multi-media, presentations, software applications, financial data, graphics and sound, file archiving and more.

Iomega 100MB Zip Drive + cart. £ 64 (€ 76 inc.VAT)



Lexon PC prices

In last month's issue we group-tested ten PCs costing £499+VAT. Shortly after publication of the issue, Lexon (Editor's Choice with its Entra 333) was forced to raise the price of its system to £549+VAT.

Lexon claims this was due to dollar fluctuation following floatation of the euro, resulting in a rise of component prices which could not be swallowed by the original system price.

Lexon posted this change on its web site immediately. In the features table we misprinted details of the Lexon system's processor and on-site warranty. Our apologies to Hi-Grade whose number was printed on Lexon's review.

While at the time of publishing, the costs shown relative to goods reviewed are accurate and in accordance with the details as advised by the supplier, it is nevertheless incumbent upon the consumer to obtain verification prior to placing an order due to third-party fluctuations in the marketplace which may ultimately affect the actual sale price.

NEW COMMS

Net gets off B-roads at last — and it's wonderful

ADSL, which pumps up to 2Mbit/sec down a standard phone line, has arrived at last — and it will change lives.

How quickly will depend on the pricing, and on how fast BT can boost its infrastructure, and on how soon people latch on to the potential.

Virgin Net, one of four providers running pilots in London, linked up my home and I was more than impressed. It seemed a momentous occasion, like the advent of mains electricity. ADSL, and cable modems, will surely become so ubiquitous that people will take them for granted.

ADSL does not always seem fast because you can only get data as fast as the web can deliver. One purpose of the pilots is to see what people use it for, to help service providers to cache popular content on fast servers. This will relieve backbone demand and ensure fast delivery.

Still, even the downstream path of 256Kbit/sec or more

ADSL (Asymmetric Digital Subscriber Line) is one of several similar technologies going under the heading xDSL. It piggybacks a high-frequency signal onto a phone line, providing a permanent net link. Normal phone functions are unaffected. ADSL requires some tweaking at your exchange, and currently a BT engineer has to fit three boxes at your home: a splitter to filter off the HF signal, an ADSL modem, and a router. A standard for a slightly slower version called UDSL, or DSL, has been agreed. This can be user-installed and may be deployed as a cheaper alternative.

is four times as fast as a single ISDN line. And the upstream speed is well fast enough for video, to which one of the London pilots is dedicated.

Just as important, which I did not fully appreciate until ADSL was in place, is that it is always on. This makes feasible many web features that have never quite taken off, particularly those like magazine delivery that use push technology.

Other obvious uses are security (you can maintain a permanent video 'eye'), game playing, videophones and even standard phone calls using voice-over-IP. A big question is what this will do to standard

phone revenues. The impact on e-trade could be such that ADSL may become free, financed by ads and transaction revenues, says John Swingewood, director of BT Internet.

In the short term it will be more costly and the rollout across Britain could take three years or more. Some see a possible conflict between BT's commercial interests and those of users, even Britain's: this is, after all, the IT equivalent of the M1. So be prepared to lobby your MP if prices are set too high or the rollout is too slow.

I've only just got my link and will write more next month on how it pans out. CLIVE AKASS

Fast graphics boards challenge new PIII

The successor to the PIII chip has been named... wait for it...the PIII. Intel says the chip, codenamed Katmai and due to launch at the end of February, will offer faster

graphics thanks partly to

70 new machine-code calls. These are called the 'streaming SIMD extensions' or KNI - Katmai new Instructions.

We will be able to write more about the PIII (right) after the launch. But developers have been using the new code for months as

Intel did not wish to repeat the mistakes of the MMX launch, when there was a wait for supporting apps.

The PIII extends the performance gap over entry-level Celerons, in line with Intel's policy of targeting different chips for different markets, rather than the early one-Pentium-for-all strategy.

But users are starting to question whether KNI is redundant. Geometry acceleration on 3D graphics cards like the Voodoo2 offload most jobs from the CPU. One California graphics

chipset maker plans a card with full geometry acceleration for around £100. So, just to play cutting edge games, should you buy this or Intel's £400-plus Godzilla?

● Fujitsu has picked S3's Savage3D accelerator for a new line of games PCs. It is the only one fully supporting S3TC texture compression, part of the DirectX 6 API. S3TC cuts the bandwidth needed to get data from RAM, allowing higher-quality textures and boosting performance.

Meanwhile, Diamond

has reiterated its support for nVidia in the wake of 3Dfx's surprise merger with STB, which turns 3Dfx into a major board supplier for new PCs but leaves allies like Diamond in the cold. See page 52.

AJITH RAM



● Chips for 2000 AD ... see page 144

● More chip news ... see page 48

DIGITAL TV

Microsoft challenges Jini with new global plug-and-play plan

Microsoft has unveiled a rival to Sun's Java-based Jini, which aims to allow all manner of intelligent devices to talk to each other.

The Universal Plug and Play (P&P) technology is based on the net standards TCP/IP and XML (eXtensible Markup Language), Microsoft says.

Sun-developed Java is a source of some contention between the two companies.

Partners backing Microsoft on Universal P&P include Intel, Texas Instruments, 3Com, Cisco, AT&T, Compaq, Dell and Hewlett-Packard. Sun is conspicuously absent. So is IBM, which is reportedly working on similar technology called Tspaces.

Rumours of a Microsoft answer to Jini, due to launch by the time you read this, have been around for months. But Sun chief operating officer Ed Zander said at CES: 'We believe we're going into a post-PC era that is non-proprietary.'

Microsoft is downplaying similarities with Jini. Instead the technology is presented as an extension of Windows P&P.

Universal P&P amounts to a barebones peer-to-peer networking technology. It allows devices on a network to assign themselves an IP address, locate each other, and publish their functions in an XML document.

It will, says Microsoft, will be leaner than Jini, requiring only a 25Kb to 35Kb TCP/IP protocol stack and a 15Kb to 25Kb ultra-small web server. This is about the same as Jini's 48Kb core but, unlike Jini, it will not require a Java virtual machine. Microsoft says it will work on multiple networking layers, including Universal

from Dominique Deckmyn in Las Vegas

Serial Bus (USB), Irda, Firewire and IP. Microsoft showed at the Consumer Electronics Show how a handheld PC could use Universal P&P to use a printer.

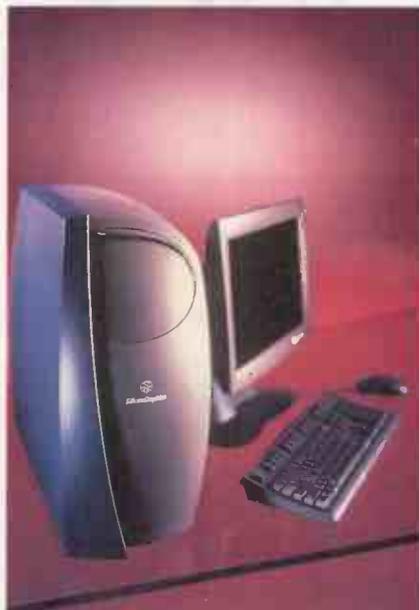
'Jini requires everything to be rewritten in Java,' said Phil Holden, Windows group product manager. 'That's

fine, if you like Java. We've chosen a more practical approach.'

Microsoft hopes to present a completed specification and reference design at its WinHEC event in April. The technology will be a feature of Windows 2000.

Products based on Universal Plug and Play are expected by Christmas, said Holden.

- Microsoft trial - page 38
- More from CES - page 31



Silicon Graphics, famous for its Hollywood-class graphics stations, has launched two revolutionary

SGL ships 'Super PC'

desktop-priced models using Windows NT and Intel processors. They are functionally PCs but use an architecture redesigned around a new Cobalt chipset which directly links the processor(s), graphics system and RAM — an arrangement that's a claimed six times faster than a 2x AGP graphics port. They also boast two 64-bit PCI buses — one dedicated to the hard disk. The entry-level SGI 320, available now, uses up to two 450MHz PII processors and 1Gb of RAM. Prices (all here quoted ex VAT) start at £2,340 with no monitor. Shipping in a few weeks is the SGI 540 which can use up to four 450MHz Xeons. Prices start at £4,130. Both models are optimised for SGI's £1,720 1600x1024 17.3in 1600SW flatpanel monitor. The models are a major win for NT, which has seen a steady drift of graphics applications and users from the Mac platform. SGI 07000 320S40; www.sgi.co.uk/visual

Air guitarists get real

There's hope at last for all those air guitarists who could play just as well as Jimi Hendrix if only they knew how to play a guitar.

A program called The Axe, from Harmonix, allows you to play like a master with none of the tiresome business of learning technique.

It works like an instrumental karaoke: you play lead to a backing track — except that the software provides

the notes. You do the bending of the notes and other effects using the mouse or keyboard.

You are not restricted to heavy metal, either. You get a choice of electric guitar, jazz guitar, piano, trumpet, sax or scat voice.

I tried it at Comdex last year and it's great fun. You can buy it online for \$19.95 from www.theaxe.com.

CLIVE AKASS



'You were playing Pete Townsend? Does that mean you had to go smashing up your PC!'

short stories

HAYES FIGHTS ON
Modem pioneer Hayes said it expects to seal a survival deal in February after going into Chapter 11 protection for the second time in five years. Most of its 250 US staff were laid off but at its profitable European division in Surrey, Hayes' small team of sales, marketing and administrative staff are continuing as usual.

VNU NEWswire



This 21 in Eizo FlexScan T960 offers a 1600x1200 resolution at a refresh rate of 92Hz on a low-reflection flat screen. It packs a USB hub and twin video inputs and costs £959 ex VAT.

Professional Display Systems
01483 719500

DISPLAYS

Projectors challenge big screens

Digital projector systems are emerging as a serious rival to big gas-plasma screens that can cost £10,000 and more (see *Tim Bjarin, opposite*).

The projectors use three internal LCD displays, corresponding to a computer's RGB output. The three colour images are merged via a prism and projected onto a screen.

These devices have been used mostly by business people for laptop-based present-

tations, and until recently cost almost as much as plasma displays. In Focus's LP750, featured in last month's gadgets, lists at £7,044 inc VAT.

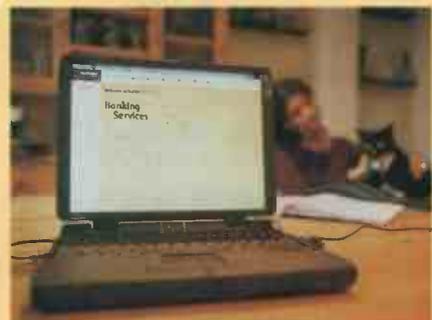


But prices are falling and the new Ask A4 Compact (pictured, above) lists at just under £4,000 and is selling for just £3,250 ex VAT. Prices could fall to below £2,000 by next year as the number of companies making the gadgetry increases — currently most models are based on an Epson engine.

Those sort of prices could extend the use of these devices to homes and small businesses. They can be used to project video and TV as well as computer displays.

The Ask A4 Compact weighs just 3.5kg and supports resolutions up to 1024x768 (1152x870 Mac) and includes a remote control.

ASK 01753 701050; In Focus 0181 213 2100



This is the domestic bliss NatWest envisages you will enjoy with its new online banking service, which is direct dial rather than net-based because of security fears. Facilities include credit transfers, payments, ordering cheque books and statements.

www.natwest.co.uk

POINT OF VIEW

The perils of D-I-Y

Being a computer journalist is a bit like working in a busy toyshop: you are surrounded by toys you don't have time to play with. The Christmas break, despite a bout of flu, gave me a few spare hours and I grabbed the chance.

Naturally, I tried to do too much. I gave my venerable Dotlink PC a heart transplant in the form of a Gigabyte GA-5SG100 motherboard, a 350MHz K6-2 processor and 64Mb of RAM, giving me virtually a new PC for just £250 (I was given a 3Dfx graphics card).

I also decided to partition the 3Gb drive on my other home PC, a two-year-old 166MHz MMX running Win95, and install both Windows 98 and the new BeOS 4.0 as a dual-boot system. And then to network the two machines.

Some 24 hours later the revamped Dotlink was up and running — but cutting out every few minutes. And the MMX was a disaster zone. What had

happened was this. The BeOS disk packs Partition Magic for setting up the dual boot. This involves a hair-raising remapping of the hard drive, but it went smoothly enough in my case.

The BeOS install was still more nerve-racking. A screen message warned me that it would wipe all the data on my secondary partition, and was I sure I wanted to go ahead? Of course I wasn't sure, given that I had been given no indication which partition was which.

I went ahead anyway and the BeOS installed itself happily down to the last screen message. Then it announced that it could not write my MBR (master boot record) and could not therefore install a boot manager. I left it there, a ghost on my machine (Windows can't see the BeOS partition) as my priority was to get the PC going. The Win98 install hung when

Setup lost the very CD drive it was running from. It blamed 'incorrect plug and play' information from the secondary IDE port. So there I was with two unusable PCs and a partner complaining loudly that she had nothing on which to write an overdue essay.

Win98 insisted that I needed a BIOS upgrade to get it to run so I reverted to Win95 — Microsoft had provided an easy uninstall procedure. But something odd has happened to the registry, so I cannot get Win95 to use my new plug-and-play D-link network card.

The Dotlink is good news. I reseated the CPU fan, which I'd set slightly askew, and the PC has run fine ever since. In fact, I was impressed at how easy the heart swap was. PCs have become so modular, you can slot them together like Lego.

But the other upgrade shows the hassles you can get into if something does go wrong. If you cost out your time, D-I-Y can be a false economy.

Clive Akass



tells a tale of two PC upgrades

It's home, home on the range for network firms

IBM and Cisco plan to persuade people to network all kinds of home devices, from PCs to entertainment systems, security devices and fire alarms.

Cisco chief executive John Chambers demonstrated a system using a combination of cable, phone and radio links.

He featured home

from Jan Howells in Las Vegas

broadband products, including a Hitachi set-top box that delivers a standard TV signal with a windowed net link.

'The internet revolution was started by big businesses... Today, consumers are the driving force,' he said.

Home networking will generate around \$4 billion by 2002, according to market researcher Wedbush-Morgan (Forrester Research reckons \$2 billion).

IBM is pushing its Home Director which connects home systems such as PCs, security and lighting.

Product manager Craig Merrigan said: 'Home networking will be a way for builders to differentiate new homes.'

Sharewave used CES to launch its new 2.4GHz wireless home net, while Intelogis showed off one based on power lines, writes *Tim Bajarin*.

Two companies showed me networks based on phone lines, which look perhaps the best approach.

Wireless and phone nets will reach 10Mbit/sec by next year, the developers hope.

PC or TV - which should be boss?

The most interesting debate on home networks is whether the PC or TV will be the network server. PC companies believe that it should be a PC. But Howard Stringer, president of Sony US, opined in his CES keynote that the digital television will be the server of choice. This is an important issue which will pit the industries against each other. But digital TVs cannot be made without chips and even hard drives from the PC industry.

The PC industry is also ahead in controlling operating systems. Some TV companies want to create their own, but they will be aware of the growing support of software developers for Windows CE and Personal Java. It seems they will be forced to use PC technology whether they like it or not.

TIM BAJARIN

Talking net aid for drivers

Some 1.3 million Windows CE devices have been sold, said Microsoft senior vice president of consumer strategy, Craig Mundie.

New classes of CE device, such as the AutoPC and the Sega Dreamcast game console, are just reaching the market. Microsoft demonstrated the latter running WebTV software as a 'game'.

It also showed an AutoPC system using General Magic's Portico, which provides messaging and other services using voice recognition.

It used Portico to obtain a list of hotels near the car, whose position was obtained through AutoPC's GPS (Global Positioning System) system.



Pictured above is a prototype AutoPC system developed by the Silicon Valley firm Clarion (www.autopc.com).

DOMINIQUE DECKMYN

DigiTV gives us a smart VCR

The hottest product category at this year's CES was the emerging standards for **digital television** and digital high definition television (HDTV).

Most observers see DTV as stopgap until HDTV gets cheap enough for mainstream buyers. But I see this interim period as being short lived. Last year at this time, HDTV was \$15,000; this year should see some half that price and prices might get as low as \$5,000 early next year. The cheaper models used rear projection rather than active-matrix or gas plasma screens (which are still \$12,000 and more).

The other hot topic was **digital video recording systems** coming from Replay Networks and Tivo - front-end systems that serve as receivers for digital cable and satellite broadcasts. Each deploys MPEG II compression and large hard disks that allow you to store up to 27 hours of content. They also allow you to pause a show and return to it as if there has been no interruption. Replay calls it 'Prime Time Anytime'. Cost for the entry-level 7-hour version is \$799.

Also prominent at CES was the all-in-one PC design popularised by the iMac.

Hitachi, NEC and Samsung already have similar systems that use flatpanel displays. In fact, many of the top PC vendors are all working on similar products that will be out this summer.

However, the new twist Apple has given to the iMac (see pages 34 and 74) is causing them to rethink their designs. Now the iMac comes in colours, the new all-in-one PC products coming out in beige pale in comparison.

So, I expect them to do some fast dancing and try to change the colours of at least some of their models by the time they debut later this year.

CES used to highlight the gaming market, but that has moved to a mid-year show that now takes place in Atlanta. But, if you want to see the latest and greatest TVs, stereos, and consumer electronic products, this is the show that defines what this industry will bring to market in 1999.

Tim Bajarin



letter from the CES

short stories

► **HONEST JOHN BULL**
Britain tops the European league for honesty in software use, according to a survey commissioned by the Business Software Alliance. Nearly seven in ten (68 percent) of UK software managers checked their licences at least twice a year compared with an average of 40 in ten across Europe. Also, the BSA claims, people believe the penalties for software piracy should be higher and they regard it as being as serious as tax fraud.
BSA 0800 510510

► **FIT CANDIDATE**
ArcSoft's £24.99 (inc VAT) PhotoPrinter version 2.0 is said to save money by allowing you to fit several photos quickly and efficiently onto a single sheet of paper. A sister product, PhotoFantasy, which costs £29.99 inc VAT, allows you to stick your photos onto a wide selection of fantasy backgrounds.
Gem 01279 822800



► **20.4GB HARD DRIVE**
Western Digital has launched a four-platter 20.4Gb hard drive using technology licensed six months ago from IBM. It features a high-speed Ultra ATA/66 interface and Data Lifeguard, which is said to isolate and repair damage before data is lost.
Western Digital 01372 360055

► **DOS ON PSION 5**
You can run any of thousands of DOS programs on a Psion Series 5 palmtop using NB Information's £24.99 (inc VAT) XTM utility, which emulates an early XT PC. It supports text and CGA graphics modes at 320x200 and 640x200 resolutions.
NBI www.nb-info.co.uk

PROCESSORS

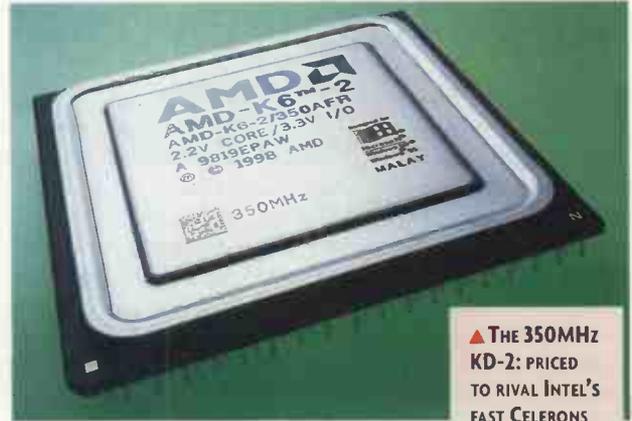
Intel blocks overclocking

Fast Celerons launched last month will not allow overclocking, Intel says. First versions of the 366MHz and 400MHz chips will not be affected but a 'clock lock' will be built in to production versions.

Some users claim to have run the chips at 550MHz and 600MHz. Intel declined to say how the clock lock works.

AMD pre-empted the launch of the chips by cutting the price of its fast K6-2s by up to \$60 as part of a continuing price war. Late last year Intel slashed prices of its 300MHz and 333MHz Celerons in a bid to shift stocks.

Cyrix and some distributors then claimed Intel was dumping Slot One Celerons to push



▲ THE 350MHz KD-2: PRICED TO RIVAL INTEL'S FAST CELERONS

Socket 370 processors into the marketplace.

Bulk prices for the 366MHz and 400MHz Celerons are \$123 and \$158 respectively. The 350MHz K6-2 is around \$100, and the 400MHz is \$175 over the

counter: bulk price will be about that of the 400MHz Celeron. Prices of Intel's 300A and 333MHz Celerons drop to \$71 and \$90 respectively. Intel also cut 350MHz and 400MHz PII prices by five and six percent respectively to \$202 and \$353.

Later this quarter AMD will release a 450MHz K6-2 and in February its new K6-3, also known as Sharptooth, will reach volume production. Rana Mainee, European research director, says AMD will feel strong enough later this year to maintain its prices if Intel undercuts them.

MIKE MAGEE

Enter three new Xeons

Intel has introduced three 450MHz additions to its high-end Pentium II Xeon chip family. The processors come with 512Kb, 1Mb and 2Mb of Level 2 cache (costing respectively \$824, \$1980 and \$3692) and are designed for use in servers and workstations. The chipset and processors will support four-way symmetric multiprocessing (SMP) machines. Intel says systems using the 2Mb Xeon gave 10 percent better performance than a 400MHz Xeon with 1Mb of Level 2 cache.

Ham it up with a radio scanner

We would be the last to suggest that any PCW reader might need (or even wish) to eavesdrop police radio channels, which is illegal.

But they represent just a small slice of the 0.01 to 1300MHz frequency range covered by Icom's PC-based IC-PCR1000 radio scanner.

You can receive amateur radio, emergency services, air traffic control, marine band and normal radio services.

The £199.99 device, the size of a small modem and plugging into your serial port, is controlled by a choice of two user



interfaces, one designed for beginners and the other for advanced use.

Icom 01227 741741; www.icomuk.co.uk

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PENTIUM 133



COLOUR NOTEBOOK

810Mb - 8Mb, "a very good machine" D Telegraph (20/8/98), inc DOS, Win 3.1, case. **£499⁹⁹**

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MULTIFUNCTION PRINTER

1200 dpi colour inkjet, 300 dpi colour scanner, plain paper fax & copier. 1 year on-site. **£129⁹⁹**

COMPAQ 5200



P120 WITH DOCKING STATION

Pentium P120, 1.3Gb, 24Mb RAM, TFT colour, CD ROM, with multibay base. Refurb. **£599⁹⁹**

RICOH RDC-2E



DIGITAL CAMERA - 768 x 576 RES

2Mb RAM card, pop up 1.8" TFT screen, auto exp/focus, macro mode, inc s/w, list £400. **£249⁹⁹**

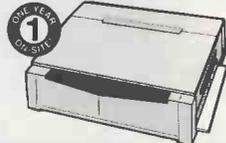
DEC 500i C



COLOUR INK JET PRINTER

600 x 300 dpi text, 300 dpi graphics, 5 pages/min, 5 resident fonts, 128K buffer, inc colour cart. **£59⁹⁹**

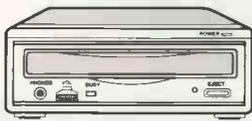
SHARP Z-20



GRADE A SHARP REFURB STOCK

As new factory refurb inc Sharp on-site, 3 cpm, auto exp - manual override, weighs 6.7Kg. **£99⁹⁹**

EXTERNAL CD



32X PCMCIA CD ROM DRIVE

External CD drive, PCMCIA connector, with power supply. Sold with any notebook £79.99. **£89⁹⁹**

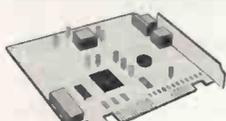
A4 SCANNER



TAMARAC ARTISCAN 9600 PRO

30 Bit colour, 600 x 600 dpi/9600 dpi, TWAIN compliant, parallel connection, inc OCR s/w. **£59⁹⁹**

CREATIVE LABS

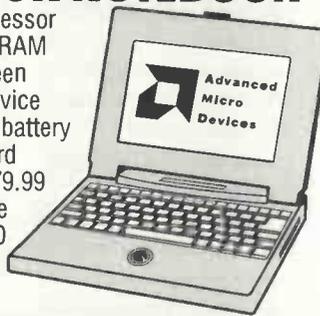


VIDEO BLASTER RT-300

Real time video capture & compression, Intel i750 video processor, Adobe Premiere, list £200. **£69⁹⁹**

133MHz COLOUR NOTEBOOK

- AMD 586 133MHz processor
- 1.3Gb hard drive, 8Mb RAM
- 10.4" DSTN colour screen
- 3.5" floppy, pointing device
- Sound/speakers, NiMH battery
- DOS & Win - US keyboard
- External 32x CD ROM £79.99
- With 16Mb RAM and free portable printer add £50



£399⁹⁹

OLYMPUS DIGITAL CAMERAS

Direct from the brand leaders in digital photography; these units are factory refurbished by Olympus, indistinguishable from new and covered by a full twelve month warranty.

C-420L, 640 x 480, 2Mb SmartMedia RAM, auto focus/exposure, built-in flash, PC or Mac **£199⁹⁹**

C-820L, 1024 x 768 res, 2Mb RAM, built in flash **£239⁹⁹**

C-840L, 1280 x 960, 4Mb, flash, tele/wide mode **£349⁹⁹**

C-1400L, 1280 x 1024, 4Mb, 3x zoom lens, flash **£599⁹⁹**

ORION CYRIX MII 300MHz

- Cyrix 300 MX, 512K Cache
- 3.2Gb drive, 32Mb SDRAM
- 4Mb 3D AGP graphics card
- 32x CD, wavetable sound
- 56K internal fax/modem
- 15" SVGA colour screen
- MS Windows 95
- SmartSuite



£499⁹⁹ **PENTIUM II 333** Specs as above but with 4.3Gb drive & 64Mb RAM **£699⁹⁹**

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LIBRETTO 30 CT



MINIATURE TOSHIBA SUB-NOTE

AMD 75MHz, 810Mb, 8Mb RAM, hi-res TFT screen, weighs 2lbs, US keybd, with Win 95. **£399⁹⁹**

15 PPM LASER



XEROX 4215/MPR

HP PCL 5 & PostScript, 4Mb, 300 dpi, 400 x 800 enhanced, 35 Adobe fonts, dual bin. **£399⁹⁹**

FUJI NC-3D



AUTOCHROME PRINTER

Enprints (A6) size from digital cameras or any TWAIN device, inc PhotoDeluxe, list £399. **£149⁹⁹**

1200 x 600 DPI



BROTHER HL760 LASER PRINTER

Windows GDI & HP PCL5e, 1Mb RAM, 6 ppm, 49 scalable fonts, Grade A Brother refurb. **£149⁹⁹**

DAEWOO 486



COLOUR SUB-NOTEBOOK

486DX4 75MHz, 540Mb, 8Mb RAM, ext floppy, colour screen, sub A4 size, just 1.9Kg. **£399⁹⁹**

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 ■ 12 Piccadilly Station Approach, Manchester 1 0161-237 1111
 ■ Unit 22 Derby Road, Greenford, Middx UB6 8UJ 0181-575 0055
 ■ Internet <http://www.morgancomputers.co.uk> with on-line ordering

Morgan

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short stories

WOMEN'S TROUBLES

Women are more prone to Ecstasy than men, according to research carried out by Release, using the statistical analysis package SPSS. More women than men in a survey of 550 users reported pleasant effects — but also, more reported problems such as nausea and mood swings.

SPSS 01483 71200



PRINTS CHARMING

Sony has achieved unexpected success with its Mavica range of digital cameras, which use a floppy disk to store pictures. Its new FVP-1 digital printer will provide instant 114 x 85mm colour prints straight from disc at resolutions of up to 1.4 megapixels. The FVP-1 is available now for about £600.

Sony 0990 111999

RECYCLING INITIATIVE

A laser toner recycling scheme in aid of the British Institute for Brain-Damaged Children has now been extended to cover inkjet cartridges.

Ring 01278 684060 for a free information pack.

ADEPT AT ADAPTATION

ISDN terminal adapters are one area where USB should score quickly over standard serial ports, which can be

overloaded by devices. Electronic Frontier is selling the DrayTek Vigor128 for £149 (ex VAT), or £189 (ex VAT) for an iMac version.

Electronic Frontier
0118 981 0600



MACINTOSH

New big Macs drop SCSI

Dominique Deckmyn reports from MacWorld.

Apple has rolled out a new family of **PowerMac G3 professional systems** featuring PowerPC G3 chips running at up to 400MHz with a 100MHz bus, up to 1Gb of RAM and a maximum 100Gb of disk storage.

The machines, unveiled at MacWorld in San Francisco, have four expansion slots and are equipped with standard 100Mbit Ethernet.

More controversially, they dispense with the Mac's traditional SCSI interface in favour of Universal Serial Bus (USB) and Firewire ports. Steve Jobs claimed 'history has passed by' SCSI although a SCSI add-on card is available for \$49.

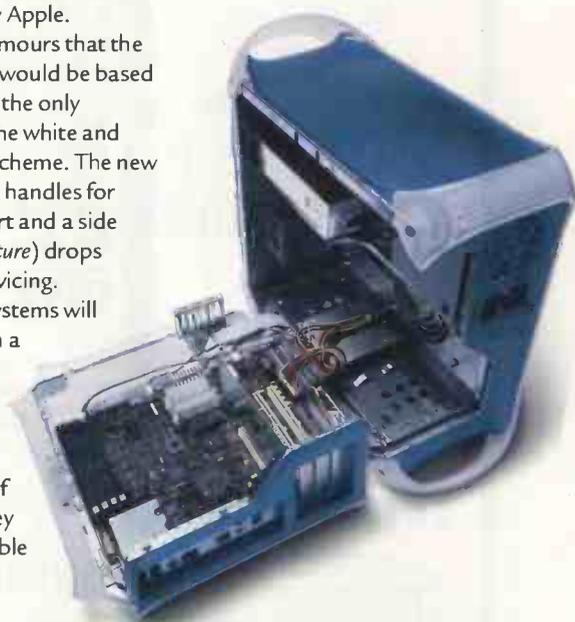
The Firewire bus allows peripherals such as video

cameras to be connected at speeds of up to 400Mbits/sec. Firewire, known more prosaically as 1394, was originally developed by Apple.

Despite rumours that the new systems would be based on the iMac, the only similarity is the white and blue colour scheme. The new systems have handles for easy transport and a side panel (see picture) drops down for servicing.

The new systems will all come with a built-in ATI Rage128 graphics accelerator with 16Mb of memory. They will be available immediately, priced from

\$1,599 to \$2,999. Jobs claimed they outperform the fastest Pentium II systems by a wide margin.



Rhapsody unveiled

Steve Jobs also announced the Mac OS X Server operating system based on the technology acquired from NeXT. It was formerly named Rhapsody and is a precursor to Apple's next-generation desktop operating system, Mac OS X, which Jobs now said will ship 'in less than a year'.

Mac OS X Server is based on the Mach microkernel and will ship with an Apache web server and Apple's WebObjects development environment. Jobs demonstrated a rack of 50 iMacs, all running video streaming off a server running Mac OS X Server.

The operating system will ship in February, priced at \$955 per server, for an unlimited number of clients. A new G3 PowerMac equipped as a server, with Mac OS X Server, will cost \$4,999 [full review next month].

Shades of success

Triumphant Steve Jobs claimed in his MacWorld keynote that **800,000 iMacs had been sold** since their 15th August launch — and he took dealers by surprise by announcing four new translucent shades of the all-in-one design: grape, tangerine, lime and strawberry [see Gadgets, p74]. Jobs also announced a new line of iMacs, priced at \$100 below the original iMac at \$1,199 and with a faster 266MHz G3 processor and a 6Gb hard drive. Missing, though, was the long-expected introduction of a consumer portable machine.



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Trial and error

Graham Lea reports on Microsoft's **current court battle** and its possible impact on users.

At half time in the epic trial between the US Department of Justice (DoJ) and Microsoft, it looks as though Microsoft is losing. At issue is whether Microsoft has competed unfairly against competitors such as Netscape (by allegedly pressuring PC makers, software vendors and online service providers to use Internet Explorer rather than Navigator); Sun (by allegedly corrupting Java); and Apple (by the alleged techno-sabotage of QuickTime), to give just three examples.

The first stage of the present case, which started last May, is being decided in the US District Court in Washington DC by Judge Thomas Penfield Jackson, and a decision is likely to take a few more months. Whichever side wins, it is probable that the loser will take the case to the Court of Appeal and/or the Supreme Court, where decisions are made by politically appointed judges who mostly favour big business.

As usual, the victims are users, who pay an ever-higher price for the operating system at a time when all other hardware and software costs are decreasing dramatically. According to data that came to light during the trial, the cost of Microsoft operating systems increased 260 percent between 1990 and 1996 when other costs have gone down. Microsoft cannot argue that the increased capability of Windows justifies the increase, because all hardware and software has seen similar or greater increases in functionality, and lower prices, as a result of competition.

Microsoft's 49 percent profitability is the highest of any major US corporation, so the inevitable conclusion is that Microsoft is exploiting its monopoly, as well as using the monopoly to leverage its way into other markets like the internet. Microsoft's entrenched monopoly (which it denies) has resulted in package software developers like Intuit only developing for Windows, while others have scaled back their Mac

and Unix versions. A brave few like Corel and Star Division have recognised the need to support new developments like Linux. Innovators like Norway-based Opera Software, the producer of a browser that in many ways beats both IE and Navigator, finds that the market for pre-loads is effectively blocked by Microsoft's business practices.

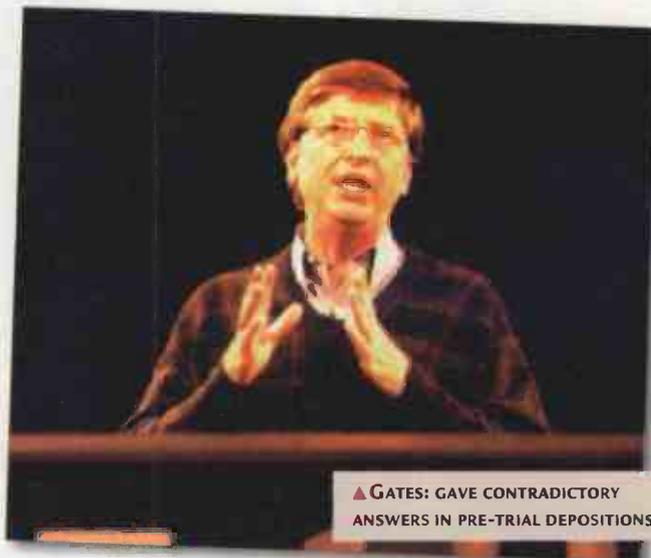
Microsoft maintains its monopoly by means of a choke hold on PC makers, making it very difficult for them to load Linux without Windows, for example, if they wish to install Windows on other models for a price that allows them to remain competitive.

The procedure in the court is for each witness to present written testimony in advance, to save court time, and then to be cross-examined on it. The DoJ has now presented the 12 witnesses it was allowed, and Microsoft's witnesses (nine of them senior employees) are now being

subjected to cross-examination. Bill Gates' appearances in seven video-taped excerpts from his three days of compulsory

deposition before the trial started has not helped Microsoft's case. He was most reluctant to answer questions, and many times his answers contradicted email evidence that the DoJ introduced.

Microsoft's propaganda has focused on a plea that it be left alone by the government and allowed to innovate, but the problem with this defence is that it is hard to think of any significant Microsoft innovation other than its anti-competitive marketing practices. Microsoft wants exemption



▲ GATES: GAVE CONTRADICTIONARY ANSWERS IN PRE-TRIAL DEPOSITIONS

from the competition laws, saying in effect that because cars can go faster, there should be no speed limits.

In many ways, the real battleground is not Judge Jackson's courtroom, but the court of public opinion that Microsoft has been doing its best to influence. There is no evidence of impact on users so far, or even on Microsoft's share price, which has risen to record levels.

Even if the District Court does find against Microsoft, it will be hard to devise remedies that would be effective in bringing back choice for users and making possible fair competition between software vendors. The remedy most discussed has been the break-up of Microsoft into operating systems and applications companies, but this is unlikely to work for several reasons, not least the time it would take before it happened.

Whatever happens in the coming months, the result of the trial will affect all users and determine if there will be fair competition between software producers, and whether users will be offered truly innovative, competitive software at reasonable prices.

➔ Graham_Lea@heterodox.com is an independent computer industry analyst specialising in Microsoft. He comments daily on the trial at www.theregister.co.uk

Just because you're paranoid...

...doesn't mean that **viruses, bugs and security hazards** are not out to get you. Does it?

The announcement of a new super-smart virus which infects NT networks sent a shiver through the IT industry late last year. First reports of the Remote Explorer virus made it sound like the binary equivalent of getting anthrax in your air conditioning.

Panicking NT administrators flooded Microsoft and anti-virus companies with queries about the virus.

But there were soon accusations that Network Associates Inc. (NAI), which detected the virus in an MCI WorldCom network on December 17, had hyped the problem. NAI was also criticised for waiting four days before releasing the code, breaking an industry rule on sharing anti-virus information; the name of the victim also leaked out, contrary to standard practice.

Nick Fitzgerald, editor of the Anti-Virus Bulletin, said: 'If the virus was as dangerous as NAI said it was, then it was irresponsible not to share the code; if it was not that dangerous, then its initial press announcement was misleading.'

Nevertheless, he agreed that the new virus, written in C, leaves no room for complacency. NAI, which now owns the Dr Solomon anti-virus range, described it as one of the most sophisticated yet discovered. It infects program (.EXE) files, and renders text and HTML files unusable by encrypting them.

What makes it unique is that when an infected .EXE file is run by a user with administrative privileges, the virus installs itself as an NT service — and proceeds to infect files in machines within that user's privileged domain or domains.

Fitzgerald says there

are three reassuring factors:

➤ The code is bug-ridden and the virus is easily spotted.

➤ At press time, the MCI WorldCom outbreak was the only one that had been reported. Affected parts of the network were quickly quarantined to stop it spreading.

➤ Someone with administrative privileges is needed to spread the virus. MCI WorldCom is undergoing a big shake-up, and there has been speculation that the virus was the work of a disgruntled employee.

On the other hand, first instances of viruses can be relatively crude and later versions may be more dangerous. Virus scares have the benefit of alerting people to the general problem — and there are several dangerous new strains floating about. Even as the Remote Explorer furore began to die down there was a warning about another alleged threat,

called the Russian New Year after its origin and time of announcement.

This uses HTML and the Excel function

CALL to steal or copy files, though no real-life instances have yet been detailed. Fitzgerald said: 'The main thing is to get people

regularly updating their virus checkers.

That way, when a new strain does break out, it won't get very far.'

...the binary equivalent of anthrax in your air conditioning

Microsoft says Remote Explorer 'does not exploit any security vulnerabilities' in NT and that normal anti-virus precautions will reduce the threat. These include logging on as an NT administrator only when necessary.

To check if your system is infected, go to Control Panel/Services to see if one called Remote Explorer has been installed. It is run from a file that is stored in %systemroot%\system32\drivers\IE403R.SYS

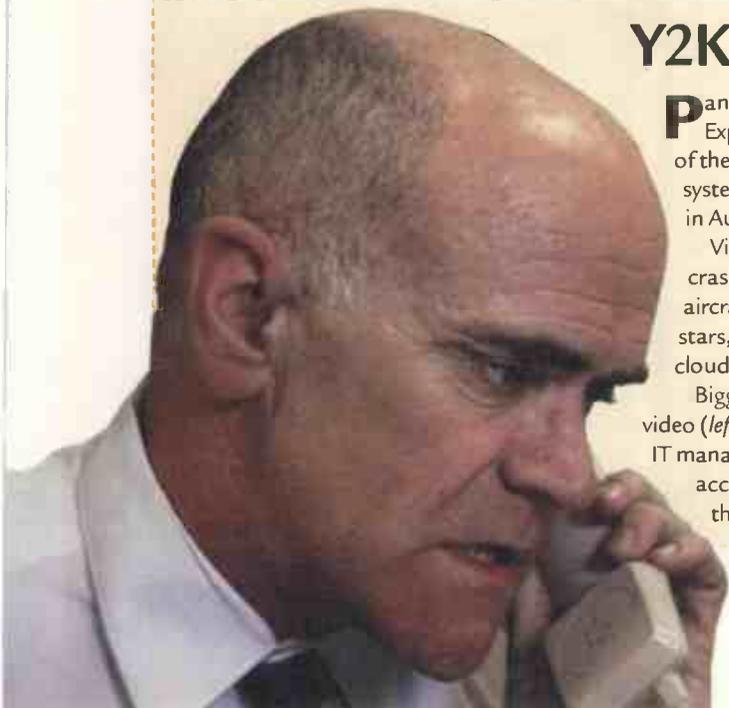
Leading anti-virus firms such as Symantec have fixes both for the virus and the encrypted files.

Y2K panic goes sky high

Panic of the Month is the millennium bug rather than the Remote Explorer virus. Curiously, one of the first reported date problems of the year concerned not Y2K but certain Global Positioning Satellite systems which could only count up to 20 years — a time that expires in August.

Visions of planes wandering aimlessly around the skies until they crashed were dispelled by Those In The Know, who said all the world's aircraft had been checked. Anyway, all pilots know how to guide by the stars, don't they? Isn't that the Pole Star we glimpsed through those clouds? Doesn't that point south?

Biggest scare was in Australia where a Y2K consciousness-raising video (left) reportedly sent waves of terror through the ranks of antipodean IT managers. The video, called 'Neighbours meets the Year 2000', was later accused of being over the top. If you want to monger a Y2K scare, the UK distributor is Look Multimedia (0171 255 2670).



Adobe fills its web gap

Graphics specialist Adobe has bought into the professional web authoring market with the purchase of the Cyberstudio web authoring tools as part of an acquisition of Golive Systems. Adobe's only, somewhat limited, success in this field has been with its low-end PageMill tool, featured in this month's web authoring group test (p190). Now it has become an instant front-runner for Mac-based web design, and wins itself a

package aimed at the more technical end of the market, keeping it distinctly separate from PageMill, which is aimed at the creation of smaller sites. Adobe says Cyberstudio outsells its nearest Mac competitor, Macromedia's Dreamweaver, by two to one. And Bruce Chizen, worldwide marketing vice president, said Adobe would port the software to Windows at 'internet speed'. He declined to give a ship date. Macromedia,

meanwhile, is not sitting on its laurels. Dreamweaver 2 came too late to earn a place in the group test, but it nonetheless threatens to out-Adobe Adobe for a combination of power and ease of use. See next month's PCW for a full review.



▲ **DREAMWEAVER:** OUTSOLD, BUT THE NEW VERSION IS A WORTHY RIVAL TO CYBERSTUDIO

NIK RAWLINSON

Graduates on the fast track to success

Doing well for itself is a software company that took off in an undergraduate's bedroom at Churchill College just three years ago and has developed innovative web server software competing with the likes of Netscape and Microsoft, and open-sourced Apache.

Computer science graduates Adam Twiss, 22, and Damian Reeves, 24, claim their Zeus Web Server software is the fastest and most scalable commercially available. Zeus Technology has already racked up 300 customers across the globe, including big names such as Lycos, MCI and Cable & Wireless. The web server software has full FrontPage support, Apache compatibility, and is believed to be the only commercial server to offer 128-bit SSLv3 encryption worldwide.

The latest version 3.1 provides solutions for web hosting, intranets and secure e-commerce. Twiss said: 'In a nutshell, we simply have one process which handles thousands of connections, whereas the competition has a process per connection. Thus we utilise the hardware's resources more efficiently and achieve vastly superior performance and scalability figures.'

'We designed new software from scratch: most server software is produced to the original NCSA (National Centre for Supercomputing

Applications) web server software. We took a clean piece of paper and worked out what was needed to speed things up.' Today, 73 percent of the server software is exported with 60 percent going to the US. Customers are mostly ISPs and large web hosting companies. General manager Bryan Amesbury says: 'Competitors can only host around 4,000 sites on one server, whereas Zeus can handle 10,000.'

All aspects of the server software can be configured and managed via any HTML browser. A programming interface for interacting with external authentication services allows developers to produce efficient web applications quickly.

A round of funding has just closed with a group of City investors taking a minority equity stake. The company is talking about going public in 2000.

www.zeustech.net

➔ **Connectivity specialist** Adder Technology has been named among the top 50 fastest growing technology companies in the Eastern Region [Deloitte & Touche Technology Fast 50 Awards 1998 www.fast50.co.uk]. Its latest product, AdderView, allows up to four computers to be controlled and monitored from a single keyboard,

monitor and mouse. One application might be a networked desktop PC sitting alongside one providing web browsing or email services, where the two have to be kept separate for security reasons. Pricing starts at £149.

Adder Technology was formed by Cambridge engineering graduate Adrian Dickens in 1984 as a publishing company. From writing books for home computer users he moved on to printer sharing, then produced a range of intelligent keyboard, video and mouse switches for sharing peripherals among computers.

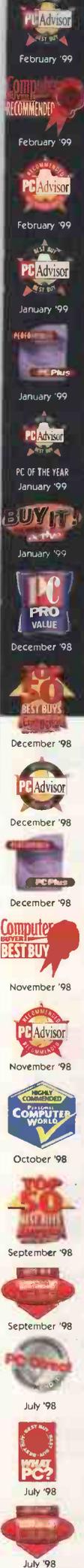
Products for larger installations include SmartViewPro which can connect hundreds of computers. Customers include Barclays and Lloyds Bank, UUNet, British Airways and BT. www.addertec.com

➔ **Filmgoers** who have seen the Dreamworks release *The Prince of Egypt* will have had a taste of work produced by software from Cambridge Animation. Work is almost complete on a new Warner Bros feature, *Iron Giant*, based on the Ted Hughes story, which uses the Cambridge company's latest software, Animo 20. The filmmakers are hoping for a summer release. www.cam-ani.co.uk

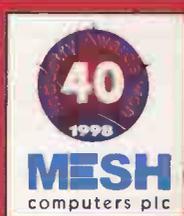
Caroline Swift



continues her reports from Silicon Fen



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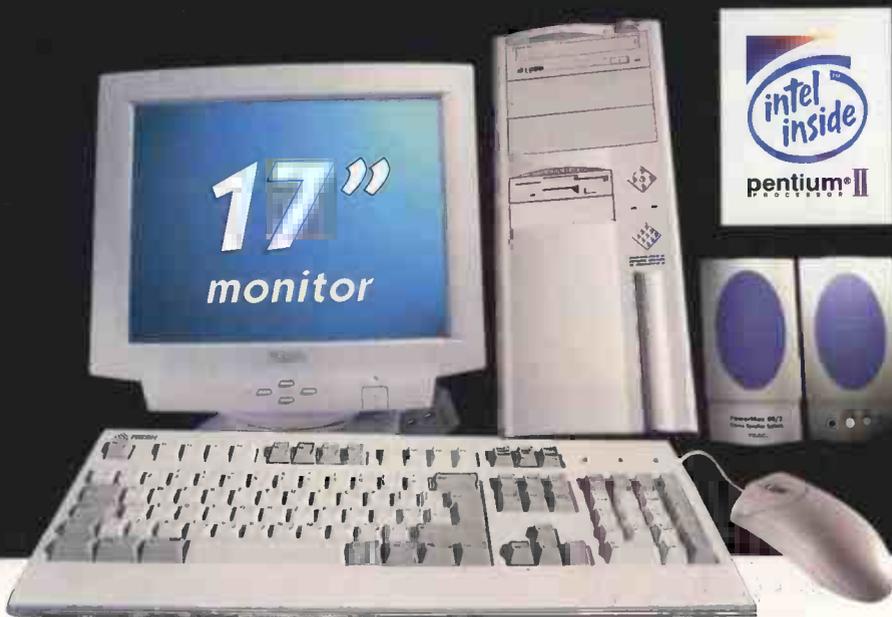
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PC Advisor

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1999**

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January 1999

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PC Advisor

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The new year sales

Tim Bjarin predicts how the industry will fare as we enter a **more promising phase** in the PC world.

This time last year, almost everyone thought 1998 would be a solid year for Silicon Valley companies, with a host of colour printers, low-cost PCs and powerful servers coming out. Many thought the work of Intel and HP on the new IA 64 processor would bear fruit.

But the Asian economic flu, mistakes by some PC vendors with key products, and changing distribution trends, have caused many to look for better times in 1999. And IA 64 will probably not see the light of day until 2001.

PC sales worldwide will still come in at about 12 percent growth, an amazing figure given the Asian troubles. PC sales in the US will show about an 18 percent growth for 1998, with Europe coming in just a bit behind. But because of shrinking margins, US revenues will show a two percent growth or less.

Demand for PCs went up, but hardly anybody made any serious profits in 1998 except Dell and Gateway, whose direct-selling model has given them an edge. They can also get to market first with products using the latest Intel chip — though other PC vendors continue to create products that compete with the best on offer.

So, what's in store for 1999? First, Compaq, IBM and HP will have to get better distribution models in place if they want to keep up with an ever-changing PC market. This is tricky as they have invested heavily in dealer relationships, but the wave of the future is build-to-order, direct selling to both business and home users. The three have a key advantage in either selling model: they excel in support and service. But to stay on top, all the top five will have to continue to innovate in the technology of PCs, portables, servers, printers and even imaging technology — a market that is really taking off.

Any company that does not create a strong web-based commerce presence will be hurt. Intel is selling \$1 billion worth of products from its site each month, and Cisco records sales of about \$500 million monthly. PC vendors already have a web presence in several areas, but they have not embraced the e-commerce model as aggressively as I



▲ THE EASTERN MARKET SUFFERED AN ECONOMIC VERTIGO THAT LED TO A DISAPPOINTING 1998 FOR COMPUTING SALES AND PROFITS

believe they should. Companies like Compaq and IBM are afraid of burning their traditional dealers.

One vendor, Hewlett-Packard, is doing a bang-up job in one area, though. It is leading the charge into smaller, lighter mobile computing and has jumped on the Windows CE bandwagon in a big way. Its New Jornada 850 is a solid example of providing a new form factor that takes portable computing to a new level.

Two factors should help keep sales of PCs strong in 1999. First, many companies are looking at buying new PCs that can handle Windows 98 as a way to deal with the Y2K problem fast. And Intel's Pentium III (formerly Katmai) chips, due to launch next month, could encourage many users who want high-speed processing both in the office and the home to upgrade in 1999. These chips will start at 450MHz and go to over 650MHz by the end of 1999.

Aggressive roll-outs of cable modems, providing megabit-plus access to most big cities in America, could also drive PC sales up.

The Asian crisis will still haunt us in 1999, but we are starting to see signs of improvement, especially in Korea and

Hong Kong. And if Japan can get its act together in banking, it

too could see an upward turn in 1999. But, even if Asia remains flat, most analysts still see demand for PCs rising in the US and Europe this year — though squeezing profits out will remain tough.

Believe it or not, I think the best years for the IT industry are still ahead of us. We have spent the past 20 years bringing technology to business, but have only scratched the surface when it comes to bringing digital technology to the masses.

PC-based technology accounts for \$850 billion in yearly revenues worldwide today; by 2005, with the adoption of PC-based technology by mainstream consumers, yearly revenues of digital technology could account for close to \$2 trillion.

The only question for any PC vendor is how they capitalise on this eventual demand for technology by mainstream users, and how they navigate the e-commerce jungle as it rewrites the way we do business in the very near future.

short stories

WALES DOMAIN

Welsh businesses are calling for their own top-level domain name. Gwent-based Citypages, which designs and markets web pages, has told UK domain registrar Nominet that many small- and medium-size Welsh businesses are requesting a Welsh domain. Nominet said it didn't have the power to create a Welsh domain, but Citypages says it will not give up its campaign.

JOBSITE

An internet recruitment service is hoping to take the work out of finding the perfect job. Jobsite offers CV distribution, which matches you to companies who are looking for people with your qualifications. It will also notify you when positions come up that match your preferences.

DOMAIN NAMES

Internet One (IO) has created a shared named depository, enabling different companies, organisations and individuals that legitimately use the same trade names in the real world to use such names on the internet without conflict or fear of 'cybersquatting'. With the growth of the internet, domain names have increasingly come into conflict with trademarks. Often two companies, sometimes in disparate markets, use the shared global medium to trade under the same name. The new database overcomes this problem by listing any company or individual that registers, allowing users to pick from a list when two or more share a name. The World Intellectual Property Organisation, which handles trademark disputes, has told IO that it supports the initiative.

www.io

E-COMMERCE

Spam frittered by new email law

Unsolicited email could be drastically reduced after two opposing groups agreed in December on a policy to outlaw spam while still allowing email to be used as a legitimate marketing vehicle.

The Direct Marketing Association (DMA) and anti-spam activists agreed that an opt-in policy was the most successful targeting method for online marketers. Traditional direct mail, as well as fax and telephone marketing, works on an opt-out basis, where consumers have to specifically request to be taken off lists. The DMA had wanted to extend this approach to email but anti-spam groups strongly disagreed, believing this was an intrusion of privacy as the responsibility is passed to the recipient.

At the meeting, the two sides also agreed to support

legislation which prohibits spammers from using false email addresses or headers for commercial email, without stopping otherwise legal email marketing.

John Mozena, of the Coalition Against Unsolicited commercial Email (CAUCE), said it was a positive move, but would have preferred a more proactive action. 'We wish the DMA would endorse legislation to enforce opt-in,' he said.

A global database of all the email addresses of consumers who have asked not to receive direct marketing by email will be created to help co-ordinate the efforts of anti-spam organisations. It will then be available free to consumers as well as businesses and individuals to check before embarking on a mass email marketing campaign.

VNU NEWSWIRE

IT input is OK

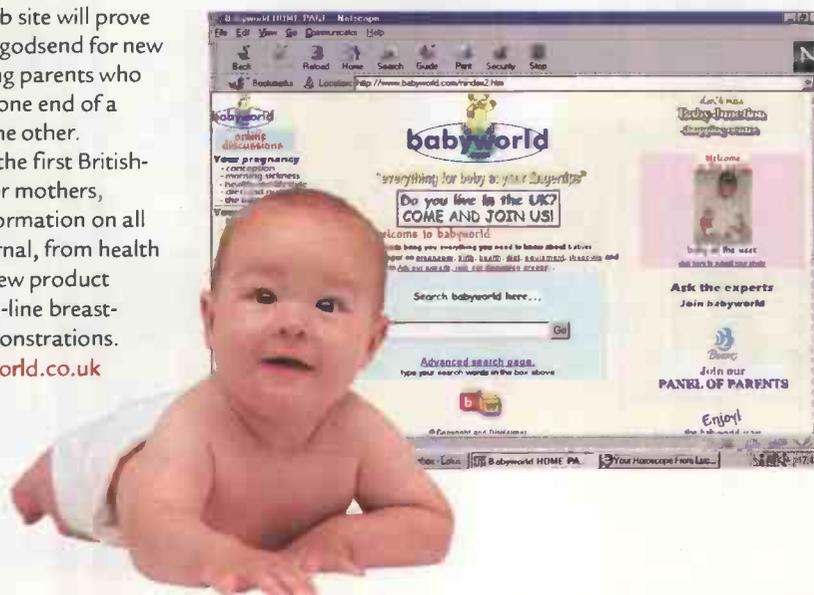
Information overload is no longer the problem it once was, a report from Reuters has revealed. The report, called **Out of the Abyss: Surviving the Information Age**, interviewed business managers from around the world about how they managed their information technologies. It found that although many managers were still receiving too much information from many different sources, most were not so concerned about it as in the past. Only 26 percent felt they were overloaded. However, 40 percent of managers still said that fatigue from managing their information load was affecting their personal life, and 33 percent said it was affecting their health.

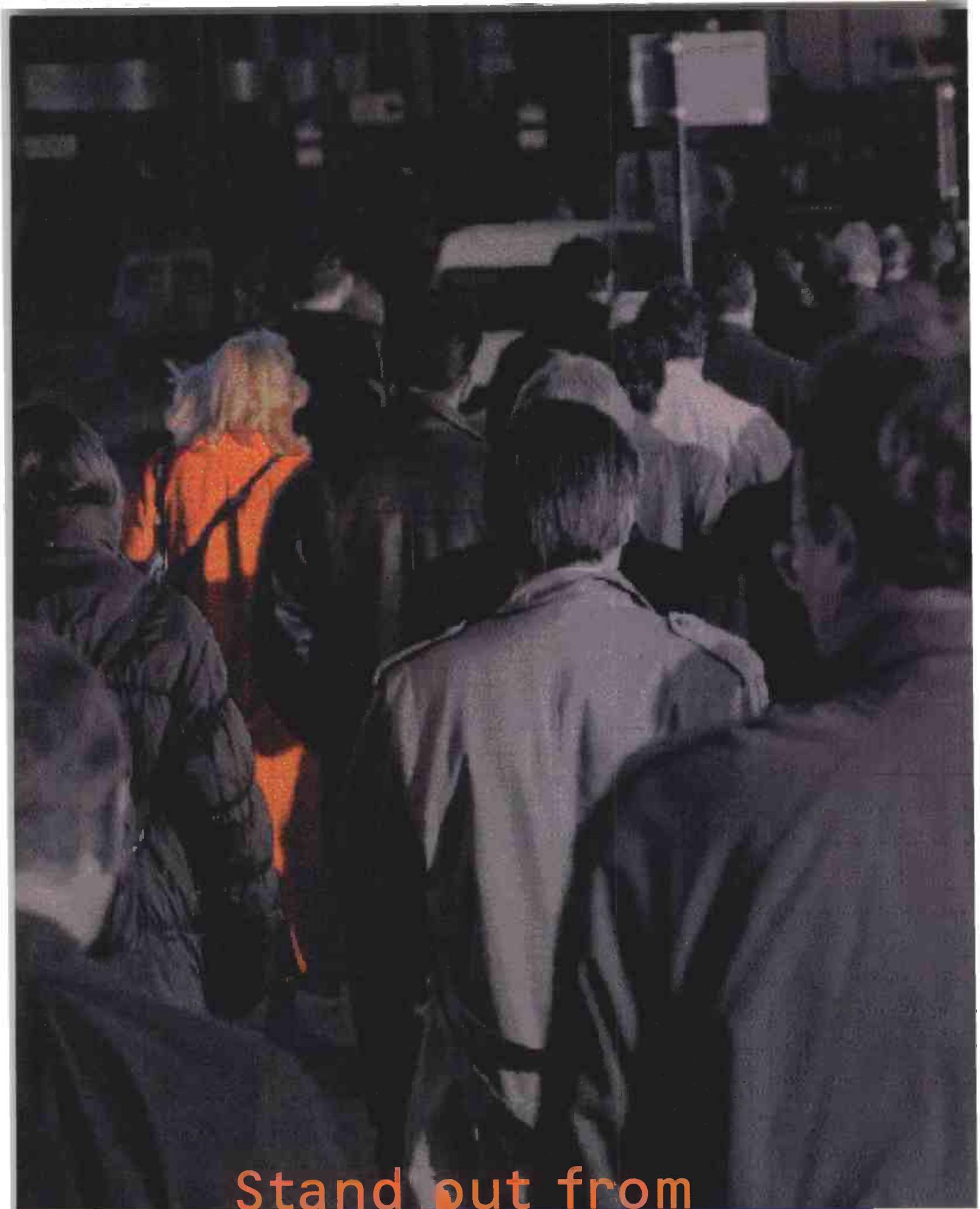
SUSAN PEDERSON

Baby, you're a site for sore eyes

A new web site will prove to be a godsend for new and expecting parents who don't know one end of a baby from the other. Babyworld, the first British-based site for mothers, provides information on all things maternal, from health issues and new product details to on-line breastfeeding demonstrations.

www.babyworld.co.uk





Stand out from

the crowd

See page 261 for details

short stories

BLUE MOUNTAIN DEFEATS MICROSOFT

A small online greeting card company may soon win a legal battle against Microsoft. The US-based Blue Mountain is suing Microsoft over its Internet Explorer email product Outlook Express, which it says filters its greeting cards into a junk mail folder. Blue Mountain says that Microsoft set out to destroy its business, which was a threat to MSN's own greeting card service. The judge ruled that Microsoft must help Blue Mountain adapt its code to prevent the cards from being discarded.

GOING, GOING, GONE

An online auction house is offering internet users a way to clear out their hall cupboards and earn a little cash at the same time. QXL Exchange connects internet users from across Europe to buy and sell everything from appalling Christmas jumpers and Furby's to cars and computers. The main QXL site also offers goods and services from a wide range of companies.

www.qxl.com

INTERACTIVE 3D MOVIES

Internet users can now take a starring role in their own 3D interactive movies with TV characters such as Xena Warrior Princess, Ace Ventura and Superman. Brilliant Digital Entertainment (BDE) has launched a viewer that will let users make the plot decisions during its 'webisodes'. Short movie snippets are available for free on its web site, while full-length movies can be bought over the web or on CD-ROM.

<http://www.bde3d.com/>



MUSIC ON THE NET

Liquid music drowns net pirates



▲ **DAVID BOWIE HAS SUBSTITUTED OUTER SPACE FOR CYBERSPACE WITH THE UK LAUNCH OF HIS VERY OWN ISP, BOWIENET. FOR £10.39 A MONTH, FANS WILL GET INTERNET ACCESS, ONE EMAIL ADDRESS, 20MB OF WEB SPACE AND EXCLUSIVE ACCESS TO BOWIE'S UNRELEASED SONGS AND VIDEOS AS WELL AS CHATROOMS, NEWSGROUPS AND ONLINE GAMING. SOME CRITICS HAVE CALLED IT A VANITY PROJECT, BUT BOWIE IS LAUGHING ALL THE WAY TO THE BANK: BOWIENET HAS BEEN VALUED ON THE STOCK EXCHANGE FOR US\$500 MILLION. WWW.DAVIDBOWIE.CO.UK**

Digital music software company Liquid Audio has teamed up with removable-storage maker Iomega to give consumers a secure way of downloading music from the internet directly onto Zip drives, creating what they claim to be a secure copyright-protected way of distributing music online.

As part of the Initiative, Iomega will bundle the Liquid Music player with select Zip drives. The software allows users to playback music downloaded from the internet, disallowing unauthorised second-generation copying of sound files.

Liquid Audio and Iomega have also partnered with online music retailing site SoundStone.com to create Tunus Collectus, a monthly music club that will allow site visitors to download selected tracks by popular artists. 'Our goal is to continually provide new portability options for consumers to help propel the legitimate sale of music on the internet,'

said Gerry Kearby, Liquid Audio chief executive. Liquid Audio recently signed agreements with Diamond Multimedia Systems and Adaptec to port secure Liquid Audio files to their players. The Recording Industry Association of America is said to be happy with the deal. Heavyweight record labels have been increasingly worried about the ease of music piracy on the internet and the lack, in their eyes, of a secure online distribution solution.

Previously, consumers wanting to purchase music in Liquid Audio format had to provide a credit card number that was bound to each file as part of a password.

Anyone creating an unauthorised copy of a music track was forced to include the credit card number with the copies, which anyone who had the media file could see. Zip disks, however, have their own serial numbers so don't require a credit card based password. Up to 100 minutes of

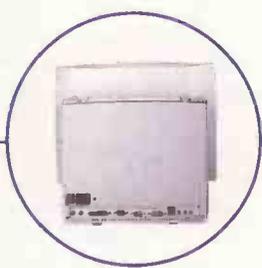
Liquid Audio format can fit on to a Zip disk, the companies claim. Supporters of rival digital music format MP3, however, claim the deal is unimportant as users do not want more security. Unlike Liquid Audio music, MP3 format music files can be reproduced freely.

VNU NEWSWIRE

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AJP

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short stories

MUSIC TO YOUR EARS
Music fans will want to check out dotmusic, the self-proclaimed 'insider's guide to music'. The web site features 50 artist micro-sites which are creating fan communities, as well as a live countdown of each Saturday's singles chart. An online shop is also available.
www.dotmusic.com



LINEONE PRICING DEAL
LineOne has entered the cut-throat bidding war for internet users by cutting its membership charges. It reduced its monthly rate from £14.95 to £9.99 in December. Members get five email addresses and unlimited internet access as well as online newspapers and content.
www.linone.net 0800 111 210

BRITANNICA OFFER
The online version of Encyclopaedia Britannica is positioning itself as an access point for schools information. The site now includes thousands of links which have passed the organisation's criteria for accuracy. Institutional subscriptions cost from £180 a year, or about £30 to individuals.
www.britannica.co.uk



MOBILE LINKS

Green light for Orange trial

Orange has announced plans to trial technology for **accessing internet services using mobile phones**, but analysts said the operator may be painting the future a little too Orange.

Orange is the first UK mobile operator to announce a public trial using Unwired Planet's (UP) server and micro browser technology. Cellnet and Vodaphone are also known to be interested in the technology. Using UP's technology, Orange will be able to offer a range of internet-enabled information services.

Orange's chief executive, Hans Snook, said the trial brings the company one step closer to its vision of the wire-

free future. 'Orange believes that 90 percent of voice and data will be wirefree by 2010,' he added. But analysts said that the data capabilities of wireless networks are always likely to lag behind fixed networks.

'If you look at the progress with wireless technology using data traffic, yes, it can do the job, but it's nothing revolutionary compared to the progress of a fixed network,' said Dirk Bout, an analyst at Dataquest. An operator like Vodaphone is more realistic about the current capabilities of wireless, said Bout. They recognise its shortfalls and don't boast about the future. 'I believe Orange is painting it a bit too rosy,' he said.

The suitability of wireless data depends on the application, thinks Tim Hayson, principal engineer at Orange.

'If you look at the existing use of data, like extremely high bandwidth environments, some of those will have to remain fixed in the short term,' he said.

UP's software uses the WAP (wireless application protocol), a set of standards created by Ericsson, Nokia, Motorola and UP. It includes a programming language that lets web developers create sites suitable for viewing on mobile handsets. Orange says commercial services based on WAP will be launched sometime this year.

VNU NEWSWIRE



Cooking up a treat with SimplyFood

Gastronomes can pick up some hints at SimplyFood, a new web site from Carlton TV dedicated to eating and drinking. The site highlights the latest trends in the world of food, recipes, and a guide to cooking terms and techniques.

Lovers of the grape will appreciate the wine section, which tells you how to tell your Cabernet from your Chablis and gives advice on picking out the perfect bottle for that special occasion.

www.simplyfood.co.uk

Master horror writer Stephen King has launched his own web site to counter masses of bogus ones started. King himself is not a wired guy and has spent years trying to avoid the net. Site visitors can now read a mini-biography of him written in part by his wife, Tabitha; past, present and future book titles, as well as information such as why he became a writer and where he gets his ideas.
www.stephenking.com

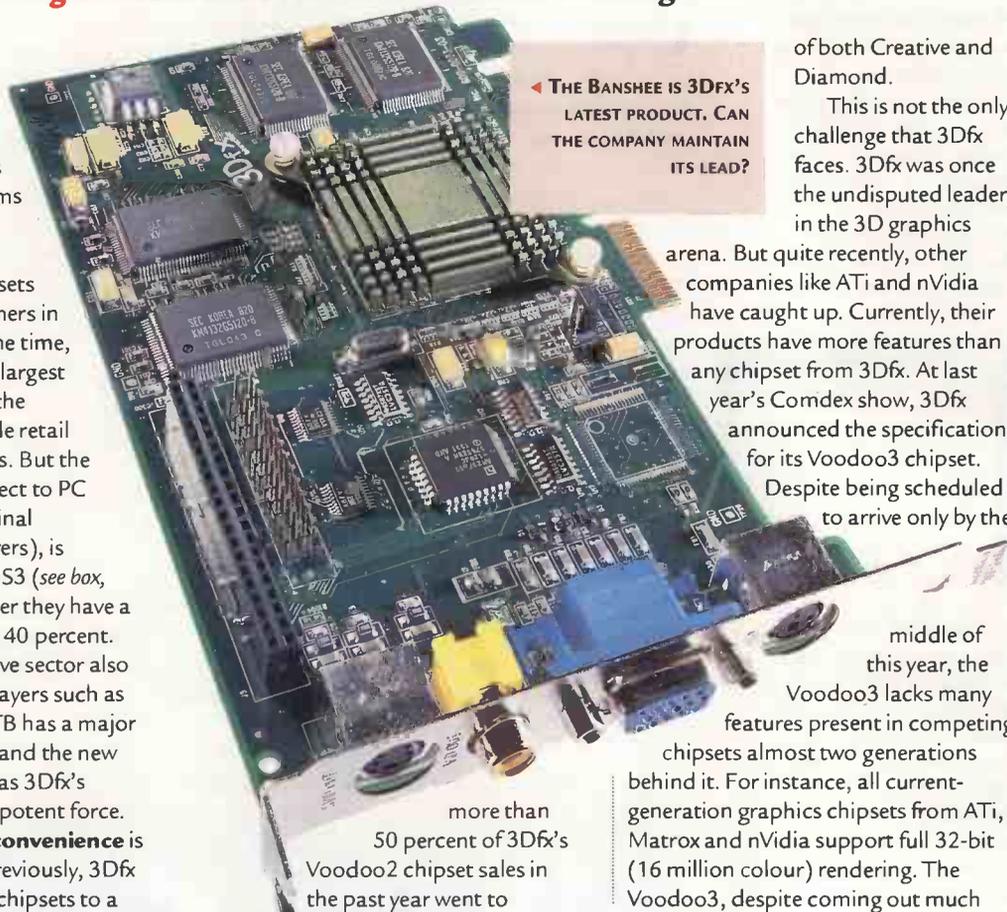
Graphic details

Ajith Ram on **the merger of 3Dfx and STB**. How convenient a marriage is it?

The merger of graphics chipset developer 3Dfx Interactive and graphics board maker STB Systems has taken the market by surprise. 3Dfx's highly successful Voodoo chipsets have been good performers in 3D applications for some time, and the company is the largest supplier of chipsets for the lucrative and high-profile retail market in graphics cards. But the market in cards sold direct to PC makers, or OEMs (Original Equipment Manufacturers), is currently dominated by S3 (see box, below) and ATi — together they have a market share of around 40 percent. This intensely competitive sector also contains other major players such as Matrox and 3DLabs. STB has a major presence in this market and the new merger is seen by many as 3Dfx's attempt to emerge as a potent force.

This marriage of convenience is not without its perils. Previously, 3Dfx depended on selling its chipsets to a large number of board manufacturers, such as STB and Diamond, to survive in an intensely competitive market. The merger changes this scenario completely.

All board manufacturers which once used 3Dfx chipsets will have to look elsewhere. Also, 3Dfx will lose the marketing muscle of some of the industry's leading players. For example,



more than 50 percent of 3Dfx's Voodoo2 chipset sales in the past year went to just two board manufacturers,

Creative Labs and Diamond Multimedia. 3Dfx is now left with the task of recapturing this market in its new incarnation as a board manufacturer. And that is not going to be easy given the strong brand value

of both Creative and Diamond.

This is not the only challenge that 3Dfx faces. 3Dfx was once the undisputed leader in the 3D graphics arena. But quite recently, other companies like ATi and nVidia have caught up. Currently, their products have more features than any chipset from 3Dfx. At last year's Comdex show, 3Dfx announced the specification for its Voodoo3 chipset. Despite being scheduled to arrive only by the

middle of this year, the Voodoo3 lacks many features present in competing chipsets almost two generations behind it. For instance, all current-generation graphics chipsets from ATi, Matrox and nVidia support full 32-bit (16 million colour) rendering. The Voodoo3, despite coming out much

later, will support only 16-bit (16,000 colour) rendering.

This marriage of convenience is not without its perils

Another, similar, problem is lack of a 32-bit Z-buffer. The Z-buffer is used by 3D applications like games to determine what image needs to be displayed after the current one. At high resolutions, a full 32-bit Z-buffer is needed to avoid ugly artefacts on-screen. Unlike its contemporaries, the Voodoo3 will support only a 16-bit Z-buffer.

Chipsets from ATi, Matrox and S3 already boast hardware support for DVD playback but the Voodoo3 will have no such capability. This means that OEM PC systems using Voodoo3 may have to depend on the CPU for DVD playback — and this method is both resource-hungry and unreliable. 3Dfx will be hoping that the merger will help it tide over its current technological inferiority.

S3 could benefit from Intel match

Another company manoeuvring in the graphics field is S3, which recently announced a long-term agreement with Intel. It includes a 10-year cross-licence agreement for all S3 and Intel patents for the development of certain semiconductor products. S3 also announced that Intel is to purchase warrants to buy S3 shares. It had been rumoured that Intel was considering licensing S3 technology for the 64-bit Merced chip. S3 is the second largest supplier of graphics chipsets for ready-installed boards. This deal with Intel is a vital shot in the arm for S3 which has recently suffered financial problems. S3 was one of the first companies to introduce a graphics chipset, called Virge, with 3D capabilities. But this faced heavy criticism for poor performance. The mistake was rectified to a large extent last year with the introduction of the Savage 3D chipset, which has enjoyed better success. The deal with Intel is likely to pay rich dividends in S3's next-generation chipsets based on the Savage 3D architecture.

GAMES NEWS

Turok sequel throws down another gauntlet



▲ **TUROK 2: SEEDS OF EVIL: AND CAN YOU GET MORE EVIL-LOOKING THAN THIS, THE CHALLENGING SEQUEL TO TUROK: DINOSAUR HUNTER?**

The ancient mantle of Turok has been passed on once again, through the generations of the Saquin tribe, Fireseed, to Joshua the next firstborn son. And so the sequel to the game Turok: Dinosaur Hunter has been launched. **Turok 2: Seeds Of Evil** has more than 30 enemies, each with unique strengths and weaknesses. Enemies have fish-eye vision and sound sensitivity like real predators, and highly accurate collision detection allows players to target specific areas of an enemy's body. There are six Quest levels and five multi-player levels covering 30 virtual square miles. Turok 2 is out now, priced £39.99.

Eidos Interactive is releasing a new strategy game called **Warzone 2100**. The world has been destroyed by nuclear warheads following a technical error in a satellite defence system. Less than a million people survived the devastation and the player has to attempt to rebuild a new world from ashes, battling against other bands of survivors for the remnants of a lost

civilisation. Warzone 2100 combines fast arcade action with strategic planning and features realistic terrain effects, real-time combat and cinematic effects. The game will be priced at £39.99.

One of the biggest arcade games in gaming history is due to hit our screens again, in 3D. Activision is introducing the next generation of the most addictive space shoot-em-up arcade game ever. The all new **Asteroids** vows to meld the classic fire-shield-thrust style of gameplay and nostalgic sound effects with vast new hyperspace 3D worlds, explosive effects and loads more enemies and weapons. Watch out for a review in our *Screenplay* section next month.

ETELKA CLARK

Reviews in Screenplay this month (p281): Tomb Raider 3, Tiger Woods 99, Buggy, Close Combat: The Russian Front, Carmageddon 2 and World League Soccer 99.

Top 10 picks Last month

Peripherals

| | | | |
|----|------------------------------|-----------|----|
| 1 | Dynamode 56K PCI Modem | DYNA | - |
| 2 | SONY DSC-F1 Digital Camera | SONY | - |
| 3 | 3COM 56K v90 Voice/FX ext | 3COM | 5 |
| 4 | SoundBlaster Live! Value PCI | Creative | - |
| 5 | SoundBlaster PC128 PCI | Creative | 11 |
| 6 | Sidewinder Freestyle Pro | Microsoft | 18 |
| 7 | SoundBlaster Live PCI | Creative | 14 |
| 8 | P75 to P200MMX | Evergreen | 7 |
| 9 | Umax Astra 1220S Flatbed | Umax | 20 |
| 10 | Sidewinder F/FPRO + UR/AS | Microsoft | - |

Windows software

| | | | |
|----|---------------------------|--------------|----|
| 1 | Free Access Starter Kit | Software w/h | - |
| 2 | Encarta Ref Suite 99 | Microsoft | 3 |
| 3 | Norton AV Suite + 1yr U/G | Symantec | - |
| 4 | Windows 98 U/G CD | Microsoft | 4 |
| 5 | Partition Magic 4.0 U/G | POW | - |
| 6 | Office Pro 97+Books U/G | Microsoft | 5 |
| 7 | Office 97 Stand V/Comp | Microsoft | - |
| 8 | Norton Systemworks V1 | Symantec | 6 |
| 9 | ViaVoice 98 Home Edition | IBM | 19 |
| 10 | Partition Magic 4.0 | POW | 12 |

DOS software

| | | | |
|----|-----------------------------|----------|----|
| 1 | Turbo Pascal v7 DOS | Inprise | 1 |
| 2 | PKZIP for DOS | Pioneer | 4 |
| 3 | Turbo Pascal v7.0 | Inprise | 5 |
| 4 | IBM PC DOS v7.0 | IBM | - |
| 5 | Novell 3.2.5 User | Novell | 10 |
| 6 | Novell NW 3.2.5 User | Novell | - |
| 7 | NetWare v5 server | Novell | - |
| 8 | NetWare 5 U/G server 5USR | Novell | - |
| 9 | DataEase v5.12 | DataEase | - |
| 10 | [Information not available] | | |

CD-ROMs

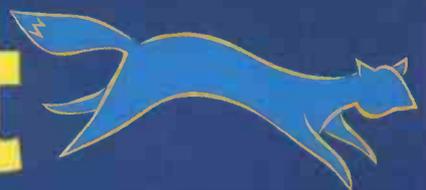
| | | | |
|----|------------------------------|------------|---|
| 1 | South Park Desktop Themes | Telstar | - |
| 2 | Simpsons Virtual Springfield | Fox Int. | - |
| 3 | Star Wars: Behind The Magic | Lucas Arts | 1 |
| 4 | Simpsons Cartoon Studio | Fox Int. | - |
| 5 | Dancing Baby Screensaver | Jellyfish | - |
| 6 | James Bond Ultimate Dossier | Eidos | - |
| 7 | Dancing Baby CD Player | Jellyfish | - |
| 8 | Lego Creator | Lego Media | - |
| 9 | Top Of The Pops Mix Factory | BBC | - |
| 10 | Dance eJay | Fast Trak | 7 |

Games

| | | | |
|----|------------------------------|--------------|---|
| 1 | FIFA '99 | Elect. Arts | - |
| 2 | Tomb Raider 3 | Eidos | 1 |
| 3 | South Park | Acclaim | 3 |
| 4 | Half Life | Sierra | 2 |
| 5 | Worms | [Sold out] | - |
| 6 | Simpsons Virtual Springfield | Fox Int. | 6 |
| 7 | Gangsters | Eidos | - |
| 8 | Sim City 2000: Classic | Electr. Arts | - |
| 9 | Blood 2: The Chosen | | - |
| 10 | Simpsons: Cartoon Studio | Fox Inter. | - |

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

FOXdirect



HARD DRIVES ULTRA DMA 3

| WESTERN DIGITAL | m/s | inc | vat | EX |
|-----------------|--------|------|---------|------|
| AC33200 | 3.1Gb | 10ms | £94.00 | £80 |
| AC24300 | 4.3Gb | 10ms | £99.08 | £85 |
| AC25100 | 5.1Gb | 10ms | £112.80 | £96 |
| AC26400 | 6.4Gb | 10ms | £131.38 | £105 |
| AC38400 | 8.4Gb | 10ms | £156.76 | £125 |
| AC310100 | 10.2Gb | 10ms | £158 | £135 |

| Seagate | m/s | inc | vat | EX |
|-----------|--------|------|---------|------|
| ST33221A | 3.1Gb | 10ms | £79 | £79 |
| ST34342A | 4.3Gb | 10ms | £90 | £90 |
| ST36531A | 6.4Gb | 10ms | £117 | £117 |
| ST6530A | 6.4Gb | 10ms | £135.13 | £115 |
| ST38641A | 8.4Gb | 10ms | £162.15 | £138 |
| ST9140A | 9.1Gb | 12ms | £170.38 | £145 |
| ST310230A | 10.0Gb | 9ms | £170.38 | £145 |

| Quantum | m/s | inc | vat | EX |
|------------|--------|-----|---------|------|
| TS 50600AT | 6.0Gb | 9ms | £99.88 | £85 |
| TS 51200AT | 12.0Gb | 9ms | £158.63 | £135 |
| EX 3200AT | 3.2Gb | 9ms | £108.10 | £92 |
| EX 6400AT | 6.4Gb | 9ms | £104.60 | £92 |
| EX 1020AT | 10.0Gb | 9ms | £109.28 | £93 |
| EX 12000AT | 12.7Gb | 9ms | £170.38 | £145 |

| Maxtor | m/s | inc | vat | EX |
|------------|--------|-----|---------|------|
| DM4320-43 | 4.3Gb | 9ms | £97.53 | £83 |
| DM4320-64 | 6.4Gb | 9ms | £111.63 | £95 |
| DM4320-84 | 8.4Gb | 9ms | £129.25 | £110 |
| DM4320-172 | 17.2Gb | 9ms | £252.63 | £215 |
| DM3400-68 | 6.8Gb | 9ms | £111.63 | £95 |
| DM3400-102 | 10.2Gb | 9ms | £151.58 | £129 |
| DM3400-136 | 13.6Gb | 9ms | £129.38 | £108 |
| DM2500-50 | 5.0Gb | 9ms | £129.25 | £110 |
| DM2500-75 | 7.5Gb | 9ms | £158.63 | £135 |

| | | | | |
|--------------|--------|-----|---------|------|
| DHEA38451-GP | 8.4Gb | 9ms | £152.75 | £130 |
| DHEA31084-XP | 10.1Gb | 9ms | £221.25 | £190 |
| DHEA31284-GP | 12.9Gb | 9ms | £292.58 | £249 |
| DHEA31484-XP | 14.4Gb | 9ms | £292.58 | £279 |
| DHEA31684-GP | 16.0Gb | 9ms | £280.83 | £239 |

its not just price, does your current supplier give you a call collect service on faulty items?

SCSI HARD DRIVES

| WESTERN DIGITAL | Narrow | Wide | LVD |
|-----------------|--------|------------|-----------|
| WDE4360W | 4.3Gb | Enterprise | £235 £235 |
| OE9100 | 9.1Gb | Enterprise | £315 £469 |

| Seagate | Price | Price | Price |
|----------|-------|-----------|----------------|
| ST34520 | 4.5Gb | Medalist | £145 £145 |
| ST34520 | 4.5Gb | Barracuda | £265 £315 £329 |
| ST39173 | 9.1Gb | Barracuda | £325 £325 £385 |
| ST118273 | 18Gb | Barracuda | £631 £631 |
| ST34520 | 4.5Gb | Cheetah | £325 £325 £325 |
| ST39102 | 9.1Gb | Cheetah | £428 £428 |
| ST118202 | 18Gb | Cheetah | £805 £805 |

| Quantum | Price | Price | Price |
|---------|-------|-----------|-----------|
| PX4550S | 4.5Gb | Viking | £165 £165 |
| PX9100S | 9.1Gb | Viking | £285 £285 |
| QM30910 | 9.1Gb | Atlas III | £323 £323 |
| QM31820 | 18Gb | Atlas III | £599 £599 |

| | | | | | |
|---------|-------|-------------|------|------|------|
| 59H6588 | 9.1Gb | UltrastarES | £300 | £331 | £311 |
| 05J7623 | 9.1Gb | UltrastarLP | £324 | £337 | £354 |
| 59H6589 | 18Gb | UltrastarXP | £642 | £642 | £659 |

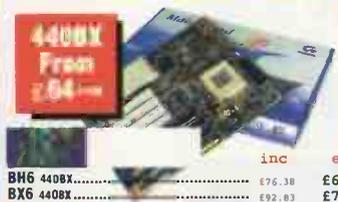
SCSI Hard drive prices exclude VAT

FDD & PD DRIVES

| | | |
|----------------------------------|--------|-------|
| Sony 1.44 | £11.14 | £9.50 |
| Panasonic 1.44Mb | £12.34 | £10.5 |
| Panasonic 1.2Mb | £37.60 | £32 |
| Sony 120Mb Internal Floppy Drive | £57.58 | £49 |
| Sony 120Mb External Floppy Drive | CALL | CALL |

Sales lines open from 9.00am-7pm Mon-Fri 9am-5pm Sat

PENTIUM II MOTHERBOARDS



| ASUS | inc | ex |
|-----------------------------|---------|------|
| P2B 440BX | £123.38 | £105 |
| P2BS 440BX + UW SCSI | £127.13 | £235 |
| P2BLS 440BX + LAN + UW SCSI | £137.25 | £270 |
| P2BD 440BX DUAL | £233.83 | £199 |
| P2BDS 440BX DUAL + UW SCSI | £393.63 | £335 |

| FOX | inc | ex |
|-----------|---------|-----|
| FOX 440LX | £157.58 | £49 |
| FOX 440BX | £175.20 | £64 |

| GIGABYTE | inc | ex |
|-----------------------------------|---------|------|
| GAG686LXDS Dual Processor+UW SCSI | £229.13 | £195 |
| GAG686BA 440BX AT | £122.20 | £104 |
| GAG686XC 440BX | £111.63 | £95 |
| GAG686XE 440BX | £199.88 | £85 |
| GAG686XDS Dual Processor+UW SCSI | £240.88 | £205 |
| GAG686XS 440BX + SCSI | £198.58 | £169 |
| GAG686EX 440EX Micro ATX | £83.43 | £71 |

| intel | inc | ex |
|-----------------------|---------|------|
| Intel SE440BXNA | £104.58 | £89 |
| Intel SE440BXPA + Snd | £128.08 | £109 |
| Intel Malu 440EX | £101.58 | £89 |
| Intel N440BX | CALL | CALL |

| SUPERMICRO | inc | ex |
|---------------------------------|---------|------|
| P6SBA | £92.83 | £79 |
| P6DBE | £217.38 | £185 |
| P6SBS Single Processor +UW SCSI | £264.38 | £225 |
| P6DBS Dual Processor + UW SCSI | £346.63 | £295 |
| P6DGU 440EX Dual SI +UW SCSI | £405.38 | £345 |
| S2DGRD 440EX Dual SII +UW SCSI | £539.33 | £459 |

| DIAMOND | inc | ex |
|---------|-----|------|
| G300 LX | poa | call |
| G400 BX | poa | call |

PENTIUM

| | | |
|----------------------------|--------|-----|
| Asus P5A 100MHz | £81.08 | £69 |
| Asus P5AB 100MHz AT | £69.33 | £59 |
| Asus P5AB 100MHz AT + snd | £76.38 | £65 |
| FOX P100 100MHz ATX | £57.58 | £49 |
| FOX P65 100MHz AT | £45.83 | £39 |
| Gigabyte GA586-AX 100MHz | £69.33 | £59 |
| Tyan Trinity S1590S 100MHz | £76.38 | £65 |
| Chalntech SAGM2 100MHz | £52.88 | £45 |

MODEMS & ISDN ADAPTERS

| 3Com | inc | ex |
|------------------------------|---------|------|
| Sportster 56K Win Internal | £81.08 | £69 |
| Sportster 56K Flash External | £83.43 | £71 |
| Sportster 56K Flash Internal | £99.88 | £85 |
| Sportster 56K Message | £103.40 | £88 |
| Sportster 56K Pro Message | £129.25 | £110 |
| Megahertz 56K PCMCIA | £123.38 | £105 |
| Sportster ISDN TA | £116.33 | £99 |

| DIAMOND | inc | ex |
|---------------------|--------|-----|
| Supra V.90 Internal | £45.83 | £39 |
| Supra V.90 External | £64.63 | £55 |

| FOX Value Range | inc | ex |
|--------------------|--------|-----|
| 56K VFM Internal | £39.95 | £34 |
| 56K VFM External | £97.58 | £49 |
| 128K ISDN Internal | £57.58 | £49 |
| 128K ISDN External | £92.83 | £79 |

MEMORY



| EDO 72 Pin | inc | ex |
|---------------------|---------|------|
| 8Mb EDO 60ns SIMM | £12.93 | £11 |
| 16Mb EDO 60ns SIMM | £27.03 | £23 |
| 32Mb EDO 60ns SIMM | £57.58 | £49 |
| 64Mb EDO 60ns SIMM | £104.58 | £89 |
| 128Mb EDO 60ns SIMM | £182.13 | £155 |

| Fast Page 72 Pin | inc | ex |
|--------------------|---------|------|
| 8Mb FP 60ns SIMM | £12.93 | £11 |
| 16Mb FP 60ns SIMM | £29.38 | £25 |
| 32Mb FP 60ns SIMM | £64.63 | £55 |
| 64Mb FP 60ns SIMM | £128.08 | £109 |
| 128Mb FP 60ns SIMM | CALL | CALL |

| DIMM (EDO) | inc | ex |
|--------------------|---------|------|
| 32Mb FP 60ns DIMM | £38.78 | £33 |
| 64Mb FP 60ns DIMM | £77.58 | £66 |
| 128Mb FP 60ns DIMM | £158.63 | £135 |

| SDRAM | inc | ex |
|-------------|---------|-----|
| 16Mb SDRAM | £16.45 | £14 |
| 32Mb SDRAM | £35.25 | £30 |
| 64Mb SDRAM | £69.33 | £59 |
| 128Mb SDRAM | £136.33 | £99 |

| SDRAM 100MHz | inc | ex |
|--------------|---------|------|
| 32Mb SDRAM | £94.08 | £29 |
| 64Mb SDRAM | £168.15 | £155 |
| 128Mb SDRAM | £335.13 | £118 |

| 30 Pin Simm | inc | ex |
|---------------|-------|----|
| 1Mb 60ns SIMM | £5.98 | £5 |
| 4Mb 60ns SIMM | £9.40 | £8 |

BACKUP UNITS

| iomega | inc | ex |
|--------|------|------|
| ditto | CALL | CALL |
| ditto | CALL | CALL |

| zip | inc | ex |
|-----------------------------|---------|------|
| 2Gb Internal | £72.85 | £62 |
| 10Gb Ditto Max Pro Internal | £339.83 | £119 |
| 10Gb Ditto Max Pro External | £182.13 | £155 |

| | | |
|-------------------------|---------|------|
| 100Mb USB | £104.58 | £89 |
| 100Mb Starter Pack | £111.63 | £95 |
| 100Mb SCSI Internal | £84.60 | £72 |
| 100Mb SCSI External | £84.60 | £72 |
| 250Mb SCSI External | CALL | CALL |
| 100Mb Parallel External | £84.60 | £72 |
| 100Mb IDE Internal | £69.33 | £59 |
| 100Mb Cartridge | £8.23 | £7 |
| 100Mb 6 Pack Cartridge | £41.13 | £35 |
| 100Mb 10 Pack Cartridge | £64.63 | £55 |

| jaz | inc | ex |
|----------------------|---------|------|
| 2Gb SCSI Internal | £276.13 | £235 |
| 2Gb SCSI External | £276.13 | £235 |
| 1Gb 3 Pack Cartridge | £170.38 | £145 |
| 2Gb Cartridge | £92.83 | £79 |
| 2Gb 3 Pack Cartridge | £175.08 | £149 |

| hp HEWLETT PACKARD | inc | ex |
|---|---------|------|
| Travan Backup 8Gb Colorado Internal inc. tape | £186.83 | £159 |
| 8Gb Colorado External inc. tape | £222.08 | £189 |

| DAT Drives | inc | ex |
|----------------|---------|------|
| 2-8Gb Internal | £596.90 | £508 |
| 4-8Gb Internal | £612.14 | £521 |
| 24Gb Internal | £703.83 | £599 |
| 2-8Gb External | £680.33 | £559 |
| 4-8Gb External | £668.58 | £569 |
| 24Gb External | £762.58 | £649 |

| Surestore DAT Drives | inc | ex |
|----------------------|---------|-------|
| 8Gb S881 Internal | £586.33 | £499 |
| 8Gb S888 External | £652.13 | £555 |
| 8Gb S88eu | £668.58 | £569 |
| 24Gb SS24i Internal | £797.83 | £679 |
| 24Gb SS24e External | £880.08 | £749 |
| 24Gb SS24x6 External | £1289.9 | £2459 |
| 40Gb DLT40i Internal | £2331.1 | £1899 |
| 70Gb DLT70e External | £4994.9 | £4251 |
| DLT718 Auto External | £6912.5 | £5883 |

PROCESSORS

| intel | inc | ex |
|---------------------------|---------|------|
| Pentium II 350MHz 512K | £175.08 | £149 |
| Pentium II 400MHz 512K | £299.63 | £255 |
| Pentium II 450MHz 512K | £468.83 | £399 |
| Pentium II 500MHz 512K | CALL | CALL |
| Celeron A SLT 300MHz 128K | £54.05 | £46 |
| Celeron A SLT 333MHz 128K | £69.33 | £59 |
| Celeron A SLT 366MHz 128K | £111.63 | £95 |
| Celeron A SLT 400MHz 128K | £143.35 | £122 |
| Celeron A SKT 300MHz 128K | £54.05 | £46 |
| Celeron A SKT 333MHz 128K | £69.33 | £59 |
| Celeron A SKT 366MHz 128K | £104.58 | £89 |
| Celeron A SKT 400MHz 128K | £132.78 | £113 |
| Pentium Xeon 450MHz | CALL | CALL |

| AMD | inc | ex |
|-----------------|---------|------|
| K6 II 3D 300MHz | £72.85 | £62 |
| K6 II 3D 333MHz | £88.13 | £75 |
| K6 II 3D 350MHz | £92.83 | £79 |
| K6 II 3D 380MHz | £111.63 | £95 |
| K6 II 3D 400MHz | £135.13 | £115 |

GRAPHICS CARDS

| DIAMOND | inc | ex |
|-------------------------------|---------|-----|
| Stealth II G460 8Mb PCI | £52.88 | £45 |
| Viper 550 8Mb PCI | £105.75 | £90 |
| Viper 550 8Mb AGP | £105.75 | £90 |
| Speedstar A50 8Mb AGP | £35.25 | £30 |
| Monster Fusion 16Mb AGP / PCI | £105.75 | £90 |
| Fire GL 1000 Pro 8Mb PCI | £105.75 | £90 |

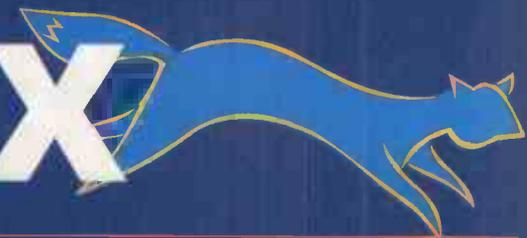
| | | |
|-------------------------|---------|------|
| Productiva G100 8Mb AGP | £47.00 | £40 |
| Millennium G200 8Mb AGP | £94.00 | £80 |
| Millennium G200 8Mb PCI | £94.00 | £80 |
| Mystique G200 8Mb AGP | £94.00 | £80 |
| Marvel 8Mb PCI / AGP | £158.63 | £135 |

| BTC | inc | ex |
|---------------------|--------|-----|
| S3 Trio 2Mb PCI | £14.10 | £12 |
| S3 Trio 4Mb PCI | £19.97 | £17 |
| S3 Verge DX 2Mb PCI | £37.62 | £15 |
| S3 Verge DX 4Mb PCI | £22.32 | £19 |
| S3 Verge DX 8Mb PCI | £22.32 | £19 |

| CREATIVE | inc | ex |
|---------------------|---------|-----|
| Riva TNT 16Mb AGP | £105.75 | £90 |
| 16Mb 3D Banshee PCI | £81.08 | £69 |
| 16Mb 3D Banshee AGP | £81.08 | £69 |

| | | |
|---------------------------------|---------|-----|
| Creative Labs Voodoo II 12Mb | £84.60 | £72 |
| Diamond Monster Voodoo II 12Mb | £98.70 | £84 |
| Orchid Righteous Voodoo II 12Mb | £116.33 | £99 |
| Maxi Gamer Voodoo I 4Mb | £58.75 | £50 |
| Maxi Gamer Phoxes 16Mb | £94 | £80 |

save with the FOX



MONITORS

ViewSonic



| | inc | ex |
|-------------------------|----------|-------|
| Viewsonic 14" E641 | £109.99 | £89 |
| Viewsonic 15" 447XS | £115 | £115 |
| Viewsonic 17" 446XS | £233.83 | £199 |
| Viewsonic 17" 445Xpro | £358.38 | £305 |
| Viewsonic 19" 445Xpro | £493.50 | £420 |
| Viewsonic 20" 445Xpro | £652.13 | £555 |
| Viewsonic 15" VP150 LCD | £898.88 | £765 |
| Viewsonic 15" VP150 LCD | £945.88 | £805 |
| Viewsonic 18" VG180 LCD | £2160.83 | £1839 |

NOKIA

| | | |
|-------------------|---------|------|
| Nokia 17" 4472I | £292.58 | £249 |
| Nokia 17" 447XS | £351.33 | £299 |
| Nokia 19" 446XS | £492.33 | £419 |
| Nokia 21" 445Xpro | £851.88 | £725 |

Iiyama

| | | |
|---------------------------|---------|------|
| Iiyama 15" MF85156 | £146.88 | £125 |
| Iiyama 17" S701GT 400 | £316.08 | £269 |
| Iiyama 17" A701GT Pro 400 | £363.08 | £309 |
| Iiyama 19" A901GT Pro 450 | £527.58 | £449 |
| Iiyama 21" 502 | £821.33 | £699 |

SONY

| | | |
|--------------------|---------|------|
| Sony 15" CDP100ES | £210.33 | £179 |
| Sony 17" CDP200EST | £339.58 | £289 |
| Sony 20" SE II | £927.08 | £789 |
| Sony 21" CDP500PST | £974.08 | £829 |

AXION

| | | |
|----------------|---------|------|
| Axion 14" AX14 | £90.85 | £79 |
| Axion 15" AX15 | £116.33 | £99 |
| Axion 17" AX17 | £193.88 | £159 |

MITSUBISHI

| | | |
|------------------------|---------|------|
| Mitsubishi 15" SCAN 50 | £163.33 | £139 |
| Mitsubishi 17" SCAN 70 | £323.13 | £275 |
| Mitsubishi 19" SCAN 90 | £540.50 | £460 |

PRINTER

HP

| | inc | ex |
|--------------------|----------|-------|
| HP Deskjet 420L | £77.55 | £66 |
| HP Deskjet 695C | £112.80 | £96 |
| HP Deskjet 710C | £148.05 | £126 |
| HP Deskjet 720C | £175.08 | £149 |
| HP Deskjet 880C | £171.55 | £146 |
| HP Deskjet 890C | £218.55 | £186 |
| HP Deskjet 1120C | £334.88 | £285 |
| HP Deskjet 1600CM | £1504.00 | £1280 |
| HP Deskjet 2000C | £528.75 | £450 |
| HP Deskjet 2000CN | £793.13 | £675 |
| HP Deskjet 2500C | £828.38 | £705 |
| HP Deskjet 2500CM | £1057.50 | £900 |
| HP LaserJet 1100 | £272.60 | £232 |
| HP LaserJet 1100A | £334.88 | £285 |
| HP LaserJet 6P | £541.68 | £461 |
| HP LaserJet 6NP | £660.35 | £562 |
| HP LaserJet 4000 | £870.68 | £741 |
| HP LaserJet 4000T | £948.23 | £807 |
| HP LaserJet 4000N | £1105.68 | £941 |
| HP LaserJet 4000TN | £1184.40 | £1008 |
| HP LaserJet 5000 | £1091.58 | £929 |
| HP LaserJet 5000N | £1567.45 | £1334 |
| HP LaserJet 5000GN | £762.58 | £649 |

Epson

| | | |
|----------------------|----------|-------|
| Epson Stylus 440 | £112.80 | £96 |
| Epson Stylus 640 | £156.28 | £133 |
| Epson Stylus 700 | £193.53 | £163 |
| Epson Stylus 740 | £188.00 | £160 |
| Epson Stylus 850 | £243.23 | £207 |
| Epson Stylus EX A3 | £361.90 | £308 |
| Epson Stylus 1520 A3 | £529.93 | £451 |
| Epson Stylus 3000 | £1081.00 | £920 |
| Epson Stylus 5000 | £1864.73 | £1587 |

CD MEDIA

PHI

| | inc | ex |
|--------------------------|---------|------|
| 1 x write once Media | £1.11 | 0.95 |
| 10 x write once Media | £10.57 | £9.5 |
| 100 x write once Media | £105.75 | £90 |
| 1 x re-write once Media | £11.75 | £10 |
| 10 x re-write once Media | £111.62 | £95 |

O.E.M.

| | | |
|-------------------------|--------|------|
| 1 x write once Media | £0.88 | 0.75 |
| 10 x write once Media | £8.22 | £7 |
| 100 x write once Media | £76.37 | £65 |
| 1000 x write once Media | poa | poa |

CDROMS & DVD

40x From £29+vat



GoldStar

| | | |
|----------------------|--------|-----|
| Goldstar 32 Tray IDE | £37.60 | £32 |
| Goldstar 820B DVD | £90.44 | £77 |

FOX Value Range

| | | |
|------------------|--------|-----|
| BTC 32 Speed IDE | £30.55 | £26 |
| BTC 36 Speed IDE | £32.90 | £28 |
| BTC 40 Speed IDE | £34.08 | £29 |
| BTC 44 Speed IDE | £45.83 | £39 |

Panasonic

| | | |
|-------------------------------|---------|------|
| Panasonic 32 Speed IDE | £38.78 | £33 |
| Panasonic 32 Speed SCSI | £64.63 | £55 |
| Panasonic DV120 DVD Ram Drive | £468.83 | £399 |

TOSHIBA

| | | |
|--------------------------|--------|-----|
| Toshiba 36 Speed IDE | £39.95 | £34 |
| Toshiba 32 Speed SCSI | £49.33 | £59 |
| Toshiba SD1002 DVD Drive | £99.88 | £85 |

PIONEER

| | | |
|-----------------------|---------|------|
| Pioneer 36 Speed IDE | £41.33 | £35 |
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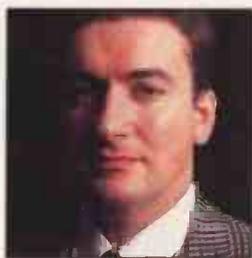


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Michael Hewitt swims against the tide of Psion 5 lovers and demands a better product.

Alarming disappointments



A couple of months ago, I reached the age at which birthday cakes can start to become a fire hazard. The occasion demanded a major, hi-tech purchase. Accordingly, I bought myself a £400 alarm clock. Not intentionally,

though. It's just that, having put it through its paces, I've concluded that the Psion Series 5 isn't much use as anything else.

You're probably wondering how come, if it's so bad, virtually every computer magazine in the land awards it a 'Best Buy' award. I'm wondering that, too. Maybe they've been drinking the same stuff the Series 5 developments team did when they conceived it. There are a number of basic flaws. How are you supposed to use a screen that's virtually illegible, even in the best lighting conditions? And what about proprietary software that isn't compatible with anything but itself? Or a processor that goes through batteries like a sperm whale through krill. (I'll bet shares in Duracell have rocketed over the past 18 months.)

Perhaps the guys at Psion were so busy congratulating themselves on having perfected the Series 5's 'innovative' sliding keyboard, they had to farm out the design of everything else to one of the office temps. Well, enough of that; I'll put it down to experience. The question then is: given the Psion Series 5 most definitely isn't the perfect palmtop, what is? Or, as we're talking hypotheticals here since no-one's come up with it yet, what sort of spec should the perfect palmtop have? Difficult. A wallet-sized palmtop computer is, by its very nature, a compromise. In the same way running a lumber mill using bonsai trees is. So long as you only need to produce the occasional box of matches and a couple of Kleenex a week, no problem. Likewise, so long as the palmtop is only required for minimal note taking and entering occasional stuff like address data, it's up to the job. But you wouldn't want to write *The Decline and Fall of the Roman Empire* on one.

The first essential is a legible screen. If you haven't got one of these, forget it. Legible means having a reflective, metallic backing and being around 5x3in. You have to be able to read it, even in dim light. Forget back-lighting: if it's too dark to read, it's too dark to type.

Legible also means not having a metal-oxide coating, as pen-operated palmtops require. The reflection from these is so bad, they act almost as mirrors. Rather than getting any serious work done, you end up admiring yourself in them or squeezing blackheads. The best palmtop screen I've come across is on the Psion 3c.

Next, the keyboard. The 'laptop style' is right out, I'm afraid. Miracles of miniaturisation they may be, but they also tend to clatter, be unresponsive, and stick. The best palmtop keyboard I've ever used was on the Sharp IQ-9000, circa 1994. It consisted of a QWERTY arrangement of little buttons, generously spaced, that gave a reassuring 'Beep!' when depressed. With a good tail-wind, I could achieve between 30 to 40 wpm. So long as I didn't try achieving them for more than about five minutes in one go.

On to the software. Sorry, but this has to be Windows 95/98 compatible. By compatible, I don't mean files get converted on the fly as they're transferred across to the desktop PC. I want to be able to transfer data to any PC, not just my own, without having to use a collection of proprietary comms software and cables.

So long as the PALMTOP IS ONLY REQUIRED FOR MINIMAL NOTE TAKING AND ENTERING OCCASIONAL STUFF like address data, it's up to the job

Basically, the palmtop should act as the PC's drive D or E. I should be able to transfer and open files seamlessly. Which means having a Windows CE operating system, a cut-down, CE version of programs like Word and Excel, and a universal infra-red interface.

Finally, battery life. I want at least 20 hours from two AA Duracells. Surely that isn't much of a problem, given that the HRT-enhanced Psion 3c, the mx, can achieve it, as can most CE palmtops.

So, have you got that, all you manufacturers out there? At the time of writing, it's early December, 1998, so I won't expect you to have anything ready for me for this Christmas. I shall, however, be more hopeful that you will be better prepared for my next birthday.

Mike.hewitt@mjh1.demon.co.uk

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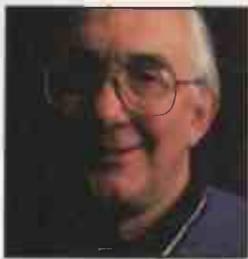


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Say goodbye to email as Barry Fox looks at the **next wave of options** in communications.

The V-Mail of the species



Faxing took off when Britain's postmen went on strike. The Japanese had already developed Group 3 standard machines because telex couldn't carry the pictorial characters of the Japanese alphabet. NEC, Canon, Sharp and the rest

steamed in with ads like 'Our machines never strike'. Joe Public is now learning how much cheaper and more convenient it is to send and receive email with the option to delete, store, forward or reply without printing, and without the need to leave a PC with its fax modem running 24 hours a day.

By early December last year, half a million people got free access via Dixons FreeServe, and apart from the cost of the helpline, no-one has discovered a big catch. Yes, FreeServe disables other ISP connections, but it's ideal for the newbies it was intended for. Though FreeServe offers ISDN dial-up I'm the only one in the half million to try and use the Ignition ISDN terminal adaptor which BT sells for its ISDN lines. Thinking of trying? Forget it. After more tech calls than I care to remember, we now know that although MSN works with either the V120 or PPP protocols, Planet/FreeServe's routers only work with PPP and the Ignition defaults to V120. The Ignition's PPP setting won't work, either. There's a software fix for the Ignition (from a Bulletin Board on 01293 610610) but I've lost interest because CompuServe only works with V120. With FreeServe's free lunch to compete with, CompuServe and AOL must work harder to entice newbies with free trial offers.

➤ **Many thanks to readers** who've told of their CompuServe problem which leaves new subscribers with predictable numbers exposed to phoney 'Account Manager' requests for their password and banking details. This has clearly been going on for a long time and, to my knowledge, CompuServe has taken no action in giving newbies a big red warning. CompuServe's MD, Martin Turner, was still saying nothing until he heard I'd approached his European boss and parent company AOL. Suddenly, CompuServe wants me to know my 'concerns regarding fraud are being treated as a priority'. It's too little, too late, and the

experience has left me with zero confidence in CompuServe, and not much in AOL.

➤ **Microsoft's Hotmail** looks interesting, but setting it up involves an obstacle course of 'What POP' questions. Click the Help link, says the screen. There wasn't one. The next sea change will come with simple and probably free email services from digital terrestrial and satellite receivers. The Sky box has a built-in 28.8K modem and will soon offer a free internet mail address. The On Digital box has only a 14.4K modem but can connect by standard serial port to any external modem. Comdex in Las Vegas saw the launch of V-Mail, a simple \$99 system from Philips to send video messages by email. 'V-Mail will replace email in four or five years,' predicts Hugh Brogan, CEO of Philips PC Peripherals Division. The Philips camera (USB and Windows 98 only) comes with software called Videogram Creator which lets the user click Send to compress the conventional AVI (Video for Windows format file) recording by a factor of 100, so a one-minute sound and video message can be stored on a standard 1.4Mb floppy.

The next sea change will come with SIMPLE AND PROBABLY FREE EMAIL SERVICES from digital terrestrial and satellite receivers

V-Mail bundles matching Player software with the message and packages it as an executable (EXE) file. The recipient clicks on the message, which unpacks itself and plays sound and pictures. The player software works with any version of Windows (3.x, 95, 98, NT or OS/2) and runs on old 486 processors. Even the two American techies demonstrating V-Mail failed to see the systems' cleverness. They were sending their messages in AVI format, with a Readme file to tell the unfortunate recipient how to decode them! But there are still two fatal flaws. A V-Mail takes megabytes to convey a message that could travel as a kilobyte of text. This takes time on-line, overloads the carrier system and soaks up disc space. And who, in these days of viruses, dares click on an EXE file received from an unknown source?

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It's good to talk, but are the phone companies **listening to their customers**, asks Brain Clegg.

Phone improvement



It has been said (by me) that the three things a good manager needs most are creativity, communication skills and knowledge. The same is true of a business, and these are very interesting times for communications. I'm not

talking about the internet, or whizzy new technology to wallop in information down the line at hectic speeds, but a total change in the way telecommunications companies operate, which potentially affects every serious PC user. Since time immemorial, unless you live in Hull, British Telecom (aka the Post Office) was the only name you needed to know. A few years ago, the position began to alter. Mercury entered the scene. Cable companies made offers you couldn't refuse. Mobile telephones stopped being a small briefcase with a handset attached and started to be practical. Yet this is chicken-feed to what is on the way. Because BT, like the gas and electricity suppliers, has been forced to allow others to use its physical connections end to end. Take two hopefuls from either side of the business spectrum:

Free Telecom, and Cable and Wireless.

Free Telecom has a cracking idea. What do people complain about when comparing BT with US telephone companies? Often it's the lack of free local calls. Free Telecom offers free country-wide calls. There has to be a catch? Well, yes and no. Your calls are paid for by advertising. At the time of writing, this could be anything from a shortish ad every few minutes to an interactive questionnaire up front, then maybe half an hour's free chat. Will it work? I really don't know until I try it. But it's a brilliant concept that couldn't have emerged without the freeing up of the telephone network. You can find out more at www.freetelecom.com.

The communications giant Cable and Wireless has also found a crack in BT's armour. Going to an alternative provider used to involve new contracts, dialling special numbers and generally making a simple service difficult to get into and even harder to get out of. Cable and Wireless is marketing a box that you put between your phone and the wall. When it is plugged in, your calls go via Cable and Wireless; when it isn't, they go via BT — simple as that. You pay a small quarterly

rental for the box, but this is accompanied by several hours of free local calls and discounts on longer-range dialling. It's the ease of stopping and starting that makes the Cable and Wireless deal so attractive. See www.business-made-simpler.co.uk for more details.

So how is BT reacting to this real competition? A couple of weeks ago, I would have said 'badly'. I work from home, with two lines into the house, one for business, one for domestic use. I never got a very good connection speed on my modem, which I put down to my rural location, but eventually it sunk in that BT hadn't provided me with two lines at all. They used a splitter box (a DACS to its friends) to shove two channels down a single wire. Result — degraded electronic communications. I rang up my friendly BT customer service person. 'That's right,' she said, 'we don't recommend using a DACS for computer connection.' I pointed out that I didn't ask for a DACS. 'We have no obligation to provide anything more than a voice service,' she said. 'If they put a DACS in, it was because there was no alternative.' In effect, if it doesn't work, tough. Then, to add insult to injury, she

I never got a very good connection speed on my modem, which I put down to my rural location, but eventually it sunk in that BT HADN'T PROVIDED ME WITH TWO LINES at all

tried to sell me Business Highway instead.

If that had been the end of the story, I would conclude that BT hadn't got a clue about customer service and was ripe for the picking. However, there was a happy ending. A week later, an engineer turned up unannounced. 'I'm here to switch you over to two lines,' he said, proving that the DACS hadn't been installed as there was no alternative, as I had been told. The DACS disappeared, my modem speed nearly doubled and BT sailed back into my good books. I'm not saying BT won't lose custom: obviously it will when faced with competition that includes cheaper or even free calls. But making such responsiveness commonplace would give the newcomers a real run for their money.

Brian@cul.co.uk

What would you think of a product that keeps PC users productive and optimises your IT budget ?


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(*) Source: Contingency Planning

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Web hosts are **not as welcoming** as the party variety, finds Paul Smith and his roaming site.

Mine host



This month, I've been mostly changing web hosts. I have gone through half a dozen since I was rumbled by my previous host, but have finally, I hope, found a new home. It turns out that choosing a host, or at least a goodly host, is not

as simple as originally expected. And it all started with a bit of churlishness on the part of a previous employer, unwilling to host my site on the grounds that my connection with them had been severed.

I used to work on a computer magazine, which august title no longer exists. While there, I bought myself a vanity domain name, in the full expectation that this would be a cool thing to do, and that adoring but savvy young women would throw themselves at me solely on the basis that I had a domain name. I would be able to brush them aside imperiously, hardly affording them a glance, thereby earning the adoration of both wifely Del and Edward (who is particularly sensitive to these sorts of things, especially for a cat). As it happens, nubility brings its own sort of imperiousness, and the throngs have yet to show much in the way of adoration. But, anyway... Working for this company, I was able to persuade the IT department that their servers would be a good place to host my site. It wouldn't be a big site, it might not even be that active (how much bandwidth, I mused, would a few hundred thousand hits a week take up?). But it would be of great value and significance.

Actually, www.paulsmith.com took up so little in the way of bandwidth that it was over a year after I left before they noticed that my site was still taking up a small corner of one of their corporate servers. A polite, restrained email notified me that I might want to find my own server now and thus the chase was on. I call it a chase. What actually transpired was this: they sent me the notification... and, um, that was it. The site just died through sloth. I don't know what the opposite of 'webmaster' is, but I was it. Then I got an email from a reader saying something about how wonderful the column is — you know how they do — and wanting to know who hosted my web site. Funny question, but in the circumstances, intriguing. Looking at his email address, I noticed that his host was his surname

appended with 'net.com'. I was more intrigued now. Of course I replied to the gentleman. I do with all my readers' email, although the order in which I reply is determined by a complex pattern of heuristics that involves those emails containing the phrase 'I love your column', Soundex-parsed and moved up the list, while those which contain 'Your column sucks' take a bit longer to get to.

Anyway, I explained my position and the guy told me he is actually a young web host. Ah, I think: not long in business, keen, eager. No, he corrects me; and here he makes his crucial marketing flaw: young, as in only fifteen years old. Gulp! Can I trust my site to someone still in school? Or am I being ageist? Finally, I decided that anyone who has to ask his mum's permission to stay up for Seinfeld ('I *know* it's a school night') really has better things to do than look after my site. I've been doing some work for Carlton Online and they kindly offered to host the thing for me. Perfect, I thought, until it transpired that the otherwise really laid-back IT manager wouldn't give me ftp access to the server. I would have to email him the files and he'd upload

I bought myself a vanity domain name, in the full expectation that this would be a cool thing to do, and that **ADORING BUT SAVVY YOUNG WOMEN would throw themselves at me**

them as and when he got round to it. The kid was starting to look good again. But I've gone back to Virtual Internet <www.vi.net>, a company I've used for clients before. I immediately got a horrible page up there, just something to get an email link. Then I was knocked back: another email, this time about what a waste of space the site was and how very disappointed the reader was. 'But nice column, by the way.' So I replied, quickly, by fixing up the site, quoting his email and linking to his, frankly, lesser site. VI has my site running smoothly now, with FrontPage Extensions which means there's a cool little search page and a feedback page. But those who decide to feedback, please note: heuristics still apply.

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SPACED OUT

Was it your intention to print an upside-down photograph of a UFO on January's page 42 (directly under the 'Rival Drives' panel)? Strangely reminiscent of those early 60's photographs of (actual) UFOs. Could this be a sign?

IAN PHILLIPS I_Phillips@compuserve.com

PCW replies > Yes. Surely alien technology will be behind the successor to the floppy-disk drive. The media is out there.

LETTER OF THE MONTH

Parent power in IT

I expect most teachers will disagree, but if you really want to see the movers and shakers in the world of ICT and education, then do not visit a school. Instead, take a stroll into any of the High Street computer retailers and watch a parent make a purchase. They recognise that a computer is fast becoming a must-

Gordon Laing replies > *Letters concerning IT and Education are rarely missing from these pages for good reason. The education sector apparently continues to inadequately train or prepare students for jobs in IT, or even those requiring basic PC skills - take James Hanington's letter for a pupil's point of view. Jim Fanning makes an interesting point above, with well-informed parents perhaps driving changes for the better, at least in the short term. We'd be interested to hear from readers with their experiences concerning IT and Education.*

have; they are increasingly aware of IT jargon and pay greater attention to what software is appropriate to which National Curriculum level. It is a customer base that will find little in the way of leadership from the education sector because the latter lacks the material resources and technical know-how. It is a customer base that more and more possesses a level of knowledge and equipment that is unavailable in many schools. And this is where the real revolution in ICT and education begins: parents will look elsewhere or create their own solutions, and in the process change the whole parent/school pupil/teacher relationship that is the present basis of our education system.

JIM FANNING, DIRECTOR OF SIXTH FORM STUDIES, TIDEWAY SCHOOL
JFann16463@aol.com

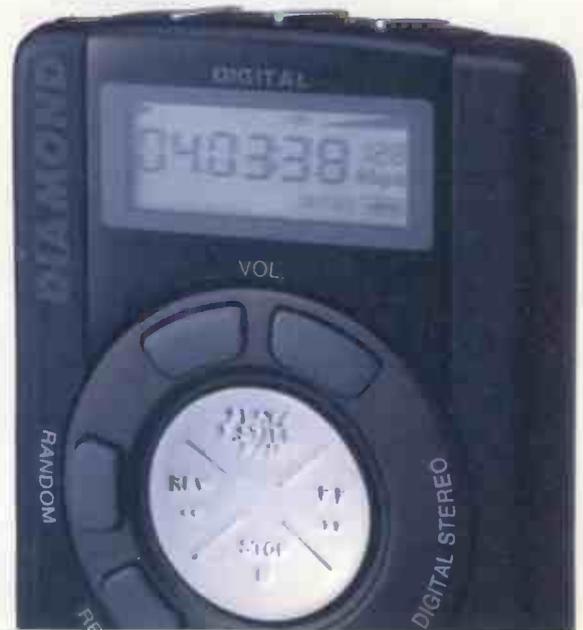
MP3 HITS THE RIGHT NOTE

For the greatest revolution in internet and computer music since, well, nothing else, the MP3 format gets relatively little attention in computer magazines. I'm in a band, and use the MP3 format to distribute my music. The vast majority of magazines portray MP3s as evil and illegal. If, like me, you produce your own music, then you can make MP3s and distribute them on the web without any legal problems. You only have to go to www.mp3.com to see the vast array of free, legal MP3 music on the net, with even well known bands such as the Beastie Boys distributing some of their music in this fashion.

PAUL LOWRIE plowrie@softhome.net

PCW replies > *We're not enemies*

of MP3 at PCW. On the contrary, while it poses questions in terms of copyright and protection (the same as any other recording device), we welcome it as an encouragement to develop solid state portable stereos such as the Diamond Rio. With no moving parts to break or drain batteries, solid state music (or indeed video) recording and playback devices are surely the future.





IN PRAISE OF THE BBC MICRO

I thought I'd pick up on the BBC Micro theme started by Brian Clegg in *PCW* January 1999 [Business Matters]. I think the BBC was a good, simple introduction to computers for most children at the time. I was 13 when I first met the BBC Micro and through it gained invaluable experience of a language (BBC Basic) which even now shares much commonality with things like Visual Basic. My first PC, an Amstrad luggable, was by no means as approachable. GW Basic was about all that was available (I wound up using Pascal) but it was an uphill struggle to do things which on the BBC were easy — graphics, sound, talking to the hardware.

I now operate a VB consultancy and find it rather telling that most of the VB and similar contractors that I meet, had their first encounter with computers and programming on the BBC.

In the light of this I feel the Government made the right choice. Personal computers have evolved into a suitable contender but at the time were pretty hopeless.

SIMON RAFFERTY bigsi@cix.compulink.co.uk

I rather feel that Brian Clegg has missed the point with his comments about the BBC Micro [*PCW* Jan '99]. I must take issue with his comment that business 'got it right' by adopting Microsoft PC technology. Certainly business adopted MS in large numbers, enabling it to achieve the critical mass to become the dominant operating system. The reasons for this are complex, and are based on more than just the technology. But was this the right direction? We now appear to take it for granted that computers will crash three times a day, and troubleshooting advice has become an industry in its own right. But the BBC was a stable platform that rarely crashed, was easier to sort out if it did go wrong, and was more efficient in its use of memory (my Archimedes has just 4Mb of RAM and a 20Mb hard disk — hardly enough for a PC to boot up). I believe that future historians will see the past couple of decades as a blind alley in computing terms, when the development of PCs was actually held up because of the commercial dominance of one of the less effective operating systems. It is as if Henry Ford had chosen steam power rather than the internal combustion engine, and the rest of the automotive industry had followed suit. We are only now starting to move into an era when more efficient systems may come to the fore.

HOWARD JONES howard@hjcj.globalnet.co.uk

THE BIG CHILL

What is Michael Hewitt on? [Sounding Off, *PCW* Feb '99.] It's all very well having a fridge that tells you not to eat something (probably 'cause it fancies it itself a bit later). But you still have to purchase the food to put in it. If you really can't manage to smell whether something's still edible or not, you're probably not up to buying perishables anyway. He got a whole page for what he must think is food for thought: he needs to chill out!

JOHN BOSLEY JBosley4@aol.com

SENIOR SERVICE: CALL FOR AN IMPROVEMENT IN MOBILE COMMS

Sorry, Graham Dean (re: 'OAPCs', Letters, *PCW* Jan '99), but I think you've misunderstood grandma. I'm sure she does not want the family's cast-offs, be they computers or anything else. Nor is grandma the only technophobe about. Let's get our machetes out to all the hype and advertising on the net, find out what real information real people need, and design attractive, user-friendly, not too expensive portable comms. Improve the interface and communications on current handhelds, add a homing device in case grandma gets lost, and yes please, Santa, I'll have one in my stocking next Christmas. As for Senior Net, who the blazes among the over 60's wants to join in a discussion on 'Options for the end of life'? Not this OAP, that's for sure!

MOLLIE PULLAN
mollie@kwaheri.u-net.com

CHAOS THEORY

I am struck by the number of people who seem to be against Microsoft's dominance of the market in operating systems, while no-one seems to have thought about the positive aspects of it. While Windows is extremely inefficient, it is a standard operating system that programmers know 99.9% of users will have. This means they can write a program without having to go through the extra expense of ensuring that it is compatible with all of the operating systems on the market. Although Windows may seem inefficient and dated, it has at least spared us from the chaos that would result from several different and exclusive operating systems.

AARON GRAHAM
AaronBenj@aol.com

PCW replies > Unfortunately the widespread use of Windows has not spared the world's users from the vast array of possible PC hardware combinations, which results in its own brand of chaos.

IT TEACHING IN A STATE

I am 12 years of age and go to a state secondary college. We have pretty good IT facilities but only one very basic lesson a week. In such a computer-orientated world, state-taught children will be inadequately prepared for the first moment they try to do accounts on a spreadsheet or keep client information up to date. Such pupils are forced to wait until higher education for PC experience, where they will have to compete with the better taught students of public schools, and will be dragged behind and be discriminated against, and why? Because the state schools aren't funded sufficiently to train the teachers, and the curriculum is not tight enough to make a subject that will be as common as English in the workplace as common in schools.

JAMES HANINGTON

jim@hanington86.freemove.co.uk

Gordon Laing replies > *This is a thorny subject. I felt frustrated by the inadequacy of the computer training at my school, and continued to be disappointed even while attending university. Instead, people like myself tended to join clubs, befriend staff at other departments, or hang around relevant showrooms for their PC experience. Most people know someone somewhere who has a PC and doesn't mind giving them the tour. Not an ideal situation I admit, but enthusiasm and resourcefulness normally wins through — my long-term subscription to PCW while growing up also proved invaluable!*



▲ THE FSN 3D FILE SYSTEM NAVIGATOR AS SEEN IN JURASSIC PARK (ONLY WORKS ON IRIX V5.3 AND BELOW)

IT'S A WRAP: JURASSIC PARK AND THE SGI SET

I've just finished reading the ChipChat column in your magazine [PCW, Feb '99] and I have to say that I am very disappointed with the rants of Mr Bugbear. True, the entertainment industry has a rather peculiar perception of computers, often verging upon the absurd, but that's part of the fun, surely. However, that does not excuse sloppy journalism. Mr Bugbear was having a go at the girl in *Jurassic Park* who sits down in front of a computer near the end and proclaims that it's running Unix. He seems to be under the impression that it's just a couple of Apple

Macs, and he is mistaken. In fact, nearly every single computer used in *Jurassic Park*, both on and off set, is a Silicon Graphics workstation. The machines you see on set are pre-production prototypes of the Indy workstation (also seen later in *Junior* and other films). They don't have the distinctive turquoise case simply because, at the time, they were prototypes. The 'amazing 3D interface' is called FuSioN (File System Navigator) and is available from <ftp://ftp.sgi.com/cgi/fsn>. It's actually jolly nice, if a little impractical for everyday use. Sadly, it only runs on Silicon Graphics hardware (no source code), but I used to use it quite a lot at demos, back when I worked with SGI equipment. Still, not to worry. Apparently they use illegal IP addresses in that film which stars Sandra Bullock as a super-hacker on the run...

MALCOLM CROWE

malk@bruhaha.demon.co.uk

Ivor Bugbear replies > *Yes, there were SGI machines present in Jurassic Park's control centre, but there is an unmistakable Mac Quadra 700 taking what looks like a prominent role in the proceedings. By the way, thanks for shopping Sandra Bullock — I'll be having a word with her later.*

STRAIGHT TO VIDEO

I am looking for information on how to transfer a slide presentation — for example, by PowerPoint — to a standard videocassette recorder. I do some work for a local charity and I sometimes have to video events for them. I need to be able to put titles on the video and I want to use my PC to prepare them before transferring them to the video. I have no means at the moment for connecting the VCR to my PC, so I need some advice on the necessary hardware and software to do this. Any help that you could give would be welcome.

JOHN GRAHAM

John@44sm.freemove.co.uk

PCW replies > *A dedicated video capture card would offer input and output connections to your VCR, allowing editing and subtitling of existing videotaped footage. However, if you only want to record PowerPoint slide presentations on to tape, then you'll only need a video output and could use this as an opportunity to upgrade your graphics card. There are plenty around today that boast composite video outputs as standard which can be connected directly to your VCR. When videotaping a PC signal, it's best to set your display resolution to 640 x 480 pixels, since this is the maximum a TV can handle. Once connected, start your VCR recording and simply instruct PowerPoint to display the slides one by one with a suitable gap in-between.*

TAKING THE EURINE

What is one-hundredth of a euro? I don't like to be considered as one of those statistics the media keep throwing about that say 96% of respondents didn't know where France was or whatever. The answer has probably been kept quiet either because they don't know or, more probably, it is even more ridiculous and unwieldy to say than 'euro'. My suggestion? Well, one-hundredth of a euro should be called a 'eurine'.

JIGGERY-POKERY

jiggery-pokery@purplenet.co.uk

PCW replies > *Not to spoil the fun, but we believe it's known as a cent, so at least visiting Americans will feel at home.*



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| Epro 400 £849 | £1019.90 | £32.57* |
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*Monthly payments illustrated are over 36 Months 17.9%APR. 10% deposit required. Other finance options with 0% Buy Now-Pay August 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 option after

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"...breathtaking"

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

NEXUS 350



The Nexus range is based on a coupling of powerful 100MHz Pentium II processor system architecture and generous 128Mb RAM for truly outstanding performance. The Nexus comes 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.

£949

- Intel Pentium® II Processor 350MHz
- 512k internal cache
- Intel® 440BX AGP set
- 128Mb SDRAM, expandable to 768Mb
- 10Gb Ultra DMA hard drive
- ATI® Xpert 98™ 8Mb 3D AGP graphics with DVD-video decoding
- 17" 0.28 SVGA colour monitor
- Third Generation DVD drive
- 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**

| | | | |
|------------------|-------------|---------------|-----------|
| Nexus 350 | £949 | Inc VAT & Del | Per Month |
| | | £1137.40 | £36.32* |

Spec as Nexus 350 with Intel Pentium® II Processor 400MHz & LS-120Mb Superdisk drive.

| | | | |
|------------------|--------------|----------|---------|
| Nexus 400 | £1099 | £1313.65 | £41.95* |
|------------------|--------------|----------|---------|

Spec as Nexus 400 with Intel Pentium® II Processor 450MHz & Matrox Millennium G200 16Mb AGP graphics.

| | | | |
|------------------|--------------|----------|---------|
| Nexus 450 | £1199 | £1431.15 | £45.70* |
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PROTEUS 400



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.

£1199

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- 128Mb SDRAM, expandable to 768Mb
- 13Gb Ultra DMA hard drive
- Matrox Millennium G200 16MB AGP graphics with DVD-Video decoding
- 17" 0.28 SVGA colour monitor
- Third Generation DVD drive
- 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**

| | | | |
|--------------------|--------------|---------------|-----------|
| Proteus 400 | £1199 | Inc VAT & Del | Per Month |
| | | £1431.15 | £45.70* |

Spec as Proteus 400 with Intel Pentium® II Processor 450MHz, HP 8100i CD re-writer drive & 19" 0.26 SVGA colour monitor.

| | | | |
|--------------------------------|--------------|----------|---------|
| Proteus 450_R | £1599 | £1901.15 | £60.71* |
|--------------------------------|--------------|----------|---------|

Spec as Proteus 450_R but with high performance 9.1Gb SCSI LVD hard drive (80Mb/sec) and SCSI2 CD re-writer drive.

| | | | |
|----------------------------------|--------------|----------|---------|
| Proteus 450_{LVD} | £1999 | £2371.15 | £75.72* |
|----------------------------------|--------------|----------|---------|

SOFTWARE

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,
IBM Viavoice continuous dictation software,
IBM Antivirus 3.
30 day free unlimited internet access account.

Bundle Two

as **Bundle One** plus:
AGP enhanced software bundle:
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Tonic Trouble, O-Zone,
Beyond the Third Dimension,
F22 Air Dominance Fighter.

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

Warranty

Atlantic PC systems are covered by a 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.



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▶ Type and Go

Graffiti, the handwriting recognition method employed by the PalmPilot family of handhelds, is great. But let's face it, if you have a lot of info to enter into your little green buddy, it's going to take a long time if you have to scribble it in with a stubby stylus. Enter the GoType! keyboard, probably the fastest way to enter information into your Palm organiser. Simply drop your organiser into the GoType's cradle and it connects directly with the docking port. Without the need for either cables or batteries, it's ready for you to start typing right away.

Price £79.99 (£68.08 ex VAT)

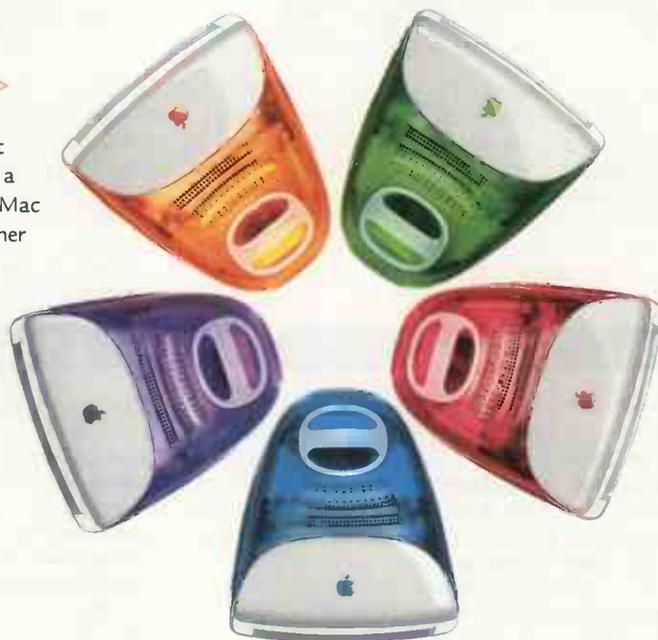
Contact Widget Software 01438 818818
www.widget.co.uk

Tangerine dream ▶

Blueberry, strawberry, tangerine, grape and lime — no, not the contents of a fruit basket or the flavours of muffins in a five-pack, but the new colour schemes for the expanded iMac range, proving that computers really can fit into any corner of the home. The Apple web site claims that it 'comes complete with everything you need' but it still seems to be lacking a floppy drive, which many claim to be an essential piece of kit. The new iMacs feature a faster 266MHz PowerPC G3 processor, a 6Gb hard drive and a lower estimated retail price.

Price £1,398.25 (£799 ex VAT)

Contact Apple Information Centre
0870 600 6010 www.apple.com



▶ Silicon implant

This brand-new workstation from Silicon Graphics runs Windows NT on Intel chips and will look great in any office or, if the budget allows, home. With around a gigabyte of graphics memory, this workstation is

great for the animators and 3D modellers out there, while the flat-panel monitor ensures that its sleek good looks will not be spoiled.

Price £2,749.50 (£2,340 ex VAT)

Contact Market Point
07000 320540 www.sgi.com

What money can't buy

This is one of the best gadgets we've seen in a long time. The QuickSound plugs into your PC's serial port and controls your CD and other audio sources. Bass, treble and mixer controls are presented on one keyboard-mountable unit that allows you to save five mixer presets for instant access. Only problem is, it's not available in the UK. **Contact** Labtec 01252 629900

www.labtec.com



True blue cool

If you thought USB was boring, you haven't seen this new translucent ice blue Zip drive from Iomega.

Best of all, it connects to your PC or iMac via the USB port, giving the new hub a more business-orientated purpose than simply a joystick or set of speakers. It reads from and writes to standard 100Mb Zip disks, and Iomega claims that it can attain data transfer speeds of 60Mb per minute, which is around 20 times the speed of a standard floppy.

Price £119 (£101.28 ex VAT)

Contact Iomega 0800 973194
www.iomega.co.uk



Sporty spice

Be afraid — be very afraid. When you try out the FoneWatch Sports you'll realise just how much radiation your cellular phone is pumping out. On the bright side, though, this is a great gadget for saving you the embarrassment of having a thousand briefcases thrown in your direction when your mobile rings on the train home. Turn off the ringer, and your sporty new watch will detect the incoming signal (or anyone else's, for that matter) and flashing lights around the bezel indicate the call.

Price £34.95

Contact Fone Range 0181 838 8888
www.fonerange.com



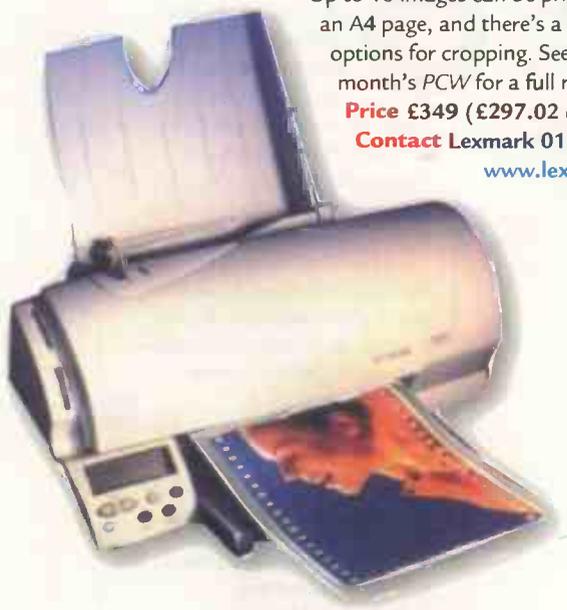
Lexmark Photo Jetprinter 5770

The Lexmark Photo Jetprinter 5770 can print photos direct from Zip disk, smart media or compact flash cards without the intervention of a PC. A maximum resolution of 1200 x 1200 dpi promises crisp text and well-defined images.

Up to 16 images can be printed on an A4 page, and there's a range of options for cropping. See next month's PCW for a full review.

Price £349 (£297.02 ex VAT)

Contact Lexmark 01628 481500
www.lexmark.co.uk



Drag and dial

Transform your mobile phone into an electronic address book by transferring information from Outlook, Outlook Express, Symantec Act or Lotus Organiser to your SIM. A laborious job? Not if you use FoneSync, a device that allows you to drag and drop contact information straight onto the SIM (subscriber identity module) using the supplied docking station.

Price £58.74 (£49.99 ex VAT) **Contact Paragon Software 0800 783 8574**
www.paragonsoftware.com



reviews

Lots of exciting products have arrived just in time for this month's *Reviews*. We headline two new **400MHZ CHIPS**, one from AMD and the other from Intel, giving users the chance to grab some serious power without breaking the bank. And, we take a second look at Microsoft's next office suite, **OFFICE 2000**, as beta 2 hits the streets. And what's this? Another new operating system! Version 4 of **BEOS** is now ready. We lift the lid of this powerful OS to see why you might choose to install it instead of, or alongside, Windows. We get a first glimpse of Sony's



new **200MB HiFD DRIVE** and those who want something for nothing will be eager to turn to our review of **WORDPERFECT 8**. In a radical move that gives further credence to Linux, Corel has made its renowned word processor compatible with the platform and put it on the net for free download. We probe the workings of Hewlett-Packard's latest arrival, the **DESKJET 2500C**, and see if three goes into one with the **BROTHER** MFC Pro 700C multifunction device. In



HEAD TO HEAD, we pit a spreadsheet against Microsoft Money. Which is best for sorting out your budget?

NIK RAWLINSON, REVIEWS EDITOR
 NIK_RAWLINSON@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 both Windows 95 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

Big Red Voyager Discovery K400

This top-rate system using the latest fast K6-2 chip from AMD is pure pleasure.

Those interested in non-Intel machines will be happy to learn that AMD has kept to its planned release of CPUs with a K6-2 clocking in at 400MHz and yapping at the heels of Intel's current 450MHz. The gap between the two is decreasing and with future AMD releases still planned to shoot processing speeds through the roof, the contest is hotting up.

Big Red supplied this showcase chip built in to a Voyager Discovery K400, a squat, chubby number which gives the impression that an extra 2in slice has been added to allow more space within the casing. This is possibly to accommodate air-flows required to top off the excessive heat that the K6-2 is reputed to pump out. But we found that the Pentium-class heat sink and fan arrangement minimised this need and that the majority of the heat generated was actually coming from the hard disk.

To support the CPU's impressive clock, Big Red has included a stonking 128Mb system memory on just one DIMM, leaving another two slots available for upgrading — impressive. A bonus was double the normal amount of Level 2 cache. We were disappointed that this 1Mb, favoured by the Super7 mainboard manufacturers, did not pay off in the form of drastic performance increases. Graphics are handled by the AGP version of the 3D Blaster Banshee from Creative Labs [PCW, Feb '99].

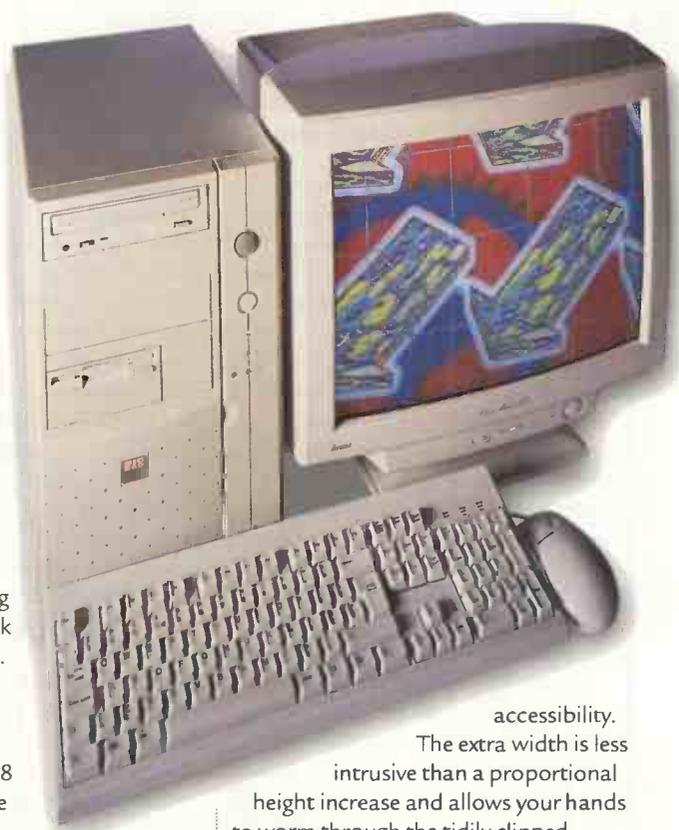
Basic 2D/3D functions are catered for by an impressive 16Mb SGRAM on-board with a super-fast 250MHz RAMDAC and, for the gamer, an onboard 3Dfx chipset. For your viewing pleasure, a Hitachi DVD is coupled with a Creative Labs decoder card for assisted movie playback using the bundled Encore DVD Player software. Checking out this combo revealed some configuration problems, but to be fair,

Big Red's normal three-day quality testing was cut back to one day by our copy deadline and the company assured us that the problems would be rectified for its customers.

Users will not feel let down by storage as there is a comfortable 8.4Gb IBM EIDE hard disk with platters spinning at 5,400rpm and seek times of up to 9.5ms. The rewards also extend to your ears with Creative Labs' PCI SoundBlaster 128 pumping through the TEAC 1000 Dolby digital surround system with eight speakers and a sub-woofer. Few vendors regard sound output this highly. And, in building the Voyager Discovery K400, Big Red has supplied a full multimedia kit.

We were glad to see the 19in Iiyama VisionMaster 450 supplied, a monitor which gives exceptional quality. The sharp, bright image is evenly displayed across the screen and it can reach an impressive 80Hz refresh rate at a resolution of 1600 x 1200. Three bezel-mounted buttons give users almost instantaneous access to every adjustment and setting. A PCI

Rockwell-based modem will allow telephony connections at up to 56Kbps. There is scope for expansion with one PCI and one ISA slot free, plus room for one extra 3.5in and two further 5.25in devices. If you do venture inside, then one answer to the extra girth Big Red has afforded this model could be pure



accessibility. The extra width is less intrusive than a proportional height increase and allows your hands to worm through the tidily clipped cables and wires without fear. With a software bundle that includes SmartSuite Millennium and the DVD version of Wing Commander IV, Big Red has pulled out all the stops and supplied a top-notch system.

IAN ROBSON

PCW DETAILS

★★★★★

Price £1,643.82 (£1,399 ex VAT)

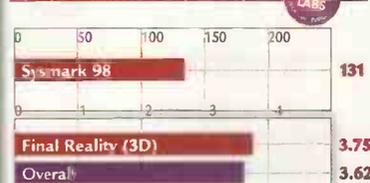
Contact Big Red 0181 245 2456
www.bigred.co.uk

Good Points Impressive components and excellent monitor.

Bad Points Disappointing DVD setup.

Conclusion A stimulation for all the senses.

PERFORMANCE RESULTS



Tiny Home DVD 400

A big deal all round

The inclusion of a 400MHz Celeron makes this a great kit for home and business use.

Intel has always claimed that the Celeron processor is not just for home users but for the business fraternity, too. Now, with the advent of the 400MHz model we may see this vision become reality.

So what do you get for your money? The case is fairly empty, with the compact motherboard taking up half the available space. This hosts the BX chipset, 64Mb RAM and a 400MHz Celeron processor. The chipset makes this a great PC for beginners who may want to upgrade. The RAM is supplied on just one DIMM which means that a further two SDRAM slots remain free for future use. The interior is tidy and well organised with cables tied back to facilitate easy access to the memory slots, processor and free ISA and PCI slots of which there are two of each type. Three spare power connectors allow plenty of scope for filling the remaining free internal 3.5in drive bay, as well as the one free external 5.25in bay which hides neatly behind Tiny's trademark case door. However, the positioning of

the 3.5in bays in the lower of the two possible positions means that filling the remaining upper slot will require a bit of cable juggling before it can be slid into place. A Fujitsu IDE hard drive provides 6Gb of storage, while the system itself runs under Windows 98. The monitor is a 15in FST Taxan Ergovision 550TC095 with a viewable diagonal of 13.7in. For most home

and office users this may be adequate, but power users running major graphical applications are unlikely to be tempted by the Celeron option and most will not want to push it beyond 800 x 600 resolution. However, it can still attain a respectable flicker-free refresh rate of 85Hz at 1024 x 768. It is driven by a 3Dfx Voodoo Banshee AGP for Windows 98 card with 4Mb of on-board RAM. We were impressed by its performance, with good screen uniformity, uniform image sharpness across both high and low intensity characters, no evidence of unwanted raster lines and no problems with convergence or colour mis-registration in either horizontal or vertical test patterns. It had no OSD, but buttons mounted on the bezel allowed for a wide range of alterations but omitted the degauss option — neither surprising nor a great hindrance at this level.

Entertainment is catered for by the inclusion of a Matsushita DVD-ROM drive. Using software decompression, the results of playing a movie disc were impressively smooth. Sound arrived courtesy of a Yamaha DS-XG card, mounted in a PCI slot and a pair of

Tiny-branded 180W PMPO speakers, shaped to complement the Home DVD 400's case design.

This system from Tiny is simplicity itself when it comes to setup. All cables are colour coded to match the case ports. The multimedia keyboard puts audio controls at your fingertips and has four hot-keys to launch applications. These can be configured by clicking an icon in the system tray and are supplemented by a further button to close applications. One hot-key is pre-configured to call up the Tiny FAQ guiding users through twelve key

problem areas. Europhiles will be pleased to see the inclusion of a Euro symbol and they'll be able to chat to their continental

counterparts using the internal V.90 modem. A generous software bundle included language instruction software and a range of Dorling Kindersley products which help make this PC a great buy for families with kids.

All in all, this PC is a very impressive package for home and small-office business users alike, as well as corporates looking to expand their current stock without the expense of a Pentium II chip.

NIK RAWLINSON



PCW DETAILS



Price £1,291.33
(£1,099 ex VAT)

Contact Tiny 0870 607 1294
www.tinycomp.co.uk

Good Points Software bundle. Monitor. Impressive component list.

Bad Points None to speak of.

Conclusion It's early days yet for the 400MHz Celeron processor but if this is anything to go by, the future looks bright.



PERFORMANCE RESULTS



Compaq Armada 7800

Powerhouse portable

A desktop replacement with loads of power, a lovely big screen and no adapter to lug.

Some users are happy with a super-small, super-lightweight yet cut-down computing device for their mobile computing needs, while others will settle for nothing less than a full-blown equivalent of their high-powered desk-bound PC. This top-of-the-range Armada 7800 sports the latest mobile Pentium II processor running at 300MHz — that's fast! — coupled with 64Mb of memory (expandable to 256Mb), a whopping 8Gb hard-disk drive and a state-of-the-art DVD-ROM drive. A 66MHz PCI bus, 512Kb Level 2 cache, 32-bit CardBus for PC cards, S3ViRGE/MX graphics controller with 4Mb SGRAM and 3D graphics acceleration, and a frame mode AGP implementation with a dedicated 66MHz graphics bus, all combine to provide the best possible speed for your applications.

That sort of specification provides more than enough processing power and storage capacity for today's operating systems and applications, and additional storage capacity and other peripherals can be added via the modular drive bay. The MultiBay on the 7800 can house additional hard disks, battery packs, CD-ROM or floppy drives, increasing hard-disk storage capacity to 16Gb or battery power to over five hours, for instance. The only drawback here is that the devices in the MultiBay cannot be hot-swapped.

As with most notebooks of this ilk, the Armada 7800 is neither svelte nor pretty. In fact, it is damned heavy — between 7.8 and 8.8lbs depending on configuration — and fairly utilitarian in appearance. But its catch is solid and its hinging action is firm, and once the case is open you have a very usable and tactile full-size keyboard with a few user-assignable function keys above it and dedicated buttons for volume control



and suspend operation. The lid houses the screen, a microphone and two speakers that provide excellent sound for a laptop.

The pointing device is one of those mini-joystick affairs set into the keyboard, with left and right mouse buttons beneath the space bar. The

One of the nicest features is an integrated power supply at the back

action of the device is positive and accurate. The strangest thing about the keyboard is its position

towards the front of the case, virtually eliminating any kind of real wrist-rest. The reason for this, though, is one of the nicest features of the Armada range: an integrated power supply at the back of the case. No lugging around a separate power 'brick' for this machine — just plug in and away you go.

The screen has often been a sticking point on most laptop machines, but the 7800 sports a full-sized 14.1in CTFT screen which can operate at 1024 x 768 resolution and display 16.8 million colours. It is excellent — bright and clear, with good colours and a reasonable

viewing angle, and remains usable in most lighting situations. The only thing which spoilt it was a thin, bright band along the bottom edge although this did not impair usability. With AGP and 3D acceleration, graphics performance is outstanding.

The back panel of the unit is a mass of ports, including the obligatory expansion/docking, serial/parallel, external keyboard/mouse, external SVGA and power connectors. Next to these is the

fast 4Mbps IrDA 2.0 port, and above are connectors for external microphone, headphone and line-in, as well as a USB port.

At the side of the unit are the PC Card slots offering the usual two Type II or one Type III arrangement. Both 16-bit PC Card and 32-bit CardBus cards are supported, along with zoomed video in the bottom slot only. Above these is the integrated 33.6/14.4Kbps fax modem with full-duplex speakerphone capabilities and this is upgradeable to the K56flex protocol. Security, management and docking options are all outstanding, as befits a machine of this class.

BOB WALDER

PCW DETAILS

★★★★

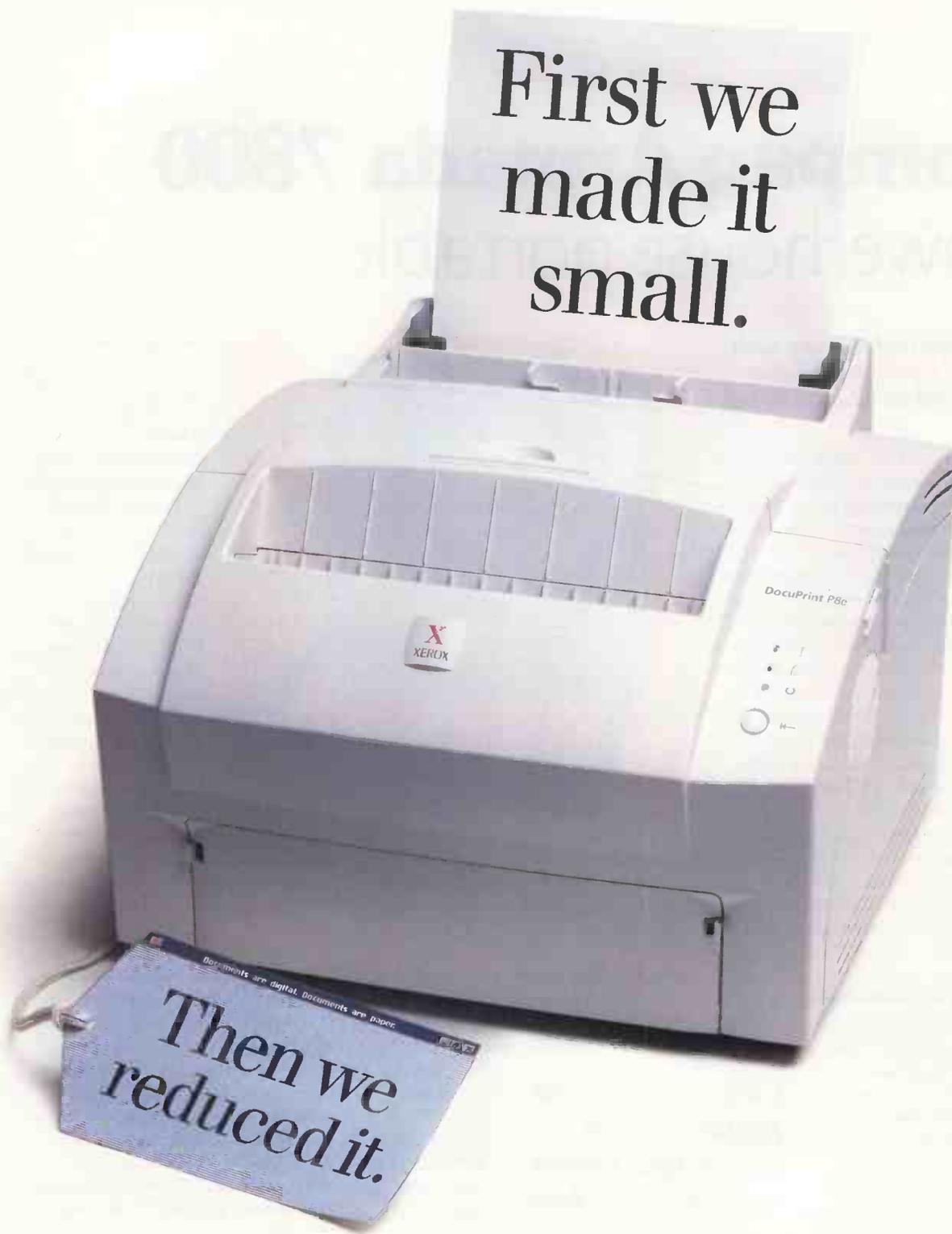
Price £3,878.68 (£3,301 ex VAT) including optional DVD drive; (£2,995 ex VAT without DVD)

Contact Compaq Computers
0181 332 3000 www.compaq.com

Good Points High-performance AGP graphics. Excellent docking options.

Bad Points Not the usual 'kettle plug' power cable. No hot-swap of drive modules.

Conclusion A superb piece of kit which can act as a true high-performance desktop replacement for mobile users.



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Job title _____

Name _____

Address Company/Home _____

Postcode _____

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Office 2000 Unwrapped suite

BETA

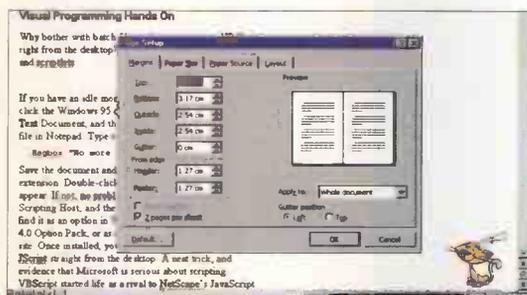
We check out the **latest three pieces** in the Office 2000 beta suite. Can you resist it?

Microsoft is still adding features to Office 2000 and the release date has been pushed back — at the time of writing, 'second quarter' is the best the company can offer. A strange twist is that PhotoDraw 2000, the last member of the suite to be announced, is also the first to be released ahead of the full version. Newly revealed in the latest beta are FrontPage 2000 and Publisher 2000, now promoted to the top-of-the-range Premium Edition. There will also be the familiar Standard and Professional versions, the latter including Access, and a Developer Edition aimed at programmers. The core applications are little changed from the earlier beta although there are improvements: Word can at last print two pages on one sheet.

With each release, Publisher 2000 gets less like a desktop publishing package and more like an overgrown wizard. The snag with instant Publisher designs is that, like ties bought in high-street chains, you may meet someone else wearing the same one. Publisher 2000 offers some respite with a new, improved look throughout its templates. Online help is in the new intrusive style which automatically resizes your document window, and the publisher wizard takes up a chunk of space on the left, leaving little room for your actual document on many displays.

Publisher may have taken pop-up help beyond sensible limits but, having said that, most features can be turned off and there is a moderately powerful publishing tool lurking beneath. It can now make separations for high-end commercial printing but a curious omission is column balancing — you cannot force Publisher to align both the top and bottom of multi-column text. Publisher is not a tool for professional designers but for the rest of us who want to create decent-looking documents

The new Office will be hard to resist



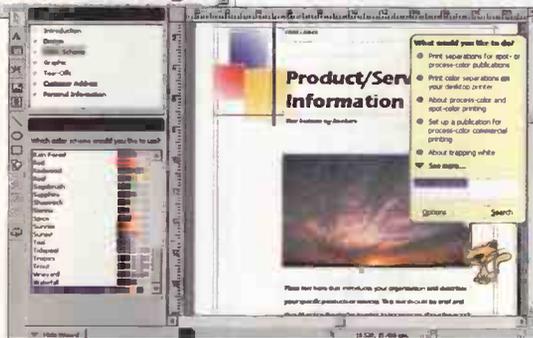
without expensive assistance. It is good at what it does, but I would be cautious about using it for web design because of its inefficient HTML code.

FrontPage 2000 makes great play of what it does not do. A section in the evaluation guide remarks that the new version leaves existing HTML code unchanged, unlike previous editions which had a habit of scrambling scripts or tags created with other software, including Microsoft web editing tools. FrontPage 2000 is also able to create disk-based webs: that is, you can use it without having to run your own web server. There is also a compatibility setting that lets you disable extensions that will not work on particular web servers or browsers; a great feature, long overdue.

PhotoDraw 2000 is inspired. It is a brand new graphics package although parts look eerily familiar, like the AutoShapes that come from Office 97. Its strength is that it does not force you to choose between bitmaps or vector graphics. With a bitmap you are painting with pixels: ideal for artistic expression or photographic reproduction but poor when scaled, and inaccurate for drawing. Vector graphics let you work with graphic objects, each of which can be individually sized, manipulated and scaled without loss of quality. PhotoDraw lets you mix the two techniques seamlessly, hence the .MIX extension in its native file format. It is

◀ **AT LAST — TWO PAGES PER SHEET IN WORD. I WAS SO PLEASED, I HAD TO STROKE THE CAT**

▼ **PUBLISHER 2000 — A WIZARD TOO FAR?**



laden with effects and features, and while it will not challenge the likes of Adobe Photoshop in the high-end market, it will be fine for home users touching up photos for web sites or business users creating simple graphics.

More polished than earlier betas, this version works well but installation is slow. It is difficult to set up Office web extensions which handle intranet publications and discussion groups thanks to a partial dependence on the unreleased SQL Server 7.0. Even so, this is a worthwhile upgrade, but those hoping for a leaner, meaner Office suite will be disappointed.

TIM ANDERSON

PCW DETAILS

★★★★★

Price Not yet announced
Contact Microsoft 0345 002000
www.eu.microsoft.com

System Specifications Windows 95, 98 or NT 4.0. 200Mb disk space (approx).

Good Points Feature-rich. Much improved FrontPage. Strong PhotoDraw graphics package.

Bad Points North American flavour. Too many designs. Overkill for simple office use. Slow installer.

Conclusion The new Office will be hard to resist.



**The EPSON EPL-N4000 Departmental Laser.
Nothing prints faster.**



EPL-5700



EPL-N1200



EPL-N1600T



EPL-N2000



EPL-C8000

ng
5.00pm

If we could just hold you up for a moment and talk about the EPSON EPL-N4000 mono laser... (five pages).

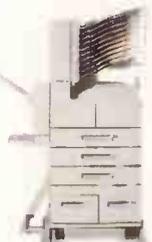
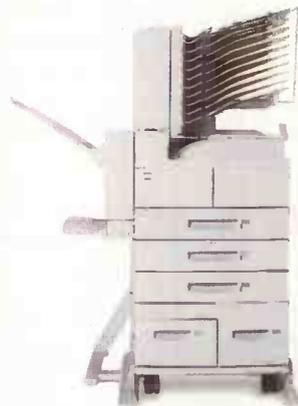
It has comprehensive 100Base TX network connectivity as standard. And up to 3550 sheet input cassettes with shifter, sorter and mailbox outputs... (14 pages).

Hang on, we haven't covered the rest of the range yet...(16 pages). There's image quality available up to a razor sharp 1200 dpi class... (21 pages).

There's versatile paper handling including A3W. And of course there's the choice of Network and PostScript versions... (25 pages).

But what are all the brackets for? That's how many pages the **EPL-N4000** could have printed while you read this copy. At 40ppm, you'd have to wait a long time to find a faster printer. For more information on the EPSON Laser range call **0800 220546**, fax **01442 227271** or visit **www.epson.co.uk** (40 pages).

PCW MAR 99



EPL-N4000T



EPL-N4000FNT

EPSON. THERE'S NO COMPARISON.

EPSON®

BeOS Release 4

New operating system

This new kid on the OS block will appeal to **high-end multimedia users**.

It takes nerve to launch a new operating system. The success of Linux, by offering robustness and stability, proved that users are prepared to adopt rival operating systems if they can offer something that Windows lacks. Now, BeOS provides the power and versatility needed for high-end multimedia applications like video editing and 3D graphics.

Previous versions of BeOS were essentially glorified beta releases, intended to drum up support from software developers. Release 4 is the first version aimed at ordinary end-users. The installation routine allows you to partition a hard disk so that BeOS can sit alongside Windows. Then, when you turn on your PC, you have the option of selecting either BeOS or Windows, which allows you to continue using the many business applications available for Windows while taking advantage of new multimedia software for BeOS.

Be's graphical interface is closer to the MacOS than that of Windows but anyone used to Windows should get the hang of Be pretty quickly. There's no equivalent of Windows Explorer — which is an immediate recommendation as far as I'm concerned — because you gain access to the contents of your hard disk directly from the main desktop, called the Tracker.

PCW DETAILS

★★★★★

Price £49 (£41.70 ex VAT)

Contact UK Distributor:
Computer Warehouse 0181 400 1298.
Be web site www.be.com

Good Points High-performance multimedia operating system.

Bad Points Limited hardware compatibility and software availability.

Conclusion The technically sophisticated BeOS will appeal to content developers but its success will depend on future software support.



An on-screen palette called the DeskBar acts like the Start menu in Windows 95/98, or the Apple menu in the MacOS. This can be customised to provide instant access to control panels and your most important applications and documents. Open windows have a title bar which allows you to move them around the screen, and the usual scrollbars and resizing options are there, too. Applications use conventional pull-down menus

and tool palettes, and Be has duplicated most Windows keyboard shortcuts so new users should soon feel comfortable with the interface. The interface is probably the least important aspect of BeOS, though. It is the performance of the underlying architecture that is most impressive.

BeOS is an object-orientated operating system that supports multithreading and multiprocessing. Multithreading works by breaking running applications into a series of small tasks, allowing you to run multiple applications side by side and to switch between them at will. You can have a video clip running alongside a 3D animation at the same time as browsing the internet. If you've got a multi-processor PC, the BeOS can divide threaded tasks between processors for

◀ ITS HIGH-PERFORMANCE MULTI-THREADING ALLOWS BEOS TO RUN MULTIPLE VIDEO CLIPS SIMULTANEOUSLY

optimum performance but it also runs well on single-processor PCs. High-quality video and multimedia files

can take up huge amounts of RAM and disk space but Be's 64-bit file system can handle file sizes in the terabyte range. Windows has trouble with video files that are more than one or two gigabytes.

Be has gained surprisingly good software support. There are several audio packages already available, such as Steinberg's Nuendo, and a number of video editing programs are in development. Be has also pulled off a

coup with Hitachi, which has licensed the BeOS for use in a range of dual-boot (Be/Windows) PCs selling in Japan.

The only problem is Be's limited compatibility with the vast number of hardware components used in PCs, like sound, graphics and video capture cards. It's important to check compatibility before buying BeOS, as you may find that it simply won't work on your PC.

BeOS is technically impressive but it's facing an uphill struggle against Windows, especially now that NT is making progress amongst content developers. However, Linux has proved that there's room for rival operating systems in the PC market. A lot will depend on forthcoming software support, but if the software's good enough, BeOS might well carve a niche for itself among audio, video and graphics professionals.

STEPHEN DEAN

The performance of the underlying architecture is most impressive



The VAIO
range offers ultra-portability
without sacrificing performance. It's

'The best sub-notebook we've ever seen'

according to Personal Computer World magazine, PC Magazine awarded it **'Best Ultra Portable System'** in their 1998 Technical Innovation Awards. **'It's one of the most complete notebook packages around - you quite literally get everything you need in one box, with no extra costs besides the software you want to use'** (T3 December 1998). **'Sony has created as near a perfect portable computer as existing technology permits'** (Computer Shopper December 1998).

'It is light and tough with an exciting potential for digital editing through iLINK and Sony VAIO devices' (IT Week 5 October 1998). For further information on these award winning products and your nearest stockist, call Sony on

0990 424 424

now.

Specifications

Intel® Pentium® Processor 266MHz
with MMX™ technology
32MB standard memory
(expandable)

Sony VAIO PCG-745
12.1" colour HPA display
(800x600) / 3.2GB HD

Sony VAIO PCG-747
12.1" colour TFT display
(1024x768) / 4GB HD

Sony VAIO PCG-505FX*
10.4" colour TFT display
4.3GB HD

* Also available as a 'light' version
excluding the PC Modem Card
and CD-Rom drive.



Best Ultra Portable System
Sony Information Technology
VAIO Note PCG-505G
PC Magazine, 1998



Recommended
VAIO Note PCG-505G
Personal Computer World,
December 1998



Recommended
VAIO Note PCG-505G
PC Direct,
December 1998



Most Desirable
VAIO Note PCG-505G
Computer Shopper
December 1998



Gold Award
VAIO Note PCG-505G
PC Format
December 1998

SONY®

IBM Aptiva E18 Home PC

A balanced, quality system that would make the ideal family PC.

The IBM Aptiva E Series of home PCs has received five additions to an already extensive range. This E18 model squeezes itself into the lower end, based on its price, which is borne out in its specification. How it stands up to the competition is another matter.

The name IBM conjures up fond memories of times gone by when the term 'IBM compatible' was on everybody's lips. There has been a dramatic shift in the attention paid to such details and this becomes increasingly apparent in the dog-eat-dog arena of the budget home PC market. It's brave of IBM to attempt to make its presence felt against the aggressive pricing policies adopted by most vendors, but to its credit, you can be sure that IBM's wealth of experience will translate to an expertly configured machine with a quality of build to match.

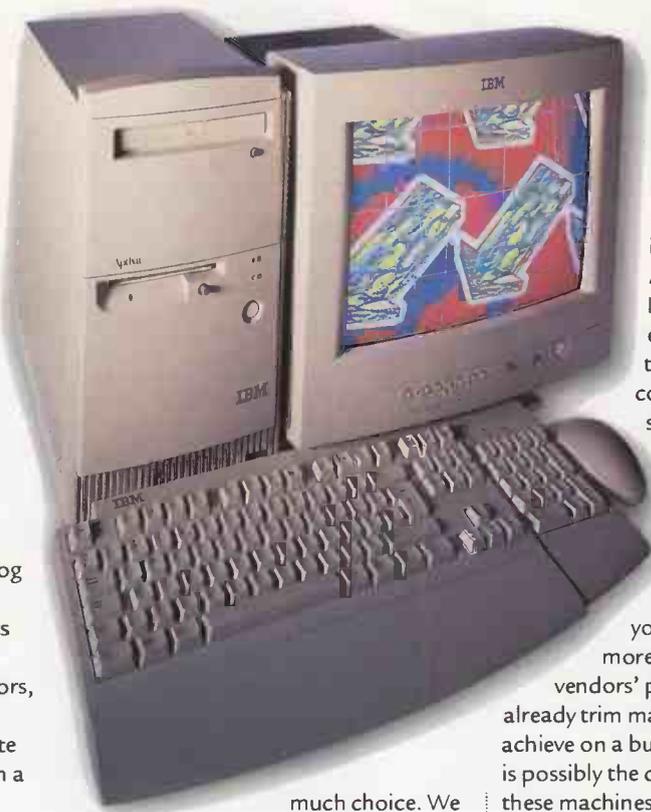
What is on offer is a system balanced around an AMD K6-2 300MHz processor with 48Mb main memory. For the majority of home uses this could well be sufficient, but you may begin to feel some lag if you're hoping to play games.

IBM wins marks for its no-nonsense approach

Upgrading for high-end game support is limited by the on-board 4Mb AGP graphics from ATI.

Storage can at least be said to be ample, with 6Gb supplied in the shape of a 5400rpm EIDE hard disk from Maxtor with an average seek time of 9ms, giving fast enough access to the pre-installed home office software, including Lotus SmartSuite97.

If you fancy getting your hands dirty with a few enhancements, then once you've loosened the case screws you will immediately note the limitations. With only one free 5.25in drive bay and one shared ISA/PCI bus slot, there's not



much choice. We were impressed by the hard-drive housing which slides effortlessly into and out of position, allowing easier access to the already tight innards. Connectivity is well catered for with the inclusion of an IBM branded 56Kbps ISA modem, while multimedia is taken care of by the on-board Crystal sound chips. The size of the compact system box, as well as the 15in IBM branded monitor, are further indications that this machine is well suited to use in the home office. Users finding themselves making extensive use of it will be impressed by the monitor's sharp image at 800 x 600 resolution, where it sustained a 75Hz refresh rate.

approach to what the intended end-user will be looking for. Ease of use is a major focus; an intuitive setup includes colour-coded cables and a host of friendly guides including Aptivaizer, Aptiva Helps and Aptiva Installer. Each is ready to escort the family through the essentials of modern computing. If you do get stuck, the IBM

HelpCentre is just a phone call away, 365 days a year.

Overall there's nothing remarkable to comment on here, and you could quite easily find more for your money in other

vendors' products. With the already trim margin that IBM would achieve on a budget PC, £799 (ex VAT) is possibly the cheapest it can get, but these machines will sell through the sheer trusty build and experience that can be accredited to a company that has been around since the dawn of personal computing.

IAN ROBSON

much choice. We were impressed by the hard-drive housing which slides effortlessly into and out of position, allowing easier access to the already tight innards. Connectivity is well catered for with the inclusion of an IBM branded 56Kbps ISA modem, while multimedia is taken care of by the on-board Crystal sound chips. The size of the compact system box, as well as the 15in IBM branded monitor, are further indications that this machine is well suited to use in the home office. Users finding themselves making extensive use of it will be impressed by the monitor's sharp image at 800 x 600 resolution, where it sustained a 75Hz refresh rate.

We were disappointed with this machine's performance in our BAPCo benchmark test of standard office applications. Similarly, it failed to impress when subjected to our 3D Final Reality test, indicating that this machine may not be the best choice for PC gamers.

IBM wins marks for its no-nonsense

PCW DETAILS

★★★

Price £938.83 (£799 ex VAT)

Contact IBM PC Response Centre
0870 601 0136

www.ibm.com/pc/uk/aptiva.html

Good Points Intuitive. Quality build.

Bad Points Limited upgrade options.

Conclusion A purchase for those who need their hand held at all times, but when £799 is involved, that's hardly a childish approach.



● Why do
accountants
recommend
Sage?



Choosing the right computerised accounting system for your business is too important to leave to chance. You need expert advice. And if you ask a chartered accountant, most – over 80% – will recommend Sage. After all, they probably use Sage themselves.

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Hewlett-Packard 2500C

Colour printer

A big, hefty inkjet to take care of your office requirements in **mono and four colours.**

Mentioning the words 'office' and 'printer' in the same breath often conjures up images of one print technology only — lasers. And, as it's true to say that most substantial businesses have used laser printers for many years, it's an easy association to make. However, some small offices, more particularly the ones Hewlett-Packard (HP) calls workgroups, only need inkjets, but not the fiddly little ones you would use at home.

So, HP has come up with the 2500C, a colossus of a colour printer that is based on inkjet technology. Hailing from the Professional Series Colour range, the 2500C is designed for use in workgroups — in other words, for small businesses or other organisations with between five and ten users.

The 2500C is absolutely huge and has a virtually indestructible feel to it. All the trays and movable parts feel sturdy. It is easy to clear jammed paper from inside, and easy to replace ink cartridges. So, it's perfectly built for the small-office environment where staff have neither the time nor the inclination to look after office property. It's pretty easy to get up and running, too. Just plug it into the parallel port and stick the software CD into the drive.

It has clearly been designed with networks in mind, claiming to 'seamlessly' integrate into all major network environments and protocols as well as support all major operating systems. What it boils down to is that the 2500C supports Win 3.1x, 95, 98, NT 4.0 and MS-DOS. It is network capable with the option of inserting a Hewlett-Packard MIO internal print server.

Inkjets are, historically, slower than lasers; so how does the 2500C fare? Against a claimed mono speed of 7.5ppm using black text only, our laboratory tests measured a mono speed of just 4.2ppm — not quite so impressive,

but not so bad. Also worth remembering is that in HP's Econofast mode the mono print speed can improve by up to 2ppm. Standard memory is 4Mb but upgradeable to a whopping 76Mb.

The 2500C is more than just a mono inkjet printer. Probably its main selling point is its four-colour capability. The claimed mixed mono/colour speed is 3.3 pages in normal mode and up to 7.5 pages in Econofast mode.

Our tests in this category are not really comparable as we use not a text/image mix but a full A4 colour image with no text, and in optimum mode it took approximately half a minute to print. Still, quality was excellent in both mono and colour modes, with greys and blacks mixing well in large and small fonts and colours showing great clarity and respectable detail. The 2500C will print at a resolution of 600 x 600dpi in mono.

Extras include the ability to use the ColorSmart II technology for colour matching, and PhotoREt II colour-layering technology. There are also

Billboard and Handout print options enabling you to expand an image or document to cover lots of pages or to shrink several pages onto one side of paper, respectively. Its workgroup connectivity also comes through in the printer control language (PCL): it uses the enhanced HP PCL3 but supports Adobe PostScript 3.



The machine is unusual in that the print heads are separate from the ink cartridges. Mounted just behind each other, the four heads and cartridges are well labelled and it is simple to replace them. It also cuts down on running costs with no need to replace both print head and cartridge at the same time. In fact, both have indicators to inform you when they are reaching the end of their working lives. The inclusion of two media trays, with a combined capacity of 400 sheets, means that you can have an A3 and A4 tray at the same time. Having seemingly gone sensor mad, HP has included a sensor so the printer knows what media is in which tray.

JIM HARYOTT

Unusually, the print heads are separate from the ink cartridges

PCW DETAILS

★★★★★

Price £1,104.50 (£940 ex VAT)

Contact Hewlett-Packard 0990 474747

www.hp.com

Good Points Features. Print quality. Sturdy build quality.

Bad Points Size. Slower than anticipated print speed. Price.

Conclusion The 2500C is an able, well thought out and well built colour inkjet for the small-office user. It is pretty big though, and it's not cheap.



ONLY REALITY LOOKS MORE REAL.



This extraordinary life-like image has been produced with the most advanced inkjet printing process available. HP PhotoREt II colour layering technology. It enables our printers to blend up to an incredible 16 drops of ink on every tiny dot. So every imaginable shade of colour can be used to print stunning photographic images, even on ordinary paper. All the more impressive, when you consider this is done at speeds at which other desktop printers only manage black and white. In fact, nothing else comes close. Except of course reality itself.

*HP DESKJET PRINTERS
<http://www.hp.com/go/drops>
<http://www.hp-expo.com>



Expanding Possibilities

Brother MFC Pro-700C

Multi-talented device

If office space is at a premium, a device that does everything but make the tea could be what you need.

Since every other manufacturer worth his salt has now added an MFD (Multi-Function Device) to its range, Brother has followed suit and now the MFC Pro-700C is available for the use of the SME market.

The MFC stands for Multi-Function Centre and for your money you get a multitude of peripherals squeezed into this rather large marvel. A Plain Paper Fax, Colour Printer, Colour Copier, Colour Scanner, Message Manager and Colour PC/Fax (where faxes are received by the PC) are all built-in and most work without connection to an active PC.

The main benefit of an all-in-one device is that all of the common office peripherals are merged into one, saving space and money, and improving ease of use.

First up, the printer. This is an inkjet unit capable of resolutions of up to 720x720 dpi that utilises the Piezo technology most commonly found in Epson printers. In our tests it achieved a quality rating of 70.4 percent, which isn't fantastic. It's weaknesses were greyness and significant banding in blocks of black. It coped well with fine lines, and even gave our 'fine white lines through a solid block of black' test a good run for its money. The colour output was a touch too bright and this resulted in images looking faded. Ink density can be altered in the driver to correct this, but the factory setting is preset to a recommended value to save ink.

The claimed mono speed of up to 5 ppm is a bit overrated — in our tests it produced only 1.7 ppm. We were, however, impressed with the printer's performance in the positional test, where a test pattern is printed on the same sheet twice. The pattern looked as if it had only been printed once, and the text was only slightly blurred due to marginal horizontal misalignment.

A fairly rare feature on any MFD is the ability to produce colour copies without being connected to a PC. The Pro-700C's 4Mb of RAM enables this facility. A full A4 copy takes less than three minutes on the Best setting, and the result is very close to the original.

You get a multitude of peripherals squeezed into this rather large marvel

The fax functionality is extremely comprehensive, and there are so many advanced functions that most of them probably won't be needed. It can cope with speeds of up to 14.4Kbps, and documents of between 76x100 mm and 216x900 mm. The scanner, meanwhile, has an optical resolution of 300 dpi and incorporates a document feeder. The results of our scanner tests showed that it didn't cope very well with fine details such as extremely thin lines: these were either partly or completely missing in the scanned image. Colour was, however, faithfully reproduced and overall we were pleased with the quality.

The Pro-700C has a built-in phone

handset, full-duplex speaker phone and digital answering machine. It can store a maximum of 99 minutes of voice messages, up to 300 pages of faxes, depending on their content, or a combination of both. The front panel has been really well designed — buttons for the different functions are separated into obvious areas, making this machine easy to use.

We only had two small gripes about the Pro-700C. The first was that the telephone cable had a plug doubler so big that it wouldn't fit into our socket as it clashed with the cable box below. The second concerns the document support for the printer output. This is too short, so documents pile up out of order and, in our experience, after about 10 sheets can get pushed off completely.

Hewlett-Packard has released the OfficeJet 710 that, excepting the phone, has much the same functionality as the Brother yet costs only £470. That said, if you're looking for an MFD, the Pro-700C is well worth a look.

JAMES MARTIN



PCW DETAILS



Price £649 (£552.34 ex VAT)

Contact Brother 0161 330 6531

www.brother.com/eu-fax/INFO/700c/700c.html

Good Points Usability. Built-in answerphone and colour copying without a PC.

Bad Points Slow printing. Poor document tray.

Conclusion A good all-round MFD that is well worth a look.

Sony SFD 200S-BP HiFD

An external unit can ease your **file storage worries** without costing an arm and a leg.

The HiFD drive will initially only be sold as an external parallel port device — internal ATAPI and PC Card versions will follow. A special parallel cable is used and a pass-through connector is provided for your printer.

This external unit, slightly larger than the external



SuperDisk unit, is tastefully finished in grey and has a special drop-down cover for the mouth of the drive — presumably dust must be a problem for these drives.

A **green LED** indicates the presence of a 200Mb HiFD disk — a dim 'Busy' LED tells you it's busy. A small button ejects the disk after a couple of seconds. HiFD disks have the same form factor as standard 3.5in floppies but lack the bevelled corner and read/write and ID holes at the bottom. The shutter is also slightly different. As a result, the HiFD is backwardly compatible with 1.44Mb disks though not with LS-120 SuperDisks. One feature it shares with the LS-120 is sluggish performance. Although the HiFD uses a floating R/W head reminiscent of a hard disk, it doesn't offer hard-disk-like performance. As a result, filling that 200Mb capacity can take a while, unlike a Zip disk.

The HiFD uses the familiar

Connect-It Windows 9x parallel port driver utility which promises R/W speeds of between 740Kb and 900Kb per second. In theory Connect-It supports multiple parallel port devices but we were unable to daisy-chain a parallel port SuperDisk unit from the HiFD's pass-through port. Like the LS-120, accessing a newly inserted disk brings the system to a halt, which is irritating. The HiFD is easy to install, however, and reasonably well documented.

ROGER GANN

PCW DETAILS



Price £149 (£126.80 ex VAT)

Contact Sony Computer Peripherals and Components 01932 816660

www.sony.co.uk

Good Points Good capacity. Easy to use.

Bad Points Slow data transfer rate.

Conclusion The upcoming 250Mb Zip will offer the HiFD very stiff competition indeed.

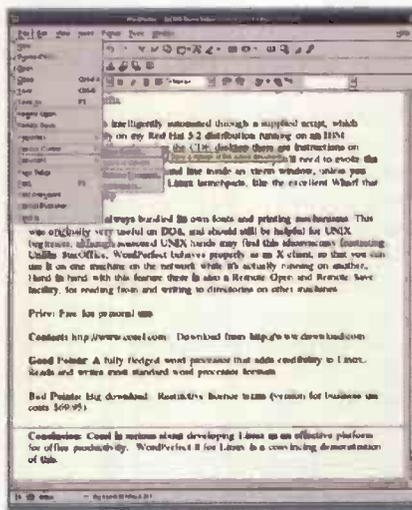
WordPerfect 8 for Linux

Options for **doing without Microsoft** are becoming more attractive with **Corel's help**.

Linux continues to gain credibility as a server, but doubts remain about its value as a desktop operating system. While the flame wars rage, the Canadian company Corel is quietly getting on with helping to develop Linux in that direction. The arrival of Corel's WordPerfect 8 for Linux, freely downloadable for personal use, is another step along the way.

The files are gzipped, although at www.download.com they're incorrectly given the .GZ suffix. This should be lower case, so you'll need to rename the file, or use gunzip's -S switch to permit the upper-case suffix.

The installation is intelligently automated through a supplied script, which worked effortlessly on my Red Hat 5.2 distribution running on an IBM ThinkPad 560x. If you're using the CDE desktop there are instructions on setting up a desktop icon for WordPerfect.



Otherwise you'll need to evoke the word processor from the command line inside an xterm window, unless you know how to tweak one of the Linux launchpads like the excellent Wharf that runs with AfterStep.

WordPerfect has always bundled its own fonts and printing mechanisms.

This was originally very useful on DOS and should still be helpful for Unix beginners, although seasoned Unix hands may find this idiosyncrasy frustrating. Unlike StarOffice, WordPerfect behaves properly as an X client, so that you can use it on one machine on the network while it's actually running on another.

CHRIS BIDMEAD

PCW DETAILS



Price Free for personal use.

Contact www.corel.com

Download from www.download.com

Good Points A fully-fledged word processor that adds credibility to Linux. Reads and writes most standard word processor formats.

Bad Points Big download. Restrictive licence terms (version for business use costs \$69.95).

Conclusion Corel is serious about developing Linux as an effective platform for office productivity. WordPerfect 8 for Linux is a convincing demonstration of this.

Intuit QuickBooks 6

The number-cruncher's friend

If ease of use is important, QuickBooks can't be beaten.

QuickBooks is often touted as the easiest accounting package for small businesses. There are three main reasons for this. Firstly, everything entered into QuickBooks remains fully editable, so if you make a mistake, you can alter it at any point. Secondly, QuickBooks tries to banish the accounting jargon found in other packages – you will never need to 'post a journal entry to the nominal ledger', for example. Finally, and key to QuickBooks' appeal, is that purchases and sales can be typed exactly in the same way as if you were using a paper-based system. So while entries can be typed into dialogue boxes, QuickBooks also allows them to be typed in spreadsheet-style lists it calls 'registers'. This reduces the learning curve and makes it much easier to see what's going on.

Version 6 is the first QuickBooks incarnation to be a 32-bit application. The right mouse button now displays context-sensitive menus, and registers can be sorted according to any of their fields. The main improvements, however, have been geared towards the help facilities. Videos explaining the program's key features have been created (these are provided on QuickBooks' CD-ROM, but integrated into the rewritten help system), and every window now has a 'How do I?' button,

PCW DETAILS

★★★★★

Price QuickBooks 6, £99 (£84.26 ex VAT); QuickBooks 6 Pro, £199 (£169.36 ex VAT); QuickBooks 6 Pro five-user, £599 (£509.79 ex VAT)

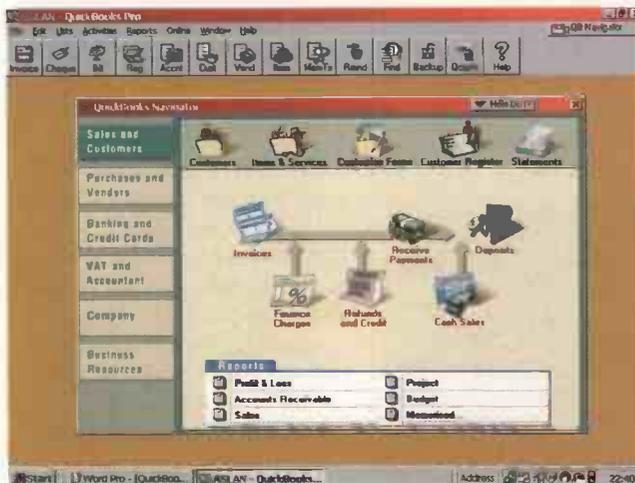
Contact Intuit 0800 585058
www.intuit.co.uk

System Specification Windows 95, 98 or Windows NT 4.0, CD-ROM, 486/33 with 16Mb RAM.

Good Points Entries remain editable. Multi-user version.

Bad Points Late entries can complicate VAT returns.

Conclusion The easiest small-business accounts program we've come across.



◀ **SIMPLY ORGANISED AND EASY TO NAVIGATE, QUICKBOOKS IS APTLY NAMED**

I found QuickBooks' interface impressive; for example, making a payment involves filling out an on-screen cheque. Every transaction

providing help related to that particular window. None of the additions is likely to make existing users rush for an upgrade, but they are worthwhile nonetheless.

For more demanding companies, a 'Pro' edition of QuickBooks 6 adds time

Purchases and sales can be typed as if you were using a paper-based system

tracking, billing, job costing and estimating. It also adds multi-user capabilities, allowing up to five users on a network to run the package at the same time (assuming enough licences are bought). Additionally, a couple of separate utilities are provided: Depreciation Calculator is a useful program for working out the depreciation of fixed assets, while Business Health Check displays information either numerically or graphically on eighteen indicators of business performance and alarms can be set to warn users if performance goes below a specified level.

Each time a company file is loaded, QuickBooks displays a list of reminders on-screen, such as which customers' accounts are overdue – very useful. Getting to features in QuickBooks can be done either through menus, a customisable button bar or the Navigator, a graphical menu window.

entered into a dialogue box is transferred into an appropriate register: if you create an invoice, a corresponding entry appears in the Customer Register. In the register, you can look at an on-screen list of past transactions and double-click

on one to see its corresponding invoice. For entering purchases you can type entries directly into the register, just like using a cash book.

For VAT-registered businesses, QuickBooks calculates VAT and works out the VAT return. In the June '98 issue of PCW [p200] we pointed out that (with version 5) entering an invoice late could mean the VAT is added to a previous VAT quarter and, therefore, would not be calculated in the VAT return. Although strictly speaking QuickBooks 6 still suffers from this, there is a better work-around. Using its new 'close dates' option, users can prevent dates from previous VAT quarters being entered, which acts as a reminder to type in the current date rather than the invoice date. Ideally, Intuit should allow two dates to be given to each transaction.

There is little to encourage existing users to upgrade. But if you run a small business and are looking for an accounts package, I would recommend QuickBooks 6 unconditionally.

ALEX SINGLETON

WHAT IS THE NEW STANDARD IN MULTIMEDIA?



NOW, IT'S 4.8x DVD-ROM

The new Toshiba SD-M1202 DVD-ROM Drive delivers multimedia experiences of mind-numbing realism.

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UK: Arrow, Tel: +44-118-963370. Ideal Hardware, Tel: +44-181-2865000. Omega Enterprises, Tel: +44-181-9009155. RK Distribution, Tel: +44-1844-261226. Specifications subject to change without notice

TOSHIBA DVD-ROM: AS FAST AS IT GETS

InDefense

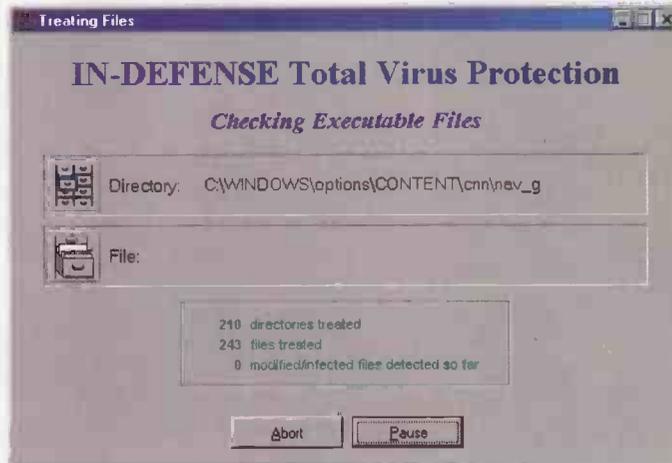
Protect and serve

Tough on viruses, **tough on the causes** of viruses? Not really, no.

In the war against viruses, the most common method of detection is to use a signature file containing the unique hexadecimal code that identifies each specific virus. Unfortunately, with new viruses appearing almost daily, this file requires regular updating, with some vendors charging extra for this service. InDefense takes a different approach that doesn't require a signature file as it looks out for unusual behaviour that indicates a virus is at work.

InDefense uses a three-pronged attack with a memory-resident module providing the first barrier. This constantly scans the system and looks for unusual actions such as program code being modified or extra code being added. The next hurdle occurs when the PC is switched on, as InDefense runs a DOS utility that takes a low-level look at the hard-disk boot and partition sectors and compares them with a snapshot taken during installation. This also keeps a record of the amount of available conventional memory and InDefense checks to see if this has decreased as well, indicating a boot sector virus may have loaded itself.

Next, InDefense tries to fool viruses into giving themselves away by loading false executable files as bait. Finally, it creates a unique rescue disk containing CMOS parameters and images of the hard-disk partition and boot sectors.



◀ **VACCINATION FILES ARE USED TO CHECK FOR INFECTION AND RECONSTRUCT DAMAGED FILES**

user licenses allows InDefense to be run on small networks and installation can be forced on users by using a NetWare or Windows NT login script.

During installation, InDefense scans the entire hard disk and creates special vaccination files that contain detailed information about any COM or EXE files that are found. At only 65 bytes for each executable file they won't take up much

Rescue-disk images for each PC can be stored on a server for easier management and macro control can be centralised.

InDefense sounds sophisticated but, during testing, a few holes became apparent. Infections with boot sector viruses were all spotted due to the change in conventional memory but some file viruses were allowed through the net. When we ran the Hare virus, InDefense indicated

InDefense uses a three-pronged attack with a memory-resident module

disk space and are invaluable for reconstructing damaged files. File viruses are particularly nasty as they move program code around and conventional anti-virus software frequently cannot repair infected files, requiring them to be copied back from the latest clean backup. InDefense scores well here as the vaccination files contain information such as program entry points so it can repair virtually any damaged file.

that some unusual activity had been detected but it didn't stop the hard-disk boot sector from being destroyed. Neither did it stop Junkie from corrupting COMMAND.COM and causing a complete Win98 load failure. We repaired the damage using the rescue disk but these particularly nasty bugs should never have been allowed through in the first place. The test system also became unstable with the VFAT VXD (Virtual Device Driver) regularly failing with fatal exceptions and requiring a re-boot to clear.

InDefense is tough on macro viruses as it assumes all automatic macros are potentially hostile. During the initial scan it displays the location of any it finds along with the commands contained within the macro. You can opt to accept legitimate ones and delete any you don't recognise. InDefense sensibly offers an Undo option in case you later find you removed valid macros.

Although InDefense does away with the cost of regular signature updates, you will need a sound understanding of virus tactics to use it correctly. Furthermore, its failure to stop some viruses from infecting the test system makes it a risky choice at best.

A workgroup pack (£499) with ten

DAVE MITCHELL

PCW DETAILS



Price £49.95 (£42.50 ex VAT)

Contact POW! Distribution

01202 716726

www.indefense.com

Good Points No need for regular virus signature updates.

Bad Points Causes some instability under Windows 98 and not 100 percent reliable.

Conclusion Unusual method of virus detection that includes some sophisticated tools, but far too complex for the average PC user.



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OmniPage Pro 9.0

Optimum recognition

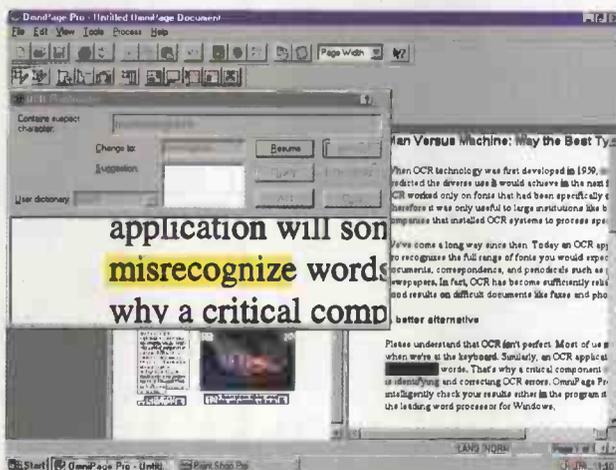
Time-saving and accurate, a reliable OCR can be a godsend.

OmniPage Pro solves one very tedious problem — that of getting printed documents into the computer in an editable form so that they can be used in a word processor, in a spreadsheet, on the web, or stored in any other computer-based document format. In short, OmniPage saves you from a lot of retyping, as once your document is scanned, the package translates it into a text file.

The four most important factors in judging the standard of an OCR program are: the speed with which it works; the accuracy of recognition; its ability to handle different types of fonts and qualities of print; and its ability to reproduce the page layout of the original document. Not all of these factors are important to every user, but the first two, accuracy and speed, are essential. OmniPage Pro is one of the best programs in the field of OCR software and it performs well in fulfilling each of the above requirements and more.

It claims better than 99% accuracy on laser-quality documents using standard fonts. However, it also performs well with faxes, photocopies, dot-matrix print and magazine and newspaper articles, as well as working on documents of degraded quality. It can handle skewed pages (up to 10 degrees) for better recognition results, faded faxes, bad photocopies, small text sizes (down to 4 point) and large text sizes (up to 72 point). It can also recognise reversed-out type (white or light-coloured text on a dark background). Further, OmniPage can retain the original layout and formatting features of a page including columns, graphics, tables and font attributes such as size and emphasis.

Special Table support features enable the program to recreate tables as table objects used in Microsoft Word and WordPerfect. This allows the user to edit the table characteristics as well as the text within each cell. In addition, a new



spreadsheet mode identifies and preserves the content and layout of numeric-based documents, saving them directly to Excel, 1-2-3 or Quattro Pro.

OmniPage now supports colour scanning. Colour graphics from scanned

OmniPage Pro is one of the best programs in the field of OCR software

documents are preserved, which allows users to edit them, from within OmniPage Pro or a third-party image editing program, before saving them to a word processor or other application.

OmniPage Pro is very easy to use, with virtually no learning curve. This is enhanced by the AutoOCR Toolbar, which takes users through the complete OCR process with the push of a single button. Once a page is scanned, the program identifies and separates regions (zones) of text and graphics in order to improve recognition and formatting. Such zones can be generated automatically or manually, and modified by the user once defined. The proof-reader facility comes in to play once the text on the page has been recognised. This automatically checks the OCR results and displays the original image

◀ **OMNIPAGE**
RECREATES
PRINTED
DOCUMENTS IN
EDITABLE FILE
FORMATS

for comparison. Like a spell-checker, it highlights suspicious characters and suggests corrections. OmniPage Pro integrates with

Microsoft Office 95 and 97 applications, facilitating text scanning and recognition functions from directly within Word and Excel. This integration is enhanced as the program shares a dictionary with Word, saving time as users will now no longer find themselves adding a word twice.

Files can be opened and saved in a variety of file formats, as well as to HTML, which makes scanning a page and saving it as a web page a long-awaited reality. Fonts, formats and graphics are, of course, preserved. OmniPage Pro recognizes 13 Western European languages, including multiple languages on the same page.

PANICOS GEORGHIADES

PCW DETAILS



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Contact Caere UK 0171 233 6677
www.caere.com

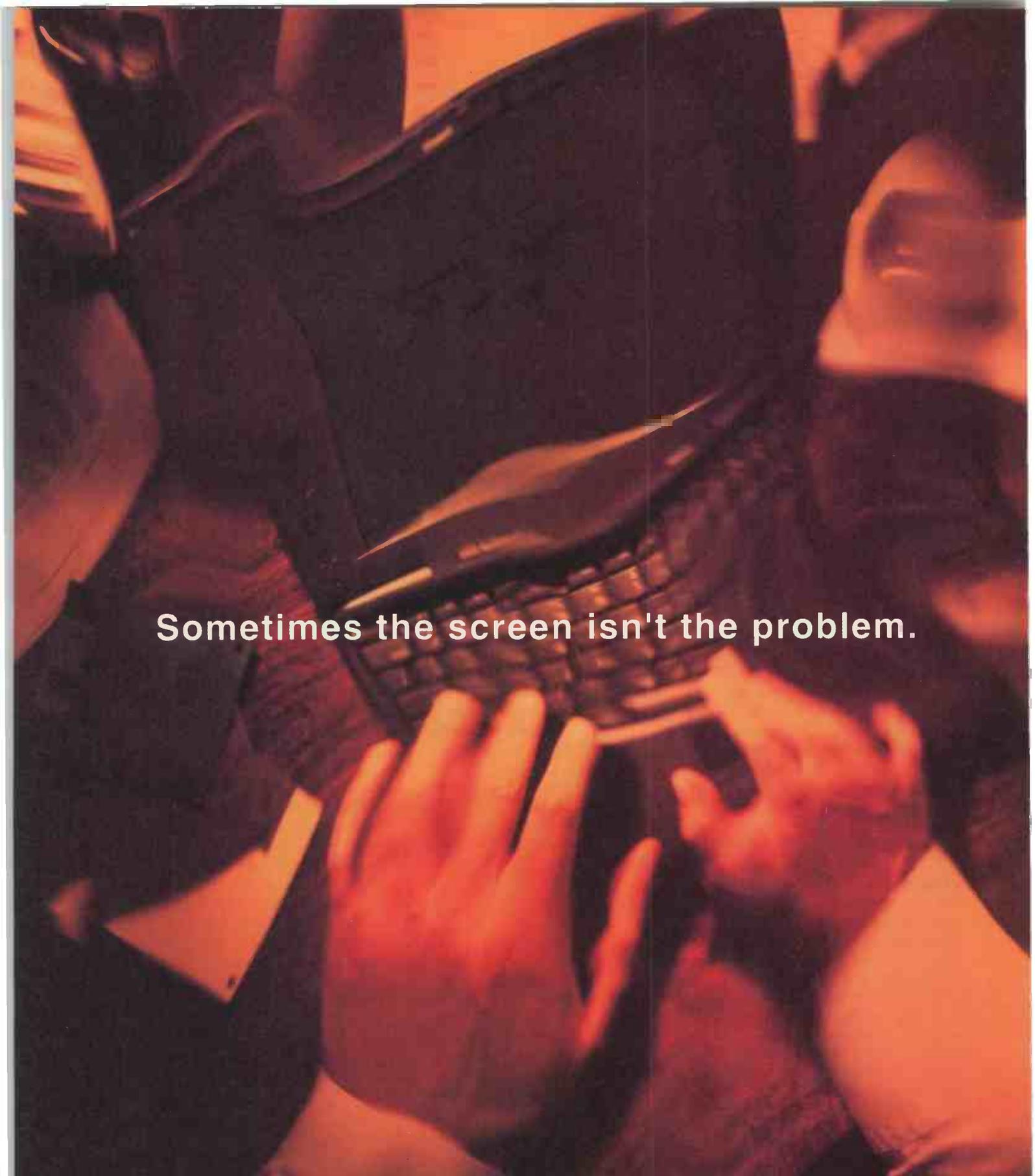
System Specification Windows 95, 98 or NT 4.0, 486 PCs and above, 16Mb RAM minimum (32 Mb recommended), 45Mb free hard-disk space, CD-ROM drive, SVGA or VGA monitor with 256 colours.

Good Points Fast, accurate. Holds layout. Handles degraded documents.

Bad Points None.

Conclusion If you need to recreate printed documents in computer-editable formats, you won't go wrong with OmniPage Pro 9.





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Fujitsu DynaMO 640 SE

This external drive just got **smaller and faster**.

There are two external DynaMO drives at present: the 640SE, with an external power supply, and the 640SD with an internal PSU. Later on, Fujitsu will be releasing the DynaMO 640AI, an internal version which is ATAPI-based — the first non-SCSI MO drive we've come across.

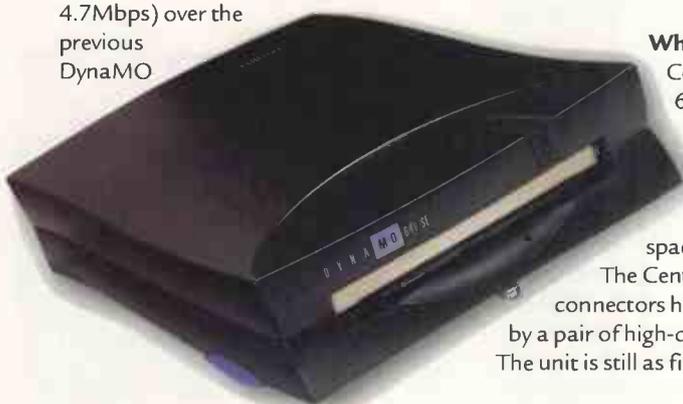
The new DynaMO 640Sx series delivers a performance gain of 20% (the data transfer rate is up from 3.9Mbps to 4.7Mbps) over the previous DynaMO

640 drives. It's also 40% smaller and is thus more or less portable. Capacity remains unchanged at 640Mb, though, with the ability to read the original 540Mb, 230Mb and 128Mb MO disks. The new DynaMO uses Light Intensity Modulation Direct Overwrite (LIMDOW) technology which performs the overwrite process in a single pass and at full speed, instead of in the slower two-pass method of earlier technologies.

its predecessor thanks to the same block of DIP switches on the back, though this device is now SCAM-compliant, which can automate the configuration process.

I like the fact that you get a pair of SCSI cables — one for 25-pin Mac-style connectors and another for HD SCSI-2 connectors, as these can cost £30 each. You also get a 640Mb MO disk.

ROGER GANN



What else is new?

Cosmetically, the 640 SE version looks nothing like its predecessor: it's had a makeover, turning jet black and space age in the process. The Centronics-style connectors have been superseded by a pair of high-density SCSI-2 ports. The unit is still as fiddly to configure as

PCW DETAILS

★★★

Price £252.63 (£215 ex VAT)

Contact Fujitsu Europe 0181 573 4444

www.fujitsu.co.uk

Good Points No longer expensive. Low media costs. Archival durability.

Bad Points MO is still a slow medium.

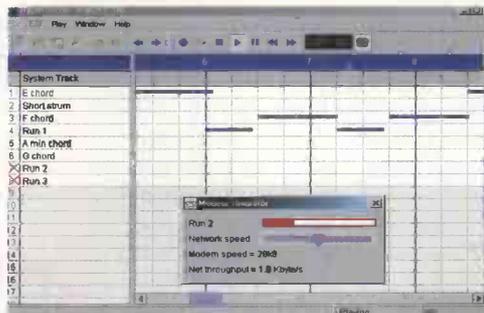
Conclusion Great for archiving data long term, but more expensive than conventional technology.

Insigma Hyperceive

Make your **web site sing** with this new sequencer package.

Sound can make a real difference to web pages, but given the net's limited bandwidth, is it really possible to have uninterrupted audio playback on-line? Insigma Technologies think so, and its Hyperceive sequencing package enables you to achieve just that, allegedly. What makes this software different to other audio-on-the-web solutions is that the end-user doesn't need a web browser plug-in. So how does it work?

When someone visits a Hyperceive site, the sequence file is downloaded along with its Java-class file player. The player then downloads the first audio snippets that are used in the sequence and starts to play them back. Meanwhile, the remaining audio files (mono 8-bit, 8kHz au format) continue to download. If a file hasn't downloaded by the time it is needed, Hyperceive continues to loop, or recycle, previous



parts that are now stored in cache. The sequencing software provides control for the structure of loop points and can handle up to 24 audio channels. Each audio file is placed on its own track and can be configured to play just once (which is useful for voiceovers), or continuously as the arrangement loops. When you have a sequence up and running — and by no means is this hassle-free — you can test how it will perform over the net with the built-in modem emulator. If everything runs smoothly, Hyperceive can generate an HTML file for

integration with your web pages.

In principle Hyperceive is a viable product, but given current net traffic, and that most users have only 28K modems, the results don't come close to justifying the time and money spent.

STEVEN HELSTRIP

PCW DETAILS

★★

Price £149 (£127 ex VAT)

Contact Insigma Technologies 01285 643600

www.insigma.com

System Specification Windows 95/98, 120MHz Pentium, 16Mb RAM.

Good Points No plug-ins required by the end-user.

Bad Points No audio editing inside host application. Works with milliseconds as a time reference rather than BPM. Tricky to get good results. Limited features.

Conclusion Useful for adding speech and one-off sounds to your web site, but if you want half-decent sequenced audio, stick to MIDI.

Rhinoceros

3D modelling software that's powerful, intuitive and easy to use.

Rhinoceros is a 3D object modelling package based on the NURBS principle. Like Organica [reviewed in February's PCW] it focuses solely on object creation rather than generalised modelling, rendering and animation. There's a simple renderer to help with design, but it's no use for finished output.

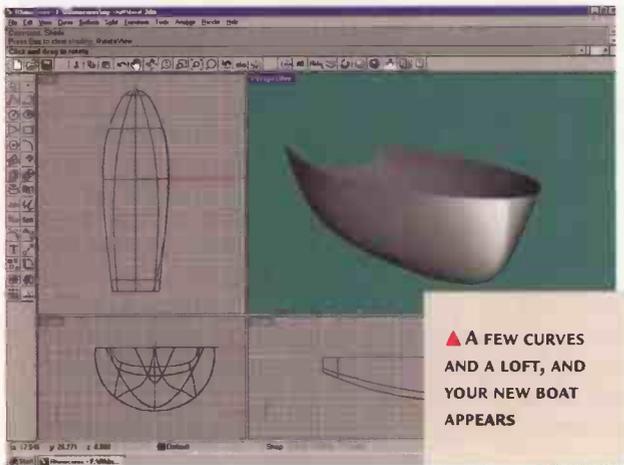
Rhino is streets ahead of Organica in every respect. It's a more formal package, aimed not only at 3D animators and artists but also product design and manufacture. To this end it sports a raft of CAD-like features such as precision numeric input, support for design via cross-section templates and output to stereo lithography systems. There's also a permanently active command line interface that can be used at any time to perform or modify functions.

Rhino provides a superb array of powerful modelling facilities. The variation on offer is stunning, particularly for creating swept surfaces and objects. Aside from the run-of-the-mill sweep tools, you can sweep using one or two curves as rails, or revolve using a

closed curve as a rail. You can also use the loft function to create a surface from a set of profile curves — great for modelling complex surfaces such as boat hulls.

With any 3D design package it takes a while to get used to the particular application's modelling conventions. But Rhino's interface is remarkably easy to use, and you feel completely at home after just a couple of hours. If you do any 3D design work, you need Rhino.

DAVID FEARON



PCW DETAILS

★★★★★

Price £586 (£499 ex VAT)

Contact Softcover 0171 259 2100

www.rhino3d.com

System Specification Pentium, Windows 95/98/NT, 10Mb disk space, 32Mb RAM.

Good Points Very powerful surface creation tools. Intuitive interface.

Bad Points None.

Conclusion Expensive, but well worth it if you're serious about your 3D.



CenturionSoft Steganos

Give snoopers a run for their money with this **data security** package.

Steganos performs a trick that seems almost magical the first time you use it. It will take any file and completely hide it within a pre-existing image or sound file. After hiding, the carrier file is exactly the same size with the same date and time attributes as before. While hiding the original file, you can encrypt it using a backdoor-less

2048-bit encryption scheme.

How does Steganos perform such a trick? For images and sounds it puts the data into the least significant bit of every word of the file, thus the data appears to be background noise. But this means you need a carrier file significantly larger than the file you're hiding: trying to put a 282Kb Access database into a 900Kb

BMP image failed. You can also use text files as carriers: Steganos simply appends coded spaces and tabs (to represent binary ones and zeroes) to the file — this is obviously less secure than using images and sounds since the file size increases.

Once you're aware of the limitations, however, Steganos works flawlessly: you can open up images and sound files containing hidden data and they

appear completely normal. You can even convert formats, so long as lossy compression schemes like JPEG aren't used. The application also provides secure file deletion with the Shredder, which overwrites the entire file with random data.

DAVID FEARON



PCW DETAILS

★★★★★

Price £34.95 (£29.74 ex VAT)

Contact POW! Distribution 01202 716726

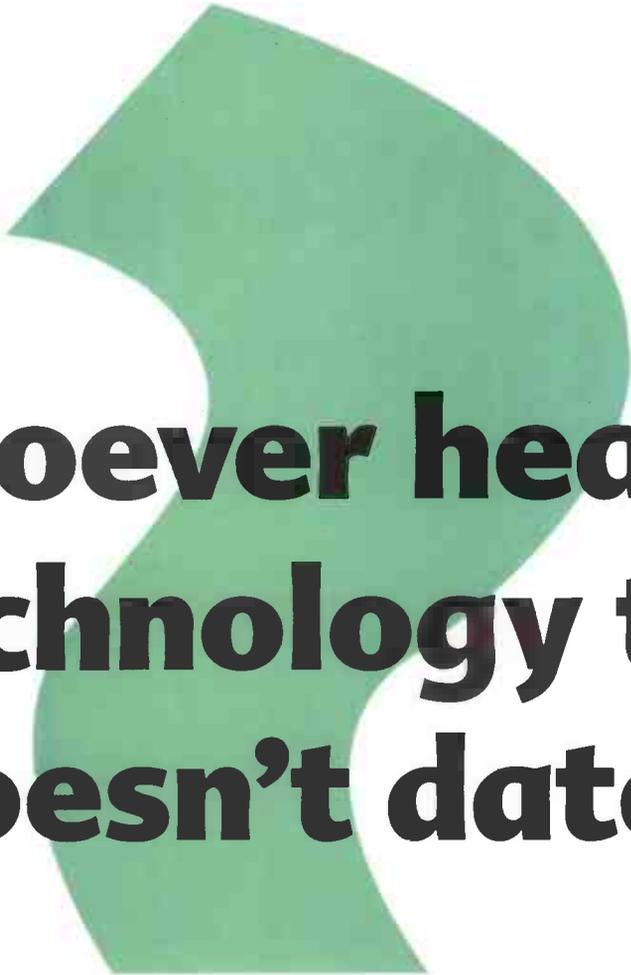
www.centurionsoft.com

System Specification Windows 95, 98 or NT4, 10Mb hard-disk space, CD-ROM drive for installation.

Good Points Very effective for hiding small amounts of data.

Bad Points Inefficient on a larger scale. Image and sound files need to be much bigger than the data you're hiding. All data security schemes carry the potential for abuse.

Conclusion One more thing for nosy governments to get stressed about — hurrah!

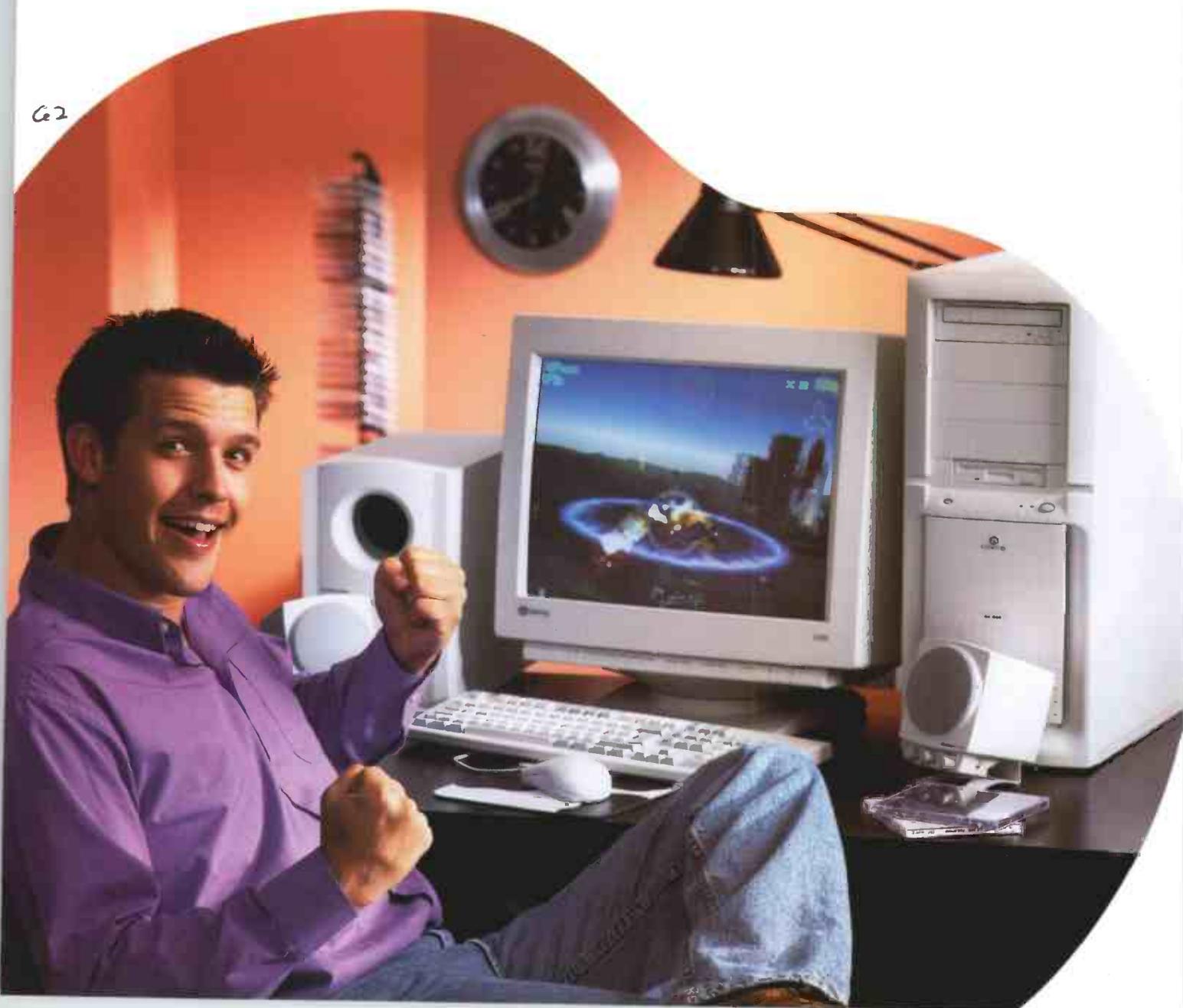


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- Telepath II V.90 Winmodem^A
- 15" EV500 TCO-95, 0.28dp Monitor[†]
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- Year 2000 Hardware Compliant[‡]

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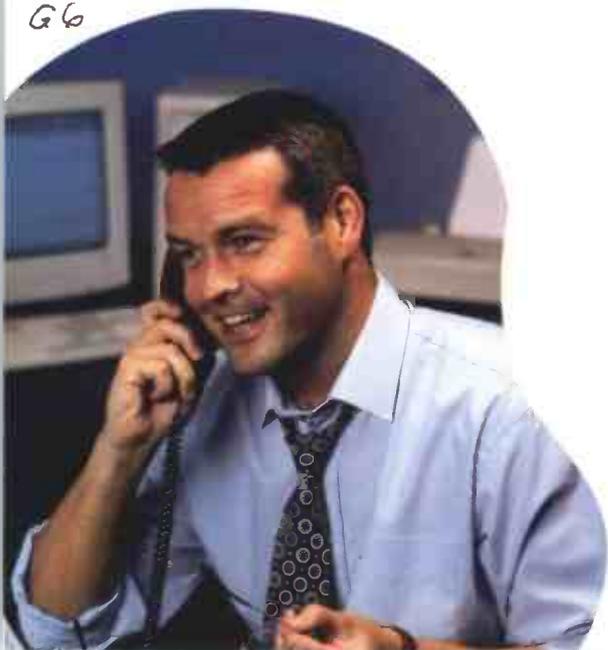
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Notebook

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Notebook

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Notebook

PC Buyers Bible 1999 Recommended

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VideoLogic SonicStorm Pro

Surround sound is the new big feature for good-time gamers.

The original SonicStorm was one of the first PCI sound cards. Sporting the Maestro chipset, this card eliminated the limitations of the ISA slot. The Pro is built around the new Maestro2 chipset, hosting a range of new features. Chief among them is surround sound using only two speakers.

While many audio cards use the A3D standard from Aural Semiconductors, the Maestro2 uses technology developed by Sensaura. This has two advantages. While A3D is a proprietary standard, Sensaura's 3D

audio implementation can be accessed through Microsoft's DirectX API, making it accessible to all games developers. Also, Sensaura's 3D audio is arguably more accurate than the better-known A3D version, mainly due to Sensaura's patented Digital Ear technology.



The SonicStorm Pro handles 64 MIDI voices in hardware and the same number of audio voices. As befitting a next-generation sound card, it has a dedicated digital SPDIF output. Unlike the SPDIF output in the SoundBlaster Live!, which is locked at 48kHz, the SonicStorm Pro has a frequency response of 44.1kHz which enables it to output CD-quality audio to a DAT

or MiniDisc. A daughtercard with an SPDIF input is also available. The SonicStorm Pro's performance is good but not exceptional. Although its MIDI synthesis is better than older cards like the AWE64 Gold, it is slower than the new SoundBlaster Live! However, its audio reproduction in games is excellent. The surround sound effect is enhanced by its ability to handle four speakers.

AJITH RAM

PCW DETAILS

★★★★★

Price £49.99 (£42.55 ex VAT)
Contact VideoLogic 01923 260511
www.videologic.com

Good Points Surround sound using two speakers. Digital output. Two stereo outputs. Very reasonable price.

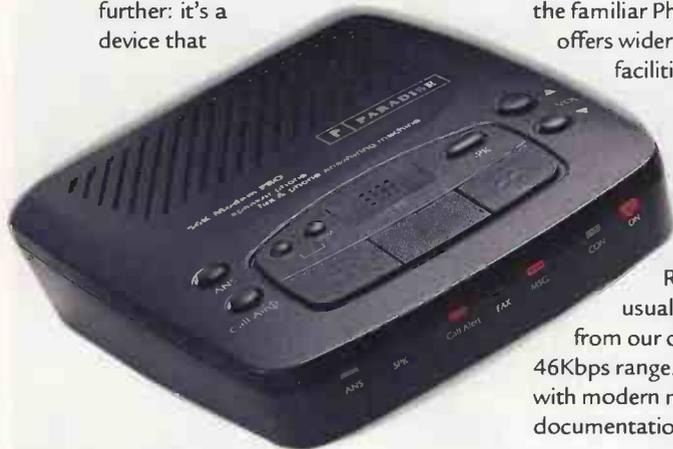
Bad Points Not the most powerful DSP for MIDI synthesis.

Conclusion A good sound card for the gamer and home-studio enthusiast.

Paradise Modem PRO

Answerphone/fax/hands-free unit with a modem to boot.

The Modem PRO follows a trend set by Olitech and Pace, among others, of providing standalone fax and answerphone capabilities without the need to be connected to a PC. It can even operate as a hands-free speakerphone. The Modem PRO takes this trend a stage further: it's a device that



actually looks like an answerphone, complete with large Play, FF and Rewind buttons, mic and speakers.

Only the basic array of status LEDs on the front panel betrays its alter-modem-ego. It can store up to 20 messages or faxes and offers the usual array of remote access options, including the ability to dial another number to forward/replay messages recorded while you were out. The PRO also comes with the familiar Phone Tools software which offers wider voicemail and fax facilities, but using a PC.

The Modem PRO is also a capable 56Kbps V.90 modem driven by the Lucent chipset rather than the ubiquitous Rockwell. It returned the usual spread of connect speeds from our office lines in the 44 to 46Kbps range. As is so often the case with modern modems, full documentation is supplied only as

an Acrobat file on the CD-ROM. A 12-page pamphlet is sufficient to take you through installation. Audio input and output sockets are provided so that you can hook up the Modem PRO to a sound card, but this probably isn't essential unless you are fussy about sound quality. Although the Modem PRO has an integrated microphone and speaker, the quality of the digitally recorded message is a bit lo-fi.

ROGER GANN

PCW DETAILS

★★★★★

Price £99.95 (£85.06 ex VAT)
Contact Eurotech Marketing
0118 981 0118 (no URL)

Good Points Cheap. Easy to use. Good answerphone features.

Bad Points Lightweight build quality.

Conclusion Given the price and the range of features it offers, with and without software, on top of its 56K functionality as a straight fax/data modem, it makes the shortlist.



Crash.



Boom.

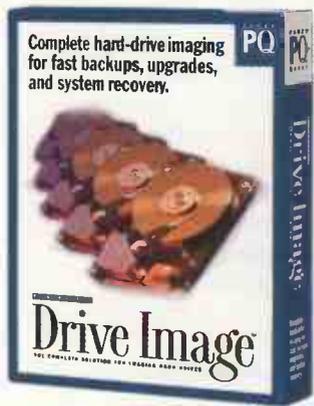


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Yamaha SW1000XG sound card

With stunning sounds and wicked synth, this card puts PC audio into the premier league.

At a glance, Yamaha's SW1000XG sound card looks much the same as any other. But once you plug it in and have a listen, well, let's just say that's where the similarities end. Without doubt it has the most impressive synthesiser yet to be integrated on a sound card, in terms of both its sound quality and WaveTable memory: there's a staggering 20Mb of ROM built in there somehow. It also provides six parallel 24-bit effects, over 70 programmable effects types and first-rate hard-disk recording facilities.

Still not impressed? You will be: there are 12 mono (or six stereo) audio playback channels that can make use of all those effects from inside your sequencing software. Better still, it is able to apply and mix these effects without hogging your system's CPU. There are two reasons why this is a positive step forward. Firstly, it will enable you to playback more audio channels if your PC isn't busy running processor-intensive software-based plug-in effects; and secondly, it could just save you from having to upgrade your PC to run such effects.

The synthesiser is equivalent to Yamaha's flagship XG tone module, the MU100.

Although similarly priced, the SW1000XG is capable of far more and can easily integrate with your current setup. Mixer templates are supplied for the main sequencing packages and XGEdit now fully supports all the card's features. The synth provides 64 voices of polyphony over 32 MIDI channels and is equipped with over 1,200 instruments and 46 drum kits.

... provides first-rate hard-disk recording facilities

All the sounds from the highly successful DB50XG WaveTable daughterboard are present and even those from the MU90 are included. As you might expect, though, they sound far more vibrant



playing from the SW1000XG.

The on-board effects can be configured as auxiliary or insert-type processors and include a comprehensive set of reverbs (12 types), choruses (14 types), delays and dynamic processors. In addition to compression and noise gate algorithms, the card provides a fully parametric EQ, distortion, tremolo, phasing and an aural exciter.

Much of the card's wizardry is performed by Yamaha's custom Digital Signal Processing chip, the DSP3. This can be programmed for many intensive audio tasks and has already featured in Yamaha's professional O2R and O3D digital mixing consoles.

Round the back, the card has RCA connectors for analogue and S/PDIF digital outputs, a mini-stereo jack for external input and a PS/2-type socket for MIDI. A cable is included in the box for MIDI input and output, though disappointingly there's no S/PDIF input. Internally, the card can

be linked to Yamaha's DSP Factory [see *Reviews*, PCW Dec '98] or optional PLG100 daughtercards. Three cards are available so far, which include two additional Yamaha synths, the DX7 and VL70m, and a three-part vocal harmoniser. Similar to the effects

on-board the SW1000XG, the harmoniser can be accessed via the external input or from within your audio software. Because the SW1000XG is a PCI card, it will work with a Mac or PC.

The card we reviewed was supplied with MME drivers for Windows 95 and 98, although by the time you read this, ASIO drivers will be available for both platforms. DirectX drivers are also in the pipeline. As expected, the card installed effortlessly under a plug-and-play configuration and was up and running within minutes.

When Yamaha released the DB50XG, it set new standards for PC audio that left most sound-card manufacturers quaking in their boots. Going on what we've seen and heard, the SW1000XG is likely to have a similar effect. Although it's too expensive to be an option for everyone, for those who want to run a virtual studio inside their PC, with loads of effects, it's well worth the asking price. It's a shame about that digital input, though.

STEVEN HELSTRIP

PCW DETAILS

★★★★★

Price £449 (£382 ex VAT)

Contact Yamaha 01908 369269

www.yamaha.co.uk

System Specification PC: Windows 95/98, 166MHz Pentium, 32Mb RAM. Mac: Any PowerPC, System 7.6.1, 32Mb RAM.

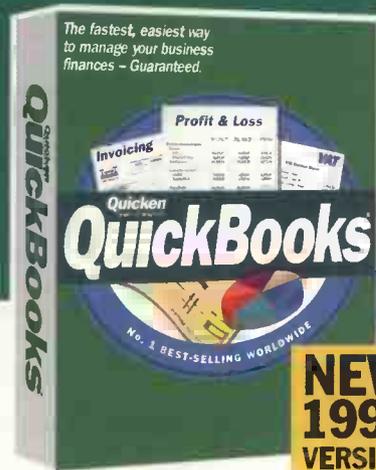
Good Points Stunning XG sounds. High-quality effects. Doesn't require a heavyweight PC or Mac.

Bad Points No S/PDIF input. No sampling capabilities.

Conclusion This card will transform your PC into a self-contained, professional audio production studio.



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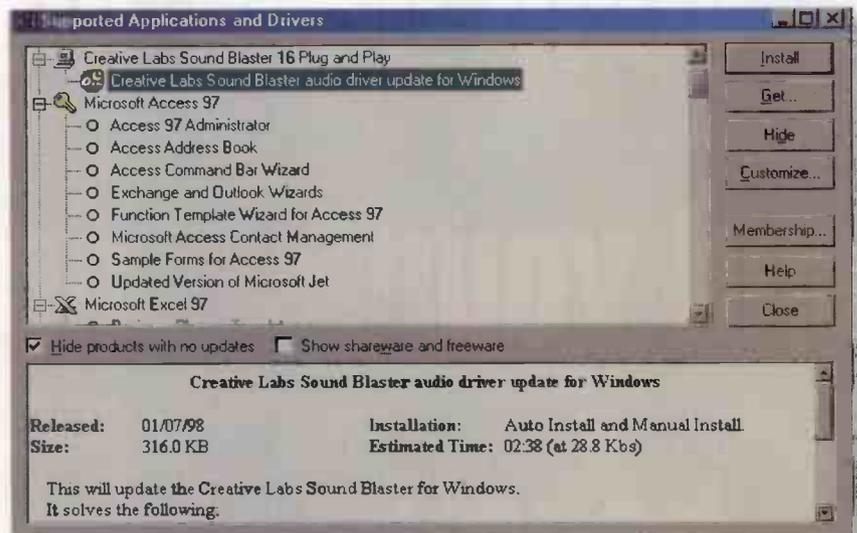
McAfee Office Application collection

Not a bad package, but **choose two or three** — you probably won't want them all.

McAfee hasn't gone mad and started trying to muscle in on Microsoft's territory. Office is a 'best of' compilation of nine previously released utilities: Oil Change, VirusScan, Nuts & Bolts 98, Hurricane, UnInstaller, First Aid 98, Guard Dog, PGP Personal Privacy and 2000 Toolbox. The disparate nature of the collection becomes obvious on installation. Each application has its own install routine, which means sitting through the whole InstallShield rigmarole for each one you want to load.

The quality of the applications varies. There's no doubt that VirusScan is an excellent anti-virus system. This is particularly true now that McAfee has acquired Norton's anti-virus technology and will be incorporating the Norton Antivirus engine into VirusScan with future engine updates. Hurricane is a collection of cacheing utilities that aims to increase the speed of operations such as bootup and application launch.

The most impressive part, the application Launch Rocket, is also incorporated into Nuts & Bolts and this halved the startup time for the applications with which we tried it. PGP Personal Privacy is also well worth having if you need encryption. McAfee has managed to sidestep the United States Government's restrictions on the export of encryption technology, supplying the



full 128-bit encryption engine rather than the less secure 40-bit version that Bill Clinton would prefer you to have.

Other components of the package are not so useful. First Aid 98 is aimed at solving beginners' PC problems. It is a fluffy user interface that bends over backwards to avoid nasty technical details — but nasty technical details are a fact of PC life. Particularly daft are the tutorial animations that tell you how to do basic tasks: they're hopelessly general and convey nothing that you couldn't find with a short perusal of your own system manuals. The tutorial on how to clean your inkjet printer advises: 'You should clean your inkjet printer every time you change the toner cartridge'!

Oil Change is an interesting concept for a utility. It scans your system for the hardware and software it recognises, using a downloaded list for reference. It then searches the web for updates, patches and drivers and presents the user with a list of what it finds. The results weren't phenomenal. It failed to bring to light the fact that there were newer drivers for the STB graphics card in the test system, and it also didn't notice that there were newer VirusScan definition files available than the ones supplied.

But on the plus side, it came up with a very comprehensive list of updates and add-ons for Office 97 as well as recognising that the SoundBlaster card in the system was in need of new drivers.

The problem with supplying this many standalone utility packages in one bundle is that many of the features are replicated. First Aid, for instance, has its own virus scanner despite the inclusion of VirusScan, and Nuts & Bolts has a Year 2000 diagnostic even though there's a utility to do just that in the shape of 2000 Toolbox. Guard Dog is aimed at stopping malicious ActiveX components and Java applets downloaded from the web, but VirusScan claims to do the same thing. At least McAfee Office gives you the choice. It's not the best-integrated package, and we wouldn't recommend installing all of the components at once — doing so just about brought the PII-266 test system with 128Mb RAM to its knees. But if there are two or more applications in the collection that take your fancy, it provides decent value for money over separate purchases.

▲ OIL CHANGE DOES ITS BEST TO KEEP YOUR SYSTEM UP TO DATE

It [McAfee Office] provides decent value for money over separate purchases

DAVID FEARON

PCW DETAILS



Price £69.95 (£59.53 ex VAT)

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www.mcafee.com

System Specification 486 (Pentium recommended), Windows 95/98, 16Mb RAM, CD-ROM drive, around 150Mb drive space to install all components.

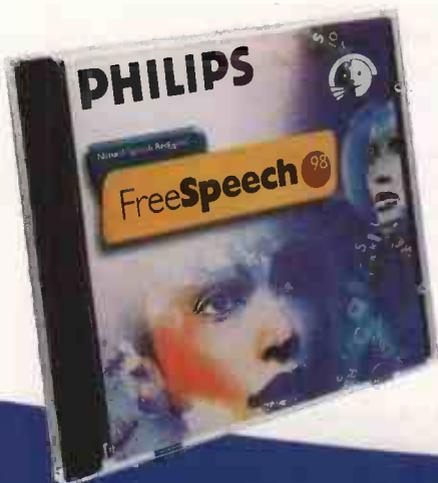
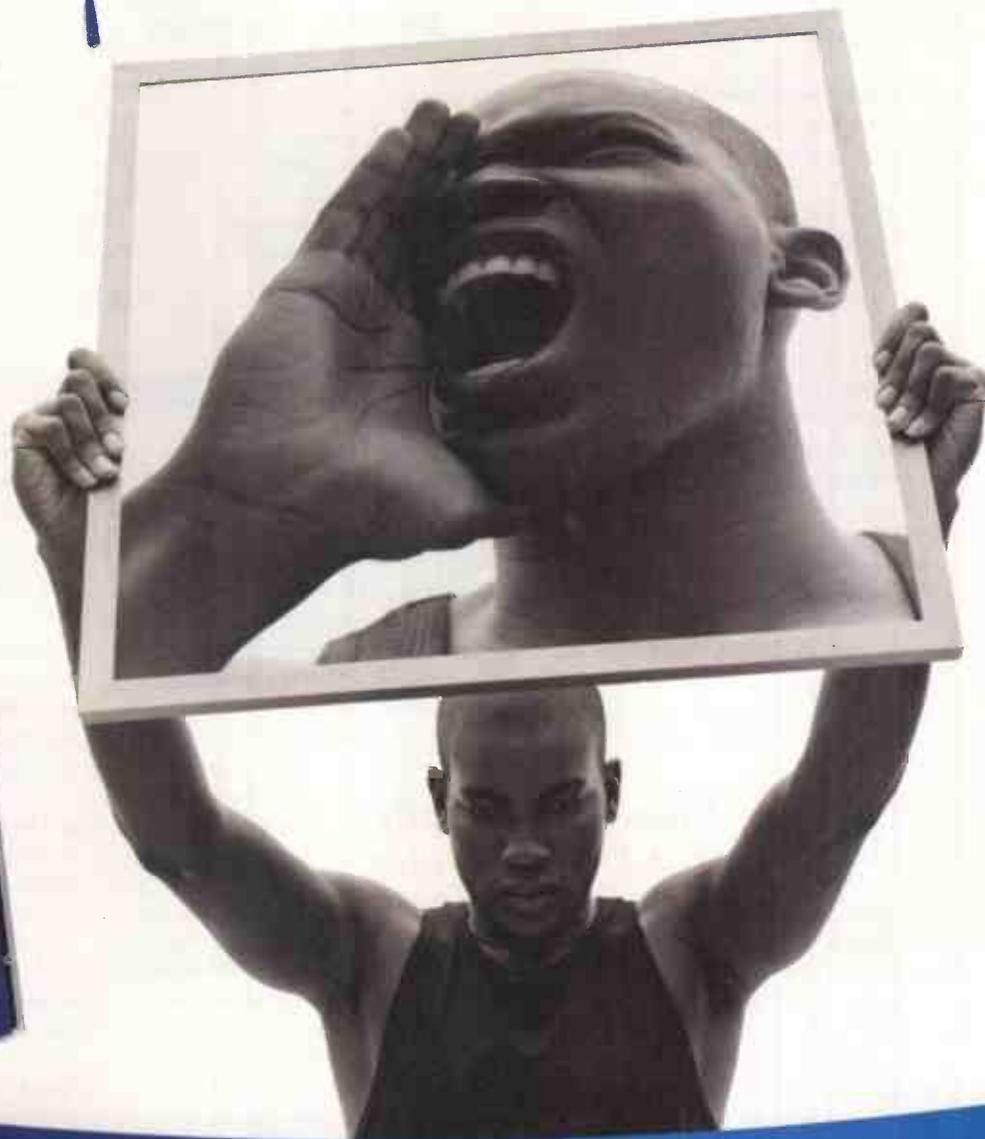
Good Points Good virus scanner and 128-bit PGP encryption.

Bad Points Very poorly integrated: application features overlap.

Conclusion Not a great bundle, but a good one.



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PHILIPS

Let's make things better.

Accounts package vs spreadsheet working

What's the best way to handle your **personal finances**? We compare two alternatives.

If you've decided to put your personal finances in order, what sort of software could help you best — a specialised, comprehensive home accounts package, or a spreadsheet?

➤ The case for spreadsheets

Obviously, Marks & Spencer or the Ford Motor Company are not going to keep their accounts on a spreadsheet. But there is every good reason for the family or self-employed person to do so. That was why spreadsheets were invented.

Excel 97, Lotus 1-2-3 97 and Corel Quattro Pro 8 may have charting, mapping and web-page facilities, but the root concept is based on the bookkeeper's worksheet. You enter the figures for the various accounts and then add them up. If you have one of these spreadsheets now, there is nothing else to buy. 'But I don't know anything about bookkeeping,' you may say. In which case you would probably be no better off with an accounts package because you would have to learn its vocabulary anyway.

To help you get started, you have a number of choices which include:

the use of a template [Fig 1]; asking your accountant what they need from you; or you could buy one of many

inexpensive paperbacks on the subject.

The beauty of a spreadsheet is that if you currently have some kind of manual system, you can enter it the way it is. With a home accounts package you would have to run the two systems together until you were confident that you knew how to correct errors, add or delete accounts, make adjustments and print the reports you need.

With a spreadsheet you can design your own system, tailored to your own circumstances. If you're self-employed, say, you can avoid maintaining two sets

Money 99 is really a jack-of-all-trades and master of none

of books and entering many items twice. If you work from home, you'll pay one electricity bill but may be entitled to charge a percentage of it to your business. You can probably split your expenses for fares or petrol.

Some people prefer to set up a budget against which they continuously compare their expenses. Some like to compare this year's monthly average for each expense item with the average for previous years. It can confuse some accounts packages if you record your home as an asset

but don't have a mortgage. Other people would like a separate worksheet on which to record progress of a complicated debt reduction program.

You may not wish to record every expense, counting only cheques and giving yourself a lump sum for petty cash each week, or month. But if you use PC banking, you may seldom write cheques. Many people use telephone banking. Some professionals record income when they send out an invoice; others don't record it as actual income until the cheque has cleared.

To make it easier for themselves to

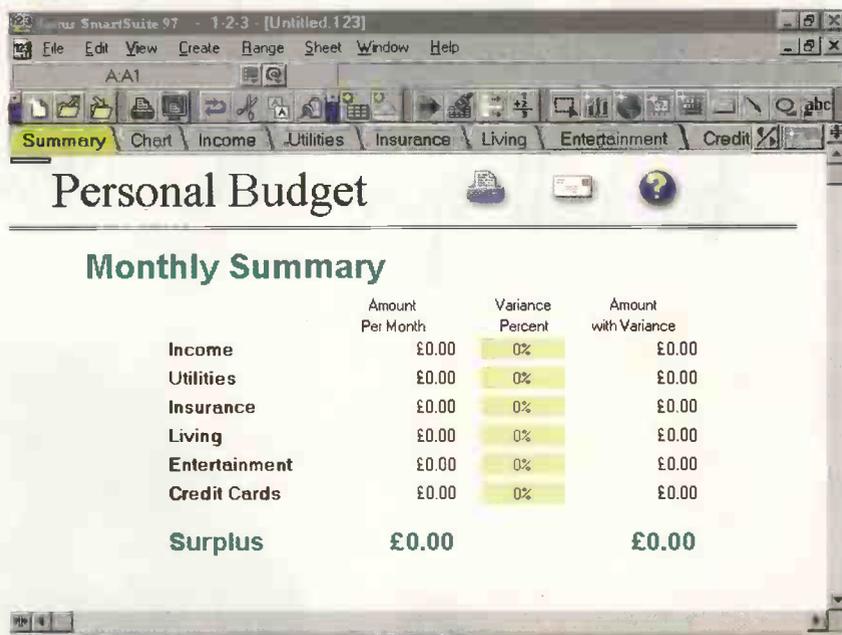
keep track of credits and debits, all accounting packages specify groups of accounts which cannot be changed. If you design your own system, you can group your accounts how you like.

➤ The case for accounts packages

'Useful, huh?' comments the audio tip following an American script but read by a soothing nanny-figure with a plummy English voice.

Money 99's full-featured version, known as Financial Suite, has tried its darndest to look English. Colour is not spelt 'color' and cheque is not spelt 'check'. But its very pizzazz gives it away and the examples list the 'gas station' and the 'Springfield Diner'. The net worth statement is mixed: in the US, the most liquid assets are listed first, but in the UK the least liquid are traditionally listed first. Money 99 lists them at random.

There is no need to load the whole kit and caboodle, which takes 120Mb of hard-disk space, as all the 'movies' —



▲ **FIG 1** YOU DON'T HAVE TO START FROM SCRATCH WITH A SPREADSHEET. LOTUS 1-2-3 97 PROVIDES THIS EXCELLENT PERSONAL BUDGETTING TEMPLATE WITH DIFFERENT CATEGORIES GROUPED ON SEPARATE WORKSHEETS

ACCOUNTING ON A SPREADSHEET

Each of the three leading spreadsheets offers tools, built-in formulas and macros to help you create an accounting system. Here are some of the helpful features of Excel 97.

The first 12 worksheets in a typical accounting workbook could each hold all income and outgoings for one month of the year. There might be other pages for direct debits, new inventory items and so on, but the last page, so you can jump to it easily, would be a summary for the year.

Outlines. Using the built-in outlining macro for one summary worksheet [Fig 2] you can instantly see your expenses monthly, quarterly or annually. Clicking outline + and - symbols, or numbers, instantly unfolds or condenses the time frame. Similarly, going down the rows, you can automatically display only subtotals for income and expenses, and then sub-subtotals for groups like personal expenses, home, car, or display every row which gives all the details.

'Names' can save a lot of work. Say the annual total to date for each item is in column R. Column S has

the running monthly average with the starting formula R2/Months. Cell S2 is dragged down the column. By simply changing the definition of Months from 1 through to 12 during the year, you can update all the formulas at once.

Comments in a cell can remind you of what an unusual expense or income item was for. A little red triangle in a cell acts as a flag. Point at that cell and the comment is displayed.

'Fixed decimal' lets you make lots of entries in pence without first entering the decimal point. Alternatively, you can set that box to -3 and thousands are added automatically. Enter '123' and display 123,000.00.

Automatic rounding. Formatting a cell may only display the contents to two decimals, but there may be many decimal places stored. This can create the

| | A | B | C | D | E | F | G |
|----|-------------|-------|-------|-------|---------|-------|--------|
| 1 | 1998 | Jan | Feb | Mar | 1st Qtr | Apr | May |
| 20 | Council Tax | - | - | - | - | - | 237.61 |
| 21 | Electricity | - | - | 52.33 | 52.33 | - | - |
| 22 | Gas | 26.50 | 26.50 | 19.00 | 72.00 | 19.00 | 19.00 |
| 23 | Insurance | - | - | - | - | - | 141.00 |

| | A | E | I | M | R | S | |
|----|-------------|---------|---------|---------|---------|------------|-----------------|
| 1 | 1998 | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr | Year Total | Monthly Average |
| 20 | Council Tax | - | 237.61 | - | 238.00 | 475.61 | 43.24 |
| 21 | Electricity | 52.33 | 42.60 | 35.21 | - | 130.04 | 11.82 |
| 22 | Gas | 72.00 | 57.00 | 57.00 | 38.00 | 224.00 | 20.36 |
| 23 | Insurance | - | 141.00 | - | - | 141.00 | 12.82 |

▲ Fig 2 USING ONE EXCEL WORKSHEET, THE TOP WINDOW SHOWS THE MONTHLY DETAILS, THE BOTTOM WINDOW SHOWS QUARTERS, THE YEAR'S TOTAL AND MONTHLY AVERAGES

anomaly of totals not equalling each other when they should. But choose Tools, Options, Calculation, Precision As Displayed, and only the pounds and pence will be stored.

3D formulas. It's easy to total individual cells across a number of worksheets. If medical expenses are in cell AH9 on each of the monthly worksheets, you can total them in any cell with the formula =SUM('January Expenses: December Expenses'!AH9).

Hyperlinks. You can make a link on a sheet to a particular note or cell

anywhere in the file. Enter Last year's taxes in a cell, click on the hyperlink tool, browse for the right cell, click OK. The entry turns blue to indicate it is active.

Page design. Printing reports is simplified by the extensive options in the Page setup macro. You can set margins by entering dimensions or dragging margin lines. Excel will automatically centre a sheet on a page if you wish, and even magically shrink it to fit.

tutorial macros with dialogue — and audio tips will run from the CD-ROM, as will the many articles on, and worksheets for, recording taxes, pensions, insurance and home inventory.

The advantage of an accounts package is that it is a relational database management program. A spreadsheet can hold several lists but it can never be more than a flat-file database. An Excel PivotTable can display one list of your expenses and income in various ways, but it would be a Herculean task to try

and duplicate the power of a database like Access. Money 99 is like a specialised application running in Access. You can see reports in countless ways [Fig 3].

You start a report by picking the categories to be included, which might be all of them, or just car expenses, or a combination of holidays and meals out. Then you pick a period which might be the past month or quarter, year, or even odd dates like April 15 to June 30. You can even choose to see who received your money within those definitions, like Hilton Hotels, Boots the chemists

and Shell oil. And you can see the information as a listed report, a bar chart, a line graph or pie chart.

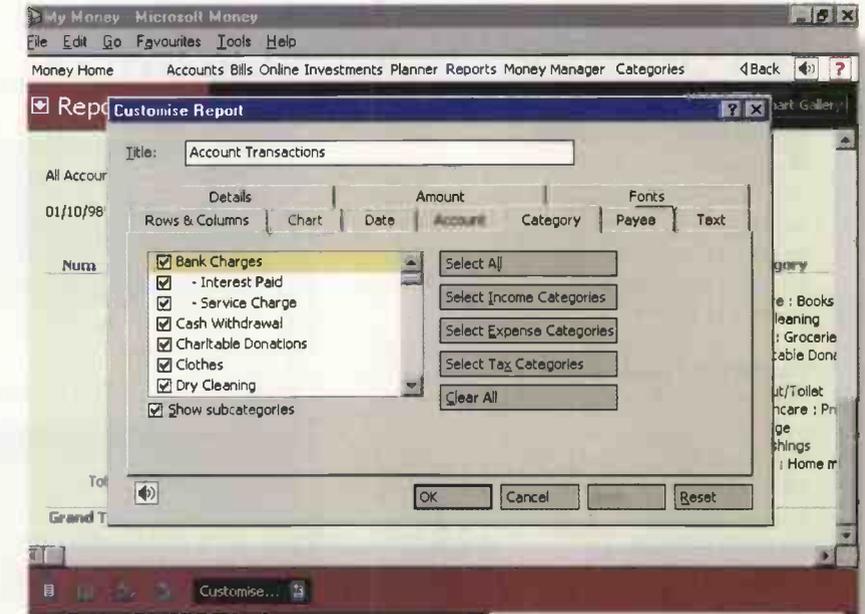
Once set up for it, you can go online and download a bank statement. With Money 97, this was just with Barclays. Then, with Money 98, the Nationwide was added. Now, Money 99 adds several more banks and the ability to extend as soon as the institutions are ready for it. But for more interactive services, you're better served by each bank's own software. With Barclays own PC Banking

Software, for instance, you can see cleared balances in real time, arrange recurring fund transfers and request loans and overdrafts.

Money 99 gives you a lot of likely results for calculating a mortgage but qualifies them all by giving the phone number to ascertain the names of Independent Financial Advisors in your area. It doesn't say whether your monthly payments are figured to be credited monthly (as in the US) or annually (as has often been the case in the UK).

The same applies to planning a retirement income. And the tax estimator does have a current figure for a personal deduction but precedes the whole exercise by pointing you to a 'tax professional' or the Inland Revenue — you would do better to order the Inland Revenue's free EVR (Electronic Version of the Self-Assessment Tax Return).

The investment tracker is also a disappointment. You can enter your holdings and go online to check the current value of your portfolio, but three of the four stock markets on which it reports are in New York. In London, it only offers the FTSE 100 so the majority of shares are not listed. On connection, however, it does update currencies and overall indices, plus some mortgage and interest rates and financial news. There are many sources of current stock data on the web and Excel is the standard software for accessing it. Just choose Data, Run Web Query and choose a built-in template for downloading.



▲ FIG 3 MONEY 99'S BEST FEATURE IS ITS CHOICE OF REPORTS — BY CATEGORY OR PAYEE, AND THE MULTIPLICITY OF TIME PERIODS. FORMATTING IN THIS SECTION IS ALSO VERY FLEXIBLE

Money 99 includes a Household Inventory template but if you have MS Access, which is included in the Office 97 Professional suite — or Lotus Approach, in SmartSuite 97 — you'll find that their equivalent templates are far superior.

Money 99 helpfully adds an icon to your Taskbar which will indicate whether or not Money is running, whether bills are due, or past due to be paid. Providing you are within the set time for a lengthy reminder (say, 30 days before a bill is due) this works very well. And, you can start Money from that icon.

The supplemental invoicing module could be useful if you're self-employed. It is integrated with the Sales Ledger so

that when you issue an invoice, it is automatically recorded in the ledger. If you are patient you can also eventually have the Sales Ledger balance show up as an asset in your 'net worth' statement. The problem is, unlike Money's other reports, you cannot edit its template. Both the font sizes and field sizes are too small and inappropriate for a service business (i.e. the majority of self-employment). So, you will need to create an invoice in Money to get it into the Sales Ledger and then create one in, say, Word or Excel for the customer. The invoice template provided with Excel is far more flexible. Oddly, Money 99 provides no equivalent Purchase Order, but Excel does.

Money 99 is really a jack-of-all-trades and master of none. But it is interactive with Microsoft's Money home page so later improvements can be made whenever you connect. And, if you have never set up a spreadsheet workbook for recording your income and expenses, and much prefer convenience foods to your own home cooking, you'll like Money 99 or its main competitor, Quicken 98, which includes QuickTax 98 and runs under MS Internet Explorer.

The fact is, spreadsheets were originally invented for keeping accounts, and for the individual or very small business they are the best solution still.

STEPHEN WELLS

WHICH SOFTWARE TO USE?

→ Spreadsheets

- ✓ Great if you're used to working with old-fashioned paper ledgers.
- ✓ Many spreadsheets include web creation facilities. Accounts packages don't.
- ✓ Almost everyone has a spreadsheet. Save your money and stick with it.
- ✗ If you're thinking of setting up your accounts on a spreadsheet, you'll have to design your own

accounting tables. An accounts package takes care of it for you.

→ Accounts packages

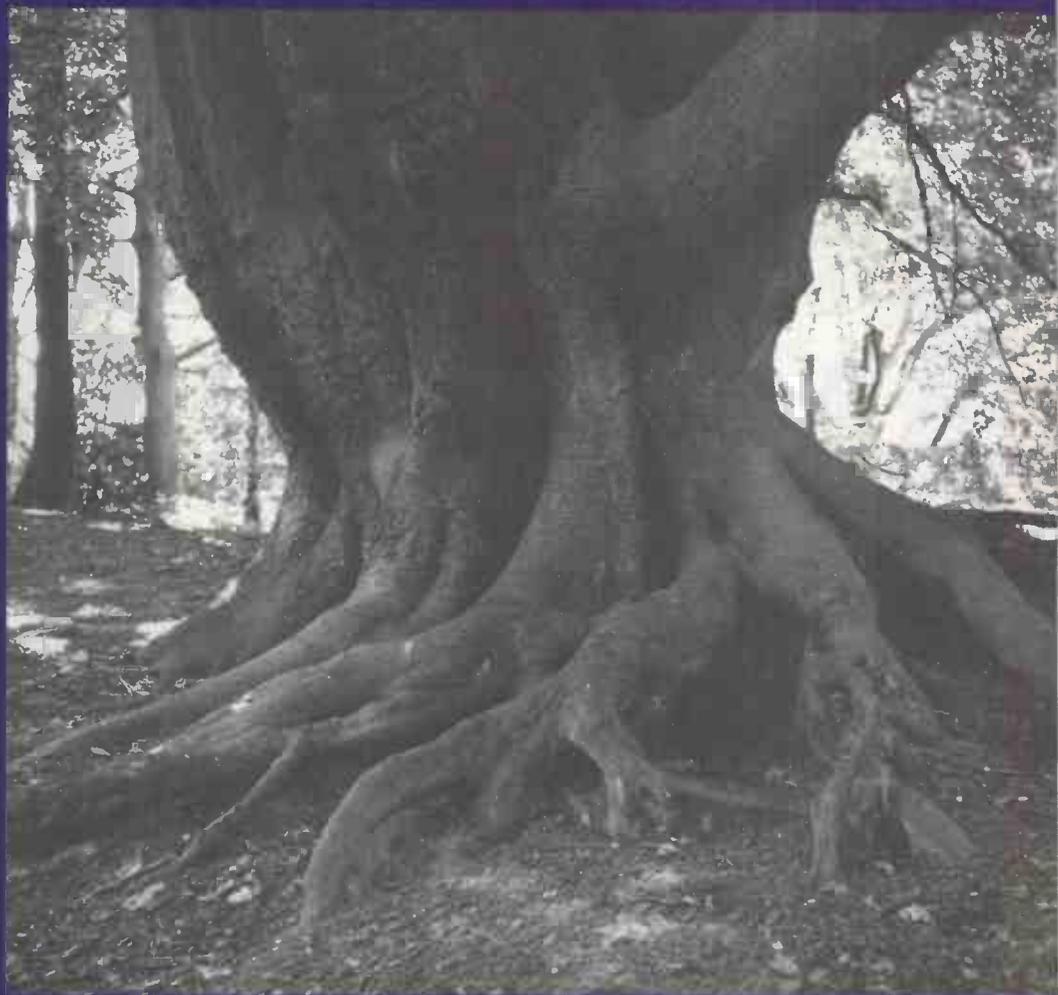
- ✓ Install and go. It's ready to start working from day one.
- ✓ Some packages can connect directly to online banking facilities.
- ✓ You can't beat an accounts package when it comes to comparing various aspects of your finances.

✓ A spreadsheet is all-encompassing but an accounts package is specific.

- ✓ Accounts packages often include supplementary utilities so your accounts are more likely to be relevant to the way you live.
- ✗ You have to use the system set up by the programmer — no free reign to choose your own as there would be with a spreadsheet.

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This year sees the **tenth anniversary of the world wide web**, and its creator, **Tim Berners-Lee**, admits that his original intention has not quite been realised. Rather fittingly, Michael Hewitt conducts an interview by email with the man who gave birth to the information superhighway.

Man of the world

Who is **Tim Berners-Lee**? **many of you are no doubt asking.** Well, you've heard of the world wide web? Berners-

Lee invented it in 1989. Consequently, techies are usually full of gushing admiration for him. For instance, Eric Schmidt, chief technical officer of Sun Microsystems, says, 'If this were a traditional science, Berners-Lee would win the Nobel Prize. What he's done is that significant.' MIT's Michael Dertouzos says that Berners-Lee embodies the 'libertarian idealism' of the internet culture. Whatever that is.

Unfortunately, Berners-Lee himself doesn't say much at all. Then again, if I'd invented something that now seems to serve primarily as a conduit for girlie .gifs and which risks grinding to an embarrassing halt every other day, I'd maybe keep quiet about it, too. As such, what follows is not actually an interview proper; instead, it's his response to a set of emailed questions I sent — rather apt, I suppose.

MH: *Why did you call it the world wide web? That suggests something radiating from a central point. Wouldn't 'grid' have been a better description in the sense of, say, the electricity grid, where if one part gets knocked out, they can re-route?*

TBL: 'Web' mathematically doesn't have a central point; it can be just any directed graph. A 'grid' for me implies strict order along two axes — just ways of filing things from which the web allows you to escape.

MH: *OK, let's go back to the very beginning. Childhood, education, that sort of thing.*

TBL: My parents are both mathematicians. They met while working on the Ferranti Mark I, the first computer sold commercially. My mother has been dubbed the 'first commercial computer programmer' as she went with the machine when it was installed on the customer site. So we played with five-hole paper tape and learnt to enjoy mathematics wherever it cropped up. Later on, my hobby was electronics. When I left school, obviously I was going to do something in either maths, science or engineering. My school, Emanuel, was programmed to send people to

Oxford, where the subjects are very narrow. I took physics, thinking it would be a sort of compromise between maths and electronics, theory and practice. It turned out not to be that but something special and wonderful in itself. Physics was fun and a good preparation for creating a global system. In physics, you learn to think up some simple mathematical rule on a microscopic scale which, when scaled, will explain the macroscopic behaviour. On the net, we try to dream up computer protocols which, when extrapolated to the macroscopic, produce an information space with properties we'd like.

MH: *Any particular Road to Damascus experience?*

TBL: No, I just enjoyed science and it went on from there.

MH: *After leaving university you founded a company called Image Computer Systems, and then you were principal engineer with Plessey. What then took you to CERN, in Switzerland?*

TBL: I went there in 1980 as a contract programmer and I played with programs to store information with random links. In 1989, while working at the European Particle Physics Laboratory, I proposed that a global hypertext space be created in which any network-accessible information could be referred to by a single 'Universal Document Identifier'. Given the go-ahead to experiment, in 1990 I wrote a program called 'WorldWideWeb', a point-and-click hypertext editor which ran on the NeXT machine. This, together with the first web server, I released to the High Energy Physics community at first, and then to the hypertext and NeXT communities in the summer of 1991.

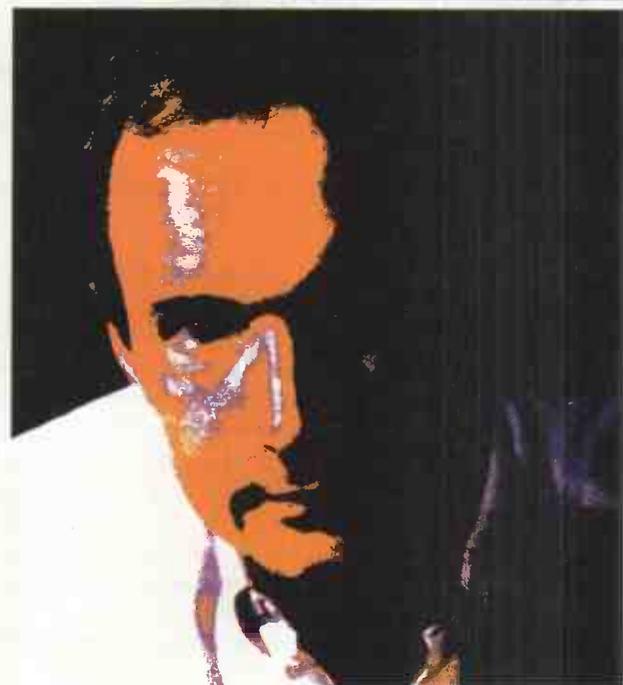
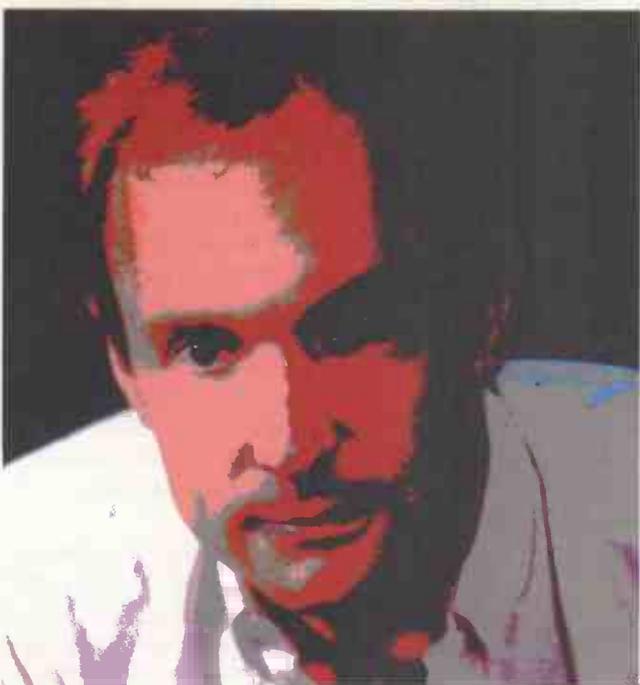
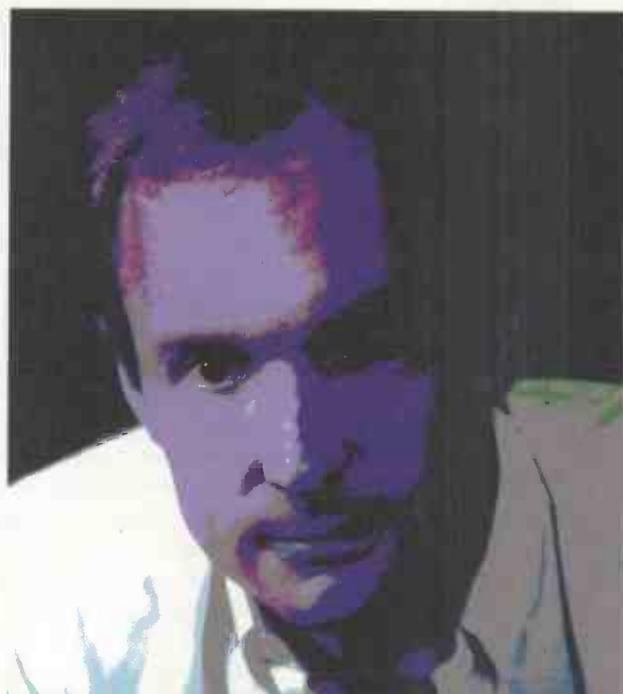
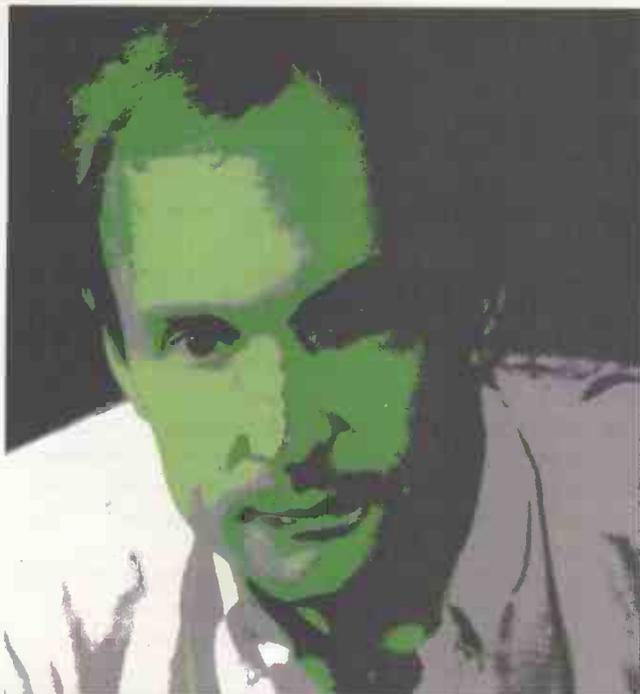
MH: *Do you ever get irritated when people describe the world wide web as the 'information superhighway' when, in practical terms, it's more like an information B-road? Do you, say, ever experience internet rage because of the delays and give the system a good kicking? Or would that be too much like kicking one of your own children.*

TBL: Children and computers are quite different.

MH: *So, no speed problems?*

TBL: I don't have any myself. But from your insistence I assume this is a UK-specific problem. Maybe with UK-US connections? It can be solved.

MH: *How?*



TBL: Someone has to buy more cable. I think the first thing is for some enterprising magazine (hint!) to take a large selection of ISPs and find out how they route their packets and where the bottlenecks lie. The result might make an interesting comparative list of ISPs. Or, you might find that all ISPs suffer overloads. A more constructive thing is to change your ISP to one which not only has 56K modems but also has them connected to something meaningful. The more technically orientated amongst you might run 'trace-route' tests to find out whose fault it is that your packets aren't getting through. You could also lobby your government to set up a telecommunications industry on the assumption

that every home should have a cheap, permanent internet connection along with domestic utilities.

MH: Apparently, you hardly spend any time simply browsing the net yourself. Why is this?

TBL: I spend much of my working time using the web, as the W3C team uses it as its place of work. I don't surf for recreation. I use the web to achieve things. I get my quota of discoveries from the things people mail me which they have found.

MH: What's W3C?

TBL: The World Wide Web Consortium. Between the summers of 1991 and 1994 the load on the first web server [info.cern.ch] rose steadily by a factor of ten every year. In 1992/93, first academia and then industry were taking notice. ➤

▲ THE MANY FACES OF TIM BERNERS-LEE, FOUNDER OF THE WORLD WIDE WEB AND LATTERLY W3C. HE'S STILL CHASING HIS 'ORIGINAL DREAM'

I was under pressure to define the future evolution. After much discussion I decided to form W3C in September '94, with a base at MIT in the USA, INRIA in France, and now also at Keio University in Japan. There has always been competition to come out with the best web technology. This has followed from the fact that the standards, being open, allow anyone to experiment with new extensions. This produces the threat of fragmentation into many webs and that threat brings companies to the W3C to seek agreement on how to go forward together. The Consortium is a neutral, open forum to discuss and agree on new common computer protocols.

MH: *Shouldn't W3C consider setting up the equivalent of a standards committee to grade material that's on the net? At the moment, 99 percent of it is garbage. Some sort of kite mark is surely required to grade sites. Then, perhaps, people could set up their browsers only to accept sites which have that kite mark. Or is this something W3C is working on?*

TBL: What constitutes 'junk' is subjective. Yes, we have a lot of common understanding about what

'Censorship, whether it is by government or ISPs, IS AN AFFRONT TO HUMAN RIGHTS AND SHOULD BE FOUGHT by all those of good will'

is junk, but there are different criteria. It would be awful to have one central body assigning 'quality' kite marks to material — this would not be in the spirit of the web at all. Nevertheless, it would be great for bodies to set up their own endorsement systems. W3C has designed technology which allows these endorsements to be encoded and transmitted. There isn't a social system at the moment for paying for this work, but it will have to come. Then, you will select as you browse, or search, which endorsement systems you want to use.

MH: *Where do you stand on censorship of material on the internet?*

TBL: Censorship, whether it is by government or ISPs, is an affront to human rights and should be fought by all those of good will. This doesn't mean that all communication is good communication. Things like libel and child pornography are illegal whatever the medium — if it's illegal on paper it's illegal on the web. I also think parents have a duty to select material for their children just as they help them select books. But that's something which should be left to parents, not governments.

MH: *Does it irritate you that the internet has become a major conduit for junk mail and porn?*

TBL: The web and mail are distinct. On the web, you only browse what you want to see. If you find yourself reading junk, consider where you found

the link and don't trust it again. So if you are browsing web sites with junk or porn, that's your choice, your problem. Email spam is a separate problem. I don't know the solution.

MH: *How many junk emails do you get each day? You're probably in a better position than most to get back at the spammers; are you ever tempted?*

TBL: I don't know how many. I have good filters and only one or two slip past. It's very difficult to get back at spammers. Yes, I am tempted, but I have no magic method. But for those reading this, then you're hereby notified that I charge a \$50 handling fee for spam!

MH: *You decided to make the world wide web an open system so as not to impose constraints on its expansion. Do you ever wish you'd arranged things whereby you now got a percentage on, say, every internet commercial transaction?*

TBL: Nope. It would never have taken off if I had.

MH: *Does the internet risk polarising society — the world, even — into the 'information rich' and the 'information poor'?*

TBL: Yes. This is a serious concern. The wealth gap is a concern in many ways, and just one is the way in which the internet can accelerate the difference.

MH: *And what are the risks of not jumping on-board the internet bandwagon?*

TBL: If your connectivity is as

bad as it sounds, you won't have long to wait to find out! The answer, though, is that the main risk for an economy which *doesn't* make use of the net is that it will move more slowly and not compete with the one that is actually working, rather than sitting waiting for its mail to arrive.

MH: *You're quoted as saying of the world wide web that 'There are many parts of the original dream which are not yet implemented.' For example?...*

TBL: An intuitive collaborative environment, in which people interact through a common world of shared knowledge. The web data should be arranged in a way that allows programs to analyse what's going on, and therefore lets computers help us manage ourselves.

MH: *When you're reading a newspaper, or travelling and you see the proliferation of web addresses in advertisements and so forth, do you ever get a feeling of pride and think, 'All this is down to me'?*

TBL: No. There have been a huge number of people all working together.

MH: *Where do you call 'home' these days?*

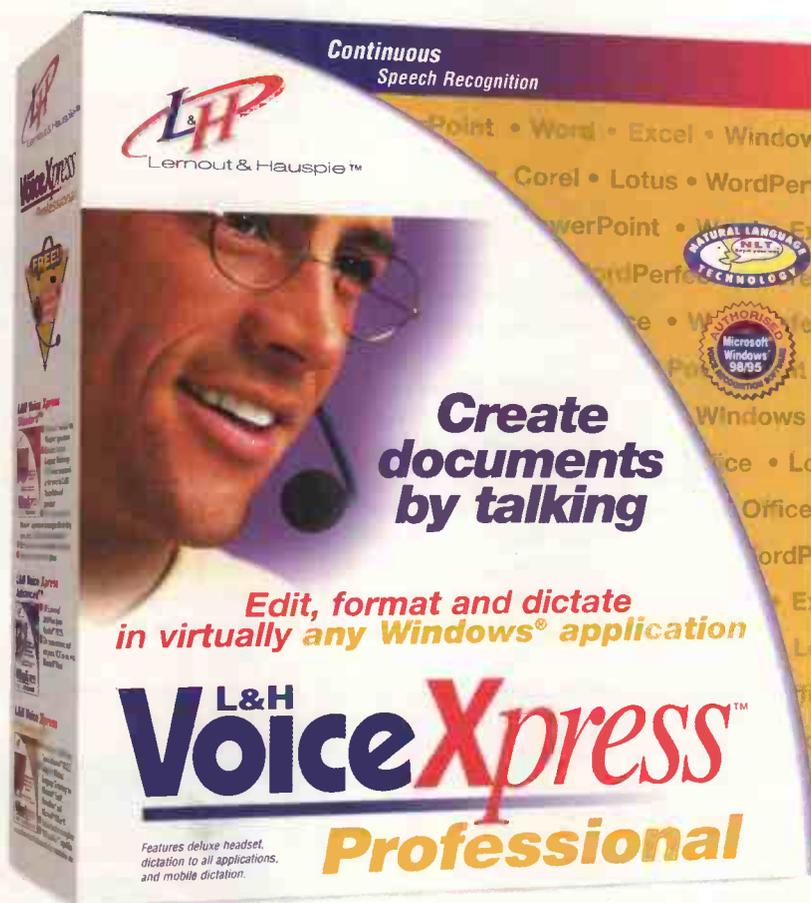
TBL: I live in the United States. I like many aspects of it but am quite nostalgic for the UK. I also miss France and Switzerland, where I lived for ten years.

MH: *If you could travel back to 1990, what, if anything, would you do differently?*

TBL: I would make <http://www.w3.org/TR> be written as <http://org/w3/TR>, instead. □

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Germ warfare

GEOF WHEELWRIGHT INVESTIGATES THE DARK WORLD OF COMPUTER VIRUSES, **ELEGANTLY DESIGNED PROGRAMS** WITH A STING IN THE TAIL.

Your computer is acting strangely. It doesn't recognise your floppy drive, data on your hard drive appears to be damaged and nothing seems to be working properly. It could be that it is suffering

from the effects of a 'computer virus'. But who would do such a thing? Particularly to someone as nice as you? You have no enemies that you know of, and you always clean up after your dog.

Chances are you've never had the opportunity to ask these questions, as the police do not routinely investigate incidences of computer virus infection. But they are good points, and they go to the heart of why computer viruses exist.

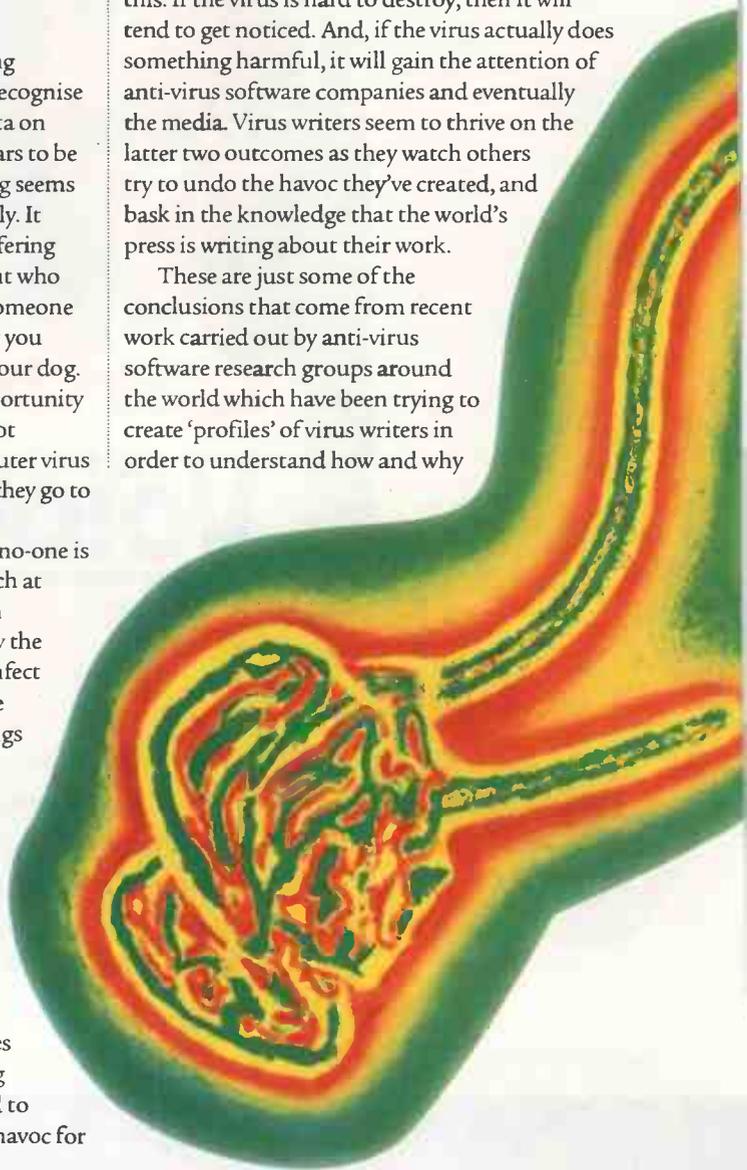
The first point is that, in most cases, no-one is doing something to you directly. Research at anti-virus labs the world over suggests in almost all cases, virus writers don't know the people whose computers the virus will infect — it would be like suggesting that people who write graffiti on the walls of buildings have some idea of the identity of those who will be offended by it — and, they often have little regard for the impact the virus will have on those whose computers suffer from it. This attitude appears to be a rather sick distortion of the idea that art should be produced for its own sake and not just to please a given audience.

In this case, the attitude is that viruses are produced simply to create something that is technically 'elegant' and very hard to crack. The fact that the virus may cause havoc for

individuals appears secondary to the virus writer; the key issue for them is to produce something that will be hard for anyone to destroy.

Many secondary considerations flow from this. If the virus is hard to destroy, then it will tend to get noticed. And, if the virus actually does something harmful, it will gain the attention of anti-virus software companies and eventually the media. Virus writers seem to thrive on the latter two outcomes as they watch others try to undo the havoc they've created, and bask in the knowledge that the world's press is writing about their work.

These are just some of the conclusions that come from recent work carried out by anti-virus software research groups around the world which have been trying to create 'profiles' of virus writers in order to understand how and why



they create computer viruses. According to Marian Merritt, senior product manager in charge of Symantec's Norton anti-virus product, there is one common thread among the extensive research that her company has done at the Symantec Anti-virus Research Centre (see page 118) — virtually all virus writers are men.

'We have not yet seen a documented case of a female virus writer, although we're making strides everywhere,' she says. 'We have found that these are generally bright people who are under-utilised, have good software skills, are well educated and, of course, have access to computers.'

The typical profile of the virus writer, says Merritt, has changed in recent years. They used to be young men with good programming skills who wanted to show off. And they were often university students wanting to outdo one another or demonstrate the threat they could pose to the software held on the campus computers, or computers connected to one another over the JANET education network and later, the internet.

She claims that initially viruses were merely a form of graffiti; an electronic form of writing your initials on a wall, carving them on a tree or etching them in wet cement. Viruses were a way in which these students could feel they were having an impact on the world, without having to really accomplish anything to do it other than write some difficult code. 'There is often competition amongst them to see who can write the best, who can write the virus that's hardest to crack,' adds Merritt.

In recent years, viruses have moved well beyond being harmless college and university pranks. In some cases, they've become a social statement as programmers with little money and fewer prospects, but good access to computers and the internet, write and distribute viruses in

Russia, India and across Eastern Europe. These people are often highly trained programmers

with good skills, but if they work for companies or governments that don't have the money to pay them well, they may look outside their immediate surroundings for recognition.

One of the more well-known virus writers lives in Bulgaria and goes by the name of 'Dark Avenger'. According to Vesselin Bontchev, a research associate at the University of Hamburg Virus Test Centre, Dark Avenger had enough time on his hands to create a whole new type of virus called Commander Bomber.

'By itself, this fact is not so amazing. Dark Avenger is known to have created more than two dozen viruses,' stated Bontchev in a recent paper. 'The Bomber virus was different. It used a new infection technique. The virus infects only COM files but in a special way: it inserts its body at a random place in the file, then it generates several small, random pieces of code which it puts in different places in the attacked file. One of them is always at the beginning of the file. Those pieces of code do nothing in particular: the instructions in them swap some values between some registers and transfer control to the next piece of code, until eventually the main virus body receives control. The outcome of this is that a virus scanner has no way to determine where exactly in the file the virus is present. All "smart" scanning techniques, like entry-point tracing and top-and-tail scanning, suddenly stop working.'

American author George C. Smith described the work of Dark Avenger in his book *The Virus Creation Labs*: 'The Dark Avenger obviously knew how real computer viruses should be written,' suggested Smith. 'His Eddie virus — a.k.a. Dark Avenger — had gained a reputation as a program

Seek & destroy: anti-virus research at Symantec

Santa Monica, California — palm-tree lined streets and a short drive from the Hollywood hills — is home to Symantec's Anti-virus Research Centre (SARC) which holds the largest collection of computer viruses on the planet. SARC acts as an international clearing house for the creation of software solutions to computer viruses imported from around the globe.

According to Symantec, there are over 17,000 strains of computer virus in circulation, although only a tiny proportion of that number are active viruses showing up on a significant number of computer systems with regularity. But Symantec sees them all. Corporate and retail customers of its Norton AntiVirus (NAV) software are encouraged to submit new viruses — those which cannot be handled by NAV — to SARC for inspection, detection and repair.

According to Bob Pettit, product director for Symantec's consumer products group, there is one type of computer virus that it sees more than any other: the 'macro' virus. This is a malicious computer program written in the same macro programming

language that was designed to allow users of the Microsoft Word WP software and Microsoft Excel spreadsheet applications to add new functions to their software. Instead, macro-virus writers have used the macro programming language to create small programs which prevent you from carrying out simple tasks, like saving or printing files, by attaching themselves to your documents.

Since Word and Excel documents are used in the majority of offices around the world, they tend to be the kinds of document that are sent and received in electronic mail messages. And therein lies the problem. Every time someone opens an email message with a Word or Excel 'attached' document that is infected with a macro virus, it spreads to the computer on which the electronic mail message was opened. Those with newer versions of Word and Excel are less likely to suffer the problem as Microsoft Office 97, which includes the latest versions of Word and Excel, has a utility to detect unexpected viruses. But there are still many users who have older copies of Word which are prone to these kinds of virus incursions via email.

Symantec warns users to seek out virus detection utilities that inspect the contents of all files on a hard disk, as well as attached files in unopened electronic mail messages, to ensure they don't contain virus messages.

Here's a checklist of symptoms which Symantec suggests you should look out for if you suspect that your computer has a virus:

- The program takes longer to load.
- The program size keeps changing.
- The disk keeps running out of free space.
- When it runs CHKDSK it doesn't show 655360 bytes available.
- It keeps getting 32-bit errors in Windows.
- The drive light keeps flashing when it's not doing anything.
- No access to the hard drive when booting from the A: drive.
- Files appear from nowhere.
- Files have unrecognised or strange names.
- Clicking noises from the keyboard.
- Letters look like they are falling to the bottom of the screen.
- The computer doesn't remember .

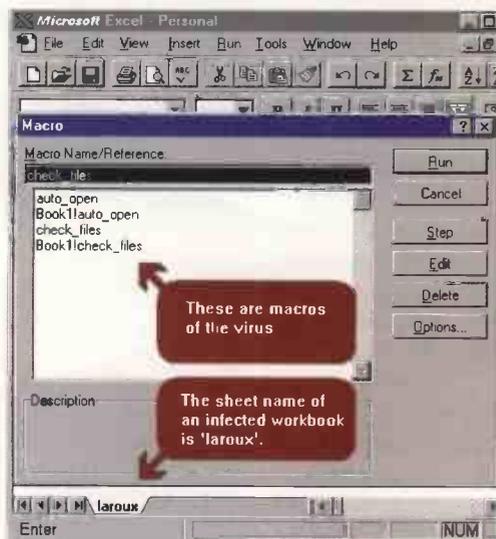
to be reckoned with. It pushed fast infection to a fine art, using the very process anti-virus programs used to examine files as an opportunity to corrupt them with its presence. If someone suspected they had a virus, scanned for it, and

Eddie was in memory but not detected, the anti-virus software would be subverted, spreading Eddie to every program on the disk in one sweep.

'Eddie would also mangle part of the machine's command shell when it jumped into memory from an infected program. When this happened, the command processor would reload itself from the hard disk and promptly also be infected. This put the Eddie virus in total charge of the machine. From that point on, every 16 infections the virus would take a pot shot at a sector of the hard disk, obliterating a small piece of data. If the data was part of a never-used program, it could go unnoticed. So, as long as the Eddie virus was in command, the user stood a good chance of having to deal with a slow, creeping corruption of his programs and data.'

Finding concrete information about virus authors like Dark Avenger is not an easy task, though. The authors are understandably cautious about revealing their real identities, for fear of prosecution. And anti-virus software

► **THE LAROUX MACRO VIRUS, DESIGNED TO CAUSE PROBLEMS IN MICROSOFT EXCEL WORKSHEETS**



companies worry that giving publicity to virus writers will only glorify their nasty work.

Carey Nachenburg, chief researcher at the Symantec Anti-virus Research Centre (SARC), claims there's a big debate in anti-virus research about whether or not any understandable names should even be ascribed to viruses. Many researchers suggest they should simply be given non-descriptive combinations of letters and numbers. This not only makes the viruses easier to catalogue, but also eliminates the romantic attraction of writing a virus that bears your name, or one that you have given it.

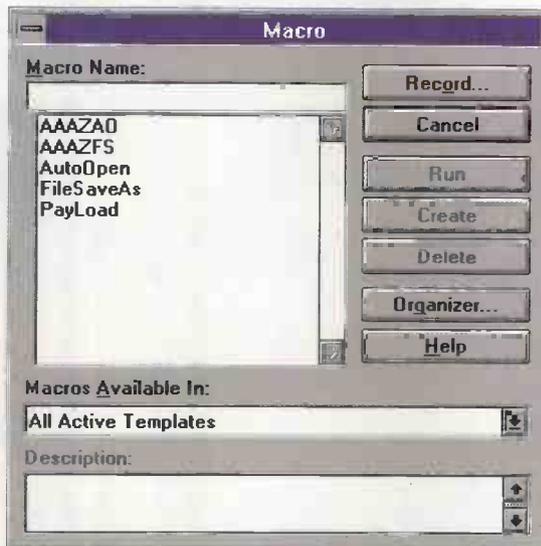
Vesselin Bontchev echoes this concern and suggests little can be done to eliminate the attractiveness of virus writing. 'The process of virus creation is not going to stop or slow significantly in the foreseeable future,' he predicts. After a few years of activity, the virus writers usually grow up and switch to other activities but many new "wannabe" virus writers, usually adolescent kids, pop up in their place.'

If the latest statistics from the Internet Computer Security Association (ICSA) are to be believed, the problem will get worse before it gets better. ICSA's 1998 Computer Virus Prevalence Survey, released in late 1998 and sponsored by Microsoft, Computer Associates, Network Associates, Intel, Price Waterhouse, Symantec, Trend Micro *et al*, suggests 'macro' viruses which run inside Microsoft Office are the biggest problem currently facing most users.

'The dramatic increase in the incidence of computer viruses is being driven by the rapid proliferation of macro viruses,' says Peter Tippett, president of ICSA. 'The primary infection vector for a macro virus is as an email attachment. Macro viruses spread easily because the infected files often exhibit few, if any, obvious symptoms. Because computer users need run time, anti-virus software needs to continuously scan email attachments for viruses.'

The ICSA survey concluded that the rate of infection in 1998 was 48 percent higher than reported in 1997. The annual survey, based upon interviews with technology professionals drawn from 300 corporations and government institutions in the US, represented some 750,000 PCs and servers.

One of the most disturbing trends uncovered by the report is that despite increased use of anti-virus software, computer-virus infection rates continue to increase. Of those surveyed, almost all have anti-virus software installed and running continuously. The report suggests the main reason for the increase in prevalence appears to be 'ineffective policy management across the enterprise'. More specifically, it reveals that regular software updates, email policies,



◀ THIS IS THE SCREEN NO-ONE WANTS TO SEE IN MICROSOFT WORD, SHOWING THE MACROS THAT MAKE UP THE WELL-KNOWN 'CONCEPT' WORD MACRO VIRUS. IT INTERFERES WITH WORD'S ABILITY TO SAVE FILES IN STANDARD DOCUMENT FORMAT AND CAUSES THEM TO BE SAVED AS TEMPLATES INSTEAD

improper installation and policies governing remote computer use are major issues.

So, despite all efforts to identify virus writers, eliminate the fruits of their work and encourage users to guard against the impact of viruses, it seems that they will be with us for some considerable time to come. □

VIRUS NEWS AND VIEWS

Here is a list of sites offering utilities for virus detection, as well as news and updates on virus trends.

➤ www.symantec.com/avcenter/index.html

The online home of the Symantec Anti-virus Research Centre (SARC). Here you can download updates to Norton AntiVirus, a virus encyclopaedia. There's news about virus hoaxes, a virus reference area and information on how to submit virus samples for 'diagnosis'.

➤ www.nai.com/vinfo/

Network Associates offers free downloads, news and views on viruses. It includes an online virus information and technical documentation library, a list of new virus entries and descriptions of the ten most common viruses. There are lists of viruses by name, type and payload activation date — this last is useful, as some viruses are triggered on a certain date.

➤ www.drsolemon.com/vircen/gallery/picture.html

In this section of the site run by Dr Solomon's Software, you can see screenshots of what viruses look like when they're activated. This is a rather fun 'rogue's gallery' of some of the more noteworthy DOS and Windows-based viruses that have plagued computers in recent years.

➤ www.hitchhikers.net/av.shtml

A comprehensive site which includes a wide variety of articles, an excellent set of links to anti-virus software producers, copies of recent research papers, reviews of anti-virus products and recommendations on how to fight viruses.

➤ <http://ciac.llnl.gov/ciac/CIACHoaxes.html>

If you prefer the entertainment value of hearing about how people react to virus reports and hoaxes, you'll enjoy this site which has been put together by the US Department of Energy Computer Incident Advisory Capability.

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In the line of fire

E-CRIME IS GROWING ALMOST AS FAST AS E-COMMERCE AND SMALL BUSINESSES NEED PROTECTION. JOHN LEYDEN LOOKS AT HOW FIREWALLS KEEP OUT THE NET ROGUES.

Commercial use of the internet by small businesses is a double-edged sword that can, if technology issues are not properly addressed, leave organisations vulnerable to attack from the very weapon they sought to use in conquering new business opportunities. Techniques employed by malicious hackers are constantly evolving. Cyber-criminals have access to a wide library of tools, freely available on the internet, which facilitate attacks that expressly threaten the security of small-business networks. The image of socially dysfunctional nerds targeting high-profile organisations such as the US Pentagon, popularised by the film *War Games*, is as dated as the Cold War era it depicts. Nowadays, small-to-medium enterprises (SMEs) are very much in the firing line from a new breed of computer 'crackers' — malicious hackers whose ranks might include profit-driven criminals or disgruntled employees.

Clear and present danger

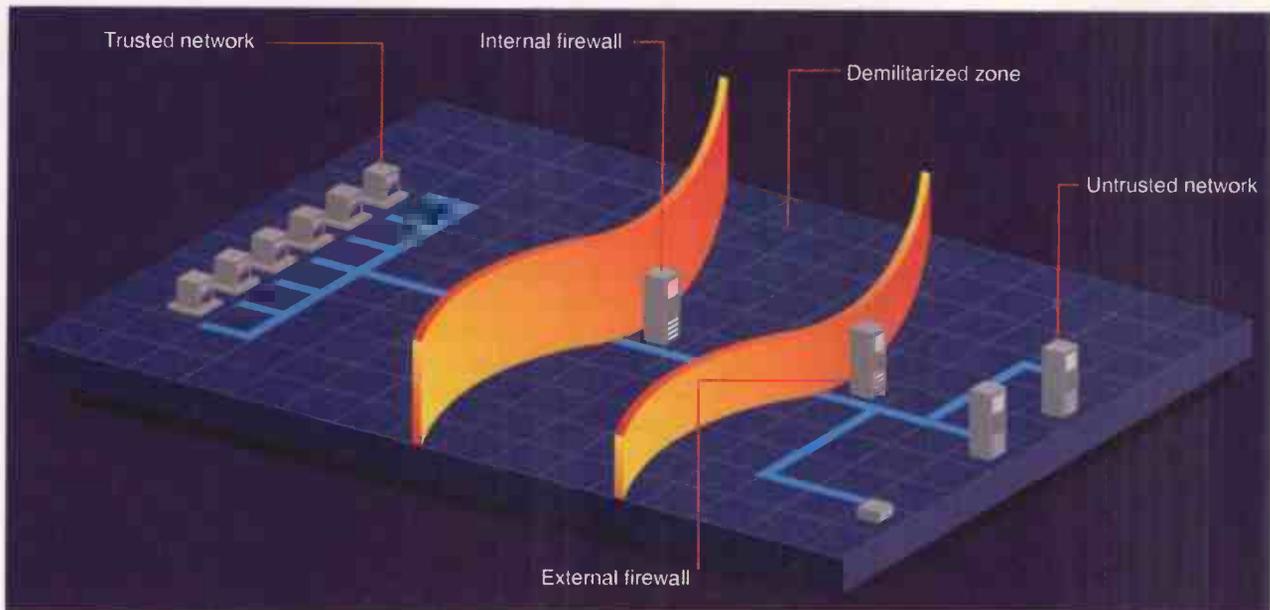
The latest forms of attack can involve the use of Java programs to obtain the contents of files from machines inside even a seemingly protected network. The corruption of a company's web site or techniques to simply crash a system (denial of service attacks) are also becoming alarmingly commonplace. Tools like Back Orifice go even further and, once installed, allow a hacker to seize control of PCs on a targeted company's network. Such attacks are not simply theoretical; they are a clear and present danger to the PC networks within British small businesses. For example,

security was so lax at the British-based Worldwide Auction Online (WAO) that a web surfer with only modest technical knowledge gained access to its customers' details, including credit card numbers and addresses of more than 1,000 customers. WAO has subsequently relocated and revamped its site. Such attacks are mercifully rare and technology exists to minimise the risk a small business is exposed to, so SMEs can enjoy the benefits of setting up a web site and reaping the rewards of e-commerce.

Risk assessment

Initially, you should have a risk assessment performed on your network. From this, a small business can establish a policy of all they want to protect, why, what measures to put in place and who is responsible. Until an assessment is made and objectives clearly defined, no organisation will be sure it's making an appropriate investment. Given that every organisation's use of the internet is different, best practice boils down to developing and implementing a security policy. This policy should be based on carefully assessed risks, balanced against costs and the need to ensure that systems are still usable.

Business considerations are paramount in developing this policy. To get dewy-eyed and let technology become the tail that wags the dog is, quite simply, barking mad. 'Organisations need to realise the importance of formulating systems and security policies which will ensure only authorised access of company networks,' says Tim Moore, deputy head of the Government certification body ITSEC (IT Security, Evaluation and Certification scheme).



Once a business is open to the internet, implementing security systems at a gateway level to prevent unauthorised access to internal networks is the first step towards securing an organisation. This is the role of a firewall.

Conventionally, the firewall is seen as a way to keep the bad guys out. However, this role is changing as firewalls move from being a barrier that controls traffic flow to becoming a perimeter manager, providing integration of management and security. There are two main schools of thought on how a firewall can be installed in a network. The

first is that firewall software should be placed on a server: the proxy firewall. The second is the stateful inspection firewall, which instead of looking at the contents of each packet,

compares the bit pattern to packets known to be trusted. A third approach, using routers for access control, has fallen into disuse.

Some firewalls use outdated technologies, and a look for the International Computer Security Association (ICSA) certificate is never a bad idea. Other considerations include the logging and alert capabilities of a firewall. It's also important to think about your organisation's future use of its firewall. Is the firewall scalable? Is it interoperable with any potential partner's firewall? Another important factor to consider when choosing a firewall is whether your network might be extended to remote users in the future.

All this might seem like a lot of work, but its value was highlighted in the last Business Information Security Survey commissioned by the National Computer Centre (NCC) and sponsored by ITSEC and the DTI (Department of Trade and Industry). This showed a staggering

41 percent of companies, with between ten and 99 employees, had experienced a significant information security breach. Breaches were found to cost an alarming £1,165 on average for organisations with this number of employees. The picture is even worse for smaller businesses, where the figure rises to an average £2,949.

Neil Spencer-Jones, managing consultant at the NCC, said SMEs looking to establish a presence on the web should go back to an ISP and buy a managed secure service. 'But SMEs don't want to spend any money,' he says. 'Some ISPs even manage

▲ THE GROWTH OF INTERNET TRAFFIC AND DIAL-UP ACCESS IN AND OUT OF COMPANY NETWORKS RAISES NUMEROUS QUESTIONS ABOUT SECURITY. ALL OF THESE ISSUES ARE ADDRESSED WITH THE INSERTION OF A FIREWALL

Another important factor to consider when choosing a firewall is whether your network **MIGHT BE EXTENDED TO REMOTE USERS** in the future

e-commerce and credit-card processing for SMEs, but people should find out what the bottom-line cost of this is, ask for references and obtain service-level agreements.' Spencer-Jones adds that another advantage for a smaller business letting their ISP is they can use high-end firewalls, as 'cheap firewalls are not particularly secure'.

Even vendors of high-end kit argue that in many cases, the security needs of SMEs can be adequately met with firewalls in the £2,000 range. 'Most firewalls offer pretty much the same amount of security, and problems are brought about by user error in the main, so setting up rules easily on an interface which is intuitive and allows for non-order-dependent rules to be set up, is key,' says Malcolm Skinner, product marketing manager at Axent Technologies.

One example of a firewall targeted at the SME market is the GNAT Box from GTA Ltd. David Hobson, GTA managing director, sees

Teenage kicks: lax security lets in crackers

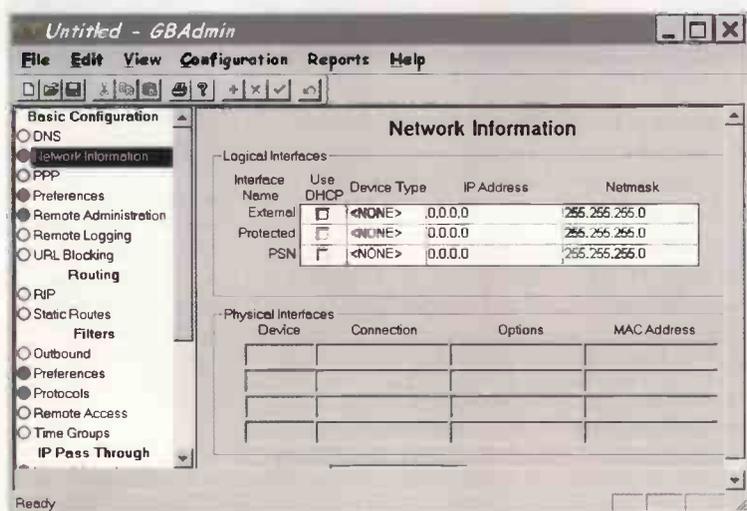
A stark example of the consequences of lax computer security is provided by an attack on Ohio-based computer accessories retailer, Dalco Electronics, last October. Three teenagers claimed to have cracked into Dalco's databank and

swiped a staggering 8,000 electronic invoices for credit-card orders placed over the internet. They uploaded a File Transfer Protocol server program known as Serv-U to the web retailer's server. With the program's default directory set to the

target machine's hard drive, and the program running in the background, the crackers said they were able to browse directories and steal data. A teenage cracker involved said that what he called Dalco's poorly configured Windows NT 3.5 server

allowed his team to gain high-level administrator access to unencrypted databases. The group installed software that allowed them to pilfer 4.3Mb worth of archived credit-card orders, covering the last two years, and a 15Mb Microsoft Office

inventory database. 'It was rather clever,' boasted the cracker in an interview conducted over internet Relay Chat. He stated that since the attack he himself had erased the data from his own machine, although he could not speak for the others involved.



▲ SLOPPY CONFIGURATION AND PROGRAMMING ERRORS CAN MAKE WEB SITES, TOUTED AS THE GATEWAYS TO INTERNET COMMERCE, AN OPEN DOOR TO THIEVES AND VANDALS

disadvantages in outsourcing security services to an ISP, as an SME has to take an ISP's security on trust. 'If you can control your destiny, you'll be better off,' says Hobson. 'It comes down to in-house skills. If a small business uses an ISP to process transactions, the money goes to them initially and they take a percentage of the turnover. For any SME, the most important thing is getting paid.' There's no specialist qualification for security, unlike networking in general. So it's a good idea for smaller businesses to take careful advice from vendors or consultants.

Safeguarding your network doesn't end with buying and installing a firewall. Without regular auditing of its log, the effectiveness of a firewall can never be determined and intrusion attempts may go undetected. Best practice is to carry this

out daily. For e-commerce development, one very sensible procedure is to separate a company's web server from databases containing credit-card information.

While a correctly configured and managed firewall can and does provide a good level of

security, many organisations make the mistake of putting them in and just leaving them. New security threats are always appearing, so the price for the liberty of trading online is constant vigilance. For this reason it's essential to monitor developments and constantly check and update a firewall.

Penetration testing employs 'ethical hacking' techniques and analyses vulnerabilities to illegal and intentionally hostile hacking techniques through effective yet less hostile methods. Testing assesses the strengths and weaknesses of internet server hosts and firewall protections, probing current configurations of Unix, Windows NT and other internet-accessible servers inside and outside the firewall. Additional analysis is performed to determine vulnerabilities in passwords, file permissions/ownership, open ports on a firewall and allowable services. Susceptibility to a wide range of hacking techniques, including sniffing, cracking, hijacking and leakage, is thus identified.

The cost of penetration testing begins at around the £1,500 mark, which, when set against e-commerce middleware costing around £10,000 and a firewall budget, is worth considering. 'The security of any system is only as strong as its weakest link,' says Deri Jones, managing director of security specialist NTA Monitor. 'Even a "perfect" firewall won't protect an SME from all possible attacks on its computer systems. There are a number of other systems that need to be securely set up, including routers, DNS servers, mail servers and web servers.'

Firewalls are unable to provide total protection in isolation; they're best considered as a first line of defence. The best approach to security is to adopt a belt-and-braces approach and employ vulnerability assessment and the use of intrusion detection software. The most important thing to remember is that a poorly configured firewall is worse than no firewall at all, because it gives a false sense of security. □

PCW CONTACTS

National Computing Centre www.ncc.co.uk
 Penetration testers NTA Monitor
www.nta-monitor.com
 Security notice forums www.cert.org,
www.ntsecurity.net, www.ntbugtraq.com
 International Computer Security
 Association www.icsa.net

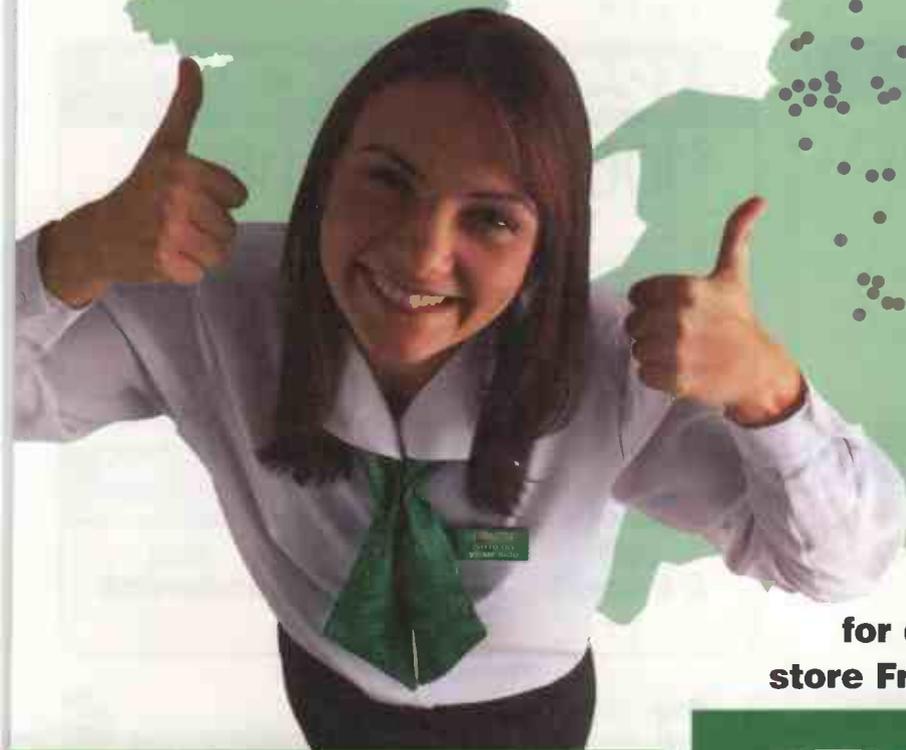


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- Creative Labs SoundBlaster 64v 3D PCI wavetable sound
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- Advanced mATX motherboard with 100MHz AGPx2 chipset
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- 8Mb ATI Xpert98 AGP x2 Rage Pro 3D graphics
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Satisfaction Guaranteed?

If a PC's not right for you, we think you should be able to do something about it. That's why Time is the only national PC retailer in the UK which offers a 14 day PC exchange guarantee: 100% satisfaction or change for another PC. What could be fairer than that? **Beware of suppliers who don't want to know you once you've placed your order.**

How long will the PC last?

All Time systems are designed to be as 'future-proof' as possible. We already use the very latest technology, but we also make sure your PC will last by including two or more external bays so you can add more drives when you need them. **Beware of PCs which may look small with smooth rounded looks but use non-standard drives and are not expandable: they will become obsolete very quickly.**

Is the PC Millennium safe?

All Time PCs are designed to be 100% compatible with Windows 98 software. On top of that you'll find them all absolutely Year 2000 compliant so your computer will be safe for the Millennium. **Beware: Not all PCs are, so always check before you buy.**

Will you get all the software pre-loaded

Time PCs come ready to use with pre-loaded software and that includes a system recovery utility which lets you reset all the software to factory-settings, automatically. **Beware: Other companies may not offer such a comprehensive set of backups as standard.**

How do you get started?

At Time we make it as easy as possible. Every Time PC comes with a full 60-minute video trainer and installation guide worth over £49. That way you get all the information you need (and being from Time it's in plain English) and you can learn at your own pace. **Beware: With other brands you'll just get the technical manuals.**

What software is included?

You'll find all Time systems include Lotus SmartSuite Millennium, a full suite of six leading office software applications currently the most powerful office suite available. **Beware: PC suppliers often include old, low-cost software, or a cut-down 'Works family pack' office suite and then charge up to £130 extra for the full version.**

What about extra software?

Most Time systems also include top-quality, leading-brand software like IBM ViaVoice 98 Executive speech recognition, Norton Anti-Virus and the GSP Desktop Publishing suite. **Beware: Buying quality software separately can cost you hundreds of pounds.**

How much RAM and storage do you need?

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81/85 High Street, Brentwood
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Chequers Shopping Centre,
Tel: 01622 66 46 81

Aylesbury
Vale Retail Park, Vale Park Drive
Tel: 01296 421 116

Banbury
Southern Road
Tel: 01295 263 588

Basilidon
Great Oaks
Tel: 01268 273 733

Basingstoke
Brighton Hill Retail Park
01256 331 324

Bedford
Interchange Retail Park, Amphill Road
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Bicester - open soon

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Grampion Gates
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Tel: 01635 32633

Oxford
14-16 Park End Street
Tel: 01865 245 653

Reading
65 Caversham Road
Tel: 0118 950 2662

Slough
105 Farnham Road
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Harlow

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Tel: 01279 410 711

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Tel: 01296 436 767 (near Argos)

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Tel: 01295 279 585 (near MFI)

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Lane Retail Park
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Tel: 0181 524 4526

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Ladymead Retail Park, Europa Park Road
Tel: 01483 562 448 (near PC World)

Stevenage
Roaring Meg Retail Park, Monks Wood Way
Tel: 01438 741 435 (near Toys R Us)

Bedford
Unit C, Interchange Retail Park
Tel: 01234 346031

Reading - opens 2nd December
Unit A2, Forbury Retail Park, Forbury Road
Tel: 0118 959 5175

Midlands

Nottingham
Huntingdon Street
Tel: 0115 958 6543

Coventry
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Tel: 01203 595 659

Derby
Bradshaw Retail Park, Bradshaw Way
Tel: 01332 383 006

Dudley
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Tel: 01384 236 040

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Burton Street
Tel: 0116 253 2438

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Canwick Road
Tel: 01522 513 055

Northampton
67/83 Bridge Street
Tel: 01604 636 277

Peterborough
Boulevard Retail Park, Maskew Avenue
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Tel: 01480 459 392

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Tel: 01604 415 018 (near Halfords)

Solihull
Unit 3 Sears Retail Park, Marshall Lake Road
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Kettering
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Worcester
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Tel: 01203 663 588 (near Comet)

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Tel: 01782 279 895

Tamworth
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Tel: 01827 63963

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Tel: 01245 268 401

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The Tollgate Centre
Tel: 01206 561 806

Cambridge
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Tel: 01473 729 308 (near Harvey's)

Kings Lynn - opens October 20th
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Tel: 01553 661347

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107 Tewkesbury Road
Tel: 01242 513636

Plymouth
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Exeter
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Bristol
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Patchway, Cribbs Causeway
Tel: 0117 950 2076 (near PC World)

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Unit 2 Emmersons Way, Emmersons Green
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Manning Heath Retail Park,
Unit 3 Yarrow Road
Tel: 01202 743 138 (near Great Mills)

Swindon
Unit 4 Greenbridge Retail Park, Drakes Way
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Elkmill Retail Park, Oldham

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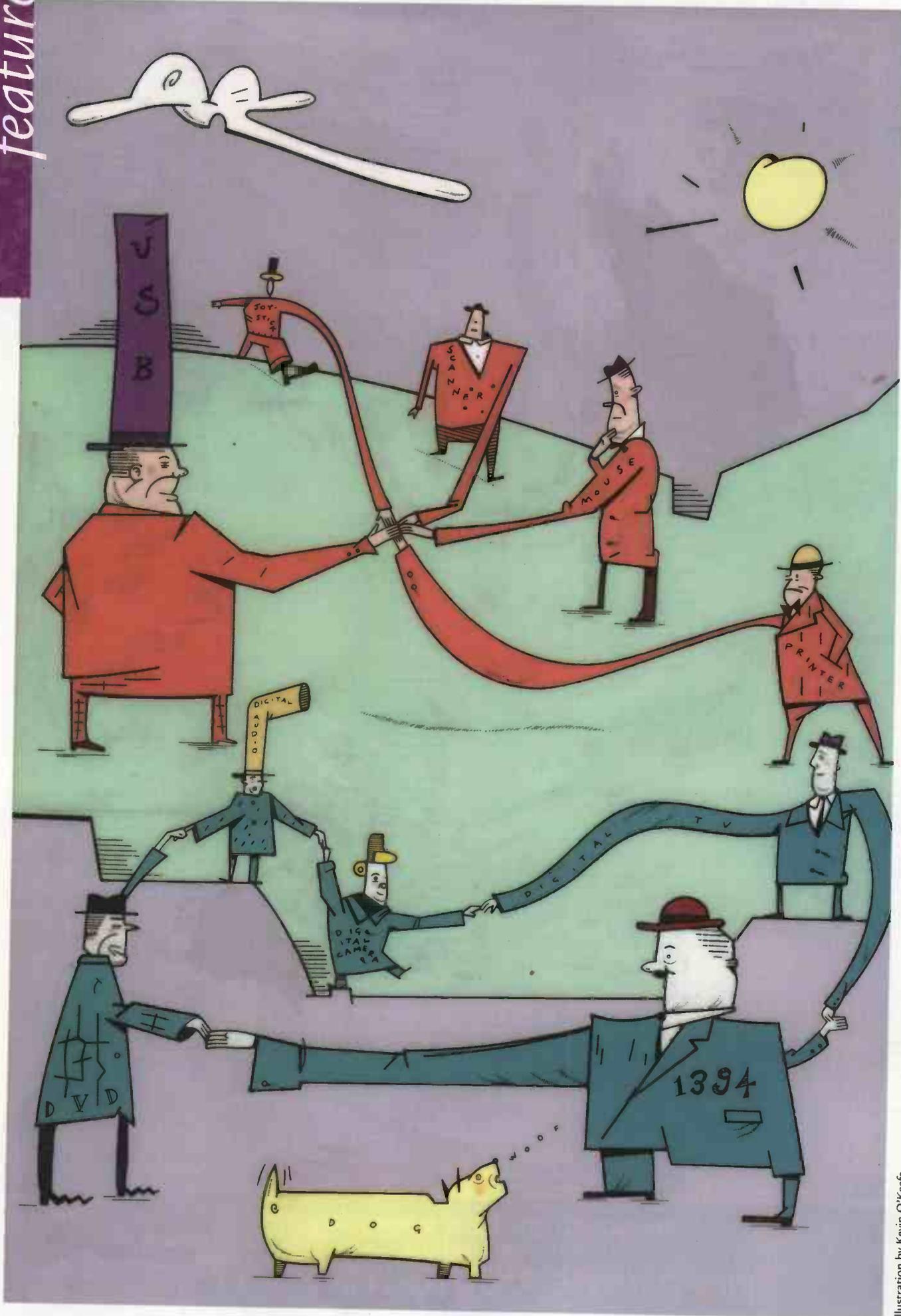


Illustration by Kevin O'Keefe

Bus stop

The original commercial PC, circa 1981, had a reasonable array of input/output (I/O) facilities; its serial and parallel ports were more than adequate for the throughputs required by the peripherals of the day. But times have changed, and serial and parallel I/O devices fall short of user's needs in a number of important areas:

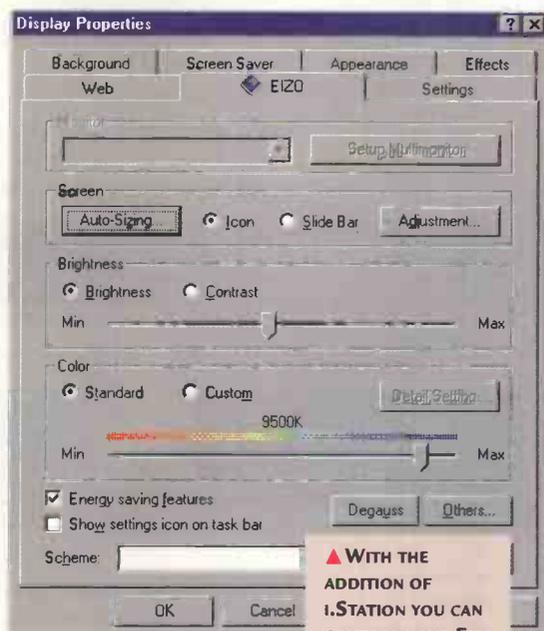
- **Throughput** Serial ports max out at 115.2Kbps, parallel ports (depending on type) at around 500Kbps, but devices such as digital video cameras require vastly more bandwidth.
- **Ease of use** Connecting devices to legacy ports can be fiddly and messy, especially daisy-chaining parallel port devices through pass-through ports. And the ports are always inconveniently located at the rear of the PC.
- **Hardware resources** Each port requires its own interrupt request line (IRQ). A PC has a total of 16 IRQ lines, most of which are already spoken for. Some PCs have as few as five free IRQs before peripherals are installed. COM ports can 'share' IRQs, but some operating systems such as Windows NT 4.0 won't tolerate this kludge. PCI steering partially overcomes this problem.
- **Limited number of ports** Most PCs have a pair of COM ports and one LPT port. You can add more COM ports and LPT ports, but at the cost of precious IRQs.

Two new I/O ports, Universal Serial Bus (USB) and IEEE 1394, address all of the limitations of the legacy I/O devices in one fell swoop. And they are complementary: USB deals with slower devices and 1394 with high-speed devices. Both support plug-and-play and hot swapping and, together, they cover a broad range of I/O requirements. Soon PCs will routinely be configured with both USB and 1394 and *only* these two, dropping parallel and serial connectors altogether.

Most PCs have had USB ports for a couple of years, but USB peripherals have only just started to arrive in any numbers. The reason? The launch of Windows 98 and the Apple iMac. Windows 95 support of USB was at best wishy-washy and we had to wait until Windows 98 for proper driver support. The iMac, of course, only has USB ports so it's Hobson's choice

ONE DAY, ALL PERIPHERALS WILL BE CONNECTED TO YOUR PC VIA USB AND IEEE 1394 — ROGER GANN EXPLAINS HOW, AND WHY. HE ALSO PRESENTS USB DEVICES CURRENTLY IN USE.

if you want to connect peripherals to it. USB and 1394 also dovetail neatly in with the putative PC99 standard, which envisages, amongst other things, the 'closed' system unit incapable of internal expansion. If you want to connect any sort of peripheral, be it a hard disk, DVD-ROM, MPEG decoder or scanner, then you'll use either USB or 1394.



The development of USB

The Universal Serial Bus (USB) specification was originally developed by a group that included Intel, Microsoft, Compaq, Digital Equipment, IBM, NEC and Nortel. It combines the best features of SCSI architecture with an advanced plug-and-play standard. It replaces the antique serial and parallel ports with a single port that is extensible through hubs and devices daisy-chained in a tree arrangement.

The system was designed to deliver a data-transfer rate of up to 12Mbit/sec to or from the PC. This is enough to deal with all existing types of peripherals, and most of the new higher-bandwidth mass-market PC

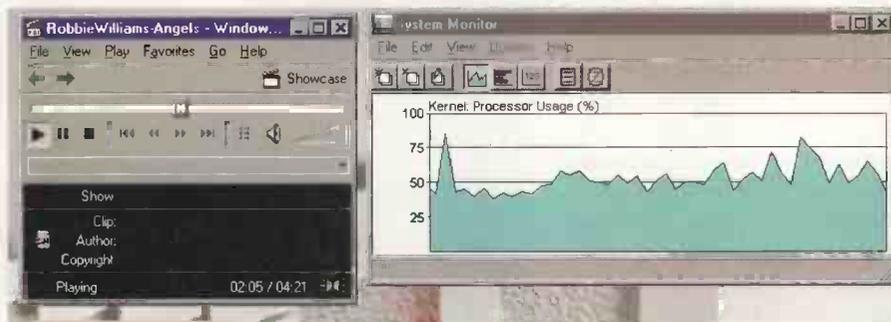
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peripherals in the foreseeable future. It also supports a low-speed mode of 1.5Mbit/sec for devices like keyboards, mice and joysticks. USB support has been built in to Intel's PCI set since the 430VX and many current motherboards feature connector headers for USB socket panels.

The main attractions of USB are its flexibility and its speed. It is cross-platform, hot-pluggable and hot-swappable, making peripherals easy to connect and disconnect from the network. And it offers performance that's faster than serial, parallel and Ethernet technologies.

USB was designed to be user-friendly: it eliminates the need to install expansion cards inside the PC and then reconfigure the system. Instead, peripherals will be automatically configured when they are attached to the system without needing to run a setup program or reboot. Similarly, there should be no more guesswork about which serial or parallel port to choose, and non-technical PC users should not have to worry about IRQ settings, DMA channels and I/O addresses. Finally, USB's hot insertion and removal allows users to attach and detach peripherals without powering down the system first.



▲ IF YOU USE USB SPEAKERS, BE PREPARED TO KISS GOODBYE TO A SIGNIFICANT NUMBER OF PROCESSOR CYCLES

The USB architecture comprises a dedicated master-slave system with a host controller residing at the root of the tree, typically within the PC chipset. Because of its 7-bit address scheme, the USB will allow users to connect up to 127 peripherals using a single standard connector type. That's the theory, but manufacturers discourage this in practice: high-speed USB peripherals, such as backup drives and scanners, should have their 'private' port for optimal performance. Mice, keyboards and other low-speed devices used infrequently can share a port. In addition, some peripherals (notably monitors and keyboards) can act as hubs to provide additional plug-in nodes. This is very convenient, allowing you, for example, to plug your mouse and keyboard into the base of a monitor.

All peripherals connected via a USB interface are managed by a USB host controller mounted on the PC's motherboard or on a PCI add-in card. The host controller and subsidiary controllers in hubs manage USB peripherals, helping to reduce the load on the PC's CPU time and improving

overall system performance. In turn, USB system software installed in the operating system manages the host controller.

Data on the USB flows through a bi-directional pipe regulated by the host controller and by subsidiary hub controllers. An improved version of bus mastering allows portions of the total bus bandwidth to be permanently reserved for specific peripherals, a technique called isochronous data transfer. The USB interface contains two main modules: the Serial Interface Engine (SIE), responsible for the bus protocol, and the Root Hub, used to expand the number of USB ports. The USB Host Controller incorporates logic for processing incoming and outgoing data, as well as legacy keyboard support for PS/2 keyboards.

The USB also allows unpowered devices to draw up to 500mA over the connector cable and even allows for unpowered hubs that might have unpowered devices downstream — here the current drawn mustn't exceed 100mA. So you have to exercise some common sense when hooking up multiple USB devices: for example, you shouldn't use ports on the keyboard, a low-power device, to plug in anything other than a mouse. A typical four-port hub

should run on 2.1A (500mA per port plus 100mA for the hub). Half an amp is sufficient to power devices like video cameras, but so far only Logitech/Storm Technologies has managed to drive a scanner on this skimpy amount of power.

USB isn't without its critics: there have been complaints that its implementation and architecture

are too complex. US reports indicate that printer manufacturers, with an eye on the booming consumer electronics market, are far more interested in 1394 than USB for the simple reason that digital cameras are more likely to sport a 1394 socket than a USB port. Some have criticised the USB protocol stack which, because it has to support so many different types of peripherals, is unwieldy. Others complain that the hub concept merely shifts expense and complexity from the system unit to the keyboard or monitor.

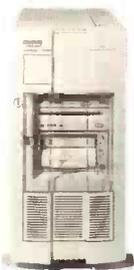
USB in practice

For my USB test bed I picked a P200MMX with the Intel 440TX chipset and 64Mb of RAM running Windows 98 (of course). This PC had a pair of USB ports which clearly weren't enough, so I installed a couple of hubs: the Entrega Hub 7U seven-port hub, which was hung off an Eizo F57 17in monitor, with the i-Station USB hub slung under the front panel. The latter has four free USB ports. Both hubs had separate power supplies but were not called on to power any

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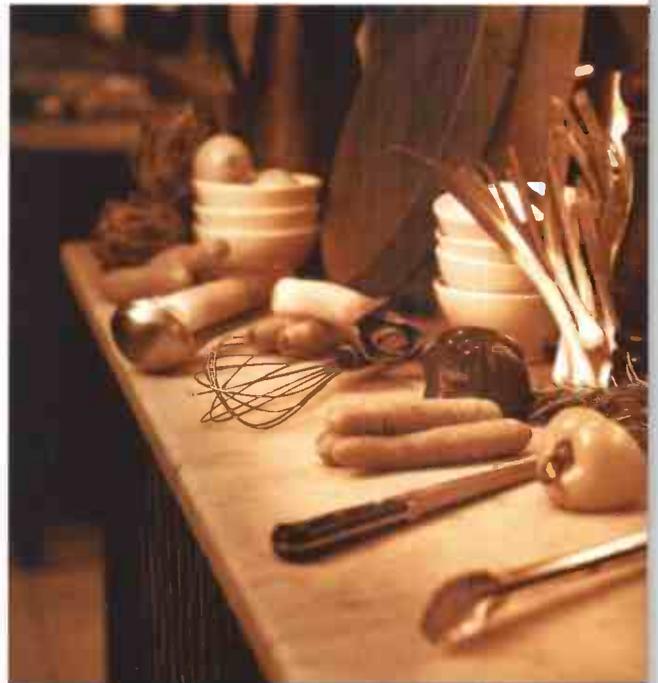
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The leasing route

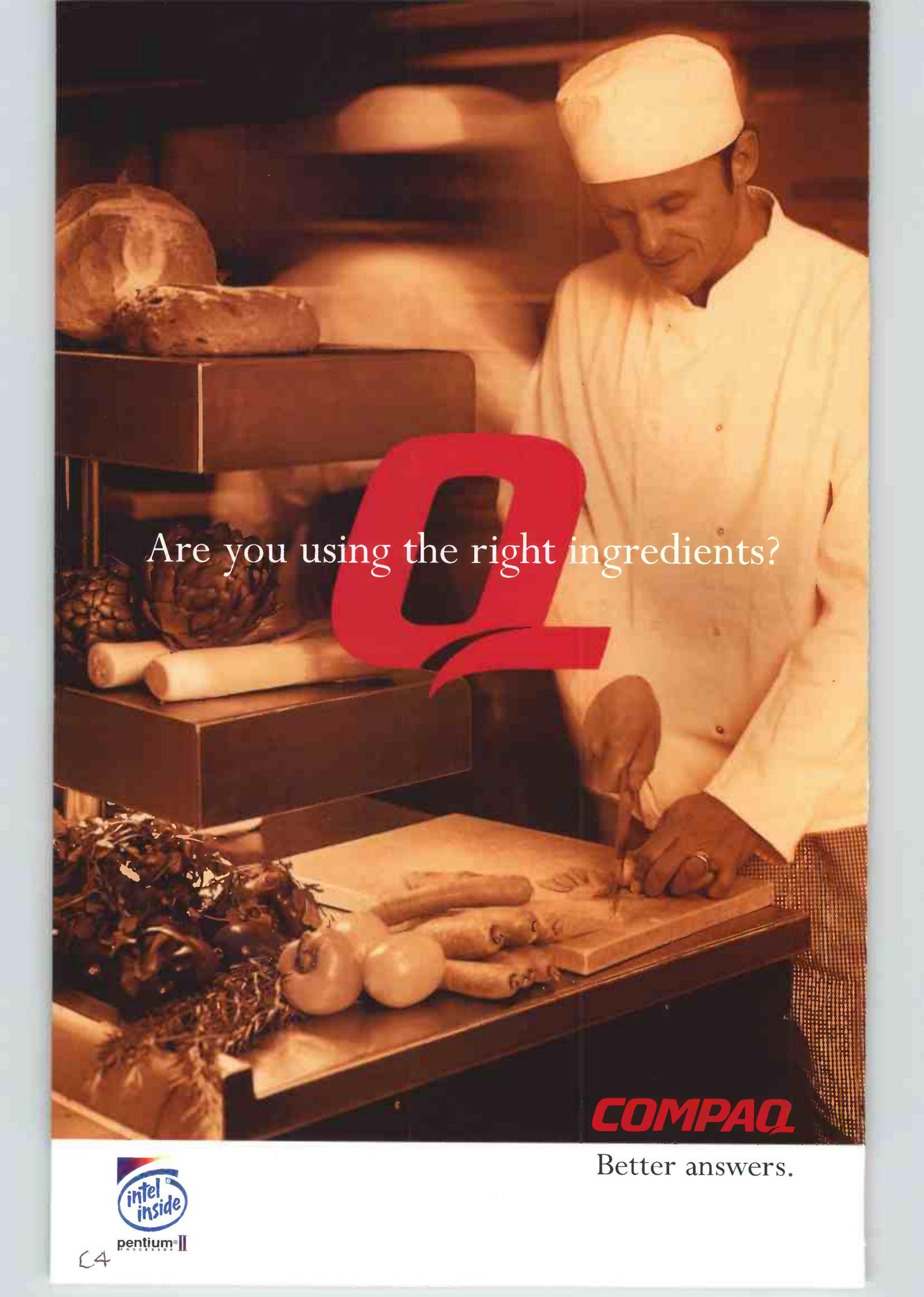
Just £65 per week! Icon chose to lease their entire solution – one ProLiant, one Armada, one Deskpro, two monitors, one Presario, one C-Series, one 8-Port 10Base-T Hub, one modem card, one ISDN ISA Controller, three CarePacs – plus four days of consultancy from their chosen reseller.

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.



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peripherals. With the exception of the Intel video camera, all the other devices that required power had their own mains transformers. Interestingly, the i-Station used a separate cable to connect to the monitor itself which allowed you to control the display from software rather than using its rather awkward on-screen menu system.

All told, this gave me no less than 11 free USB ports to play with. Inserting multiple USB plugs in the Entrega hub was easy enough, but the resulting mass of cable made the lightweight hub reluctant to 'stay put' on the desktop. Inserting USB plugs in to the Eizo i-Station was awkward: three of the four ports were located on the rear of the unit, which was just about the most inconvenient place you could think of. I then proceeded to fill up as many of the ports as I could. I plugged in eight in all – here's the list: Microsoft Natural Keyboard Elite; Microsoft Precision Pro joystick; Microsoft Digital Sound System 80; Logitech USB Wheel Mouse; Hewlett-Packard ScanJet 4100C; Epson Stylus Color 740; Intel Create and Share video camera; and the DayTek ISDN Vigor 128 TA.

Overall, I was disappointed. With 119 devices to go in my possible USB 'tree', my P200MMX wasn't a happy bunny with all this extra hardware to look after. By and large, plug-and-play worked pretty much as expected: you'd plug the device in, Windows 98 would automatically detect it and, if the drivers weren't already installed, prompt you for the install disks. Occasionally, a device wouldn't be detected upon

insertion or would take a minute or two before the 'New Hardware Detected' window went away.

There were, however, one or two minor exceptions, notably the keyboard and mouse. The test bed PC was already working with an ordinary keyboard and PS/2 mouse and Windows 98 likes to find these devices as it loads. First-time installation of a USB device is normally done when Windows 98 is up and running. Trying to install the USB keyboard and mouse simultaneously didn't work and I had to plug the old PS/2 keyboard back in to install the mouse. I was then able to install the USB keyboard correctly.

I found it easy to cause Windows 98 to lock up or blue-screen by unplugging USB devices and plugging them back in. Firing up the System Monitor applet and graphing percentage CPU utilisation was instructive too. Plugging in a device would typically send CPU utilisation up to 100% for 10 or 20 seconds, sometimes longer, making the PC feel like a barrel of treacle had been poured into it. Also, as the burden of supporting multiple USB devices gradually mounted, so the PC felt progressively less responsive.

Maybe I was pushing my luck with a P200MMX – it could be that it just isn't powerful enough to keep an eye on all those peripherals on the USB bus. Perhaps a Pentium II 450MHz is a better bet. At the end of the day, there's no escaping the fact that it doesn't matter how many or how few USB ports you've got; there's only one bus, and all your peripheral data has to pass down it.

USB hubs

Although the USB standard permits the daisy-chaining of up to 127 devices, most users will come across a more practical limitation well before they hit double figures: USB sockets to plug things in to! Most PCs have a pair of USB ports, and while a few monitors come equipped with a USB hub, I've not seen any USB devices with a second USB socket, so daisy-chaining is impossible. Even the monitor hubs I've come across aren't a great

solution: the two I've seen have three or four USB ports, but one port has to be used to connect your PC to the hub, so you gain some, you lose one. The solution is simple: the stand-alone USB hub. Anyone who's set up a 10Base-T Ethernet network will be familiar with the concept of the hub. USB hubs simply let you attach more devices to your USB chain. In the UK, only Entrega has released a USB hub, available in four- and seven-port versions. The seven-

port version (£84 ex VAT) is tiny, no more than four inches square. Powered by a mains transformer, this hub has seven red status LEDs on the front, just like a network hub. These turn green when you insert a USB device. If seven ports proves too few then you can buy a second one, stack it on top of the first and daisy-chain one to the other, just like an Ethernet hub. There's no software to install

and you simply use the special USB hub cable to link the hub to a PC USB port. Once you connect a hub to a USB chain, you can then connect several other devices to that hub. For example, you can connect three devices and another hub, and then connect

two devices and two more hubs to the second hub, and so on, adding hubs and devices until you attach your 127th device. In any case, given the lack of self-powered USB devices, you're more likely to run out of mains socket outlets well before then.



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Microsoft Natural Keyboard Elite ▷

This is a 'dual purpose' USB device in that it's a PS/2 keyboard with a short female PS/2-to-USB adapter lead. The Elite is a slightly more compact version of the original curved Microsoft Natural Keyboard; some space is regained by rearranging the cursor and editing keys. The keyboard is supplied *sans* software — it doesn't need any. Windows 98 recognises it as a standard 101/102 or Natural Keyboard. It has some quirks, notably the erratic behaviour of the the Caps Lock and Num Lock status LEDs

Price £40 (£34.05 ex VAT) **Contact** Microsoft 0870 601 0100 www.microsoft.com



◁ Logitech USB Wheel Mouse

This particular Wheel Mouse offers much the same functionality as the Microsoft Wheel Mouse: it's a two-button mouse with a wheel that can function as a third button or as an adjunct to scrolling. The Logitech comes with slightly more sophisticated software than Microsoft IntelliPoint and gives you more programming options for button combinations. This is a USB-only device — there is no PS/2 or COM port adapter. Detection was automatic, but installing the driver software was a drawn-out affair. Moving the mouse to a different USB port on a hub could confuse it to the point that at the next reboot, Windows 98 won't detect a mouse at all.

Price £29.38 (£25 ex VAT) **Contact** Logitech UK 0181 308 6582 www.logitech.com



▽ Eizo Flexscan F57 and i-Station hub

Another great monitor from Eizo: the picture quality on this 17in display is very easy on the eye. What makes it particularly interesting is the addition of the i-Station four-port USB hub that clips to the underside of the front bezel, blending in with the existing design. It has one easy-access USB port at the side and three well-nigh impossible to access ports at the rear. The i-Station doesn't draw its power from the monitor but from a separate mains supply — oh dear! It also has a 'maintenance' lead that links the two units together, and this allows display driver software to control the image.

Price Monitor £480.58 (£409 ex VAT), Hub £104.58 (£89 ex VAT) **Contact** PDS 01483 719500 www.eizo.com



Microsoft SideWinder Precision Pro ▷

The only difference between the USB and the ordinary version of the SideWinder Precision Pro is the small joystick port-to-USB adapter lead included in the box. Like most of the other USB devices, the SPP was a doddle to install — you don't, for example, need a sound-card joystick port to plug this in to. The SPP is a good-quality joystick, certainly on a par with the likes of the Logitech Wingman Extreme Digital. Sadly, the force-feedback version of the SPP isn't available in USB format.

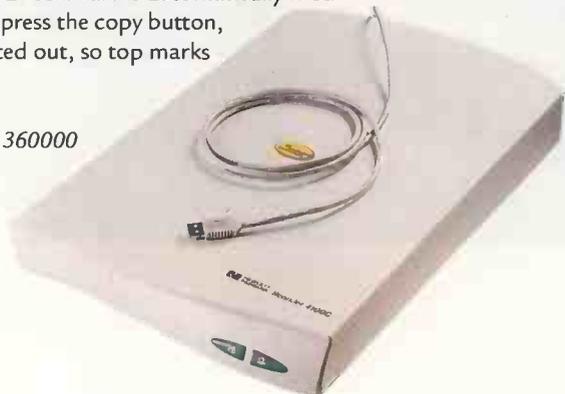
Price £50 (£42.55 ex VAT) **Contact** Microsoft 0870 601 0100 www.microsoft.com



▽ Hewlett-Packard ScanJet 4100C

The ScanJet 4100C is the new entry-level ScanJet, although it's still relatively expensive. It's an A4 flatbed 36-bit colour scanner with an optical resolution of 600dpi, only modestly extendable to 1200dpi by interpolation. These scanners ship with HP's Precision Scan LT for one-step scanning, with automated OCR courtesy of Caere OmniPage, plus Adobe PhotoDeluxe and HP's ScanJet Colour Copy Utility — an excellent software bundle. The 4100C was one of the first scanners to feature a USB interface, making installation truly painless. The scanner also has two large, green buttons on its front panel: press the scan button and the Precision Scan LT software is automatically fired up and a scan initiated. If you press the copy button, the image is scanned and printed out, so top marks for convenience here.

Price £149 (£126.80 ex VAT) **Contact** Hewlett-Packard 01344 360000 www.hp.com





Entrega Hub 7U

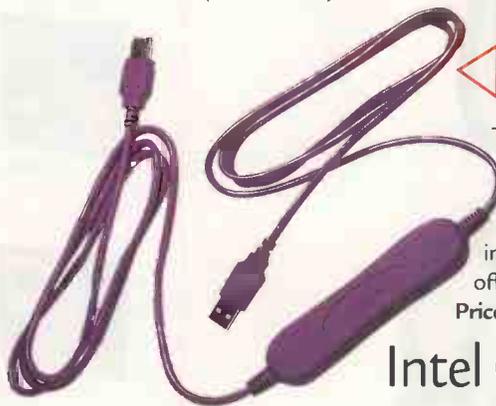
I've already discussed the hub elsewhere, but if you want to use more than two USB devices, you're going to want something like this. The Hub7U is a passive device, like an Ethernet hub, which is mains-powered, so it can support USB devices that need power. It requires no software support and is automatically recognised by the PC's chipset as a hub. Seven LEDs on the front indicate use — they're red if unused, green if used. Like its Ethernet relatives, the Hub7U is stackable and you can daisy-chain additional hubs together to expand the number of USB ports available.

Price £98.70 (£84 ex VAT) **Contact** Entrega 0118 951 9549 www.entrega.com

DrayTek ISDN Vigor 128

The Vigor 128 is a fairly conventional ISDN terminal adapter that connects to a USB rather than a serial port. Even though it's capable of channel aggregation, its maximum 128Kbps throughput won't really stress the USB bus. It's fairly easy to install, although it falls short of true Plug-and-Play. Betraying its 'Euro' design origins, it's well specified with EuroFile Transfer, Group 3 faxing and voicemail. The Kiosk utility provides useful low-level information on calls, such as CLI, and a real-time protocol analyser.

Price £175.08 (£149 ex VAT) **Contact** Electronic Frontier 0118 981 0600 www.electron.com



Traveling Software LapLink Pro

To hook two standalone PCs together to transfer data between them, you'd use the serial or parallel cables supplied. Parallel isn't a bad option, but USB's 12Mbps takes some beating. Accordingly, this version of LapLink doesn't come with the familiar blue or yellow cables of yore, but a single USB cable. Once LapLink is installed at both ends, it turns the USB link into a simple 12Mbps network link, offering similar performance to a 10Mbps Etherlink network connection.

Price £149.99 (£127.65 ex VAT) **Contact** Traveling Software 01344 409056 www.travsoft.com

Intel Create & Share

The USB version of the Intel Create & Share Camera Pack is the easiest to install and use. It's also the cheapest — the PCI version costs about £50 more, simply because you're paying for a video capture card. This Konica-made video camera is perfect for USB because it draws its power from the USB bus and so doesn't require a mains transformer. Once plugged in, Windows 98 detects the camera and installs the drivers for it from the accompanying CD-ROM. And that's it. If only more USB devices had this 'one cable' approach.

Price £117.50 (£100 ex VAT) **Contact** Intel 01793 403000 www.intel.com



Epson Stylus Color 740

This is one of the better colour inkjets money can buy and it's encouraging to at long last see a USB port alongside the Centronics port on the back of a new printer. Installation is a little convoluted because Windows 98 has to install a special printer port, USBLPT, to print to. However, once installed, printing to the USB port is noticeably nippier than using the parallel port, particularly when printing large true-colour, photorealistic images which involve a lot of data.

Price £223.25 (£190 ex VAT) **Contact** Epson UK 0800 220546 www.epson.co.uk

Microsoft Digital Sound System 80

The new Digital Sound System 80 comprises a hefty sub-woofer and two satellite speakers based on Philips technology. These speakers not only deliver some awesome sound, but can also do it at extreme volumes. These are perhaps the best PC speakers I've heard to date. Note that if the CPU is busy, the sound data stream can get interrupted, which is a pain. Another thing to remember is that USB audio is playback-only, so you can't record. Another gotcha — not all CD-ROMs can deliver digital audio to USB speakers.

Price £180 (£153.20 ex VAT) **Contact** Microsoft 0870 601 0100 www.microsoft.com





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IEEE 1394

Originally designed by Apple in the late eighties under the 'FireWire' moniker, the concept behind the 1394 bus was simple: that a fast serial bus, with sufficiently clever physical-layer design, could be both fast enough to handle a rich mix of audio, video and data traffic and yet simple enough to be affordable. By supporting hot insertion and a plug-and-play protocol, FireWire could simplify the lives of Mac users who were putting together multimedia systems. The idea was good enough to spread beyond the shrinking confines of Apple, and emerged into the consumer-electronics and PC worlds as the IEEE (Institute of Electrical and Electronic Engineers) 1394 bus.

By providing an inexpensive, non-proprietary, high-speed method of interconnecting digital devices, 1394 offers a universal I/O connection. Its scalable architecture and flexible peer-to-peer topology make it ideal for connecting high-speed devices: everything from computers and hard drives, to digital audio and video hardware.

You can mix 100, 200 and 400Mbps devices on a single bus. The current 1394 specification data transfer rate currently tops out at 400Mbps: the 1394b specification aims to adopt a different coding and data-transfer scheme that will scale to 800Mbps, 1.6Gbps and beyond. Even at its lowest speed of 100Mbps, 1394 supports two simultaneous channels of full motion (30fps), high-quality video and stereo audio, with enough bandwidth left over to issue commands to control the digital devices transmitting the audio and video.

As a peer-to-peer technology, there is no need to have a computer in the chain to control the data transfer. The 1394 cable consists of two pairs of wires for data transport, and one pair for device power. A unique feature of the 1394 cable is the distribution of power through the cable for operation of the transceiver's repeating functions, even if the node power is off.

1394 supports a guaranteed data path bandwidth called 'isochronous data transfers' and allows for real-time transmission of data to/from 1394 devices. This is important for audio and video applications such as MPEG and DV. Isochronous data transfers operate in a broadcast manner, where one or many 1394 devices can 'listen' to the data being transmitted. The emphasis of isochronous data transfers is placed on guaranteed data timing rather than guaranteed delivery, obviating the need for buffering. Multiple channels (up to 63) of

isochronous data can be transferred simultaneously on the 1394 bus. Since isochronous transfers can only take up a maximum of 80 percent of the 1394 bus bandwidth, there is enough bandwidth left over for additional asynchronous transfers.

Asynchronous data transmission includes receipt datagrams that indicate the data was transmitted reliably to the 1394 device. Asynchronous data transfers place emphasis on delivery rather than timing. The data transmission is guaranteed, and retries are supported.

As a transaction-based packet technology, 1394 can be organised as if it were memory space interconnected between devices. Memory-based addressing, rather than channel addressing, views resources as registers or memory that can be accessed with processor-to-memory transactions. In basic terms, all this means easy networking. 1394 devices can be connected via branching or daisy-chaining, so it is very easy for consumers to connect 1394 devices. For example, a digital camera can easily send pictures directly to a digital printer without a computer in the middle. In addition, up to 63 1394 devices can be connected together. With bus-bridging technology, up to 64,000 1394 devices can be connected — in theory!

This is bad news for the PC, which may well lose its position of dominance in the interconnectivity environment and may well be relegated to being a very intelligent peer. 1394 is going to be the interface for connecting handy-cams and VCRs, set-top boxes and televisions, although thus far its implementation has been largely in digital camcorders, where it is known as iLink. If a computer is needed later, it would involve nothing more than adding a 1394 cable to the computer — it's that easy. USB, although it is the current interface of choice, will never be a mainstream consumer electronics interface.

With all these advantages, it is surprising more manufacturers have not adopted 1394 in consumer devices. It's a digital interface, so there is no need to convert digital data into analogue, which causes a loss of data integrity — excellent for digital photography and video.

But most of all, for the consumer it is very easy to put together, with no need for

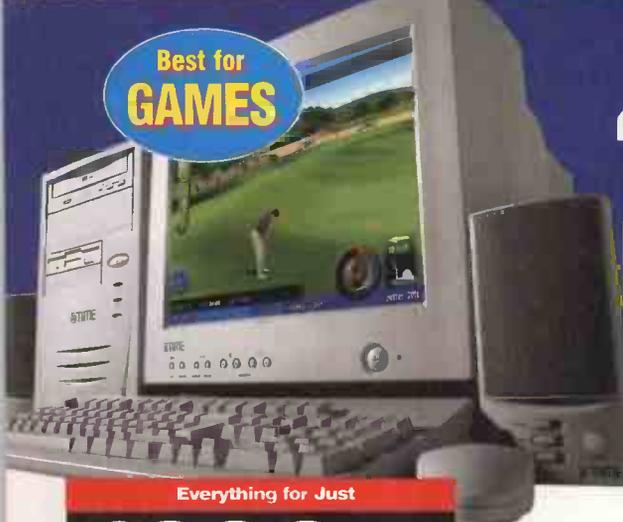


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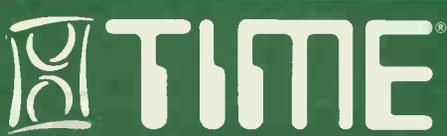


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terminators, device IDs, or elaborate setup. It represents true plug-and-play as 1394 devices can be connected to the computer or to one another at any time, with the power on or off and without rebooting and reconfiguring. In some cases, 1394 devices can even power themselves from the 1394 bus. The 1394 connector is tiny but very rugged – it was derived from Nintendo's GameBoy, so it is fully 'kid' tested! Unlike SCSI, terminators aren't needed for 1394 devices.

Microsoft Windows 98 does include support for 1394 but Intel declined to include 1394 support in its 1998 PC chipsets. It makes the point: 'How many people really want to plug their camcorders and digital VCRs into their PC?' However, sources indicate that Intel plans to come to market in early 1999 with its first 1394 silicon.

Traditional computer devices support 1394. 'Soon' there will be 1394 fixed-disk drives,

1394 printers, 1394 scanners and 1394 CD-ROM/DVD devices. Consequently, a computer with a 1394 port will be able to connect to a potentially huge number of 1394 computer devices, as well as to all of the available 1394 consumer electronics devices.



▷ Adaptec HotConnect Ultra 8945



This pricey expansion card has most high-speed options covered. Not only does it offer support for 1394, but it also supports Ultra SCSI; this is important if you want to run high-quality video off an AV-quality hard disk. Apart from the even dearer miroVideo MV300, Adaptec, with its 8945 and the down-spec'd 8920, has the PC 1394 market to itself. The card comes with three of the large, 6-pin 1394 connectors, one of which is internal. It comes with a 6-pin 1394 lead plus an adapter lead with the smaller 4-pin DV/GameBoy-style 1394 connector. The HotConnect Ultra supports data transfer rates of up to 200Mbps (or 25 megabytes per second) on the 1394 bus, the Ultra SCSI bus up to 40 megabytes per second. The card comes with some useful 1394 diagnostics and a very basic video and stills capture utility, DV Deck.

Price £403 (£343 ex VAT) **Contact** Adaptec 01276 854500 www.adaptec.com

Sony DCR PC-1E ▷

This is a gorgeous piece of AV kit, exquisitely designed in the Sony house-style. It's a 40X digital zoom DV camera with autofocus and a choice of small LCD display or a traditional viewfinder to frame your images. The PC-1E is well equipped with video ports: concealed under a tethered pull-off flap at the front is a GameBoy-style 4-pin 1394 (i.LINK in Sony-speak) port, while a cap at the side conceals a conventional S-VHS mini-DIN port.

Price £1,400 (£1,191.50 ex VAT)

Contact Sony Consumer Products 01932 816000 www.sony.com

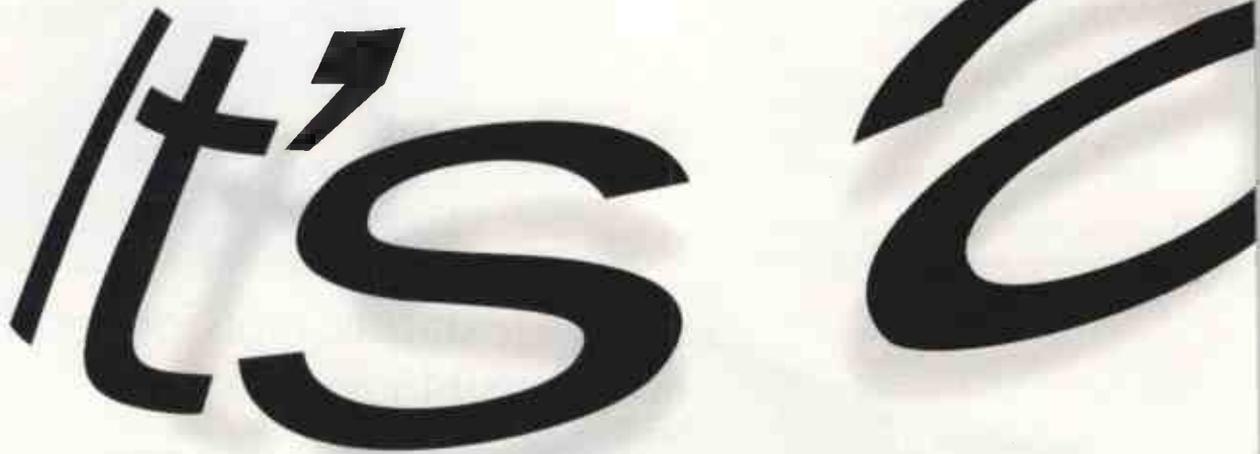


▽ JVC GR-DVL9000



This is a larger DV camcorder with a better spec than the Sony: it has a higher 500x560 resolution plus a much larger 4in hinged LCD display-cum-viewfinder and features 100X digital zoom. It's not quite as easy to use as the PC-1E or as neatly designed, but it has a similar array of video ports: an S-VHS mini-DIN port plus a small 4-pin DV/1394 output port. Note that this is an output port only – you can't, for example, record video from another 1394 source. This DV camera wasn't recognised by the Adaptec card and so I was unable to record images straight to disk. **Price** £1,798.93 (£1,531 ex VAT) **Contact** JVC 0181 208 7654 www.jvc.com

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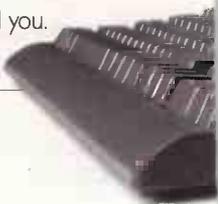
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The year of Win 2000



In a comprehensive review that takes in hardware, operating systems and next-generation CPU technology, we assess the eagerly awaited **Windows 2000 and its role in small business.**

The most anticipated arrival in 1999 is sure to be Windows 2000. Formerly known as Windows NT 5.0, it is certain to make waves when it hits the market.

Windows 2000 will be much more than a simple upgrade. In one sweeping move, it will remove the need for two mainstream operating systems and will sign the death warrant of Windows 9x. Windows 2000 is being pitched as an all-in-one solution for systems ranging from laptops to enterprise servers. So as well as possessing more functionality than its predecessor, Windows NT 4, it will also incorporate the best features of Windows 98.

Illustration by Marc Arundale

However, the operating system is nothing without the hardware to run it on, so we also take a look at the ideal hardware platform for a graphics workstation running Windows NT and Windows 2000. As part of the process we test single-processor and multiple-processor workstations with Pentium IIs and Xeons.

We also analyse the state of the operating-system market and the potential threat to Windows 2000 from Linux. And we explore the technology behind the next-generation CPUs scheduled to come out next year, and the role of Windows 2000 in a small-business environment.

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Tested, reviewed and compiled by Ajith Ram.

Future CPUs for Win2000

Microsoft's Windows 2000 is not the only anticipated arrival this year. Coinciding with its launch, the CPU manufacturers are gearing up to introduce a host of new processors which promise better performance.

The biggest surprise entrant will be K7 from Advanced Micro Devices. AMD has for some time been aggressively targeting Intel's massive 80 percent market share. Although the K6 was a good performer in most business applications, its floating-point performance fell below Intel's Pentium. This, along with lower clock speeds, prevented it from being widely accepted in high-end systems, so instead of pitching it against the PII, AMD used it to target the price-sensitive end of the market, running it head-to-head with Intel's Celeron.

However, last year AMD managed to up the ante with the introduction of the K6-2 processor. The K6-2, with its 27 3D Now! instructions, started to reduce the gap between it and the PII, but not all applications make use of the instructions and so do not gain a performance boost. AMD has now introduced the K6-3 (for a full review of this chip, see *Reviews*, p79). With speeds in excess of 400MHz and a full-speed 256Kb L2 cache, it is the first x86 processor to truly challenge Intel's dominance in high-end systems.

Hot on the heels of the K6-3, AMD is poised to launch the K7. Despite its unassuming name, the K7 is expected to give Intel's Katmai processor, the replacement for the Pentium II, a run for its money. Until both processors are released it will be hard to say which will be the best, but many are backing AMD. In addition to support for 3D Now!, the K7 will have no less than three fully pipelined parallel floating-point units. This, along with its already superior integer unit, could well make the K7 the best x86 processor to run Windows 2000. In fact, with such impressive floating-point performance and a faster bus speed, the K7 will become the first x86 CPU to truly challenge the dominance of RISC processors.

The K7 is expected to give Intel's Katmai a run for its money

Initially manufactured using a 0.25-micron process, the K7 will run at clock speeds starting at 500MHz. This itself positions it as a high-end processor. Secondly, the K7 will have a whopping 128Kb L1 cache running at the same clock speed as the processor core. This will be supplemented by 512Kb of L2 cache at half the core clock speed. To put this in perspective, Intel's high-end Katmai has only 64Kb of L1 cache — half that of the K7. Secondly, K7 will use the Slot A socket which AMD licensed from Digital last year. The Slot A has a front-side bus speed of 200MHz, compared to the 100MHz in Intel's architecture. This means the K7 will be the first CPU to take full advantage of higher-speed memory types like SDRAM and RDRAM. K7 will also be able to run in multiprocessor configurations needed for high-end Windows 2000 workstations and servers.

Katmai will surface next month, when we will give it a full review. It will run at a clock speed of 450 or 500MHz and is targeted at enthusiasts and mainstream high-end users. This extra speed, along with some expected minor core changes, will allow it to offer a small performance advantage over Pentium II on typical PC applications, and a large advantage on applications that use the multimedia extensions known as Katmai New Instructions (KNI).

Katmai is more than just a faster processor, and signals the convergence of new chipsets, DRAM technology, a graphics bus, MMX instruction set and graphics components. Katmai itself will have the same core as the PII and initially will be produced on a 0.25-micron process. It is expected to provide up to

512Kb of L2 cache. It will stick with a 64-bit CPU bus and rely on deeper pipelining capabilities to take advantage of wider buses and encourage the use of multiprocessing systems. Katmai will come with 70 new single-instruction, multiple-data



▲ **KATMAI** (EXPECTED TO BE CALLED **PENTIUM III** — SEE NEWS) AND MOST RECENT **PENTIUM IIs** USE A NEW TYPE OF PACKAGING, **SECC2** (SINGLE EDGE CONTACT CARTRIDGE 2). THE MAIN DIFFERENCE FROM THE ORIGINAL **SECC** PACKAGE IS THE REMOVAL OF THE THERMAL PLATE (THE 'BACK' OF THE PROCESSOR WHERE THE HEATSINK ATTACHES). THE TWO MAIN BENEFITS ARE A COST REDUCTION, AND THE REMOVAL OF THE NEED TO USE A FAN DUE TO MORE EFFICIENT HEAT CONDUCTION. **KATMAI** IS DESIGNED TO RUN WITH A PASSIVE HEATSINK PROVIDED THE CHASSIS PERMITS ADEQUATE AIRFLOW

(SIMD) floating-point instructions to accelerate 3D processing. Intel's current MMX instruction set is based on SIMD integer data types. While useful for presenting certain audio, video and 2D images, they provide less precision and range for 3D geometry processing. Graphics performance will be further boosted by the 4x Accelerated Graphics Bus, which will increase the available bandwidth between the graphics controller and main memory from 528Mbps to 1Gbps.

For the very high-end user there are other options, however. Windows 2000 is expected to be widely adopted by the graphics community, traditionally the realm of Apple Macs and Digital NT workstations, and with this will come a

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shift away from traditional RISC-based processors such as the Alpha and the Sparc. Intel has plans to break into this market with another processor scheduled to arrive in the new millennium. The Merced is Intel's first 64-bit CPU based on a new IA-64 architecture. Touted as the best processor for Windows 2000, Merced has generated intense excitement in the industry. Many firms who currently rely on RISC processors have already announced support for Merced.

One of them is Silicon Graphics (SGI), which has a sterling reputation for building workstations for animation and image rendering. Until now, these workstations were predominantly built around SGI's own MIPS RISC processor. Similarly, HP will make the swap to Intel's processor. Merced will replace HP's own ageing PA-RISC processors.

While this is good news for Intel, the road ahead is not so clear for firms like SGI and Hewlett-Packard. The main problem will be a lack of identity in a crowded market. Until now, these companies could be easily differentiated with their unique products. But once Windows 2000 and Merced become dominant, their products will seem to the unpractised eye to have fallen out of the same mould.

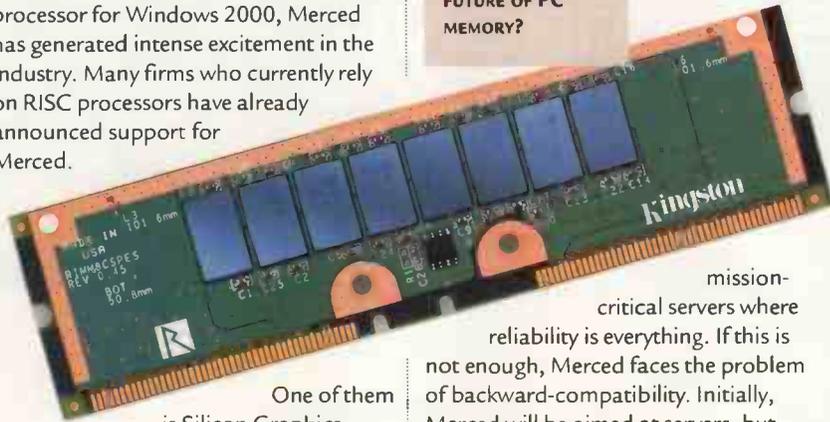
Despite the support, Merced also faces an uphill battle — partly due to its constantly slipping launch date. Originally scheduled to arrive early last year, Merced is now expected to hit the streets in early 2000. This has given other manufacturers, like Digital and Sun Microsystems, time to consolidate their positions.

Digital's Alpha processor has a strong foothold in the Windows NT workstation market. The processor is expected to attain a clock speed of 1GHz later this year. Intel's IA-64 processors will touch this speed only with the entry of McKinley, the successor to Merced. Hence, the Alpha will retain its superiority in the Windows 2000 environment even after the launch of Merced. In turn, Sun Microsystems also has aggressive plans for its 64-bit

UltraSparc processor. UltraSparc will hit 600MHz later this year and 1.5GHz by 2002. Moreover, unlike IA-64, UltraSparc has the advantage of being a tried and tested 64-bit CPU, so some

buyers may prefer to have it in their

▼RDRAM: THE FUTURE OF PC MEMORY?



mission-critical servers where reliability is everything. If this is not enough, Merced faces the problem of backward-compatibility. Initially, Merced will be aimed at servers, but soon afterwards it will enter the Unix and Windows 2000 workstation arena. Any 64-bit processor running Windows 2000 needs to be backwards-compatible with literally hundreds of 16- and 32-bit applications. Merced does have a 32-bit core to run these applications in hardware, but this is likely to run only at a fraction of the clock speed of the main processor. So, many important 32-bit applications will not run any faster than on a much cheaper x86 system.

The IA-64 architecture relies heavily on its internal compiler and programmer to show increased performance. Even when Merced arrives next year, efficient compilers optimised for the IA-64 architecture will be very few. This makes creating good programs for the new architecture more difficult. Moreover, the same programs compiled using different partially tested IA-64 compilers may have bugs or may run differently on the same processor. In other words, despite the hype, the IA-64 architecture is likely to have the same evolutionary curve as the original x86. And until these problems are resolved, other processors may be the best solutions for running Windows 2000.

New CPUs and operating systems are not the only things making an appearance this year. The type of memory inside the PC is also scheduled to change. The main contender for replacing the ageing SDRAM is a

proprietary standard developed by Rambus Inc and supported by Intel.

Like Windows 2000 and Merced, RDRAM has received a lot of attention recently. This is partly due to its impressive specifications — at least on paper — and not least of these is its speed. RDRAM promises speeds as high as 800MHz, or eight times faster than existing SDRAM. However, this impressive performance and accompanying hype hide some potential problems. The first problem is caused by the brute speed of the memory module itself. Any type of RAM running at 800MHz will dissipate lots of heat. This means RDRAM will likely require extra cooling. Again, due to its high clock speed, RDRAM may require special shielding from electromagnetic interference.

Latency timings for RDRAM are actually worse than current SDRAM. This was necessary to increase memory bandwidth. Since most applications even now do not use the full bandwidth, RDRAM's increased memory bandwidth may not result in better performance. However, the biggest problem facing RDRAM is that it is a proprietary technology. This means manufacturers will have to pay a licence fee to Rambus and Intel. In effect, this turns even large RAM manufacturers like Samsung and Siemens into mere chip foundries. Also, the manufacturers have no control over future memory designs.

Fearing this scenario, memory manufacturers have countered with another standard, called SDRAM. Although Intel does not support it yet, this type of memory has few

The type of memory inside the PC is also likely to change

of the limitations of RDRAM. An open standard, SDRAM technology is available free to all manufacturers. Its supporters claim that it can touch speeds as high as 800MHz — the same as RDRAM. While the peak bandwidth of RDRAM is 1.6Gb/s, SDRAM is able to achieve twice that. Its latency timings are also lower.

Recently, alongside Intel, AMD too came out in support of RDRAM from Rambus, and Intel invested around \$500m in one of the major memory manufacturers to ensure its support for RDRAM. Despite this, some memory manufacturers are not backing down from their support for its rival. Until this issue is resolved, workstations running Windows 2000 will continue to use current SDRAM.

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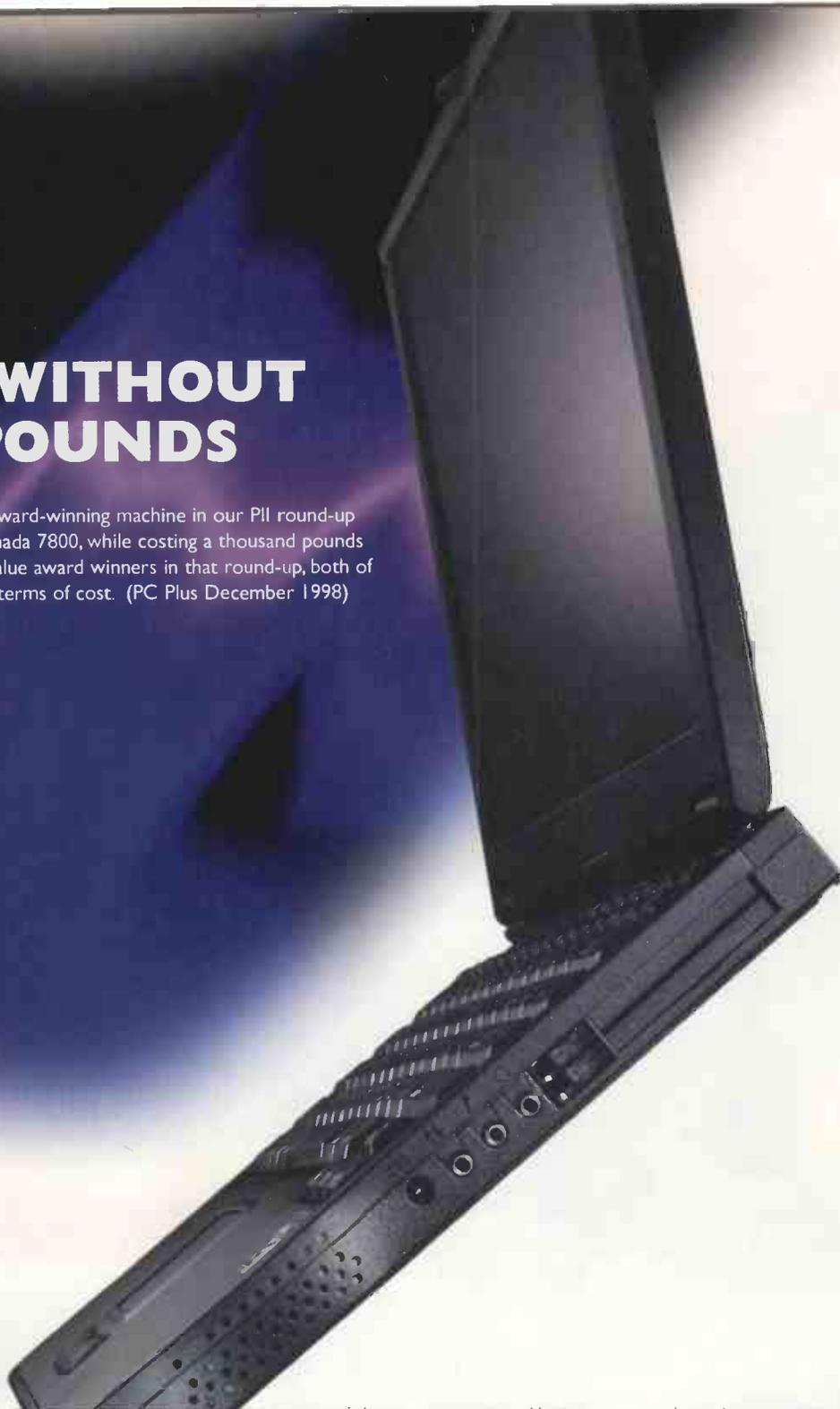
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Win2000 vs Linux

As the US Department of Justice well knows, there is no such thing as stiff competition in the operating-system market. Microsoft has over 90 percent market share, having decimated most opponents in both the PC and server markets. Unix and the Mac have been sidelined as mostly server, developer and graphics platforms, while even the traditional graphics markets are turning away from the Mac in favour of cheaper NT machines. IBM has given up on OS/2, and other proprietary OSes such as NeXT have long since bitten the dust.

Yet, until the middle of this year, there is a semblance of choice due to the presence of two mainstream desktop operating systems (albeit from the same vendor). Users can choose between the multimedia-friendly Windows 95/98 and the more robust Windows NT 4 Workstation.

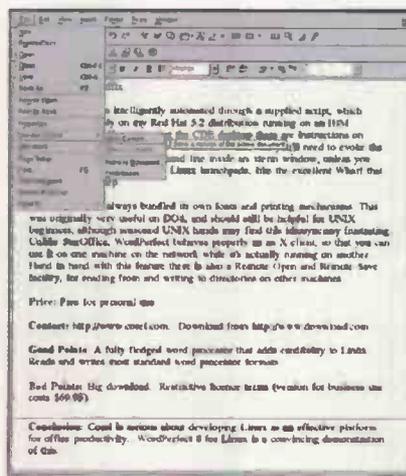
With the introduction of Windows 2000 even this limited choice disappears as both varieties of Windows are merged into one. There will also be a new range of Windows 2000 server OSes released at the same time, which will present a real challenge to competitors in the server market.

A full 32-bit OS, Windows 2000 will run systems ranging from NCs through laptops and desktops, on to workstations and finally enterprise-level servers. On the desktop it will have Windows 9x's plug-and-play and an increased driver base, but at the same time will provide enhanced manageability

Advocates would argue that Linux is more stable than Windows

features like an active directory for system administrators (see p160).

However, just as Microsoft is consolidating its stranglehold on the OS market, other OSes are beginning to gather attention. Chief among these is Linux, an open-source code OS renowned for its stability and performance. Originally coded by Linus Torvalds in 1991 as an undergraduate project, Linux was originally part of a Unix development project led by MIT. From the very beginning, it has had one great attraction — that the code is freely



available to anyone to use and to modify, the only stipulation being that those modifications be made public. From the time it was posted, over 200 developers have contributed code to the kernel and over 1,000 have added patches or bug fixes. So the kernel has grown from around ten thousand lines of code to around 1.5 million lines, and from being a piecemeal kernel to an OS run on servers and desktops by around 7.5 million users. And Linus Torvalds still has an interest in the project, often having the final say in what is or not accepted into the kernel code.

▲ COREL WORDPERFECT FOR LINUX, REVIEWED IN THIS ISSUE [p91]

Commercial developers of Linux do exist: Red Hat and Caldera have done very nicely out of commercial Linux products, providing not just the product itself but also a support infrastructure. As developers are obliged to make their source code public, they are forced to innovate faster to stay ahead of the game. This also meant that Linux developed faster and is, as advocates would argue, a more stable server OS than Windows.

While it has slowly been growing in popularity, Linux recently gained a great deal of publicity thanks to Microsoft itself. Two internal Microsoft memos (dubbed the 'Halloween' memos) were leaked to a prominent open-source developer who annotated them and published them on the web. You can read the two long memos on the Open Source Software site <www.opensource.org>

The memos' author talks of the rapid development cycle of Linux and indeed other open-source software and suggests Microsoft should take note. The first memo admits that Linux looks a more promising server OS than NT and that in the short term, Microsoft should watch its back. The second memo is more damning, as it considers Linux to be a very real threat, even in the desktop environment. And Microsoft has good reason to worry.

Part of the reason is Linux's low system requirements. Windows 2000 on the desktop will need a PIII300 with 64Mb of RAM, yet at present Linux will quite happily run a DNS server on an old 486. It is also eat home on x86 processors from Intel, Cyrix and AMD as it is on PowerPC, Alpha, MIPS and SPARC.

Nor can you throw at Linux some of the criticisms justifiably levelled at it a few years ago. While there are not as many applications available for Linux as there are for the Windows environment, there are enough to be going on with, and not all are server/web based. Corel has a free downloadable version of WordPerfect for Linux (see p91), and there is even a basic image editor. Fast development times are also possible due to the shared and open code and APIs, allowing new applications to be developed and ported to different platforms very quickly. Linux developer Red Hat has developed a versatile GUI, and the author of the Halloween memo admits that many users could quickly become accustomed to its peculiarities.

Many large, specialist firms such as ISPs are happy to run Linux as it is stable but at the same time they have the resources to employ Linux hackers to put right any problems. Here again, the open source code is a major advantage as in-house staff can correct any bugs immediately, rather than having to wait for large software vendors to correct them in the next product refresh.

Yet even with these advantages, Linux faces an uphill struggle. The main reason for this is the popularity of Windows itself. Over 90 percent of PCs run Windows and therefore most users, and more importantly corporate buyers, are likely to stick with what is familiar to them.

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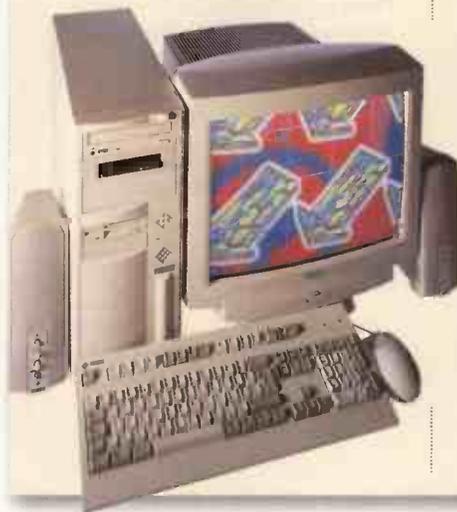


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Mesh Elite Pro 450 PII

Intel always pushes its most powerful processor as a workstation chip, whether manufacturers take note of this or not. However, once a 400MHz version of the Pentium II was launched, it has become a viable alternative in some high-end workstations. This is mostly due to its powerful floating-point unit. Although nowhere near as powerful as those in RISC processors like Digital's Alpha, it still



provides good value for money. The single processor in the Mesh system rests on an Asustek motherboard built around Intel's 440BX chipset. Since the motherboard is capable of housing two processors, the Mesh workstation is easily upgradeable. It has 256Mb of RAM in two 128Mb modules. Two other DIMM slots are left free. SCSI devices are mandatory for performance workstations, providing high bandwidth. Like the drive in the Dell system, the Alpha's 9.1Gb UltraWide SCSI hard drive may prove too small for some applications. Mesh has thoughtfully included an Iomega Jaz drive. Capable of holding 2Gb of data, this is a much better option for a workstation than the smaller-capacity Zip drive.

The graphics card in the Elite Pro is the Millennium G200 from Matrox. Built around the G200 chipset, this card is usually more common in high-end PCs. Although it has a high fill rate and an excellent feature set, the Millennium G200 lacks full OpenGL

support. Therefore, an accelerated preview window is not available for Lightwave 3D. However, since Lightwave relies only on the processor for actual rendering, overall system performance is not affected. The performance of the Mesh system is a good pointer to the value of an ordinary Pentium II.

PCW DETAILS

Price £2,466.33 (£2,099 ex VAT)

Contact Mesh Computers

0181 208 4706

www.meshplc.co.uk

Good Points Fast SCSI hard drive. Iomega Jaz drive.

Bad Points Modest-size hard drive.

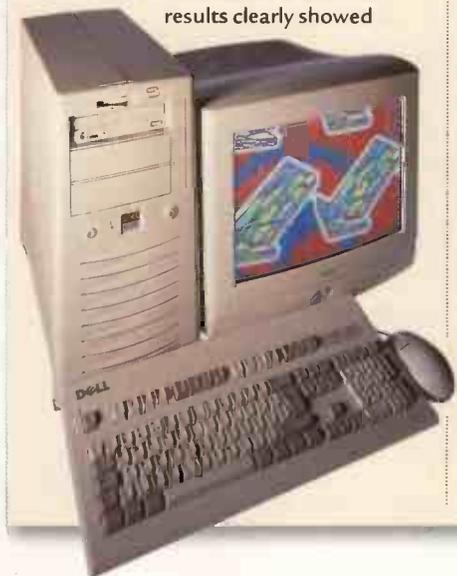
Conclusion Easily upgradeable.

Excellent value for money.

| | |
|------------------------|------|
| Build Quality | ★★★★ |
| Performance | ★★★★ |
| Value for Money | ★★★★ |
| Overall Rating | ★★★★ |

Dell Precision Dual PII WS 410

The Dell runs dual Pentium II 450 processors. Like Unix and Linux, Windows NT supports symmetric multi-processing, or the ability to use more than one processor to perform tasks. However, for symmetric multiprocessing to work properly, the application must also be multi-threaded. Lightwave 3D, which we used in our tests, is multithreaded and so the results clearly showed



up the advantages of multiple processors. With its dual Pentium II 450 processors, this Dell workstation outclassed the costlier Xeon systems. And as Windows 2000 will have better support for multiprocessing, performance is likely to increase further. As befitting a high-end workstation, the Dell system has 256Mb of RAM on two DIMM slots. The memory can be upgraded to a maximum 512Mb if the remaining two slots are also used. The 9Gb hard drive and CD-ROM are both SCSI versions. However, the hard drive, at 7200rpm, is not the fastest. Also, its size might prove too small while handling large files.

Wisely, Dell has chosen the Diamond FireGL Pro 1000 graphics card. Based on the Permedia2 chipset from 3DLabs, it has excellent DirectX and OpenGL support. Its performance is on a par with other professional graphics cards costing much more. Again highlighting its high build-quality, the Dell system has a 64-bit

PCI slot which is more prevalent in servers. This high-bandwidth slot is occupied by a RAID card with 16Mb of RAM on-board. The system's performance does not benefit from its presence, as there is no second hard drive, but it does make for straightforward upgrading.

PCW DETAILS

Price £3,783.50 (£3,220 ex VAT)

Contact Dell 0870 152 4850

www.dell.co.uk

Good Points 64-bit PCI slot. RAID card.

Bad Points Modest hard drive. No second drive to utilise the RAID card.

Conclusion A good workstation for running Windows 2000.

| | |
|------------------------|------|
| Build Quality | ★★★ |
| Performance | ★★★★ |
| Value for Money | ★★★ |
| Overall Rating | ★★★ |

Armari Rage X2E-XEON

The Armari system is an outstanding example of a well-built workstation. The first thing you notice about it is the large ATX case. The interior is very spacious despite the huge heat sink on the Xeon processor. The heat sink itself has a handle, so it is easier to remove it along with the CPU without affecting other components. The Rage system is easily upgradeable. In addition to two DIMM slots, three PCI and two ISA slots are free. The large ATX



case also provides a lot of free drive bays. Armari has chosen an Oxygen GMX graphics card from 3DLabs. Unlike the Millennium G200 and Permedia2 graphics cards, Oxygen GMX is a true workstation card with a whopping 96Mb of RAM. It also has a dedicated Glint geometry processor. This lessens the load on the CPU during geometry-intensive modelling sessions in applications such as Lightwave 3D. However, the graphics card makes no difference to the actual rendering itself. Both the hard drive and the CD-R are SCSI models and the on-board SCSI chip saves a PCI slot. The Armari system does not have a RAID card, but since there is no second hard drive, this does not hamper performance. The motherboard cannot hold a second Xeon processor.

The Xeon itself is being marketed as both a workstation and a server processor: its large, full-speed cache comes in handy for systems with heavy strain on their I/O buses, such as servers. As workstation applications rarely strain the I/O, we

were not surprised that this Xeon workstation shows only the same performance as a normal Pentium II. Armari itself was only able to see a speed increase when running multiple video streams on the Xeon.

PCW DETAILS

Price £4,929.13 (£4,195 ex VAT)

Contact Armari 0181 810 7441
www.armari.co.uk

Good Points Excellent construction. Easily upgradeable. High-quality components.

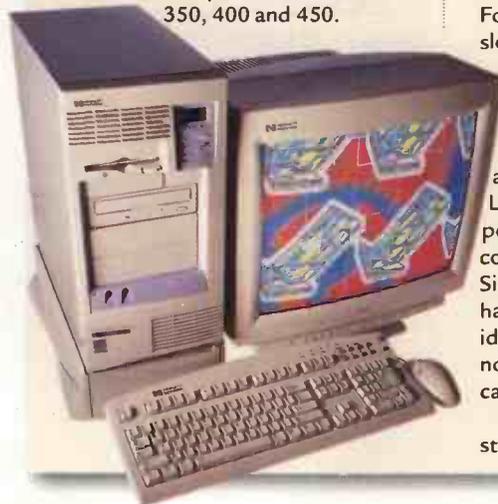
Bad Points Understandably disappointing performance from the Xeon.

Conclusion A well-constructed workstation with high-quality components.

| | |
|------------------------|-------|
| Build Quality | ★★★★★ |
| Performance | ★★★ |
| Value for Money | ★★★ |
| Overall Rating | ★★★★★ |

Hewlett-Packard KayakXU-Dual Xeon

The Kayak range of systems from HP is one of the most well-known workstation brands on the market. The system included here has dual Xeon processors. Each Xeon runs at 450MHz and has 512Kb of cache running at the same clock speed. The Kayak's motherboard uses Intel's GX chipset based on the Slot 2 architecture employed by Xeon. However, its front-side bus speed is the same 100MHz that you find on the faster Slot 1 processors, the PII 350, 400 and 450.



The board has four PCI and one ISA slots free, and the SCSI controller is built on to the motherboard. The Kayak case, while not as large as the Armari's, has sufficient drive bays free for upgrading. Although the 4.5Gb hard drive is fast, it is much, much too small for a workstation. The Kayak came with only 128Mb of RAM. Although adequate for running most NT applications, it might prove insufficient for animation packages like Lightwave. Fortunately, the three free DIMM slots provide ample room for upgrading.

A unique feature of the Hewlett-Packard system is a small blue box attached to its front panel. An LCD panel located here identifies possible hardware and software conflicts within the workstation. Since Windows NT 4.0 does not have plug-and-play for hardware, identifying hardware conflicts is not easy. At such times, this gizmo can come in handy.

The Kayak did not work well straight out of the box, but we were

able to resolve the problem by reinstalling all the four NT 4.0 service packs. Despite the presence of two expensive Xeon processors, the Kayak produced only average results. Its performance in the Lightwave tests was not as good as the dual Pentium II Dell system, again due to the low I/O demands of the test.

PCW DETAILS

Price £6,932.50 (£5,900 ex VAT)

Contact HP 0990 474747
www.hp.com/go/kayak

Good Points Excellent construction. Troubleshooting module

Bad Points Small hard drive. Low RAM.

Conclusion An expensive but well-specified workstation.

| | |
|------------------------|-------|
| Build Quality | ★★★★★ |
| Performance | ★★★ |
| Value for Money | ★★★ |
| Overall Rating | ★★★ |

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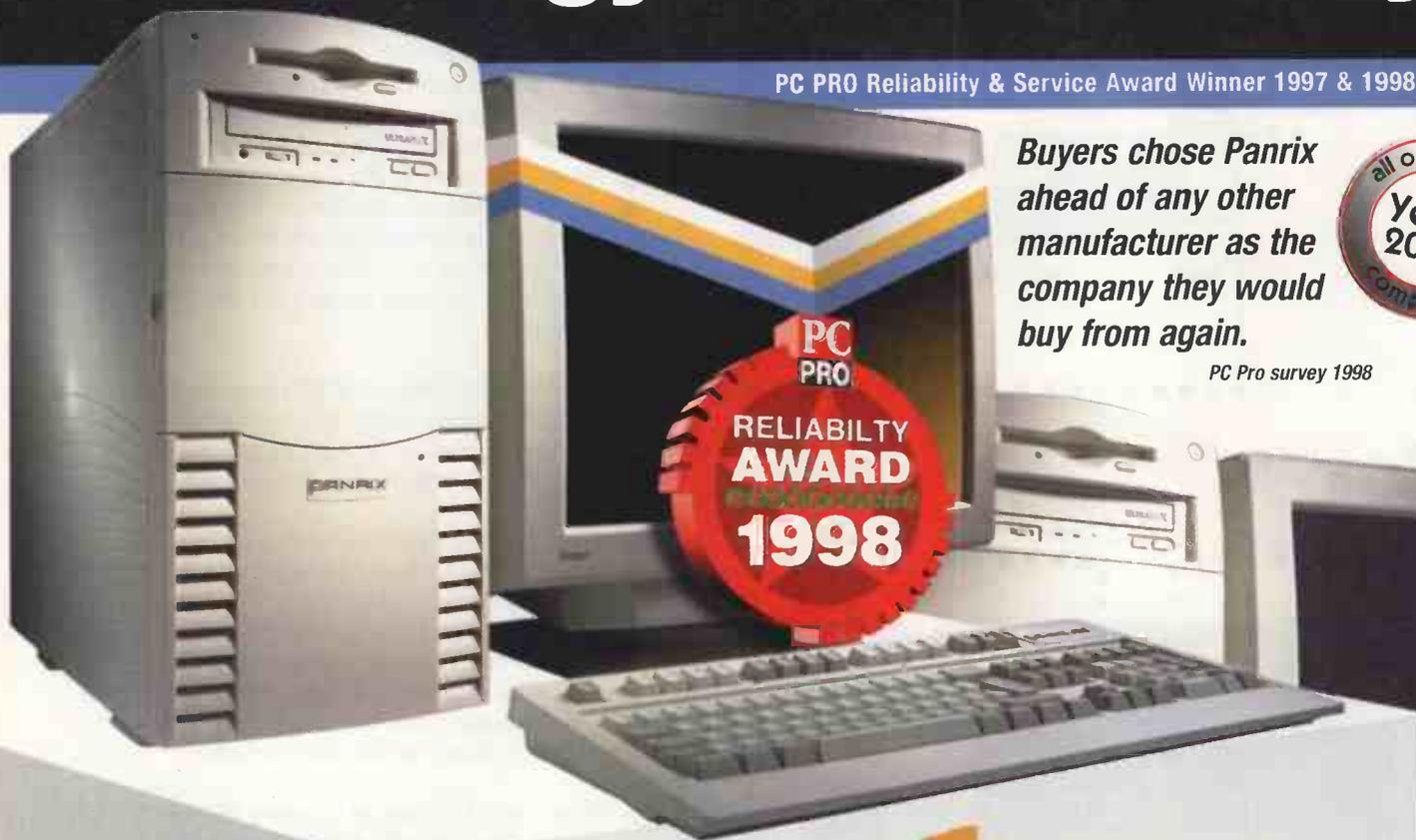
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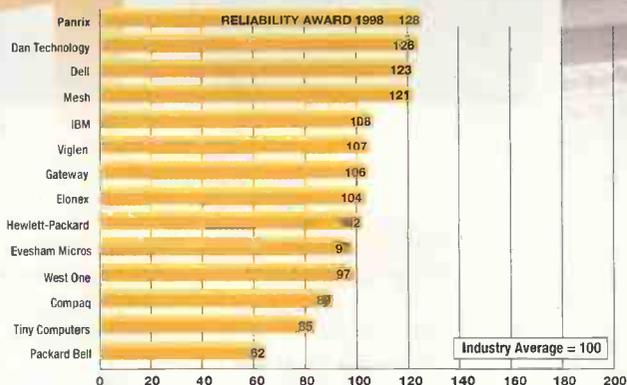
PC Pro survey 1998



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Scores for Reliability – PCs



Graph shows the performance of the top 14 PC manufacturers surveyed by PC Pro relative to each other and where relevant to an industry average.



Feb 1999



Jan 1999



Jan 1999



1998 / 99



Dec 1998



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'PC Pro' polled thousands of readers to be in the unique position of statistically pinpointing who makes the most reliable PCs, (data processed by independent research specialist Finer Weston). The 1998 Reliability and Service Survey was conducted using a computer program distributed on a cover CD, in addition PC Pro's partner in this research, Microsoft, made the survey program available from its website. From a short list of 15

PC vendors there was one winner...Panrix. Panrix still knows how to make a quality PC and wins this award for the second year running. A low component failure rate allied with good overall reliability of its systems pushed Panrix to the top of the list as manufacturers of the most reliable systems in the industry.

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| Mouse | Microsoft IntelliMouse | Microsoft IntelliMouse | Microsoft IntelliMouse | Microsoft IntelliMouse | Microsoft IntelliMouse |
| Software | Microsoft Windows '98 CD | MS '98 CD, 10 CD's inc SmartSuite 97 | MS '98 CD, MS Works V4.5 CD | MS '98 CD, SmartSuite Millennium | MS NT4 CD, SmartSuite Millennium |
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Win2000 in business

For years, it has been Microsoft's stance that businesses wishing to effectively manage their networks should adopt Windows NT rather than Windows 3.1 or Windows 95. There are some sound reasons for this.

To begin with, Windows NT is a full 32-bit operating system, unlike its counterparts. It was designed to be a network operating system from the beginning. Like Novell's NetWare, Windows NT provides enhanced security features. For system administrators, NT provides better manageability. In contrast, the Windows 9x family was firmly intended for the home user and small-business user. However, this clear delineation between corporate and consumer operating systems will end with the launch of Windows 2000. The entry of the new operating system will see the end of the line for Windows 98.

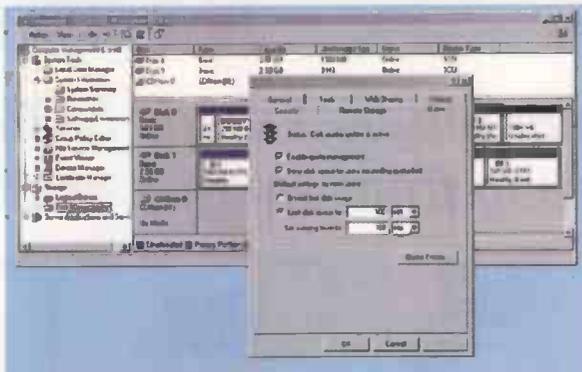
Windows 2000, although built on the NT 4 foundation, will be very different from its predecessor. As the only operating system designed to carry Microsoft's name into the next millennium, it will incorporate the best features of NT 4 and Windows 95/98. Like Windows 95, Windows 2000 will have plug-and-play support for hardware. Microsoft did not incorporate this in Windows NT due to security considerations. But this later caused tremendous problems for system administrators.

Windows NT also lacks support for Microsoft's own DirectX 5 API. With the phenomenal increase in multimedia

The new OS will see the end of the line for Windows 98

applications, this has proved to be a major handicap. Many high-end animation and design packages were not modified to run on NT. Therefore, many businesses continue to use Windows 95/98 on individual PCs while using NT only for servers. Windows 2000 will rectify this problem with built-in support for DirectX 6. Moreover, it will have support for new technologies like DVD which is lacking in NT.

Compared to its predecessors, Windows NT provides excellent



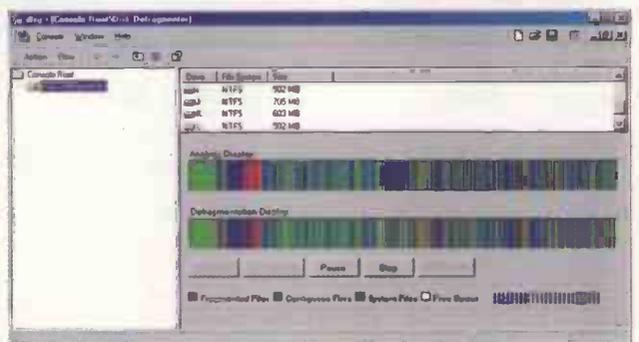
DISK QUOTAS CAN LIMIT THE AMOUNT OF STORAGE USERS CAN OCCUPY
FOR THE FIRST TIME IN WINDOWS, A DISK DEFRAGMENTER WILL BE INCLUDED IN WIN2000

manageability features for system administrators. However, it still lags behind other network operating systems, so small businesses have to rely on expensive third-party utilities. Microsoft promises to address this more comprehensively in Windows 2000.

Unlike Windows NT, Windows 2000 will come bundled with 'lite' versions of third-party utilities like Diskeeper for defragmenting hard drives. The Windows Directory Services in NT 4.0 will have its counterpart in Windows 2000; the Active Directory in Windows 2000 (see p162) is more versatile than its predecessor.

With the massive increase in internet use and the virtual explosion in corporate intranets, security has become the primary concern for most businesses. Since its launch, several security bugs in NT 4.0 have been identified. Although Windows 2000 will provide better protection, it is unlikely to be bug-free. In fact, due to the addition of new features like plug-and-play, some analysts doubt whether it is the best solution for small networks with limited firewall protection. Small businesses that harbour such concerns might be better off remaining a bit longer with NT 4.0.

Reliability is another critical issue. Although Windows 2000 is much more robust than 95/98, its core features are the same as NT. System administrators still complain that NT is nowhere as dependable as 64-bit operating systems like Unix or even Linux. Therefore, until the reliability of the new operating

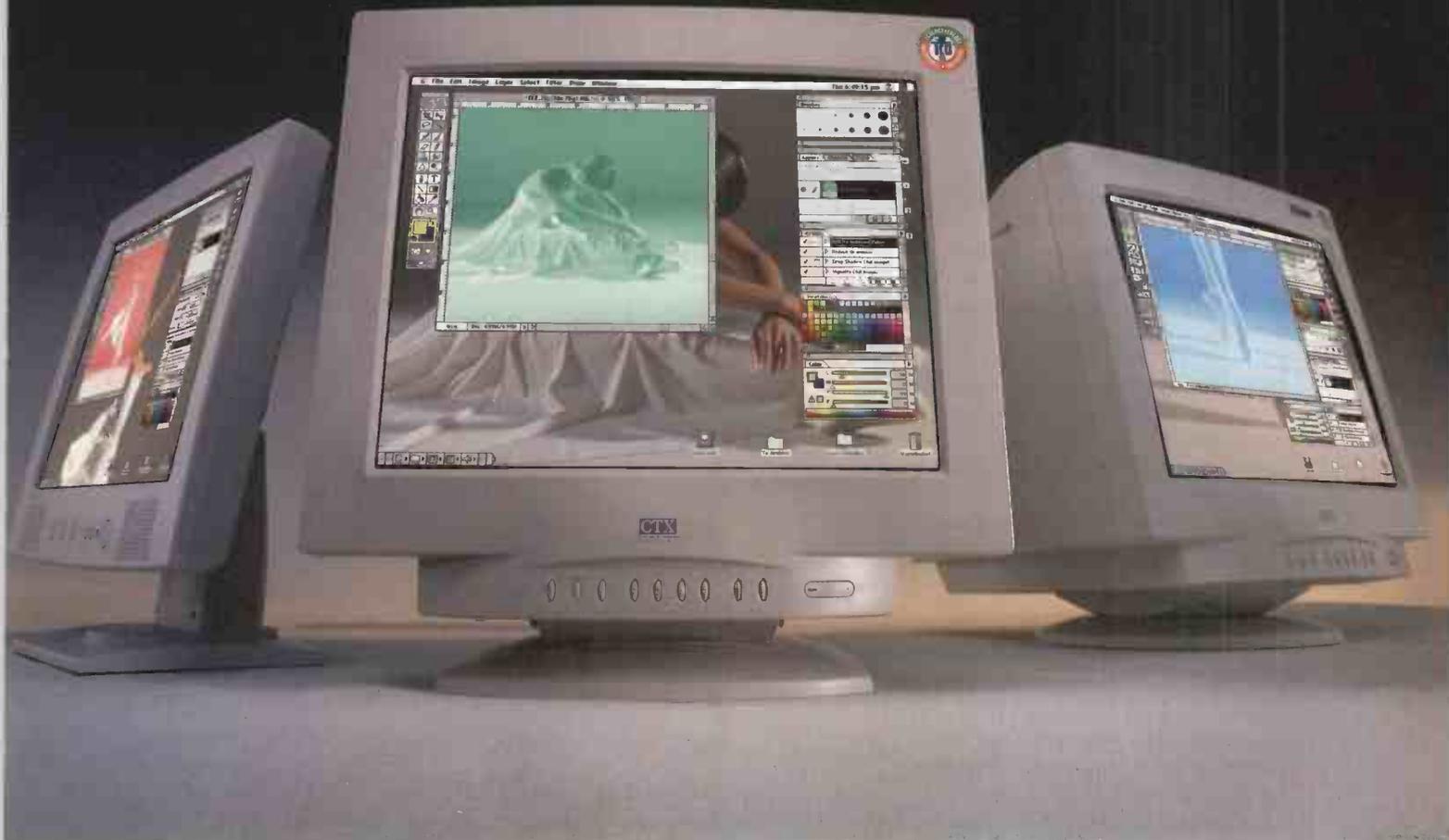


system is proved, it might be prudent to run mission-critical applications on other OSes.

By Microsoft's own admission, upgrading old laptops to Windows 2000 will not be easy. A typical laptop today with 32Mb of RAM upgraded to Windows 2000 may not run very efficiently. The whole system may come to a standstill if memory-intensive applications like Photoshop are used. Laptop components and drivers also differ greatly from desktops: Windows 2000 may conflict with many legacy hardware drivers.

Driver conflicts are a possibility not just in laptops: old NT 4.0 drivers will not work with Windows 2000. Therefore, early in 1998, Microsoft moved hardware vendors to the new Windows Driver Model (WDM) for Windows 98. WDM drivers also work under Windows 2000, but the truth is that WDM drivers will not be available for many legacy components. Although users can theoretically upgrade from old OSes like Windows 3.1, retaining the legacy hardware is a different matter. Even without driver conflicts, Windows 2000 will require more resources than Windows 95 or Windows NT 4. Microsoft is currently suggesting a PII300 with 64Mb of RAM.

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1785XA,
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Win2000 for your network

Windows 2000 will be a major evolutionary step from earlier versions of NT.

In addition to running desktops and laptops, Microsoft is hoping that the new operating system will challenge the dominance of Unix and NetWare on large enterprise-level servers.

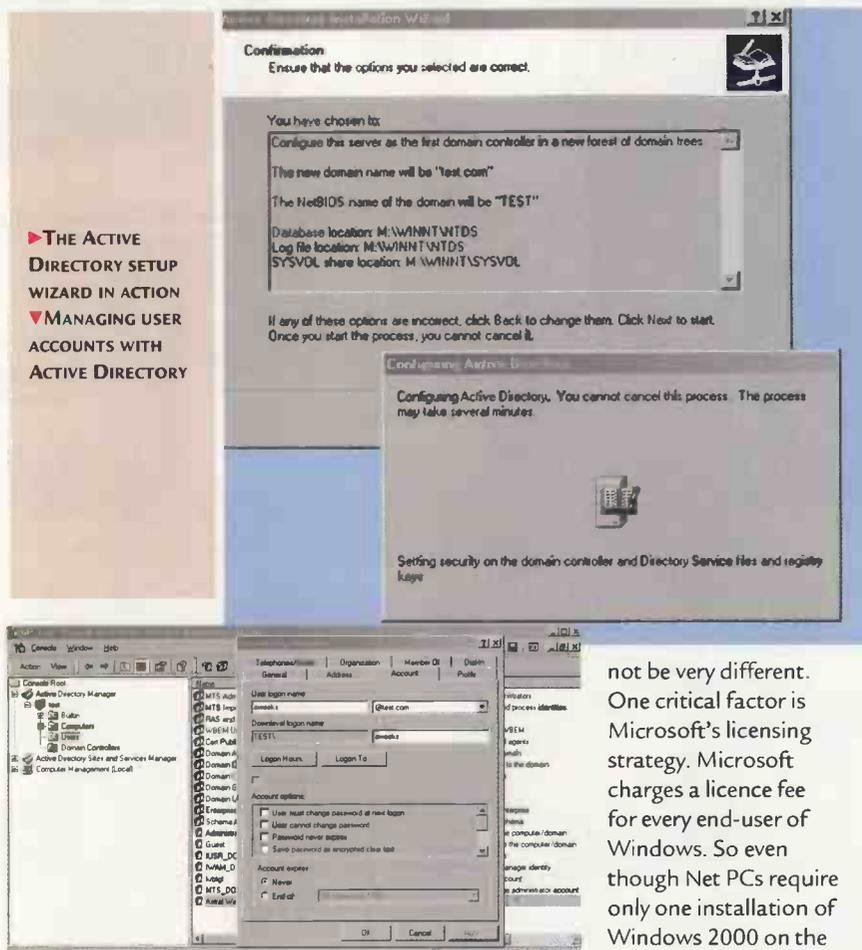
Unix has the advantage of being a full 64-bit OS which is extremely stable and scalable. Its security features are so far unrivalled. NetWare, meanwhile, provides excellent manageability to system administrators. To effectively compete with or replace these two incumbents, Windows 2000 must possess all these features and much more.

One of the key features of Windows 2000 is the Active Directory. A directory service provides a way to locate and identify the users and resources available in the system, a bit like a phone directory. Given a name for a person or a resource, it provides the information necessary to access that person or resource. For the system administrator, this is obviously vital information. Active Directory is a big step towards a more comprehensive directory service for large organisations. Microsoft hopes that Active Directory will be used not just for managing files or printers, but for all of a company's networking needs. This puts it in direct competition with NetWare Directory Services.

If you have both NetWare and Windows 2000, you have to choose between the directory services offered by the two. Microsoft is betting on the hope that administrators will choose Active Directory for the sake of convenience. Also, with the introduction of Active Directory, Microsoft has taken the opportunity to revamp its security structure. Unlike the proprietary security protocol in NT 4.0, Windows 2000 uses an open standard called Kerberos. Originally developed by MIT, Kerberos is the same protocol used in Unix environments. Therefore, unlike NT 4.0, even non-Windows users can be routed to a Windows 2000 server for verification. This also reduces the need to maintain non-Windows servers.

The integration of more features in Windows 2000 has implications not just for individual administrators concerned about ease of use. Entire corporations

▶ **THE ACTIVE DIRECTORY SETUP WIZARD IN ACTION**
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concerned about rising IT costs may have something to look forward to. TCO (total cost of ownership) is a phrase bandied about by all players in the IT industry, and is something Microsoft cannot afford to ignore. As a means of lowering TCO, network computers (NCs) were mooted. An updated version of the dumb terminal, NCs were meant to keep all applications and extraneous functionality away from the user and safely on the server. However, these NCs do not run Windows — an understandable cause for concern to Microsoft.

In response, Microsoft came up with the Net PC specification. Net PCs process some of the data locally on low-powered machines, while depending on the server for most functions. Windows 2000 is expected to take this Net PC concept further. But all is not rosy in the Net PC realm. From the outside, the vastly reduced hardware needs of Net PCs seem like a good idea. But in reality, the TCO of Net PCs and normal PCs may

not be very different. One critical factor is Microsoft's licensing strategy. Microsoft charges a licence fee for every end-user of Windows. So even though Net PCs require only one installation of Windows 2000 on the host server, companies

must pay a licence fee for each of their employees sitting at a Net PC. A second unseen cost is increased networking hardware. Net PCs depend on the main server to perform most jobs; this increases network traffic manifold.

Lastly, Net PCs using Windows 2000 will inevitably result in greater support

Windows 2000 is expected to take the Net PC concept further

from the systems administrator. Users will depend on the administrator to change even minute settings, there will be far more traffic to oversee, and the server will have to be watched closely as it will cause major disruption if it falls over.

All this means that TCO for Net PCs may not be very different from normal systems running Windows 2000. Businesses should evaluate the benefits before jumping on the Windows 2000 Net PC bandwagon.

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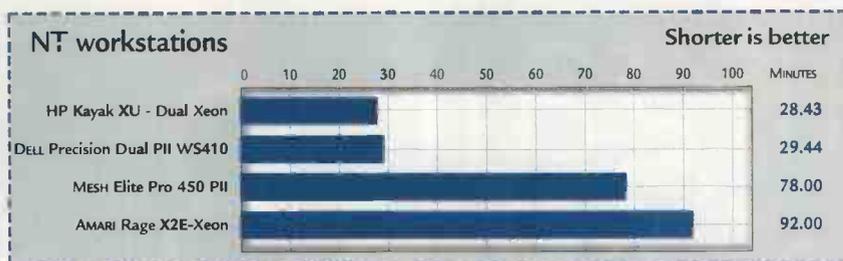
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PCW Labs Report



These results are measured in minutes and seconds. Lightwave is a multithreaded application, capable of handling up to 1024 CPUs. When using a system with just one processor, whether Xeon or Pentium II, Lightwave took over an hour to render a single frame at film resolution (2480 x 2080 pixels). However, our results show a tremendous jump in performance when two CPUs are used: typically around half an hour to render the frame. This substantial increase in performance can be attributed to many factors. When only a single processor is used, it has to handle the operating system and monitor the I/O buses and the floating-point intensive rendering. When a second CPU is added, it is almost completely dedicated to the rendering process. Thus the performance is more than doubled.

How we did the tests

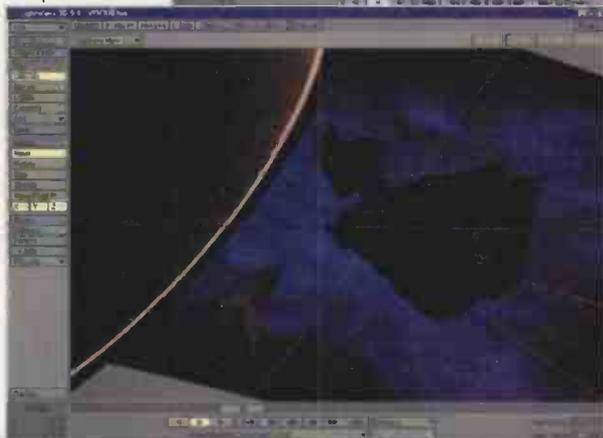
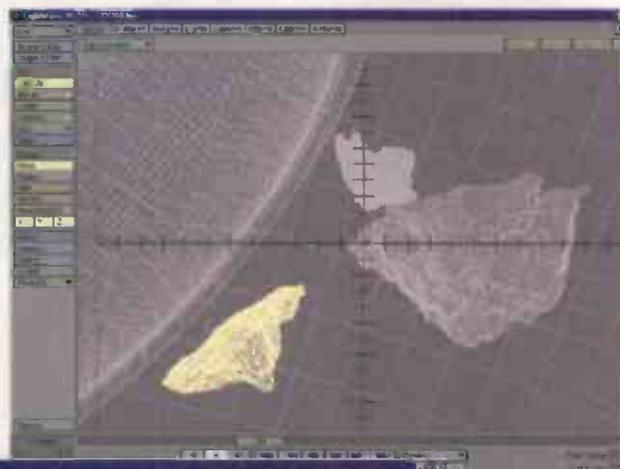


For this workstation group test, we decided to use Lightwave 3D for benchmarking purposes. Lightwave 3D is the animation package used to create the special effects in Hollywood movies like *Terminator2*

and *Titanic*. As these machines are, after all, graphics workstations, the main concentration of the test was on the Lightwave 3D tests.

Lightwave 3D has numerous advantages in such tests. Being multithreaded, it is able to take advantage of more than one processor. However, it also depends on the CPU to provide almost all the muscle when rendering 3D objects, rather than relying on the graphics card to make up the difference. As we were looking specifically at the performance of each processor configuration, Lightwave 3D was the perfect choice. For our Lightwave tests, AMG FX, the animators behind many of the special effects in the recent movie *Lost in Space*, kindly provided us with a file containing the model of an asteroid. We loaded the file into Lightwave 3D and timed the rendering of the asteroid. All rendering tests were run three times to ensure consistency.

The Lightwave 3D results were not a shock to us, especially the poor results of the Xeon machines. When we first came to look at Xeon in the December '98 issue of *PCW*, we were told by many manufacturers that they had been a little perplexed by Xeon's speed results. While the Xeon is equipped for fast handling of I/O, making the chips an obvious choice for servers, its core is so similar to the PII that very little performance increase could be seen. Only when running multiple video streams, where the data throughput is very high, did the Xeon truly perform.



▲ THE ASTEROID MODEL FROM *LOST IN SPACE* THAT WE USED IN OUR LIGHTWAVE TESTS ON THE WORKSTATIONS



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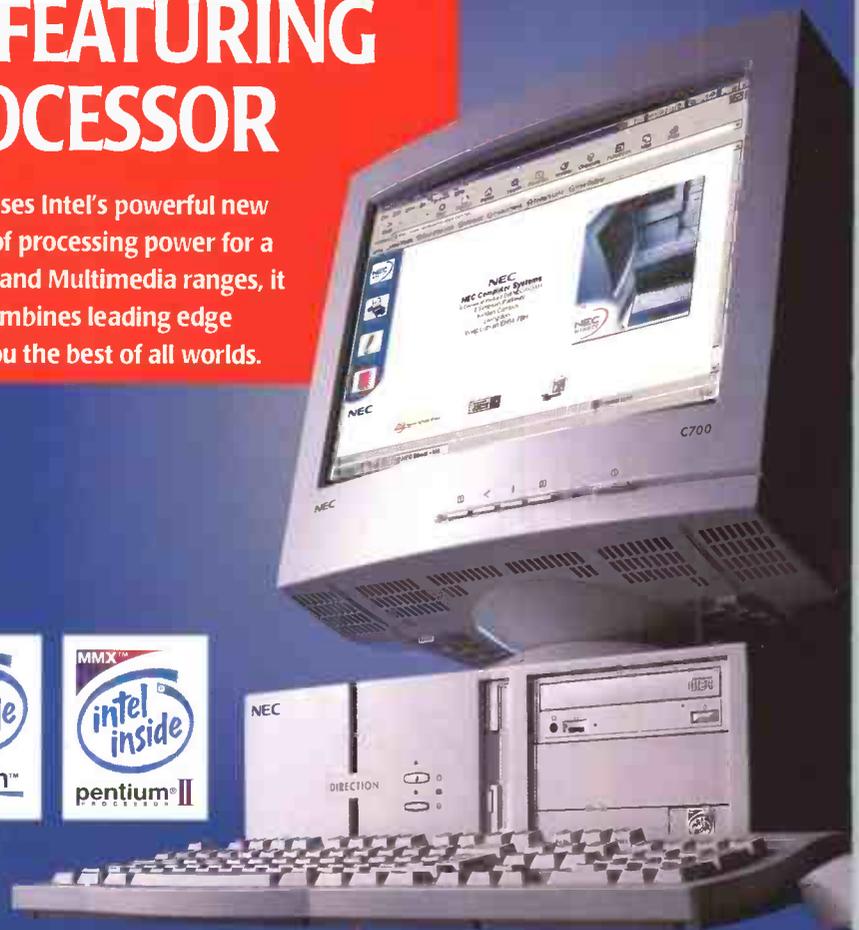
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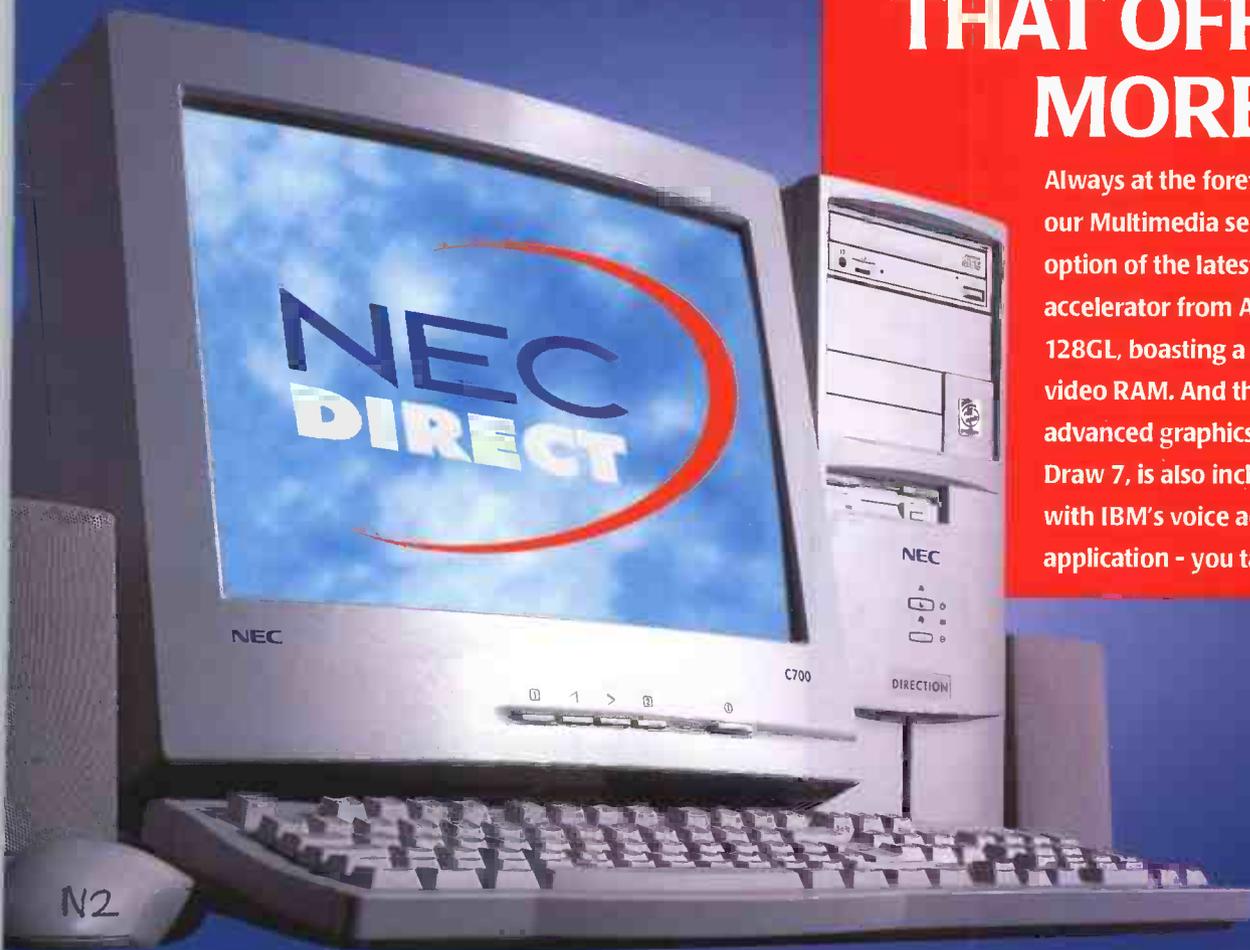
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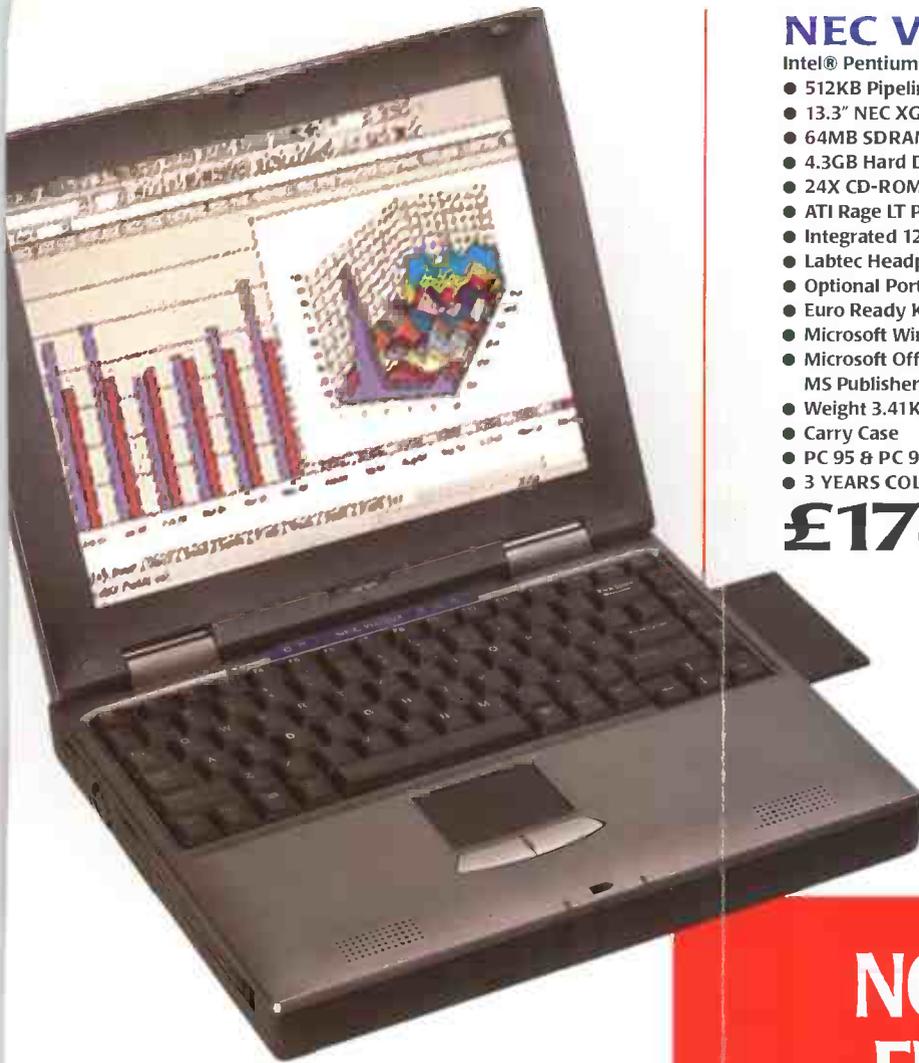
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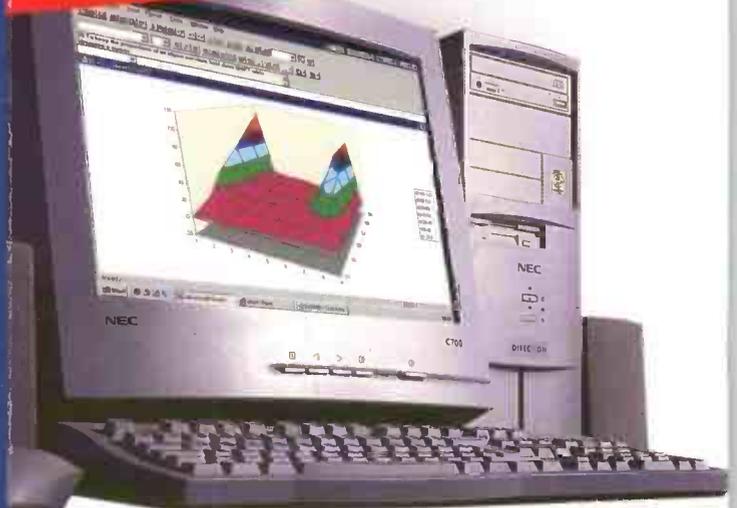
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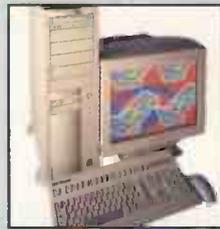
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Table of features



| MANUFACTURER | MESH | DELL | ARMARI | HP |
|-------------------------------|---------------------------------------|--------------------------------|--------------------------|----------------------------------|
| MODEL | ELITE PRO 450 PII | PRECISION WS 410 | RAGE X2E-XEON | KAYAK XU-XEON |
| Price (ex VAT) | £2,099 | £3220 | £4195 | £5900 |
| Price (inc VAT) | £2,466.33 | £3783.50 | £4929.13 | £6932.50 |
| Telephone | 0181 208 4706 | 0870 152 4850 | 0181 810 7441 | 0990 474747 |
| Web address | www.meshplc.com | www.dell.co.uk | www.armari.com | www.hp.com/go/kayak |
| HARDWARE SPEC | | | | |
| Processor | Intel Pentium II 450MHz | Dual Intel Pentium II 450MHz | Intel 450MHz Xeon | Dual Intel Xeon 450MHz |
| RAM supplied | 256Mb | 256Mb | 256Mb | 128Mb |
| RAM type | SDRAM | SDRAM | SDRAM | SDRAM |
| DIMMs occ/free | 2/2 | 2/2 | 2/2 | 1/3 |
| HD size | 9.1Gb | 9Gb | 9.1Gb | 4.5Gb |
| HD access time | 6.3ms | 8ms | 5.6ms | 7.5ms |
| HD interface | Ultra2 SCSI | Ultra2 SCSI | Ultra2 SCSI | Ultra2 SCSI |
| MOTHERBOARD COMPONENTS | | | | |
| Motherboard | Asustek P2B-D | Dell Precision Workstation 410 | Supermicro S2DGO | HP Kayak XU |
| Chipset | Intel 440BX | Intel 440BX | Intel 440GX | Intel 440GX |
| L2 cache/max | 512Kb/512Kb | 512Kb/512Kb | 512Kb/512Kb | 512Kb/512Kb |
| EXPANSION AND I/O | | | | |
| Free 5.25in bays | 1 | 2 | 4 | 2 |
| Free 3.5in bays | 1 | 3 | 3 | 2 |
| PCI/ISA/Shared slots | 3/2/1 | 4/0/1 | 4/2/1 | 4/1/1 |
| USB/ser/par/PS/2 | 2/2/1/2 | 2/2/1/2 | 2/2/1/2 | 2/2/1/2 |
| MULTIMEDIA | | | | |
| CD-ROM manufacturer | Teac | Dell | Yamaha | HP |
| CD-ROM model | CD532-S | | CRW 4416S | |
| CD-ROM speed | 32X | 32X | 16X | 32X |
| CD-ROM interface | SCSI | SCSI | SCSI | SCSI |
| Sound card manufacturer | Creative Labs | Crystal 3D | Diamond Multimedia | Aztech |
| Sound card model | 64V PCI | Cs4237B | S90 | A3D |
| Speakers | Yamaha YST-M20 DSP | | Yamaha YST MS25 | |
| GRAPHICS AND MONITOR | | | | |
| Graphics card manufacturer | Matrox | Diamond Multimedia | 3D Labs | Elsa |
| Graphics card model | Millennium G200 | FireGL Pro 1000 | Oxygen GMX2000 | Gloria Synergy |
| Graphics interface | AGP | AGP | AGP | AGP |
| Graphics RAM/Max RAM | 8Mb/16Mb | 8Mb/8Mb | 96Mb/96Mb | 8Mb/8Mb |
| BUNDLED EXTRAS | | | | |
| Other hardware | | 64-bit RAID controller | | |
| Other software | | | Nero CD burning software | |
| Standard warranty | 1 yr on-site 2 yrs RTB labour only | 3 yrs on-site | 12 months on-site | 1 yr on-site 2 yrs parts only |
| Warranty options | up to 5 yrs on-site | up to 4 yrs | 3 yrs on-site | 3 yrs on-site |
| Technical support | 0181 208 4795 | 0870 152 4850 | 0181 810 7441 | 0800 848 8199 |

Conclusion

You may be forgiven for thinking that the current trend for 'bloatware' applications requires the maximum in computing power. But when you move on to consider applications for such tasks as rendering high-end graphics for animation or computer aided design, a workstation with the maximum computing power is necessary. So we decided to put Intel's fastest processors under the spotlight to see how they performed in workstations.

Our test results highlighted a few home truths about the current Intel processors. The Xeon is priced many times higher than the Pentium II. It also has a full-speed cache, running at the core speed of the processor compared to half the core speed in the Pentium II. However, the integer and floating-point units in both types of CPUs are identical.

In an application like Lightwave 3D which supports multiple processors, the floating-point unit is used extensively. Since most of the data being processed is stored in the ample RAM rather than in the cache, the higher-speed cache in the costlier Xeon makes little difference to overall system performance in pure rendering

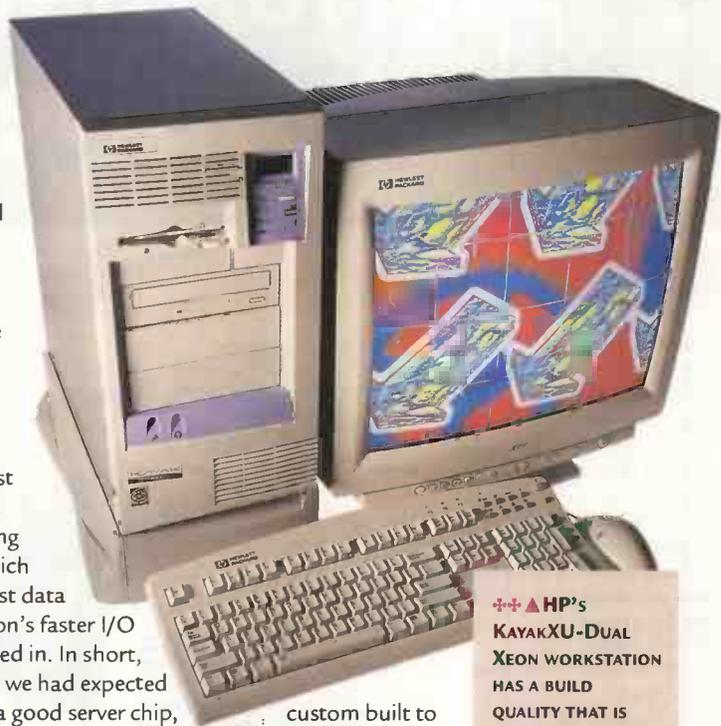
conditions, or indeed when running less high-powered applications. So the single Pentium II machine proved slightly faster than the Xeon-based system. Even in multiple processor configurations, the Pentium II and Xeon produced almost identical scores.

When running applications which require a very fast data throughput, Xeon's faster I/O would have kicked in. In short, Xeon proved, as we had expected all along, to be a good server chip, but not one that is going to cut the mustard in a graphics workstation.

If you need multiple processors, however, you are faced with a Hobson's choice. Currently, Intel makes the only x86 processors able to run in multiple configurations. Therefore, users who want more than two CPUs have to use Intel's costly Xeon or RISC processors like Digital's Alpha. But this will change soon with the arrival of AMD's K7. Our test results also prove that cheaper multiple Pentium II processors provide almost the same performance as costlier multiple Xeons. As a result, it might be better for buyers to opt for a cheaper processor and invest that extra money in other components.

Graphics workstations must have high-quality components to achieve peak performance.

So, while SCSI is a luxury in ordinary business PCs, it is an absolute necessity in workstations. Also, unlike PCs, most workstations need to be

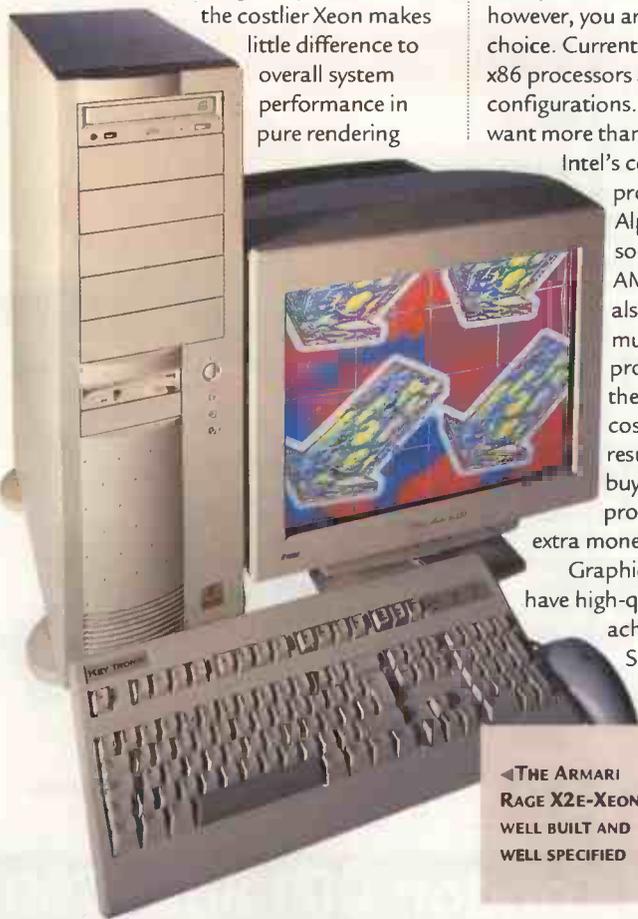


▲ HP's KAYAK XU-DUAL XEON WORKSTATION HAS A BUILD QUALITY THAT IS SECOND TO NONE

custom built to suit their uses.

A workstation meant for video editing needs to have a fast SCSI hard drive. A RAID card like the one in the Dell workstation is useful if you intend to add multiple hard drives — and is even more useful when you give up on Xeon as a workstation and turn the PC into a server. To dramatically improve rendering performance, users of animation packages like Lightwave may be better off with a graphics card that supports RenderGL.

All the workstations in our group test were well built. In addition to having good components, all of them are easily upgradeable. The Armari and Hewlett-Packard workstations deserve special mention. Both manufacturers had the unenviable task of building machines with processors that would prove little more effective than their much cheaper PII competitors, but both came up with superb offerings. While the quality of the Armari system is immediately evident, the crowded interior of the Hewlett-Packard workstation is rather misleading: it appears crowded only because of the numerous cooling fans and purpose-built trays for holding the internal components. It is, in fact, one of the best-built machines we have seen for some time. □



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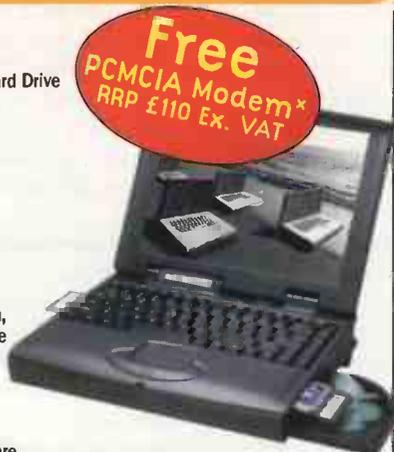
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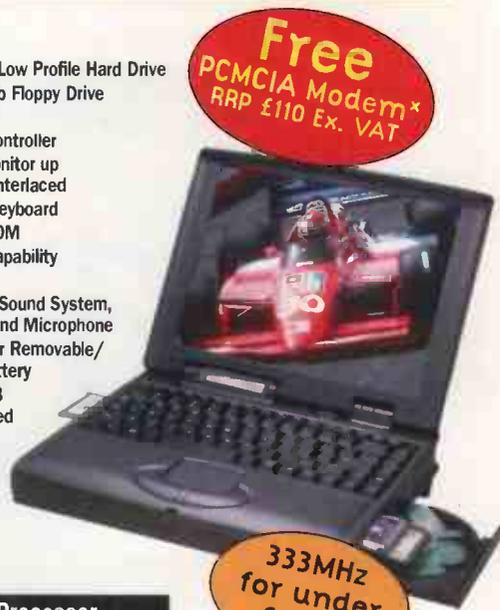
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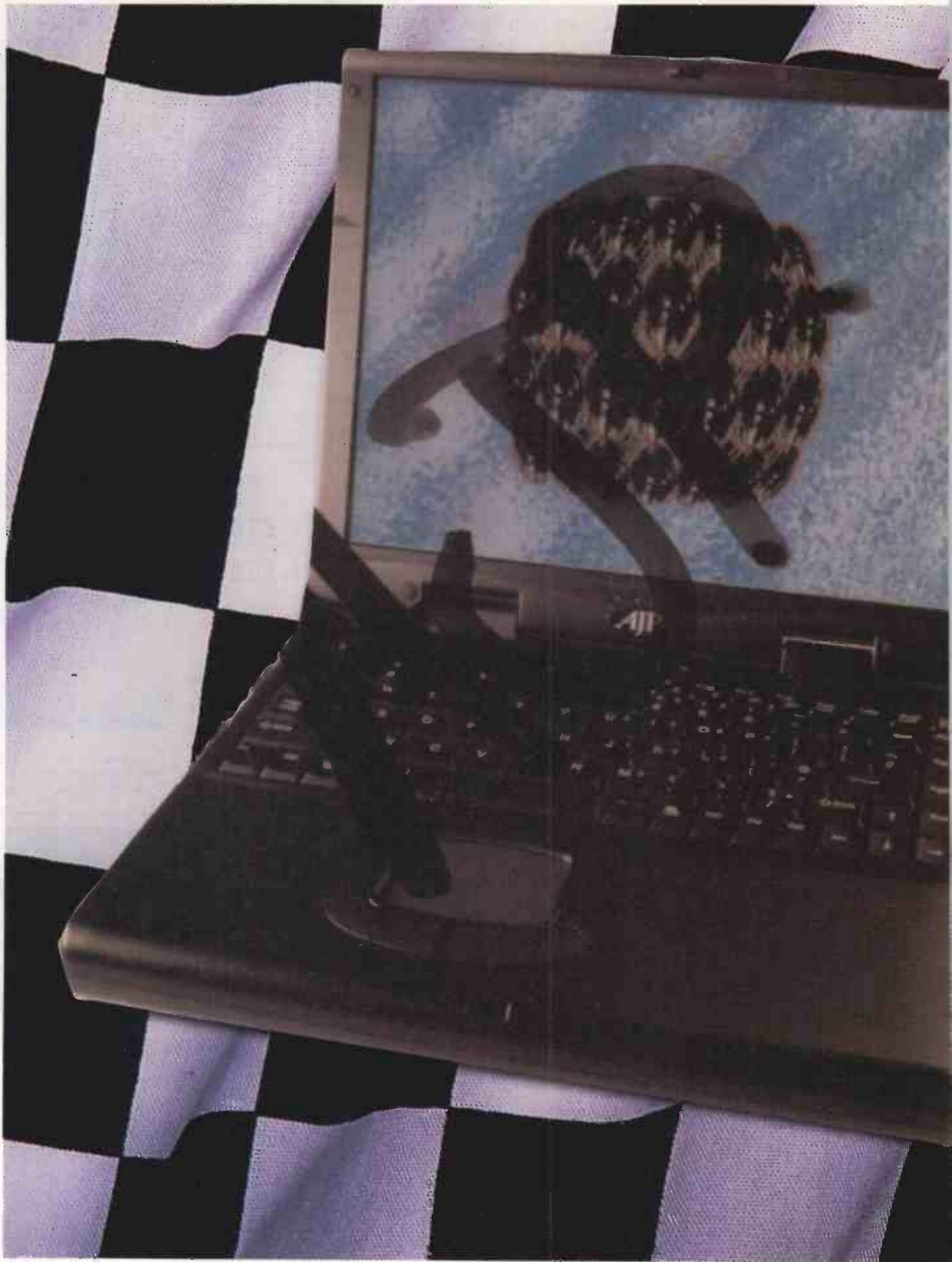
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NOTEBOOKS >>

group test





Winning formula

Choosing the ideal notebook is no easy task. Should it be entry-level, ultra-portable or a desktop replacement? To make it easier for you to make the decision, we've summarised the main points of each type and tested four in each category.

Mobile computing, like mobile communications, has gone through a process of incredible miniaturisation, while at the same time functionality has massively expanded. What used to seem like great big heavy bricks can now be as thin and light as an actual paper notebook — well, maybe a hardbacked book. Nor are notebooks very far behind desktop PCs in terms of power and speed, although the notebook and the PC are still very different beasts.

What notebooks gain in portability, they lose in upgradeability and they are, relatively speaking, much more expensive than desktops. If you are going to be spending your hard-earned cash on a non-upgradeable notebook, you have to be sure you are buying not just the best but the right notebook for your needs.

Most notebook manufacturers now seem to assume there are three distinct types of notebook: desktop replacement, ultra-portable and entry-level. We have divided our reviews into these same three categories, looking at four notebooks in each category.

To help you make an informed decision we also have the full low-down on the best technology on offer and what to look for in the perfect notebook.

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Tested and reviewed by Adele Dyer and Paul Trueman.

Ratings

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

Notebook notes

Choices, choices, choices... If you want to work while on the move, you have some interesting decisions to make. You can take everything with you, from a credit card-sized REX card, through PDAs and on to notebooks with PII300 processors and 15in screens.

As attractive as some of the smaller devices are, if you need all the applications you use on your desktop, or are going to be making presentations, a notebook is your only option. While it may be tempting to replace your desktop with an all-singing, all-dancing notebook, do you really need to carry a big 'brick' around with you, or would you rather go for a tiny, slim, lightweight model? And can you really afford £3,000, or would you rather save your cash and go for a

slightly slower machine that will not break the bank? Even though

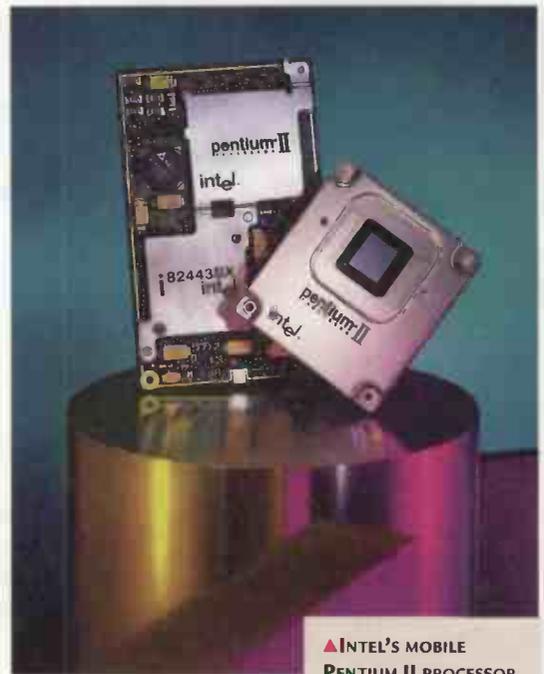
your new notebook may be a replacement for your desktop PC, you cannot expect it to behave in the same way. The first and most basic difference is in the processors. Intel has for many years produced mobile processors which have

a different architecture from its desktop processors. These consume less power and typically run less hot than the desktop processors. They are also much smaller — a vital consideration when you think about the problems of stuffing a Pentium II into a notebook.

However, until recently, the various means of attaching the processor to the motherboard usually involved soldering the chip onto the board using TCP (tape carrier package). For smaller vendors this meant buying chassis in bulk with motherboards and

their chips already included, which carried a risk of remaining unsold if not enough

customers wanted that speed of processor. So, many notebook manufacturers opted to use Socket 7 desktop processors. Desktop processors generate high heat levels, which shortens the life of the processor, and other



▲ INTEL'S MOBILE PENTIUM II PROCESSOR, CURRENTLY AVAILABLE AT A MAXIMUM SPEED OF 366MHz

components can be damaged if there is

insufficient heat dissipation. Their high power consumption means shortened battery life, which is not good news if you are going to be using the notebook away from power sources — on the train, for example.

Innovations in the mobile processor market are sometimes remarkable...

Choosing an entry-level notebook

While you can now get an entry-level PC with a reasonable specification for around £500, the same cannot be said of notebooks.

Entry-level notebooks fall into two broad categories: those aimed at corporate organisations which need to kit out large numbers of people with notebooks, and the first-time notebook buyer who does not necessarily know a great deal about PCs and needs a cheap deal. In either case, ultra-portability is

not a huge issue, nor is a great deal of power. Provided it can run basic applications, make presentations and be lugged around, a notebook with a significantly lower-powered processor is not such a bad idea, since it is less draining on the battery.

If you are buying notebooks for your workforce, some manageability features will make it easy to keep track of the notebook, its components and the software installation.

When connected to your business network, you'll be able to run a variety of checks on the notebook. These would immediately reveal whether, say, any RAM had been removed. Or, if the notebook itself is stolen, you can add features which will prevent it from being used by anyone who does not have the correct password. These go far beyond the normal Windows and BIOS passwords although not all are as thief-proof as they

could be. However, by far the most popular manageability features combat problems such as, if your employee decides to delete a few system files, the fault can be picked up and rectified over the network.

If you can bear the additional network traffic, you can run all these checks over the network whenever the notebook logs on, whether it is over the LAN (local area network) or from a remote location.

PROCESSING INFORMATION



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Information, the way you want it...

With the demise of Socket 7, new processors and new ways of attaching processors to motherboards have been developed. The first of these came with the Mobile 233MMX, which not only used a smaller die size and smaller micron process but was also the first processor to come on a mobile module — a card containing the processor, the chipset and the L2 cache. The idea is that it can be slotted in and out, although to do so still takes a lot more engineering than when jamming in a desktop processor.

The new breed

While mobile modules are still around, the new breed of processors — notably the PII, and the Celerons just announced by Intel — also come in two new packages. The first is the Mobile Mini Cartridge, a tiny package containing just the processor. However, for even smaller machines such as the new generation of thin and light notebooks, there is the BGA (ball grid array) package.

As the name suggests, this uses ball bearings to connect it to the motherboard and can be slipped in easily; at the same time, the connectivity with the motherboard is excellent. The BGA processors are 98 percent smaller than the PII desktop in its SECC (single edge contact cartridge), but anyone who has ever prised the plastic coating off the SECC will see that the processor itself is

like most consumer goods: very small compared to the size of the packaging.

Innovations in the mobile-processor market are sometimes remarkable, but they do take quite a while to come around. This is not so surprising when you consider the number of desktop systems compared to the number of notebooks sold each year. Current Mobile PII processors run at a top speed of 366MHz, and Intel has just announced Mobile Celerons running at 266 and 300MHz.

The PIIs are the most different from their desktop equivalents. Rather than having the L2 cache in the SECC, Intel has put the 256Kb of L2 cache on-die and it runs at the same core speed of the processor. Since the Pentium Pro, Intel has not put L2 cache on-die as it is an expensive operation. Intel admits the on-die cache will run faster than the 512Kb on the PII SECC, which runs at

More notebooks are physically damaged than develop hardware faults

half the core speed of the processor. The shrunken Celeron also has 128Kb of L2 cache on-die, running, as it does in the desktop version, at the core speed of the processor.

However, shrinking the size of the

processors is as nothing compared to the difficult task of lowering the power consumption while increasing the clock speed. Desktop PII processors have a core voltage of 2.2v, while the Mobile PII has a core voltage of 1.6v.

You will have noticed, though, a decided lag between the announcements of higher-speed desktop processors and their mobile equivalents. While Katmai is due to hit a machine near you next month [look out for a round-up in the next issue of PCW] the mobile version, codenamed Coppermine, with its new instructions and 100MHz front-side bus, will not be available until the second half of this year.

Power play

Today, Intel does not have the market to itself. AMD has a mobile version of the K6 processor. Essentially, this is exactly the same as the desktop chip, although each processor goes through more stringent power testing when it comes off the conveyor belt. Because the processor takes so much power, it makes sense to have some kind of power management, so as to preserve battery life.

As a response to the problem, Toshiba created ACPI (advanced component and power interface) which specifies how the OS, motherboard hardware and peripherals talk to each other about power usage.

Choosing an ultra-portable notebook

It is a fine line between choosing an ultra-portable notebook and a CE machine. Both are relatively small and light and have basic applications like Word and Excel. The evangelists would have you think that CE is going to change the future of computing, getting rid of bloatware once and for all.

But if you believe the sceptics, CE is a spent force before it gets going, with numerous inherent problems including the fact that because it uses solid state memory, any updates or applications you load necessitate you having to flash the ROM.

If you want a small, light, device but cannot live without a full version of Windows and all the applications that run on it, then there are some wonderful options out there. You only have to look at the machines we have reviewed in our 'ultra-portable' section [p183] to quickly realise they are very, very sexy.

You should remember that certain sacrifices will have to be made. For example, the chances are you are not going to get a floppy drive in a notebook this small, but when you are out on the road, do you really need this?

And the same goes for a CD-ROM drive. If you can trade-off these drives against the extra weight they require, you are doing well. Console yourself with the thought that devices like CD-ROM drives are real power-gobblers without ACPI.

You will also probably have to live with a smaller screen than on a desktop replacement notebook, but this is only really a problem if you are going to be doing presentations and need several people to be able to see the screen. In general, though, thin notebooks can suffer from poor connectivity.

Make sure you will only need one Type II PC Card slot, for instance; if you use a large Type III network PC Card, think again. You should also make sure a port replicator is available if you want to use the notebook at your desk.

You can expect to see many more small and light notebooks in the future, especially utilising such things as the new IBM SmartDisk, a tiny hard disk about the size of a CompactFlash card with a capacity of 340Mb at present, although this could grow to around 1Gb.

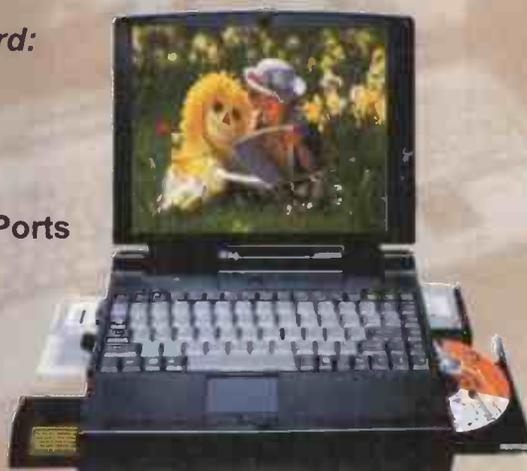
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Innovace 735

12.1" TFT Screen

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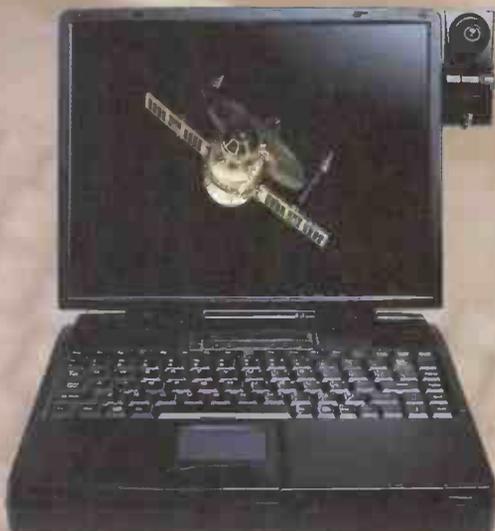
PCMCIA 56k Modem

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MEMBER

Using ACPI, the operating system should control the power supplied to peripherals, rather than depending on the BIOS to detect when peripherals have not been used for a while and so shut them down, although the BIOS is still needed to do the actual switching on and off.

ACPI is implemented in Windows 98, although only in a limited way. Compare the Windows power management utility in Control Panel to that on a Toshiba or IBM notebook, for instance, and the difference is staggering. It is worth checking out the power management on the notebook you intend to buy before you part with your cash.

Smart batteries

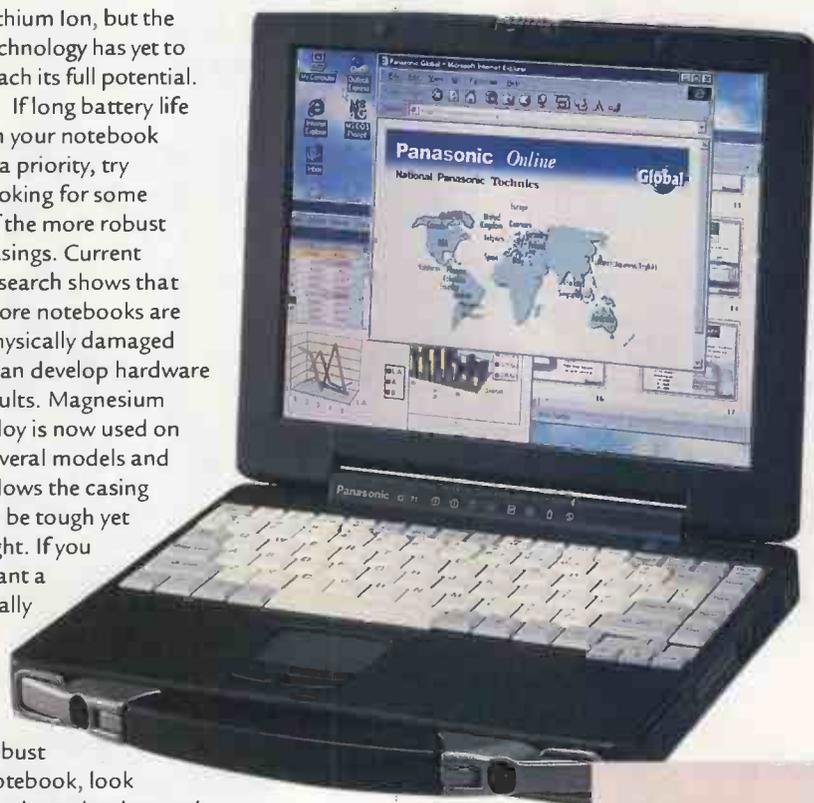
ACPI also utilises the Smart Battery System developed jointly between Intel and Duracell, which gives more accurate battery readings and allows the battery to take control of charging, so prolonging the life of the battery. Yet any power management is only a good idea so long as you have a good battery to start with. While mobile devices have got smaller and lighter, batteries have not exactly come on in leaps and bounds.

There is a new technology, known as Lithium Polymer, which in due time is intended as a replacement for Lithium Ion. At the moment, the general consensus is that it does not give much longer life and is more expensive than

Lithium Ion, but the technology has yet to reach its full potential.

If long battery life on your notebook is a priority, try looking for some of the more robust casings. Current research shows that more notebooks are physically damaged than develop hardware faults. Magnesium alloy is now used on several models and allows the casing to be tough yet light. If you want a really

robust notebook, look for those that have gel surrounding the components most likely to be damaged, such as the hard disk. Gel at the corners of the notebook is also a good idea, although rubber coating is definitely not. Rubber jackets simply make the notebook bounce more, meaning it hits the ground hard more times, thus increasing the risk of damage.



▲ FOR RUGGED LOOKS AND DURABILITY, THE PANASONIC TOUGHBOOK TAKES SOME BEATING [SEE REVIEW, P 184]

Choosing a notebook as a desktop replacement

For the power user, a notebook must have all the functionality of a desktop but in a portable form. So, you can have the brute force power of a good processor and lots of RAM, a huge hard disk, floppy drive, CD-ROM, a large screen and good sound. But there are pay-offs. Weight is the most obvious: do you really want to carry a 9lb brick around with you? Battery life is another.

If you are the type of user who needs to replace a desktop but for whom portability is not a great issue,

then this kind of notebook is for you. But if you are only likely to move the notebook from your office to a meeting room and back again, or at worst, from the office into the car and then into your study at home, then weight will not be a consideration. Nor will battery life, as you are unlikely to ever be very far from an electric socket. Alternatively, if presentations are your game, you may have to end up with a desktop replacement just to get the larger screen and better sound quality these notebooks typically offer. If your company works

exclusively on NT, you may be forced, at least until the launch of Windows 2000 later this year, to use a desktop replacement notebook. Many notebooks will have the "Designed for Windows 98 and Windows NT" stickers on them but few have the staying power to run NT effectively, apart from at the very high end.

If your company demands that you get on the network quickly, then these notebooks are the best equipped for the job. Typically, desktop replacements come with

better docking solutions, often with room for a network interface card.

In our reviews of desktop-replacement notebooks [p184] we were looking for the best all-round solution. Portability was not as big an issue as was the need for every part of a desktop to be present in the notebook. We were also looking for good-quality components. But most of all we were looking for durability. After all, if you are going to spend around £3,000 on a notebook, it has to be likely to last the course.

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980

AJP 980 Series Specification

- 10.4" TFT Active WIDE SCREEN LCD, 1024 x 600 resolution with 16 million colours
- Intel Mobile Pentium processor 233MHz or 266MHz
- Intel 430TX Chipset on motherboard
- 2MB EDO RAM video display adapter
- 32 MB or 64 MB SD RAM
- 2.1GB HDD upgradeable to 6.4GB. Supports Ultra DMA, ATA-33
- 512KB secondary cache pipeline burst synchronous RAM
- 24 Speed CD ROM Drive, optional (CD ROM is connected externally through the PCMCIA port)
- 3.5" 1.44MB floppy disk drive supplied as standard connected via parallel port
- FDD can be used simultaneously with optional CD ROM drive
- Built in full duplex 16 bit stereo sound card 3D stereo, built-in stereo speakers and microphone
- 1 x Type II PC card slot
- Ports: USB, Serial, Parallel, External Monitor, Ext. Keyboard/Mouse, IrDa
- NiMH battery delivers approximately 1.5 hours continuous use
- Software MPEG supplied as standard
- Windows 98 supplied as standard preloaded with CD's and manual. (or Windows 95)
- Dimensions: 280mm (W) x 173mm (D) x 35mm (H) Weight: 1.6Kg (3.5lbs)

WIDE

UPGRADE TO

64MB RAM,
3.2GB HDD
£49 +VAT

10.4" TFT, 2.1 GB HDD, 32MB RAM
899
+VAT
Windows 98 • 233MHz
Mini Notebook



Dimensions: 280mm (W) x 173mm (D) x 35mm (H)
Weight: 1.6Kg (3.5lbs)

| 32MB SDRAM 2.1GB HDD Windows 98 | Intel Mobile Pentium 233MHz | | Intel Mobile Pentium 266 MHz | |
|---------------------------------------|-----------------------------|----------|------------------------------|----------|
| | Exc. VAT | Inc. VAT | Exc. VAT | Inc. VAT |
| 10.4" TFT Active | £899.00 | £1056.32 | £949.00 | £1115.07 |

1100M

AJP 1100M Specification

- 14.1" / 13.3" TFT Active LCD XGA 1024x768 resolution or 12.1" TFT Active LCD SVGA 800x600 resolution
- Intel Mobile Pentium II processor 233/266/300MHz
- Intel 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
- 24 speed CD ROM Drive interchangeable with optional DVD Drive
- Ports: Video In and Video Out
- Supports optional MPEG II hardware accelerator card
- Dimensions: 302mm (W) x 249mm (D) x 46mm (H) Weight: 3Kg

UPGRADE TO

64MB RAM,
3.2GB HDD
£49 +VAT

12.1" TFT, 2.1 GB HDD, 32MB RAM
949
+VAT
Windows 98 • 233MHz
Slim and Light
PII - 233MHz



| 32MB SDRAM 2.1GB HDD Windows 98 | 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 |
| 12.1" TFT Active | £949.00 | £1115.07 | £975.00 | £1145.62 | £1075.00 | £1263.12 |
| 13.3" TFT Active | £1025.00 | £1204.37 | £1049.00 | £1232.57 | £1149.00 | £1350.07 |
| 14.1" TFT Active | £1099.00 | £1291.32 | £1125.00 | £1321.87 | £1225.00 | £1439.37 |

979

AJP 979 Specification

- 14.1", 13.3" TFT Active LCD XGA 1024x768 resolution or 12.1" TFT Active LCD SVGA 800x600 resolution
- Intel Mobile Pentium II processor 233/266/300MHz
- Intel 440BX Chipset on motherboard
- 64MB SDRAM upgradeable to 192MB
- 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

UPGRADE TO

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12.1" TFT, 3.2 GB HDD, 64MB RAM
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+VAT
Windows 98 • 233MHz
Power User
PII - 233MHz



| 64MB SDRAM 3.2GB HDD Windows 98 | Intel Mobile Pentium II 233 MHz | | Intel Mobile Pentium II 266 MHz | | Intel Mobile Pentium II 300 MHz | |
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| | Exc. VAT | Inc. VAT | Exc. VAT | Inc. VAT | Exc. VAT | Inc. VAT |
| 12.1" TFT Active SVGA | £1075.00 | £1263.12 | £1099.00 | £1291.32 | £1199.00 | £1408.82 |
| 13.3" TFT Active XGA | £1149.00 | £1350.07 | £1175.00 | £1380.62 | £1275.00 | £1498.12 |
| 14.1" TFT Active XGA | £1225.00 | £1439.37 | £1249.00 | £1467.57 | £1349.00 | £1585.07 |

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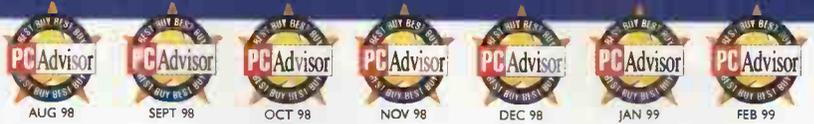
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|---|------------|------------|---|------------|------------|
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| Upgrade from 3.2GB to 4GB HDD | 35.00 | 41.13 | PCMCIA Ethernet Card 10/100 Mbps (10BT) | 99.00 | 116.33 |
| Upgrade from 3.2GB to 5GB HDD | 59.00 | 69.33 | PCMCIA Fax/Modem (56K) | 99.00 | 116.33 |
| Upgrade from 4 GB to 6.4GB HDD | 49.00 | 57.58 | PCMCIA Fax/Modem (GSM/PSSTN) | 239.00 | 280.83 |
| Additional 3.2GB HDD | 139.00 | 149.43 | PCMCIA Combo Fax 56K/Ethernet 10Mbps | 125.00 | 146.88 |
| Additional 4GB HDD | 175.00 | 205.63 | PCMCIA Combo Fax 56K/Ethernet 10/100Mbps | 149.00 | 175.08 |
| Additional 5GB HDD | 199.00 | 233.83 | PCMCIA MPEG II Card | 149.00 | 175.08 |
| Additional 6.4GB HDD | 225.00 | 264.38 | MPEG II Hardware | 99.00 | 116.33 |
| HDD Housing Kit | 39.00 | 45.83 | Port Replicator | 99.00 | 116.33 |
| Upgrade from NiMH to Li-Ion Battery | 49.00 | 57.58 | Car Adapter | 45.00 | 52.88 |
| Battery Charger | 125.00 | 146.88 | Iomega Zip Drive (100MB) | 175.00 | 205.63 |
| 1100 Additional Li-Ion Battery | 99.00 | 116.33 | LS-120 Drive (120MB) | 125.00 | 146.88 |
| 8500 Additional Li-Ion Battery | 125.00 | 146.88 | DVD Drive | 199.00 | 233.83 |
| 980 External CD ROM Drive with PCMCIA Connector | 99.00 | 116.33 | 979 Docking Station | 319.00 | 374.83 |

OF THE YEAR 1999

PC ADVISOR MAGAZINE - FEB 99



AJP 8500M Specification

- Intel Mobile Pentium II processor 233/266/300MHz
- Intel 440BX Motherboard Chipset
- 64MB SDRAM upgradeable to 128MB
- 512KB secondary cache pipeline burst synchronous RAM
- Full PC 97 and ACPI v.1.0 compliant
- Windows 98 supplied as standard preloaded with CD's and manual, (or Windows 95)



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PII - 233MHz

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15.1"
XGA
DISPLAY

- 16-bit stereo, full duplex sound card with 1MB MASK ROM hardware wavetable, 3-D stereo sound, ESFM music synthesiser, built-in high power speakers and microphone.

- Infra red wireless communication port. IrDA 1.1, FIR, ASKIR compliant

- User removable 24 speed CD ROM drive supplied as standard, interchangeable with optional:

- DVD Drive

- Software MPEG supplied as standard. Supports optional MPEG II hardware accelerator card



- Ergonomically designed wrist rest with two button track pad

- 101/102 Enhanced full size Windows 95 keyboard with numeric keypad

- Li-Ion battery delivers approx. 2.5 hours continuous use

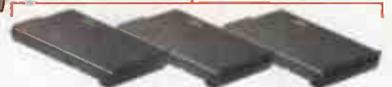
- User removable/ interchangeable 'pocket size' 2.5" 3.2GB hard disk drive upgradeable to 6.4GB
- Supports Master Mode EIDE, ATA-33, Ultra DMA/33

- Ports: 2 x Universal Serial Bus (USB), Video In (video capture), Video Out (high definition TV output), Serial, Parallel, Monitor, 2 x PS/2 Keyboard & Mouse, Port Replicator



- PCMCIA Type III slot allows use of up to two Type II PCMCIA Cards or one Type III. Supports Zoomed Video port

- User removable floppy disk drive, supplied as standard, provides additional flexibility to interchange with optional:



- 2" Hard Disk Drive
- Omega Zip 100MB Drive
- LS-120 120MB Drive

Size: 357mm (W) x 275mm (D) x 50 (H). Weight: 4.6Kg

| 64MB SDRAM 3.2GB HDD Windows 98 | 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 |
| 15.1" TFT Active | £1449.00 | £1702.57 | £1475.00 | £1733.12 | £1575.00 | £1850.62 |

AJP Notebooks are supplied with AC/DC adapter, manual, drivers and carrying case and are covered by a 1 year return to base warranty. All AJP Notebooks are YEAR 2000 Hardware Compliant.

8500M



BEST NOTEBOOK COMPUTER 1999

"The list of winning features on this high class budget option is long and impressive. Equipped with an unusually large 15.1" TFT Screen, it also boasts 64MB RAM, 5GB Hard Disk . . . puts in a super fast performance, outclassing many of the more expensive power notebooks we saw in our charts in 1998. Though priced as a budget notebook this is a highly - specced and versatile machine which will happily run your business applications."

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Buy With Confidence

AJP specialise in the manufacture of notebook computers and has over 13 years experience.

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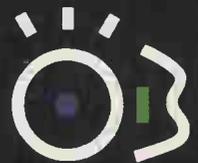
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Entry Level

AJP 1100M



AJP, in common with other manufacturers, buys stock from Asian manufacturers and reconfigures and re-brands it, and the 1100M bears the tell-tale signs. For instance, we couldn't work out why the slots for the two Type II PC Cards (or one Type III) are buried almost one inch inside the case. It was difficult to slot some cards

in and we needed tweezers to subsequently remove them. We were also puzzled by the TFT panel hinges. One was moulded into the body of the notebook, the other wasn't. The overall appearance wasn't pretty. Not that aesthetic appearance is everything, but if you're spending this kind of money, at least you want it to look worth the expense. What you lose in build quality, though, is made up for in the spec. The 1100M uses Intel's PII266 in combination with a generous 64Mb of SDRAM, and this was one of the few entry-level notebooks to carry 4Mb of graphics VRAM. But the chip in question was the 2D S3 Virge, so while it handles office apps well, don't necessarily expect rich multimedia at your fingertips.

PCW DETAILS

Price £1,350.08 (£1,149 ex VAT)
Contact AJP 0181 208 9744
www.ajp.co.uk

Good Points *Pretty good specifications for an entry-level unit.*
Bad Points *Attention to appearance.*
Conclusion *Makes up in power what it lacks in appearance*

Build Quality ★★★★★
Value for Money ★★★★★

COMPAQ Armada 1700



Armada is an apt name for this battleship of a machine with matt black styling. There are three models within the 1700 range, from the PII233 to the PII300 in the model we looked at, and the 6300T. It was felt that for the price, users deserved more video memory than the 2Mb of VRAM with the Chips &

Technologies 65555 graphics chip. Compaq has a bewildering range of notebooks on offer, and while the 1700 is better kitted-out than the 1500, it is still entry-level. With slots for two Type II cards though, once you have shelled out for a PC Card modem, the 1700 represents a pretty complete package. We were particularly impressed by the excellent speakers on this notebook, giving a clear, sharp sound through the Premiersound system. Weighing in at 3.78kg, this is a thick notebook that you'd be conscious of lugging around. But once you sit down to type, you'll soon be won over. The 1700 has an excellent keyboard with nice touches like the four hot-keys that can be programmed to launch oft-used applications.

PCW DETAILS

Price £2,462.63 (£2,095 ex VAT)
Contact Compaq 0845 2704040
www.compaq.com

Good Points *Very speedy processor.*
Bad Points *One of the heavier models.*
Conclusion *A sturdy, well-equipped notebook.*

Build Quality ★★★★★
Value for Money ★★★★★

GATEWAY Solo 2500 S5-233



Gateway has been selling notebooks in the past few years only, realising it was missing out by not providing a full product range. However, Gateway is selling its notebooks in the same way as Dell and Compaq, which buy-in machines from Taiwanese manufacturers. And, it is

able to specify these machines with options not available to smaller resellers. However, the fact remains that unlike companies such as Toshiba, Sony and Sharp, Gateway does *not* make its own notebooks. In this entry-level machine, this buy-in approach shows through. The Solo 2500 may hit all the right notes from the spec-sheet point of view — having two USB ports, floppy, CD, TV-out, sound and most of the other sockets you might expect in addition to the basic spec of 12.1in screen, P233 MMX, 64Mb RAM — but its build quality lets it down. There is a large bezel around the screen yet it still flexes easily; the display is also a little uneven in its luminosity. The glidepad had a nasty habit of drifting when we tried to click on an object, and the hard drive on our model clattered alarmingly.

PCW DETAILS

Price £1,267.83 (£1,079 ex VAT)
Contact Gateway 0800 172000
www.gateway.com/uk

Good Points *TV-out port.*
Bad Points *Screen. Casing. Glidepad. Hard drive.*
Conclusion *Looks good on paper, but disappoints in the flesh.*

Build Quality ★★★
Value for Money ★★★★★

PICO Consul



Don't be fooled — this notebook does not have a magnesium chassis, it is just silver-coloured plastic. The colour is almost the most remarkable thing about this machine. Its glidepad is a little 'sticky' but not impossible to use. The mouse buttons have an annoying click and

the keys on the keyboard tend to allow too much sideways movement, but neither of these are uncommon complaints in a notebook. And, its performance scores were just as one would expect from the specification. Nevertheless, many things about this machine put it slightly ahead of the crowd. The floppy and CD-ROM drives both fit into the notebook at once, so you don't have to swap drives, and the 13.3in screen running at a resolution of 1024 x 768 in 16-bit colour is good, with even luminosity. All the ports are shielded by lids to stop them getting clogged with dirt and the hard disk is an impressive 6Gb. The Consul is bundled with a 56K PC Card modem, GSM-ready, although be aware that not all PC Card modems work with all phones and compatibility with your mobile is not assured.

PCW DETAILS

Price £1,526.33 (£1,299 ex VAT)
Contact Pico Direct 01483 402111
www.picodirect.co.uk

Good Points *Bundled PC Card modem.*
Bad Points *Runs quite hot.*
Conclusion *Very average rebadged notebook.*

Build Quality ★★★
Value for Money ★★★

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Ultra Portable



ACER TravelMate 312T



With the arrival of sub-notebooks running the latest generation of Windows CE, it is unusual to find one which uses Windows 95. The Acer looks as if it should be powered by a StrongArm processor, not a Pentium running at 233MHz with a 3Gb hard drive. We were impressed with the TravelMate's functionality in view of its size. At 36mm deep, the TravelMate is the same depth as a conventional notebook which means there is a lot more room inside than you might think. There is a 56K internal modem, room for two Type II PC Cards and no need for a port replicator. Ultra-portables such as the Vaio (below) need a plug-in replicator so you can attach to parallel, serial and other ports, whereas the TravelMate is thick enough for all those connections at the rear. Its keyboard does suffer from the cut-down size though, with the keys slightly too small and bunched together to enable easy typing. This review was typed on the keyboard, mainly using this reviewer's fingernail tips, and while it works quite well to make short notes, it could grow tiring to hunch over the keyboard for long stints.

PCW DETAILS

Price £1,408.83 (£1,199 ex VAT)
Contact Acer 01753 487000
www.acer.co.uk
Good Points CD-ROM. Floppy. Internal modem.
Bad Points Size restrictions can make typing tiresome.
Conclusion An excellent miniature package.

| | |
|------------------------|------|
| Build Quality | ★★★★ |
| Value for Money | ★★★★ |

SHARP PC-A150 UltraLite



Sharp is good at producing highly desirable, well thought out and well built sub-notebooks. The UltraLite is small and light and seems remarkably robust. Its tough magnesium casing, which covers the entire notebook, not just the screen, looks as if it is going to protect it from some serious knocks. Other aspects show attention to detail. The VGA and USB ports have little rubber covers to keep the dirt out and the external floppy drive has one serial, one parallel and one VGA port on the back, so acting as a sort of mini docking station all of its own. Everything about the UltraLite screams good quality. Sharp is the world's largest manufacturer of LCD screens, so it isn't surprising that this notebook's screen is the best we saw in this group test: sharp, bright and with even luminosity. It even has effective brightness controls, unlike most other notebooks. Equally, the keyboard is one of the best in this test. It has little travel, as you would expect from a notebook this thin, but it does have a good, firm touch without the tilting you get on some notebook keyboards.

PCW DETAILS

Price £2,109.13 (£1,795 ex VAT)
Contact Sharp 0800 262958
www.sharp.co.jp
Good Points Good results for the specification.
Bad Points Low spec compared to other notebooks in this category.
Conclusion Well thought out. Very desirable.

| | |
|------------------------|------|
| Build Quality | ★★★★ |
| Value for Money | ★★★★ |

SONY Vaio 505G



If you are solely after portability in your notebook, you should consider the Vaio 505. Impossibly slender, and gorgeous to look at with its lilac magnesium finish, the 505 will definitely win admiration from your workmates. With its skinny form factor and excellent 10.1in TFT screen, weighing only 1.35kg, Sony claims the 505 will give you 2.5 hours of battery life. The 505 has a depth of only 208mm but there isn't room for serial, parallel or PS/2 connections. Designers have cleverly protected the ports for floppy and port replicator with rubber covers but this is another notebook that assumes most software still loads from floppy disks — a CD-ROM drive is not standard. The Vaio takes a Type II PC Card in its single slot to connect to the external CD drive but the basic package does include a ComOne 56K PC Card modem for internet connectivity. You will end up with a rather more space-consuming machine when you do need to load software and surf the net, but for working solely on a notebook while on the move, an ultra-portable doesn't get much better than this.

PCW DETAILS

Price £2,301.83 (£1959 ex VAT)
Contact Sony 0870 2402408
www.sony.com
Good Points Excellent form factor. Internet connectivity offered as standard.
Bad Points Plugging in all the necessary drives can prove tiresome — it's the price you pay for portability
Conclusion It's lilac, light and lovely.

| | |
|------------------------|------|
| Build Quality | ★★★★ |
| Value for Money | ★★★★ |

TOSHIBA Portege 7010CT



Toshiba prides itself on innovation through its large manufacturing base. Toshiba is keen to stress the business angle of its Portege range, particularly the larger 7010 we looked at. Its build quality is excellent, with easy access to sometimes fiddly components like the PC Card slots. As you would expect from a Toshiba PC, given that it helped design the open standard, the 7010 offers ACPI power management through the Windows 98 OS. The battery pack is fixed at the rear of the notebook, with the port replicator — with parallel, serial and PS2 ports — and floppy-drive connections at the left-hand side of the notebook, with the cooling vents for the PIII300 processor on the other side. Only the floppy drive and the replicator are standard, which essentially means that any remotely serious user will need to invest in the DVD-ROM docking station or save pennies by opting for a CD-ROM extension PC Card. Rather than a touchpad, the designers have used the Mousepoint in the middle of the keyboard, which uses pressure to direct the cursor.

PCW DETAILS

Price £2,931.63 (£2,495 ex VAT)
Contact Toshiba 01932 841600
www.toshiba.com
Good Points Well built. Gorgeous to look at.
Bad Points A CD-ROM as standard would suit the serious user.
Conclusion A slim, functional notebook ideal for the image-conscious businessperson.

| | |
|------------------------|------|
| Build Quality | ★★★★ |
| Value for Money | ★★★★ |

ACI Olympian II



The Olympian II purports to offer a bewildering range of functionality but a closer look proved disappointing. One of the heaviest notebooks we reviewed here, it comes with a second battery which attaches beneath the notebook, acting as a stand to angle the keyboard. The keyboard

was impressive but there were other parts of the casing that seemed less well designed. The parallel, serial and other ports are at the rear, protected by a flimsy plastic cover, with another, separate, inset plastic cover over the replicator port. We were in for a surprise with the DVD-ROM drive built in to the Olympian, over the floppy drive. It recognised the DVD films we ran yet there seemed to be a conflict with the Mediomatics software showing the films: we could hear them but we could see only a scrambled image. The TFT screen on our test model proved unstable. Whenever the notebook was moved, there was flickering all over the screen. We assumed this was due to faulty transistors that were unable to sustain the signals to the liquid crystal on the model we tested.

PCW DETAILS

Price £2,583.83 (£2,199 ex VAT)

Contact ACI 0181 3571116

www.aciweb.co.uk

Good Points Extra battery as standard. Large hard drive.

Bad Points Faulty DVD and suspect TFT screen on our test model.

Conclusion Disappointing, despite the hardware on offer.

Build Quality ★★
Value for Money ★★

DELL Inspiron 7000



The first thing that strikes you about the Inspiron 7000 is the lid. It is larger than the notebook beneath so it juts out over the machine's base. The reason is immediately apparent when you lift the lid — the screen is a whopping 15 inches. While this does not seem enormous compared to

a 14.1in screen, it is the equivalent to moving from a 15in to a 17in CRT monitor. The Dell ran at only 1024 x 768 but this is acceptable at this screen size especially on a good, even display like this one. The display was driven by an ATI 3D Rage LT Pro graphics chipset. While this notebook is a 'brick' like the IBM (below) it does score some brownie points. The floppy drive and CD-ROM drive, one on top of the other, are in a single bay so you don't need to swap drives.

And, while it doesn't have an internal modem, it does have a Psion Dacom Gold Card incorporating a 56K modem, GSM and ISDN. The Inspiron does not have power management software beyond the limited power management offered in Windows 98.

PCW DETAILS

Price £2,348.83 (£1,999 ex VAT)

Contact Dell 0870 907 5664

www.dell.com/uk

Good Points Huge screen.

Bad Points Glidepad is over-sensitive.

Conclusion A solid all-rounder boasting the best performance in this group test.

Build Quality ★★★
Value for Money ★★★

IBM ThinkPad 770



On first look it is easy to dismiss this notebook. It is a huge brick of a machine: thick, chunky and almost the size of the desktop it will be replacing; yet it still cannot accommodate a floppy and a CD/DVD drive together. An external floppy can either be attached to a port on the

notebook or swapped with the DVD drive. Interestingly, IBM also has a second line of desktop-replacement ThinkPads which are a great deal thinner — is this the way IBM means to go in future? You might also be wary of the number of utilities which automatically start when you boot up the machine; — ten in all, not including IE4. Amongst these utilities are some rare gems. The power management utility, for instance, offers you a full implementation of ACPI, with settings for CD-ROM, CPU and PCI power. There is also call management software so the internal modem can be used as an answerphone, as well as a plethora of other useful utilities. The screen on this notebook has to be seen to be believed. It is only 13.7in diagonally yet runs at an incredible resolution of 1280 x 1024. Although this may seem like overkill, it is nevertheless a very good screen and is pin sharp.

PCW DETAILS

Price £3,795.25 (£3,230 ex VAT)

Contact IBM 0870 601 0136

www.uk.ibm.com

Good Points High-res screen. High spec. DVD.

Bad Points Swappable floppy.

Conclusion A well-built brick.

Build Quality ★★★★★
Value for Money ★★★

PANASONIC Toughbook CF-71



Gone are the days of nasty-looking black chunks of plastic as the only option for the potential notebook buyer. The handle attached to this case could have looked rather clunky but instead it is an aesthetic winner. We were impressed by the high quality of the

Toughbook's design. We dropped it from the regulation 30cm, causing no apparent damage — the hard drive is encased in protective gel. Of course, a 30cm drop zone isn't really going to be applicable in a practical environment: it needs to be at least twice that in case you drop it while walking. The swappable drive lock was impressively robust, quick and easy to use, and the multimedia pocket can take CD-ROM, floppy and Superdisk drives. The PII266 mobile processor gets fairly hot after a few hours' use, dissipated through the underside of the case. The keyboard was one of the best we saw in this test although the same could not be said of the touchpad. It required a heavy touch before it responded, and the double tap that replaces a double click needed to be more of a thump.

PCW DETAILS

Price £2,701.32 (£2,299 ex VAT)

Contact Panasonic 0800 444220

www.panasonic.co.uk

Good Points Durability. Ease of use.

Bad Points The touchpad proved too 'tough'.

Conclusion A eye-catching package.

Build Quality ★★★★★
Value for Money ★★★★★



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PCW 3/99

Table of features



| ENTRY LEVEL | | | | |
|-----------------------------|--|--|--|--|
| MANUFACTURER - MODEL | AJP 1100M | COMPAQ ARMADA 1700 | GATEWAY SOLO 2500 S5-233 | PICO CONSUL |
| Price ex. VAT | £1,149 | £2,095 | £1,079 | £1,299 |
| Tel | 0181 208 9744 | 0845 270 4040 | 0800 172000 | 01483 402111 |
| URL | www.ajp.co.uk | www.compaq.com | www.gateway.com/uk | www.picodirect.co.uk |
| Processor and RAM | PII266 / 64Mb SDRAM | PII300 / 32Mb SDRAM | P233MMX / 32Mb SDRAM | P233MMX / 64Mb SDRAM |
| Graphics manufacturer | S3 Virge | Chips & Technologies | NeoMagic | S3 |
| Graphics chip | MX | P6555 PCI | 128-bit | Virge |
| Graphics RAM | 4Mb VRAM | 2Mb VRAM | 2Mb VRAM | 4Mb VRAM |
| Screen size / type | 13.3in / TFT | 14.1in / TFT | 12.1in / TFT | 13.3in / TFT |
| Max screen resolution | 1024 x 768 | 1024 x 768 | 800 x 600 | 1024 x 768 |
| Hard disk size | 3Gb | 5Gb | 2Gb | 6.4Gb |
| Battery type / claimed life | Lithium Ion / 2-3.5hrs | Lithium Ion / 2.5hrs | Lithium Ion / 2.5hrs | NiMH / 2hrs |
| Weight inc. battery | 3kg | 3.78kg | 3.1kg | 3.3kg |



| ULTRA PORTABLES | | | | |
|-----------------------------|--|--|--|--|
| MANUFACTURER - MODEL | ACER TRAVELMATE 312T | SHARP PC-A150 | SONY VAIO 50SG | TOSHIBA PORTEGE 7010CT |
| Price ex. VAT | £1,199 | £1,795 | £1,959 | £2,495 |
| Tel | 01753 487000 | 0800 262958 | 0870 240 2408 | 01932 841600 |
| URL | www.acer.co.uk | www.sharp.co.jp | www.sony.com | www.toshiba.co.uk |
| Processor and RAM | P233MMX / 32Mb SDRAM | P233MMX / 64Mb SDRAM | PII266 / 32Mb SDRAM | PII300 / 32Mb SDRAM |
| Graphics manufacturer | NeoMagic | NeoMagic | NeoMagic | NeoMagic |
| Graphics chip | MagicGraph 128ZV+ | 128-bit | Magicgraph 128DX | MagicMedia |
| Graphics RAM | 1Mb SGRAM | 2Mb VRAM | 2.5Mb SGRAM | 2.5Mb SVRAM |
| Screen size / type | 8.4in / TFT | 11.3in / TFT | 10.4in / TFT | 12.1in / TFT |
| Max screen resolution | 800 x 600 | 800 x 600 | 800 x 600 | 800 x 600 |
| Hard disk size | 3.2Gb | 4.3Gb | 4.3Gb | 4.3Gb |
| Battery type / claimed life | Lithium Ion / 2.5hrs | Lithium Ion / 2.5hrs | Lithium Ion / 2.5hrs | Lithium Ion / 2.5hrs |
| Weight inc. battery | 1.2kg | 1.4kg | 1.35kg | 1.9kg |



| DESKTOP REPLACEMENT | | | | |
|-----------------------------|--|--|--|--|
| MANUFACTURER - MODEL | ACI OLYMPIAN II | DELL INSPIRON 7000 | IBM THINKPAD 770 | PANASONIC TOUGHBOOK CF71 |
| Price ex. VAT | £2,199 | £1,999 | £3,230 | £2,299 |
| Tel | 0181 357 1116 | 0870 907 5664 | 0870 601 0136 | 0800 444220 |
| URL | www.aciweb.co.uk | www.dell.com/uk | www.uk.ibm.com | www.panasonic.co.uk |
| Processor and RAM | PII300 / 64Mb SDRAM | PII300 / 128Mb SDRAM | PII300 / 128Mb SDRAM | PII 266 / 32Mb SDRAM |
| Graphics manufacturer | ATI | ATI | Trident | NeoMagic |
| Graphics chip | 3D Rage LT Pro | 3D Rage LT Pro | CYBER9397 | Magicgraph 128DX |
| Graphics RAM | 4Mb SGRAM | 4Mb VRAM | 8Mb SGRAM | 2Mb SGRAM |
| Screen size / type | 13.8in / TFT | 15in / TFT | 13.7in / TFT | 12.1in / TFT |
| Max screen resolution | 1024 x 768 | 1024 x 768 | 1280 x 1024 | 800 x 600 |
| Hard disk size | 5.98Gb | 6.4Gb | 8.1Gb | 4Gb |
| Battery type / claimed life | Lithium Ion / 3.5hrs | Lithium Ion / 3hrs | Lithium Ion / 3.5hrs | Lithium Ion / 2-3.5hrs |
| Weight inc. battery | 3.7kg | 4.04kg | 3.53kg | 2.9kg (not inc. handle) |

Editor's Choice

There are two types of notebook vendor: those that design and build their own from scratch, and those that buy Taiwanese imports and rebadge them. The former are able to innovate and drive the market on to new areas. Not surprisingly, it was these manufacturers which produced the most impressive notebooks in this test. We have come up with a winner in each of our three notebook categories: entry level, desktop replacement and ultra-portable. Each winner earns itself an Editor's Choice award.

➤ **Choosing an entry-level notebook** was the most difficult decision. All the contenders in this category were much of a muchness, with little on price or performance to put between them. In the end, the award went to the **AJP 1100M** for providing a great deal of power with a PII266, 64Mb of RAM and 4Mb of video RAM, and all for a very reasonable price.

➤ **In the desktop replacement** category, the Editor's Choice is the **Panasonic ToughBook CF-71**. While it is not the fastest by a long chalk, having a slower processor and less RAM than the other contenders, its rugged design and practical styling applied to

▶ **OUR EDITOR'S CHOICES (FROM TOP):**
THE AJP 1100M, THE PANASONIC TOUGHBOOK CF71, AND MOST IMPRESSIVE OF ALL, THE SHARP PC-A150

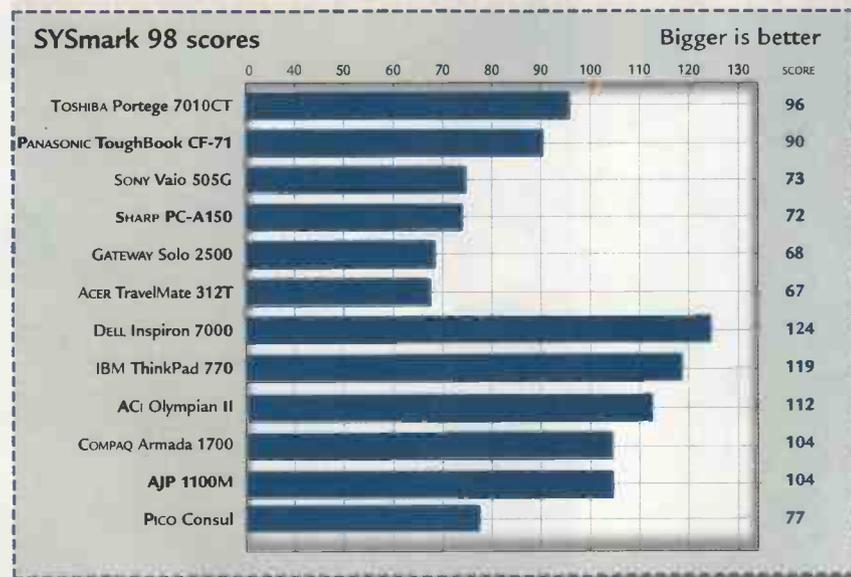
its carry-handle and magnesium-alloy casing made it both look the part and perform well.

➤ **The ultra-portables** were all very good. Any of them would provide a wonderful option for anyone who needs a light machine for general tasks. In the end we plumped for the **Sharp PC-A150** as the best option. Even though the Sony Vaio 505G was a very near winner, the Sharp won through thanks to its great price and performance as well as for the little extras such as the external floppy with extra ports built in.

Overall, taking all 12 notebooks into consideration, the most impressive one we tested was the **Sharp PC-A150** — a machine which is light and portable but which boasts sufficient power and a big enough screen to be used in presentations. Providing you do not ask too much of your notebook, it could even be used as a desktop replacement.



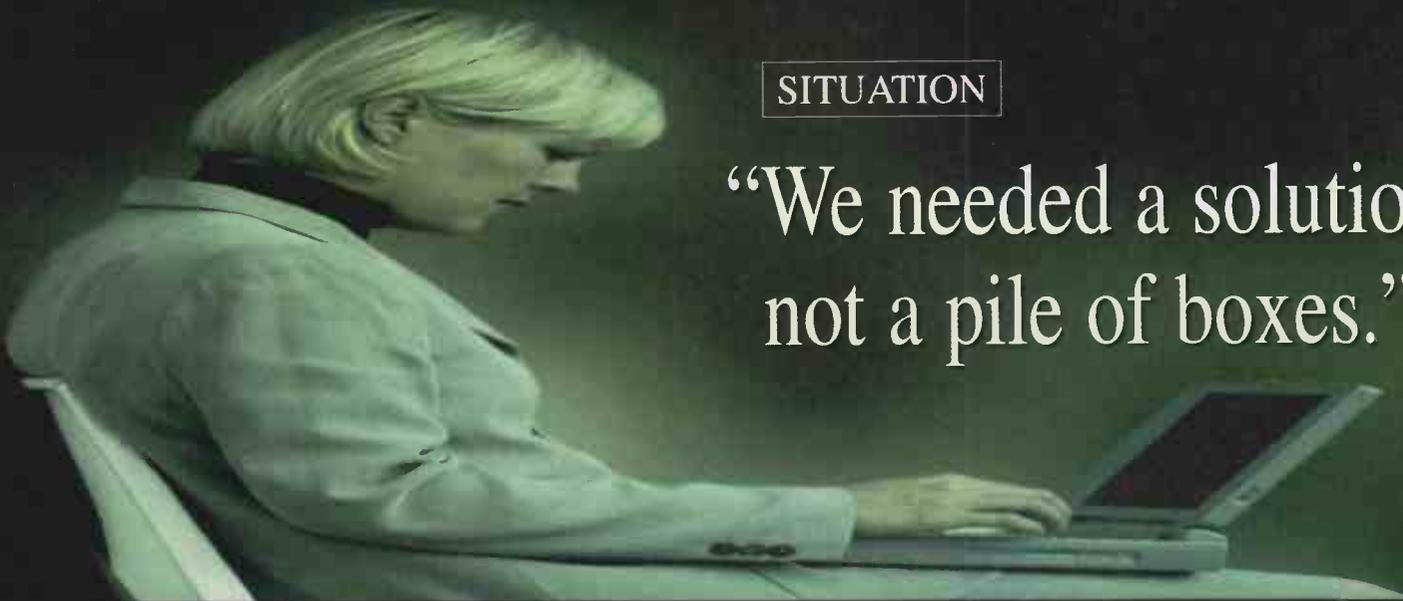
PCW Labs Report



The fastest three notebooks used PII 300MHz mobile processors and hail from our desktop replacement category. Their performance is similar to PII 300MHz desktops. Despite being an entry-level machine, Compaq's Armada 1700 scored highly due to its PII 300 processor. The Toshiba ultra-portable may also have boasted a PII 300 chip but its performance fell short of the RAM-packed desktop replacements. The Toughbook also fell short compared to the other desktop replacement machines due to its PII 266 processor and only 32Mb RAM, but its rugged design impressed us. The slowest notebooks in the test also featured the least powerful processors — typically P233 MMX chips in the ultra-portables, which score similarly to 266 Celeron desktop systems.

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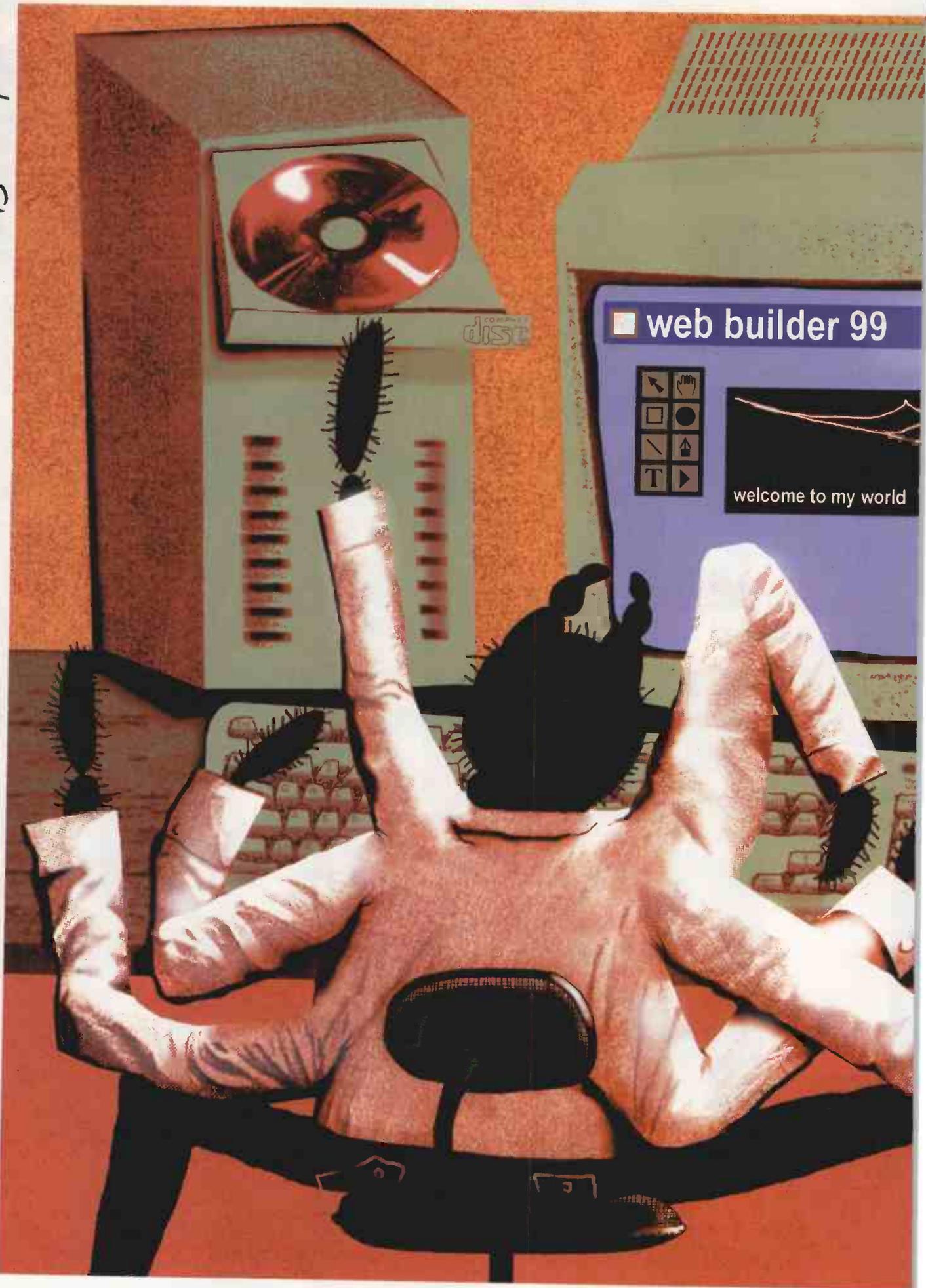
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Be the creative type. This month we have rounded up the best in multimedia on pages 204 and 205, but elsewhere, as the medium of the moment, we have concentrated on web authoring.

If you have an email address, the chances are that your ISP will have thrown in a few megabytes of web space, too, so now there is nothing to stop you from having a web presence. All you need is the ideal web authoring package.

There is a bewildering array of choices aimed at everyone from the 'web master extraordinaire' to the web novice. Everybody's needs will differ, so we have divided the packages reviewed here into three specific categories.

First, we look at those aimed at users with a dedicated web server; the large businesses with equally large bandwidth which will need database integration, scripts and larger sites. The second category is small businesses in which a member of staff, although not necessarily a web professional, is keen to maintain a web presence. The third category is the home user, looking for a quick and easy way to create an impressive site while keeping an eye on cost. However, before you skip to the category you think would be the most applicable to you, cast your eye over the other sections because the selection is not as clear-cut as you may think. If you fancy tackling the task of building a site unaided, take a peek at our workshop on creating your pages from scratch (p216).

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• Reviewers: *Nik Rawlinson and Panicos Georgiades*

Large businesses

Large corporations often find themselves in the lucky (if expensive) situation of enjoying a dedicated web server and a leased line. While allowing employees direct and almost unlimited access to the internet, it also means that a web site can be hosted internally rather than on the third-party servers of an ISP. This gives the company's web site unlimited scope in terms of both size and content so that they can, for example, host FrontPage webs (although FrontPage is included in our Small Business category, opposite) which involves calling a number of server-based extensions not hosted by many ISPs.

One of the major uses of corporate sites is the re-publication, in electronic form, of company literature which can change frequently and will need to be updated on a regular basis. Producing clean, easy-to-amend code is therefore a must. While home users may be interested in incorporating impressive graphics and special effects at the same time as writing their content, this is likely to be a lower priority for the corporate user. A uniform look and feel is more likely to be produced using a dedicated graphics package such as PhotoShop and ImageReady from Adobe, or Fireworks from Macromedia. A corporate customer is thus more likely to need a simple means of implementing these 'third-party' images on their pages, and their requirements for web page design software are more often restricted to applying a theme or border set.

It is far more important for corporate sites than for home user sites that they are accessible to the widest possible audience. They are, after all, often seen as another means of revenue generation. Pages must therefore be compatible with a wide variety of browsers and not restricted merely to the most up-to-date versions. Furthermore, if the organisation wishes to sell through its site, it will need at least the ability to handle forms to return data, and, should it wish to track orders through the site, some form of database integration.

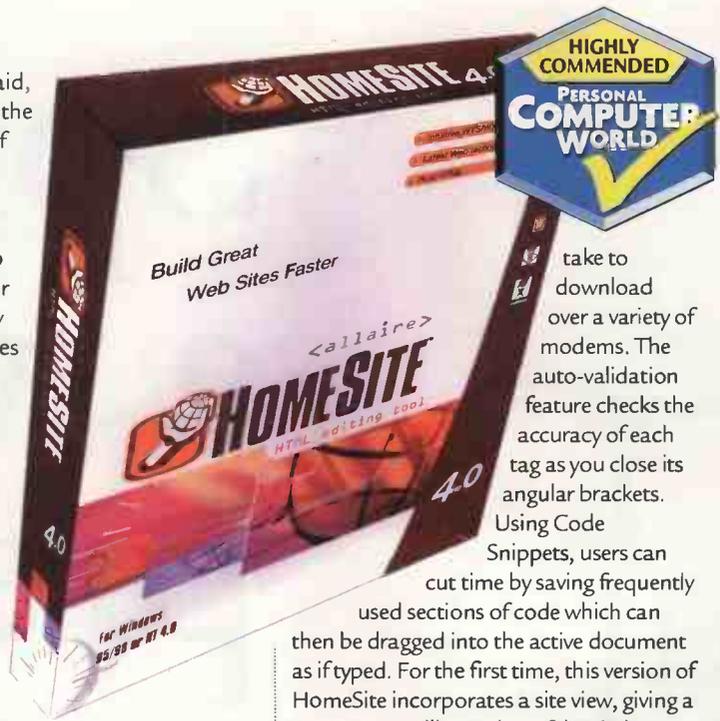
Allaire HomeSite 4

HomeSite offers users a 'pure HTML' code-based method for creating pages and the manufacturers maintain that the package is designed for those who know, or who are at least prepared to learn,

HTML. That said, it has much of the functionality of the primarily WYSIWYG packages. The drag-and-drop capabilities, for instance, allow links and images to be dropped into your document without the need to enter code, and this latest version of the software incorporates a 'design view' mode, allowing you to see how your page looks, as you create it.

Allaire says its interface is WYSIWYN (N standing for need) as users keep a constant eye on the code being produced. This makes working with tables easy for those who understand HTML, because the cursor can be positioned in precisely the right place to take advantage of font and alignment tags. However, this approach makes frame development far more complex than that offered by Adobe's

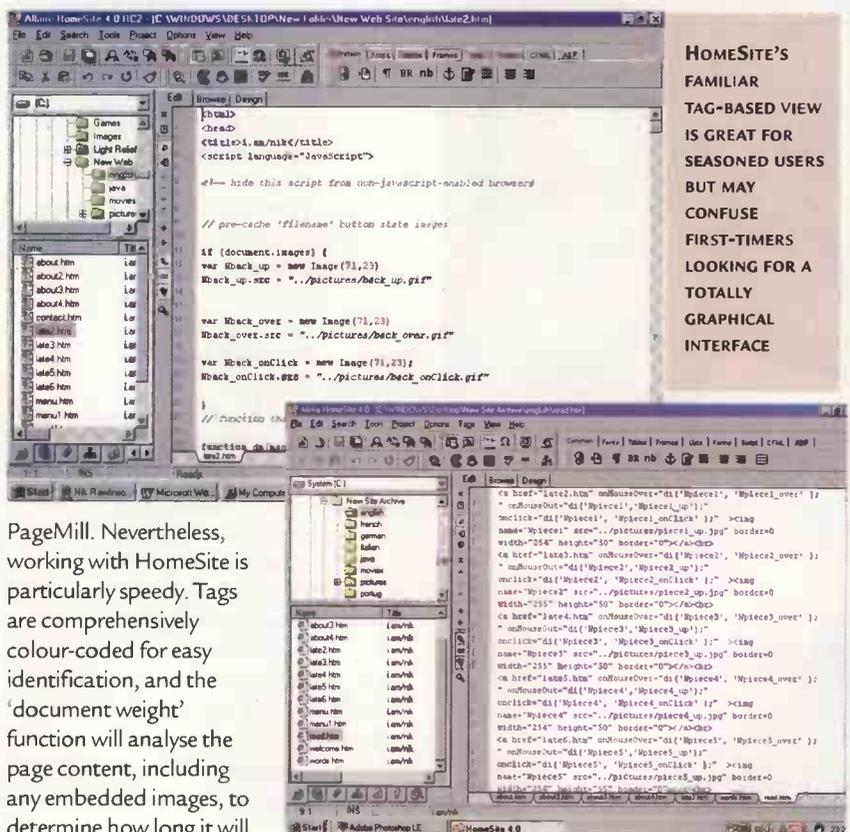
PageMill. Nevertheless, working with HomeSite is particularly speedy. Tags are comprehensively colour-coded for easy identification, and the 'document weight' function will analyse the page content, including any embedded images, to determine how long it will

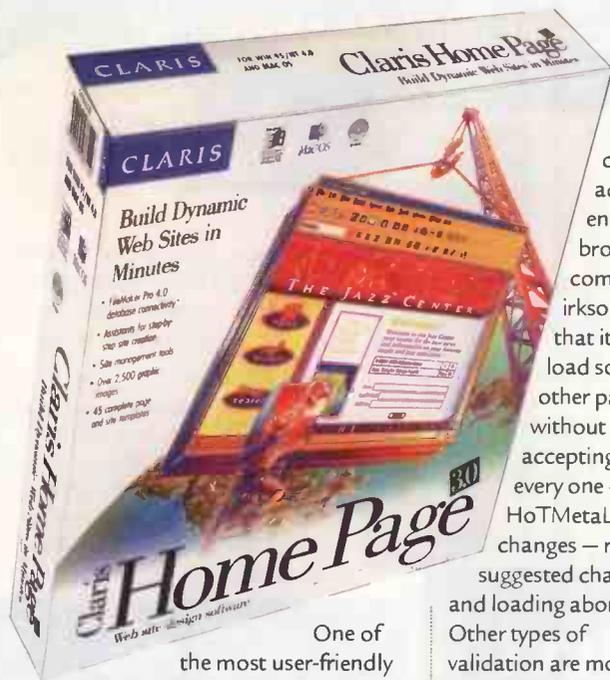


take to download over a variety of modems. The auto-validation feature checks the accuracy of each tag as you close its angular brackets. Using Code Snippets, users can cut time by saving frequently used sections of code which can then be dragged into the active document as if typed. For the first time, this version of HomeSite incorporates a site view, giving a tree-structure illustration of the site's format. This works in conjunction with the integrated link validator and document weighting (download timing) features.

FileMaker HomePage 3

Not surprisingly, this package is tailored for publishing interactive FileMaker databases on the net. The Connection Assistant creates interactive forms designed to specifically suit databases compatible with FileMaker Pro 4.





One of the most user-friendly aspects of this package is its libraries of animations, bullets, banners and clipart that can be dragged and dropped into any web document. This dramatically decreases the amount of time spent sourcing page elements. Handling of tables was unsurpassed. Multiple cells can be selected simply by clicking in the top left cell of the selection and Shift-clicking in the opposite corner. One cell can also be merged into another after it has been selected, by dragging its corner out into the adjacent cells with which it should merge.

Once a frameset has been defined, further frames can be dragged out from the edges of the screen, as in PageMill. Users cannot edit the pages whilst in the frames themselves, though, and the package performs no automatic naming of the frames, which has to be done manually from the object properties dialogue.

SoftQuad HoTMetal Pro 5.0

We were disappointed with HoTMetal's WYSIWYG mode. Although the HTML tags disappear, they are present in the form of invisible characters. This makes it difficult to accurately tell whether you are entering text before or after a font tag. In our trial, this soon became irritating as we had to keep repositioning our text. We also felt that tables were poorly handled; we could not select multiple adjacent cells in the table without selecting either the whole column, row or table.

This package will not allow users to

open HTML documents that do not exactly meet its strict requirements for conformity. While this is admirable in that it ensures your pages will be browser-compliant when completed, we found it irksome, to say the least, that it meant we could not load some pages created in other packages without accepting every one of HoTMetal's changes — reject a suggested change, and loading aborts. Other types of validation are more useful. Any pages created or imported can be checked for spelling, accessibility (for users with a disability or text-only browsers) and for compliance with earlier versions of HTML.

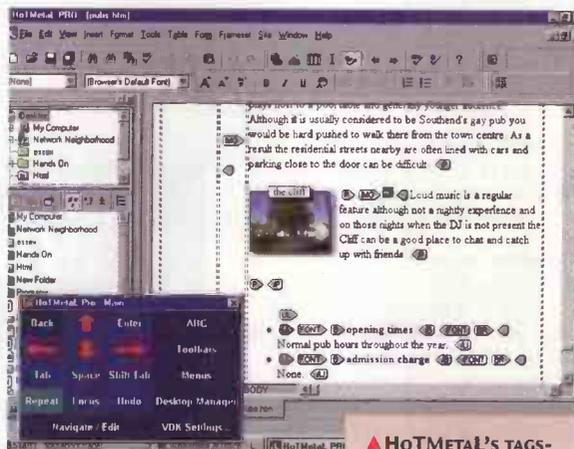
Forms are handled well. Users simply select elements and drop them onto the page. The chances are that no further changes will be

necessary, but those forms which do need tailoring can be altered through a simple dialogue box. SoftQuad's HoTMetal Pro was able to import text from a wide range of packages, except we found that it was not as efficient as PageMill when handling Word documents. Although the general layout was preserved, some

of the coding, especially relating to colours, was stripped out.

Small businesses

The needs of a small-business user are not dissimilar to those of a large company, although there may be fundamental differences in the way the user accesses the net. Dedicated web



▲ **HOTMETAL'S TAGS-ON VIEW IS GREAT FOR USERS WHO WANT TO COMBINE TRADITIONAL CODING WITH WYSIWYG**

servers and leased lines are expensive luxuries and so many small- to

mid-sized organisations may find themselves using dialup networking and connecting to the net through an ISP. That same ISP will most likely also host their web site and so a number of restrictions may be placed on content. One such may be a restriction on the size of the site. It is not uncommon for many ISPs to restrict member web sites to just 10Mb or less, although the likes of Demon and Dircon have recently increased this to 15 and 20Mb, respectively. Sites must therefore be coded as leanly as possible.

In many organisations there is no dedicated web author and so site creation is often handled by a member of the team with a different primary function. Ease of use and the ability to complete the job swiftly, and hence return to their main business, is therefore of primary importance. Well-structured code, although always important, may be a lesser priority for small businesses than large corporates due to the fact that the site will most likely be modified by only one or two users.

Customer feedback is of vital

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Databases

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Info World

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As Browser based access is platform independent, organisations implementing Intranets will be able to achieve time capture regardless of client machines. The only limitation is that all management and reporting functions must still be carried out on Windows PCs. Now timekeepers on remote sites and offsite workers will be able to enter their time quickly and easily directly into the main database, reducing administration costs and ensuring that the main database always contains up to the minute information for reporting.

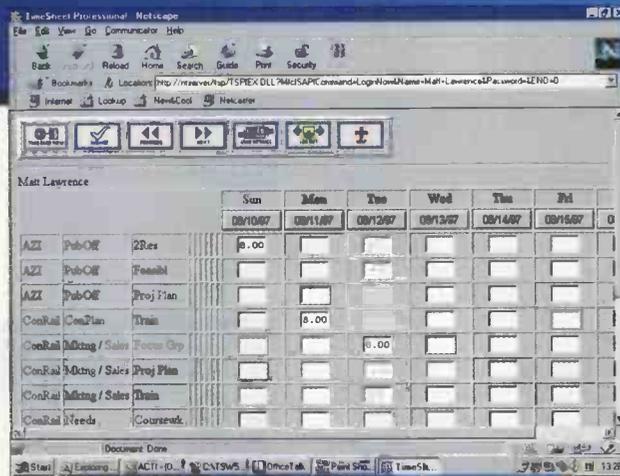
Optional database independent Client/Server operation

TimeSheet's optional Client/Server implementation works with popular ODBC-compliant SQL databases and allows switching to more powerful databases as your organisation grows. Take advantage of your database's capabilities for backups, fault-tolerance and replication using familiar Client/Server tools with your data.

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TimeSheet Professional also features a flexible Report Generator that enables department heads and project managers to compare budgeted hours and expenses against actual costs over any given period,

Deepak Sareen Associates,
Northgate House,
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Middlesex HA2 0DW



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- Microsoft Windows support
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summarise time and expense charges to date, and much more.

This facility is totally user-configurable, letting you create a range of reports showing as much or as little information as you want, either in Summary or in Detail.

"The best time-tracking program I have ever used, including mainframe and mini-software programs". Phil McMorro, Project Manager
Dynapert (Black & Decker)

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TimeSheet Network Edition supports virtually any network, and is designed to give a continuously accurate overview of multi-departmental workflow, helping you to meet important corporate objectives and to keep large projects within budgets.

The number of employees, clients and

activities you can track are virtually unlimited, and built-in administration functions and security allows you to designate and control user access.

Expert Back-Up

A full range of training, support and consultancy services, is available for TimeSheet Professional users, Deepak Sareen Associates also offer free seminars to help you evaluate the system, along with advice on specific applications.

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Postcode.....Tel No.

No. of PCs in your organisation/dept?

Are PCs networked YES NO

Client/Server database type.....

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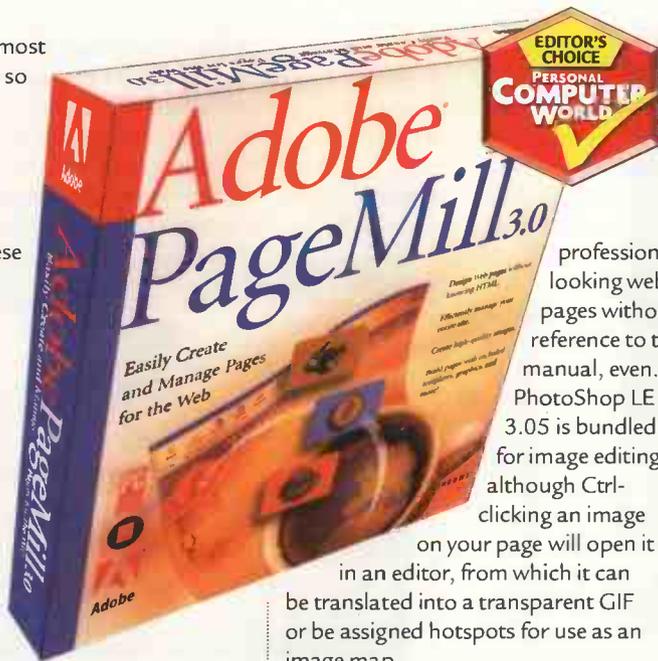
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Tel: 0181 423 8855 Fax: 0181 423 8992
e-mail: dsales@dsareen.com

importance to most companies and so the ability to handle forms should be a paramount requirement. Not only do these ensure that the information returned to the site administrator can be categorised, but they also offer an alternative for those users who do not have an email package associated with their browser, and for those accessing the internet in libraries or from public-access areas such as web cafés. Attaching such a form to a database, however, is not often a vital requirement for small-business users, although Microsoft FrontPage 2000 (p196) has excellent database-handling capabilities.

Adobe PageMill 3.0

No package could be more user-friendly than PageMill. Its extensive, intuitive interface means that first-time users will be able to generate impressive and



professional-looking web pages without reference to the manual, even. PhotoShop LE 3.05 is bundled for image editing, although Ctrl-clicking an image on your page will open it

in an editor, from which it can be translated into a transparent GIF or be assigned hotspots for use as an image map.

Frames can be defined by dragging the boundaries into the screen from the edges of the active window. Right-clicking a link then brings up an iconic representation of the frameset, allowing users to click the frame in which the link should open. Word documents can be imported instantly and without a flaw.

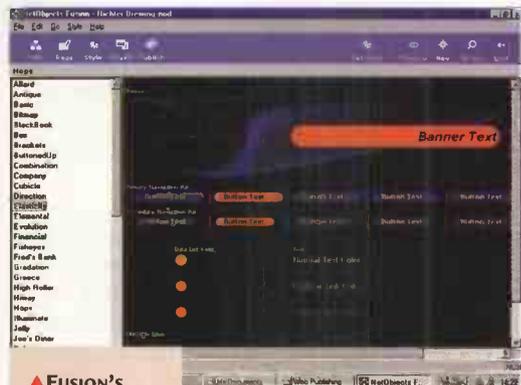
Site elements are controlled by the 'Inspector', a context-sensitive dialogue box that even allows users to drag a bitmap onto it which will then be instantly tiled as the page wallpaper. Forms are generated at speed, and once a form element has been generated it can

be Ctrl-dragged to another location on the screen where an amendable replica will appear, dramatically reducing the amount of time spent on editing.

NetObjects Fusion 3.0

Fusion is fast. Each page is split into two distinct areas: the content layout, and the master border (the uniform design throughout your pages). The master border theme

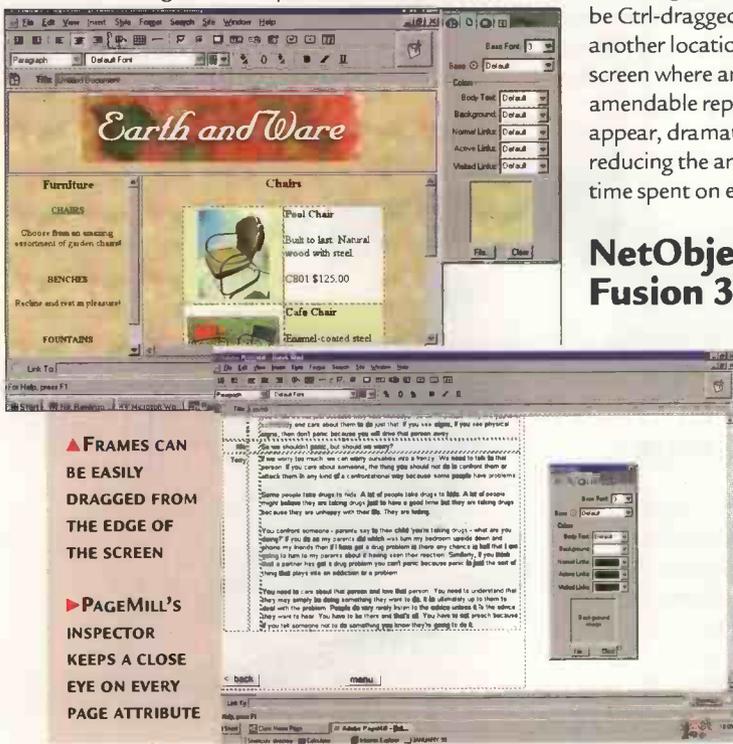
is entirely graphical, with each element being redrawn on-the-fly as the user adds further pages. Images are easy to handle. Defining the location will automatically launch the 'File open' dialogue and, once the image has been selected, Fusion will resize the frame to fit. Resizing the picture holder manually crops the image unless the 'stretch' option has been specifically activated. Text boxes will resize to exactly surround each stretch of text, allowing page elements to be



▲ FUSION'S BORDERS ARE BUSINESSLIKE AND HIGHLY USABLE

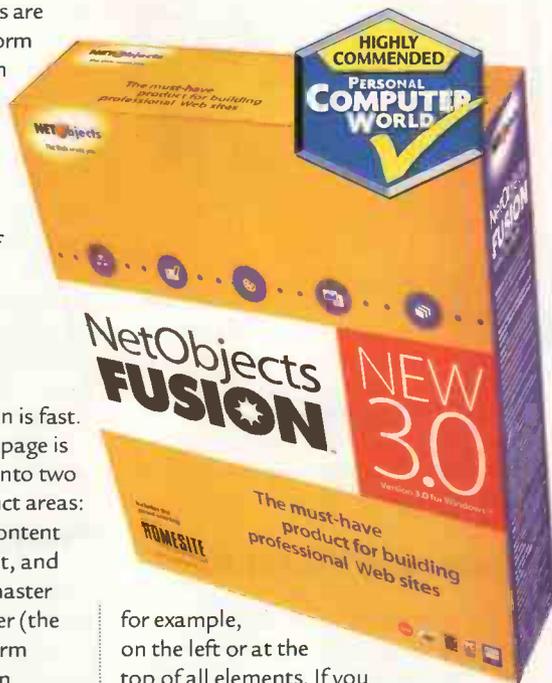
positioned precisely where they are needed. This extends to the constituent parts of a form.

Text areas, check boxes and radio buttons can be positioned with single-pixel accuracy. Multiple-form elements can be aligned along a common edge —



▶ FRAMES CAN BE EASILY DRAGGED FROM THE EDGE OF THE SCREEN

▶ Pagemill's Inspector keeps a close eye on every page attribute



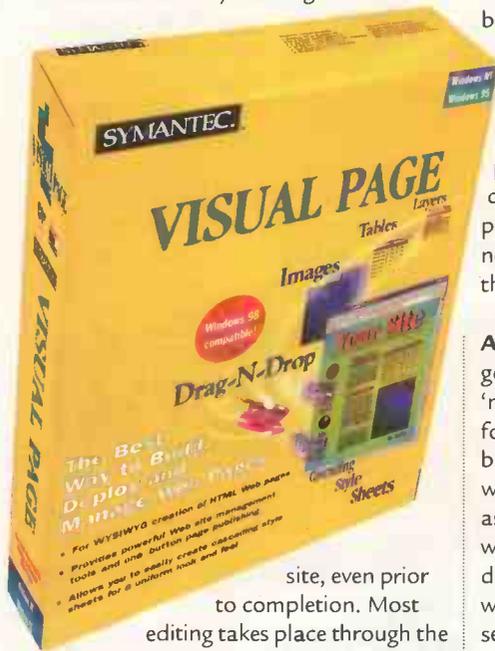
for example, on the left or at the top of all elements. If you position two elements so that they overlap, Fusion will flag it as a problem if the cascading stylesheets and layers option (compatible only with the 4.x versions of Netscape and Explorer



▲ FUSION'S CONTEXT-SENSITIVE PROPERTIES DIALOG PUTS ALL YOUR CHANGES IN ONE PLACE

browsers) is not selected. A wide range of textual file types can be

imported, including RTF and Microsoft Word with the formatting retained. Pages cannot be saved individually because Fusion works on a 'whole site' basis with a 'save site' option instead. This ensures a fully working



site, even prior to completion. Most editing takes place through the context-sensitive 'properties' dialogue windows, keeping all necessary tools to hand. Similarly, the navigation toolbar is context-sensitive, changing to match the element on which the user is working.

Symantec Visual Page

VisualPage is less intuitive than many packages included in this group test, with extensive reliance on toolbars rather than context-sensitive dialogue boxes. Although tables must be created via an on-screen form rather than simply dragging across a drop-down illustration attached to the table button, it is

possible to select multiple cells simply by dragging across them with the clicked mouse — an impressive and useful feature.

We were disappointed that VisualPage maintains only a single level of 'undo', thus permanently committing everything but your most recent

amendment to the page. The copy-and-paste method of associating radio buttons is less intuitive than those packages which assume buttons are associated, unless told otherwise.

Spacer elements are far more evident in VisualPage than many other packages. Rather than having to define the size in a dialogue box, these elements' borders are dragged to size. Image-map creation was similarly impressive. Once anchor points have been defined within the document, generating a hotspot on a previously inserted image will launch a drop-down menu containing the previously defined anchors. The user need only select one of these, or enter the URL for an off-page location.

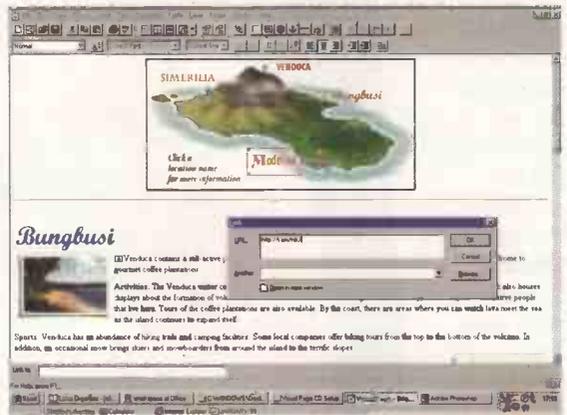
Although VisualPage impressed us by generating two pages when we selected a 'new frame set' (the second page being for users without a frame-compliant browser), we did not like the way that it made the assumption that we wanted our screen to be divided vertically. Should we instead wish a horizontal separation, we had to insert a horizontal division within one of the previously formed frames before deleting the unsplit vertical frame.

FrontPage 2000

Under wraps until the second quarter of 1999, Microsoft FrontPage 2000 builds on the success of the '98 edition but incorporates enhanced features for small-business users.

Themes are more business-like and more easily modified. Unlike in the previous version, it is no longer necessary

to install the Personal Web Server because pages can now be saved directly to the hard drive rather than to a virtual server sitting inside the PC. Similarly, the formerly unique 'Explorer' and 'Editor' modules have been merged, giving the package a far more unified feel.



▲ CREATING AN IMAGE MAP IS A BREEZE USING SYMANTEC'S VISUALPAGE

Daughter pages can be added simply by selecting the parent page and then hitting the insert key, speeding up the process of generating your initial site tree.

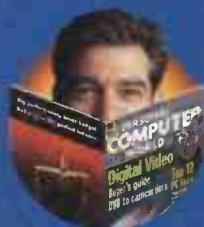
Other time-saving features include automatically appending Submit and Reset buttons to a form area the moment it is defined. At the same time, radio buttons are automatically associated unless the user specifies otherwise. If you tell FrontPage the browsers you would like to be able to display your pages, the incompatible menu options will then be 'greyed out'. Also, FrontPage can analyse pages



Who's Bob?



Bob subscribes to
this magazine



Bob's a key
decision maker



Bob has responsibility for
purchasing your products



Bob responds
to direct mail



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There are 250,000 decision makers, just like Bob, who subscribe to our market leading IT and Financial publications and are available for rental now from VNU One-to-One.

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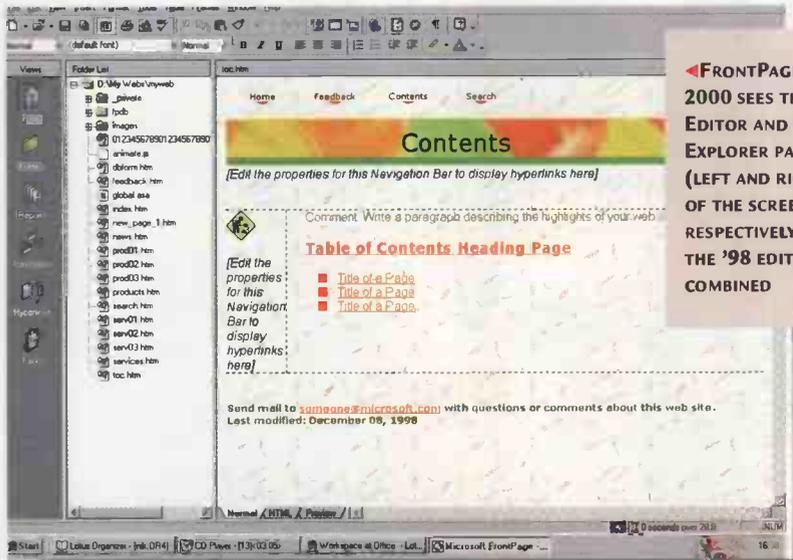
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FRONTPAGE 2000 SEES THE EDITOR AND THE EXPLORER PARTS (LEFT AND RIGHT OF THE SCREEN, RESPECTIVELY) OF THE '98 EDITION COMBINED

Web!

Although most of the products in this test have been split into subgroups, users in any of the named categories can nonetheless employ them all. Web!, however, is designed for and aimed almost solely at the home user who wants to produce a site with a bit of pizzazz. All output is written in HTML4 and DHTML, but as only Microsoft Internet Explorer 4 and above can currently interpret both of these standards, any pages created using Web! will not be seen at their best by Netscape users.

Web! uses a simplified toolbar in which every page element is represented by a single button. Placing text on the site is therefore a matter of clicking the text button, clicking on

coded elsewhere and use them as templates for the layout of all future pages, giving the underlying structure of your site a uniform format. The 'attribute painter', common in Word and Excel, now also allows the pasting of DHTML attributes.

A selection of wizards allows users to create specific site types (a corporate presence, for example) rather than just a blank site. FrontPage does not handle frames as well as some other packages in this category, most notably Adobe PageMill — a frameset must be initiated by selecting a frame template. Frames within that template can then be subdivided. Each frame is automatically named and contains three buttons: Set Initial Page, New Page and Help.

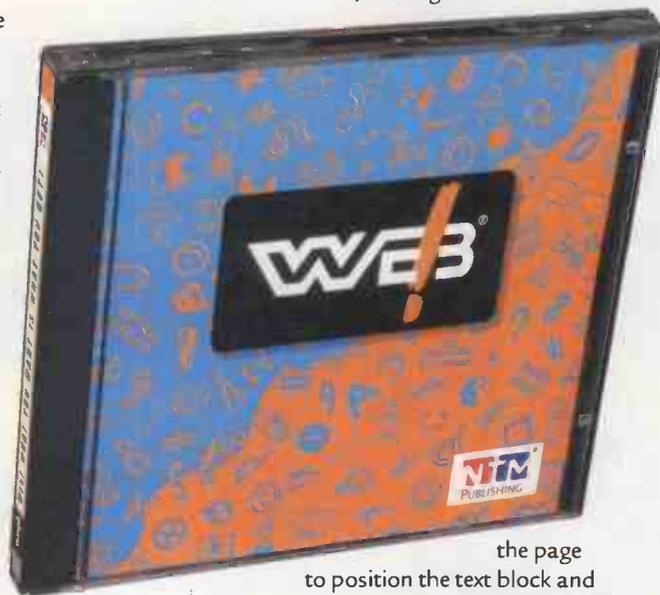
Of the three primary views, Normal, HTML and Preview, the Normal view is supplemented by a tags-on mode similar to that of HoTMetal Pro 5. Hovering the mouse over one such tag reveals all attributes pertaining to that tag.

In testing FrontPage 2000, we could not help but feel that it exactly matched the needs of corporate users as defined in our outline above, indicating that while all of the products reviewed here could potentially be used by any web designer, the features of FrontPage 2000 make it particularly adept in more than one field.

Home users

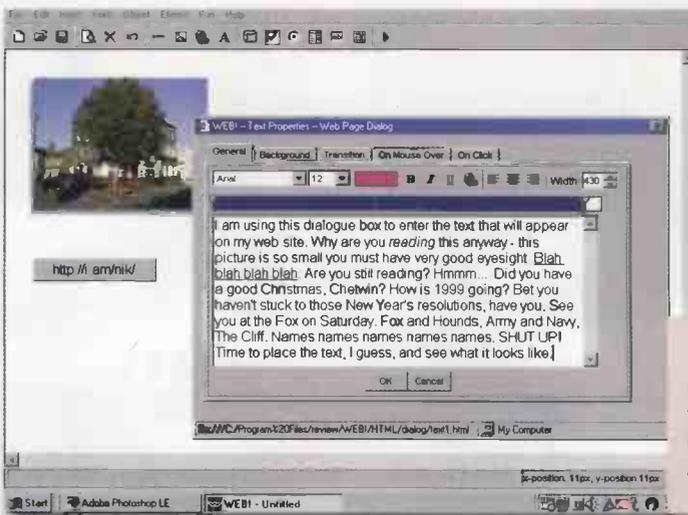
The majority of home users will be confining their design efforts to a personal or hobby-orientated web site.

Most will have had little or no experience of designing a site in the past and so may expect to be guided by the hand through the steps necessary to design and implement their creation. Bearing this in mind, any of the products reviewed in the above categories should suit their needs. However, anybody who has spent some amount of time using the internet will realise that many home users generate their site but then never update it. So, minimising the initial outlay and being able to create a professional impression with the minimum of fuss will be important considerations.



the page to position the text block and then entering the text in a dialogue box. Similar rules apply to all other page elements. While this allows items to be positioned with single pixel accuracy, it unfortunately also means that the

resulting HTML code becomes bloated and may be difficult to edit without referring it back to Web!



FORM-BASED INPUT MAKES WEB AUTHORIZING USING WEB! A BREEZE

What's in a standard?

Not so long ago, all you needed to know about the web was that it used HTML. That's no longer the case. There's a large collection of standards: HTML, HTML 3.2, DHTML, CSS and XML are all things you'll hear bandied around. But what are they all, and why do they matter?

HTML is the foundation of the web as we know it today, and it's also responsible for many of the restrictions.

Because it's a markup language, it was only designed to say which parts of a document are paragraphs, lists, headings and so on. It's not intended to say 'use this font, in this size, and put the picture here on the page'. In the battle of the browsers that original distinction has been lost, but plenty of incompatibility has been introduced.

DHTML (Dynamic HTML) is a powerful way of making pages that can react when you click on different parts of them: moving different layers of information to the front, or revealing

menus, all without waiting for more data to download. You can even have scripts that will validate information on a form. The bad news is that you should avoid DHTML, at least for now: there are too many differences between the leading browsers so unless you want to write two versions of your site, stick with other ways of enhancing the page.

If it's precise positioning, colour and formatting you want, **CSS (Cascading Style Sheets)** is the tool to use. Just like style sheets in a word processor, these allow you to control the look of a document by changing the style definition in one place. Most modern browsers support CSS Level 1 to some degree, and Level 2 allows you to specify how a document should look on paper, or other

media, as well as on the screen.

The latest buzzword is **XML (Extensible Markup Language)**.

It's based on the same origins as HTML, the standard generalised markup language. With XML you can define how your documents look more easily than by using HTML. For instance, you can add your own tags and there are more flexible options for links. XML may not be popular yet, but in the future you'll find it gradually takes over as the choice for most new documents.

Right now, though, the best thing to do is to stick with plain HTML and avoid DHTML. If you want to use fonts and colours in your web pages, use CSS, but test it with different browsers.

NIGEL WHITFIELD

You should avoid DHTML, at least for now

▶ GO TO [HTTP://JIGSAW.W3.ORG/CSS-VALIDATOR/](http://jigsaw.w3.org/css-validator/) TO DOWNLOAD A CSS VALIDATOR

W3C

Validator

W3C CSS Validation Service

Welcome to the W3C CSS Validation Service!

Is dropping a drag?

Modern web editing is easy, isn't it? Drag a picture and drop it on the page. Click at the side of the screen to create a new frame or press a button on the palette to add a form field. You really don't need to know what's happening underneath, do you?

Well, that's debatable. While drag-and-drop web editing can make it easy to put together a simple site, it's not always quite so straightforward when you want to add interaction to your pages. Of course, some programs provide 'web bots' and applets you can use, but they also sometimes neglect to tell you that the things you've added to your site will only work on certain servers.

There's no doubt that understanding the mechanics of HTML and scripting languages gives you more power and flexibility, just like the difference between speaking a language fluently or reading it from a phrase book.

Not everyone has the time to learn all the details, however, and as the web becomes more sophisticated, it will be easier to use components that other people have written to enhance your pages. Some editors, like HotMetaL, already support adding Java applets, for example. Microsoft's extensions to DHTML in Explorer 5 provide ways in which the behaviour of web pages can be governed by small scripts, and it's likely that libraries of those will appear on the web, along with ActiveX plug-ins and Java applets that you can re-use, simply changing a few options to suit your own site.

While using those types of tool will make it easier to drag-and-drop your site

You'll really need to know the ins and outs of HTML and scripts

together, you'll still be at the mercy of those who created the components you use — and you'll have to trust that they only do what they say. And with so many variations between browsers at the moment, sometimes the only way to be

really sure you get the effect you want is to manually tweak the HTML.

One day, you really will be able to drag-and-drop

to build a web site that works with every browser. But until the different players — chiefly Netscape and Microsoft — decide to keep to the standards instead of tweaking them, you'll really need to know the ins and outs of HTML and scripts to make sure you can create the best web site, whatever someone's using to look at it.

NIGEL WHITFIELD

What else do you need?

A web-authoring package is a great starting point: it saves you from having to code your site 'by hand' and do battle with HTML tags. For all but the most basic of sites though, users will need a variety of supplementary items.

Web space is available free of charge from a variety of locations around the net. **Xoom** at <http://xoom.com> and **Tripod** at www.tripod.co.uk are more than willing to offer you varying quantities of space at no charge. But to avoid being used as an advertising billboard by the service providers, both corporates and home users would be advised to invest in an account with one of the many ISPs currently serving the UK.

For just £10 per month (ex VAT) Demon Internet bundles 15Mb of web space with its email accounts. Compared to the size of today's hard drives this may seem rather stingy, but in reality it is more space than most users will ever manage to fill, even with a fairly impressive corporate presence.

For the user on a budget, each AOL screen name includes 2Mb of complimentary web space. With up to five screen names to each account, opting for AOL's low-usage option can be a cost-effective way of nabbing yourself

▼ **TROUBLE GETTING YOUR PAGES ON TO THE NET? TRY A SHAREWARE PACKAGE LIKE CuteFTP**

a 10Mb presence. An image-editing package is also an essential piece of kit in the web author's toolbox.

A text-only site may have been perfectly acceptable several years ago when most users ran text-based browsers, but these days, as faster modems and greater compression ratios have slashed download times to a tenth of what they

vector graphics and a simple set of instructions that tell the plug-in how to manipulate each part of the image, rather than simply redrawing it from scratch. This allows it to produce even full-screen animations yet still

retain small file sizes. The plug-in is only an 118Kb download that can automatically install directly from the Macromedia web site at www.macromedia.com, giving visitors to your site little excuse for not seeing it at its best.

To upload the completed pages to your web site you will

need FTP (file transfer protocol) software. While many authoring packages have FTP capabilities built-in, some do not. One of the most versatile FTP packages on the market is **WS-FTP** from Ipswitch. Currently at Version 6, a free trial version can be downloaded from its web site at www.ipswitch.com.

A suitable alternative comes in the form of **CuteFTP** shareware. Like WS-FTP, a trial download is available from the associated web site at

www.cuteftp.com and offers one-click uploading or downloading of your selected files.

Your pages are not going to go very far without a modem. The winner of our Editor's Choice accolade in the December '98 issue of *PCW* was the **Diamond SupraExpress 56ePro**, chosen on account of its price and the fact that, in these times when the market is still somewhat split between K56flex and V.90 technology, this modem has the capability to handle both.

We'll end our list of 'other tools' on a freebie — a memorable address. If you have a long and difficult-to-remember email address, then hop on over to <http://i.am/> and grab yourself something memorable for free along the lines of i.am/<yourname>.



once were, users have come to expect graphical page elements.

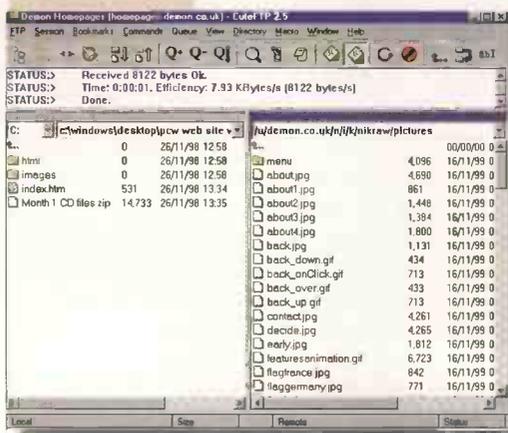
A shareware package such as **PaintShop Pro** (version 5 is on our cover CD) will suit most basic needs but for power users a dedicated package such as Macromedia's **Fireworks**, or ImageReady and ImageStyler from **Adobe**, will be more suited to the task in hand. These packages specialise in minimising file sizes while simultaneously maintaining an acceptable level of image quality.

They do this by reducing the image resolution, or carving it into blocks so that higher compression ratios can be applied to those parts that will be able to handle it. At the same time, they

generate spectacular effects with the minimum of fuss, taking the hassle out of generating JavaScript rollovers (images that change as the mouse is passed across them) or animated GIF files.

Macromedia is also the manufacturer of the hugely successful **Flash** animation package. Whereas animated GIF files are made up of a series of still images overlaid on top of each other, Flash animations are based around

A shareware package will suit most basic needs



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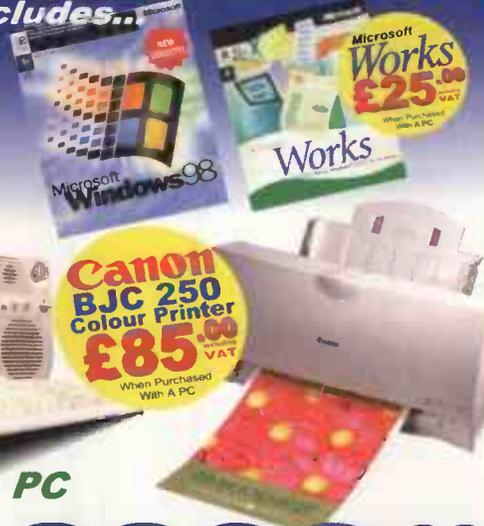


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Table of features

| PRODUCT | FRONTPAGE 2000 (BETA) | FUSION 3.0 | HOME PAGE 3.0 | HOME SITE 4.0 |
|---------------------------|--|--|--|--|
| MANUFACTURER | MICROSOFT | NETOBJECTS | FILEMAKER | ALLAIRE |
| Price (ex VAT) | Not yet available | £233.83 | £69.99 | £88.13 |
| Telephone | 0345 002000 | 01189 829822 | 0845 603 9100 | 01638 569600 |
| Web site | www.microsoft.com | www.netobjects.com | www.filemaker.co.uk | www.allaire.com |
| Frame creation | ✓ | ✓ | ✓ | ✓ |
| Form creation | ✓ | ✓ | ✓ | ✓ |
| Link verification | ✓ | ✓ | ✓ | ✓ |
| Cascading style sheets | ✓ | ✓ | x | ✓ |
| DHTML tools | ✓ | ✓ | x | ✓ |
| Database integration | ✓ | ✓ | ✓ | ✓ |
| MS Word import | ✓ | x | x | x |
| MS Excel import | ✓ | x | x | x |
| Integrated FTP | ✓ | ✓ | ✓ | ✓ |
| Bundled image software | ✓ | x | x | x |
| WYSIWYG interface | ✓ | ✓ | ✓ | ✓ |
| Link capture from browser | ✓ | x | x | x |
| Ratings | | | | |
| Features | ★★★★★ | ★★★★ | ★★★ | ★★★ |
| Ease of Use | ★★★★ | ★★★★ | ★★★★ | ★★★ |
| Documentation | n/a | ★★★★★ | ★★★★ | ★★★★ |
| Value for Money | ★★★★ | ★★★ | ★★★ | ★★★★ |
| Overall | ★★★★ | ★★★★ | ★★★★ | ★★★★ |

Table of features

| PRODUCT | HoTMETAL PRO 5.0 | PAGEMILL 3.0 | VISUAL PAGE | WEB! |
|---------------------------|--|--|--|--|
| MANUFACTURER | SOFTQUAD | ADOBE | SYMANTEC | NTM PUBLISHING |
| Price (ex VAT) | £116.33 | £92.83 | £81.08 | £29.99 |
| Telephone | 0181 387 4110 | 0181 606 4000 | 0171 616 5600 | 0113 234 0444 |
| Web site | www.softquad.co.uk | www.adobe.co.uk | www.symantec.co.uk | www.baboonshop.com |
| Frame creation | ✓ | ✓ | ✓ | x |
| Form creation | ✓ | ✓ | ✓ | ✓ |
| Link verification | ✓ | ✓ | ✓ | x |
| Cascading style sheets | ✓ | x | x | ✓ |
| DHTML tools | ✓ | ✓ | x | ✓ |
| Database integration | ✓ | x | x | x |
| MS Word import | ✓ | ✓ | x | x |
| MS Excel import | ✓ | ✓ | x | x |
| Integrated FTP | ✓ | ✓ | ✓ | ✓ |
| Bundled image software | ✓ | ✓ | x | x |
| WYSIWYG interface | ✓ | ✓ | ✓ | ✓ |
| Link capture from browser | x | x | x | x |
| Ratings | | | | |
| Features | ★★★★★ | ★★★★ | ★★★★ | ★★ |
| Ease of Use | ★★★ | ★★★★★ | ★★★★ | ★★★★★ |
| Documentation | ★★★★ | ★★★★ | ★★★★ | ★★★ |
| Value for Money | ★★★★ | ★★★★ | ★★★★ | ★★★ |
| Overall | ★★★★ | ★★★★ | ★★★★ | ★★★ |

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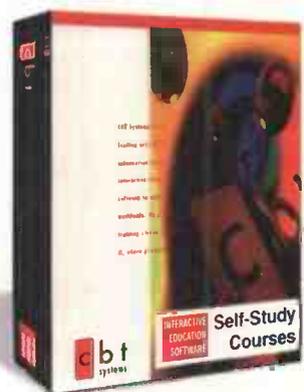
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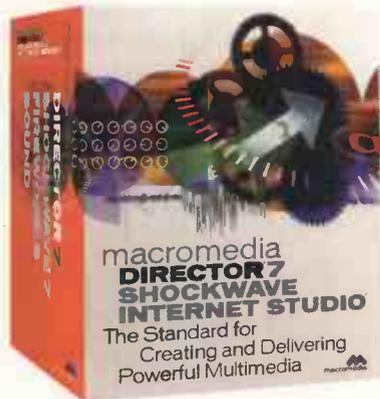
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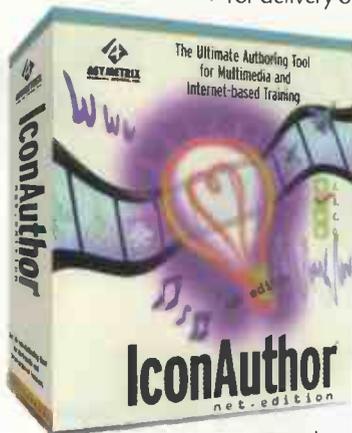
Multimedia authoring

You could be forgiven for thinking that with the rise of the web and the decline of CD-ROMs, multimedia authoring applications were a spent force. But while they have undergone a change in direction and are now more web-orientated, they still retain their original nature. They are able to produce feature-rich, fully-interactive programs no matter what the distribution medium. Here, we look at the four main contenders.

➔ **Macromedia Director** is the most widely known and used multimedia authoring tool for CD-ROMs. This major upgrade, Director 7 Shockwave



Internet Studio, has been redesigned to enable developers to build multimedia web sites. As its name implies, the playback applet Shockwave is part of the Internet Studio package and Macromedia has released version 7 to go with Director 7. Also bundled are Macromedia Fireworks for producing moving web graphics and Sonic Foundry's Sound Forge XP4 or BIAS Peak LE for sound editing. You also receive a multi-user server for creating distributed Shockwave applications such as multi-player games and online chat rooms. Director uses the movie analogy for creating multimedia, where events are placed in frames on a time-line. Sophisticated visual effects allow you to create TV-like presentations.



Director's HTML support includes links to all its media types (text, graphics, sound, video and animation), HTTP for media distribution, HTTPS for secure e-commerce transactions, XML for data exchange, CGI POST for two-way communication, and updated support for Java. You can also integrate and control other web technologies such as Flash, QuickTime 3, QTVR and animated GIFs.

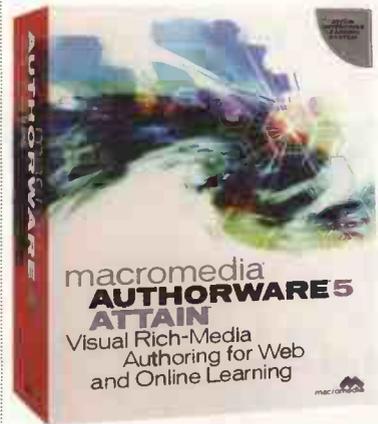
Lingo, Director's scripting language, has been enhanced to control internet connectivity, vector shapes, alpha channels, scaling and rotation and now supports the dot-syntax — as found in JavaScript and Visual Basic.

➔ **Asymetrix ToolBook II Instructor** 6.5 is a leading light in CBT (computer-based training) applications and offers an integrated development environment. It is based on the page-book metaphor for creating general multimedia and online learning applications. It includes a full set of objects such as buttons, media players, text fields, hyperlinks, animations and ActiveX controls, as well as accessory programs for editing audio, icons, cursors, bitmaps, menus and colour palettes. There's a Palette Optimiser to eliminate palette shift. Also bundled is Asymetrix Digital Video Producer for capturing and editing video files.

Instructor uses an object-orientated (MS Visual Basic-like) scripting language, called OpenScript, which incorporates a debugger and the ability to link to Windows system functions.

You can export your applications to HTML with Java and/or ActiveX support for web delivery, or to ToolBook II format for delivery on any Windows platform with the royalty-free runtime. The new version has improved HTML export, including pixel-perfect object positioning and object overlapping. There are new objects to add RealMedia, Windows Media and PowerPoint files to your applications, and a new video synchroniser catalogue object allows you to display text that is associated with a frame in a video file.

➔ **IconAuthor Net Edition** is another major player in the CBT market. It is an icon-based development tool for creating training applications to be delivered on CD-ROM, intranets and the internet. The emphasis on online



distribution is obvious, especially with the inclusion of Asymetrix Librarian for managing online courses with IconAuthor applications.

IconAuthor combines page layout and a simple but powerful flowchart assembly environment to create the flow of your application. More importantly, there is no programming language to learn. IconAuthor's Universal Media Access technology separates application

PCW DETAILS



Macromedia Director 7 Shockwave Internet Studio

Price £938.83 (£799 ex VAT)

Contact Computers Unlimited
0181 358 5857 www.macromedia.com



Asymetrix ToolBook II Instructor 6.5

Price £2,291.25 (£1,950 ex VAT)

Contact Asymetrix Learning Systems
0171 345 1500 www.asymetrix.com



IconAuthor Net Edition (7.6 for Windows, 7.1 for Unix)

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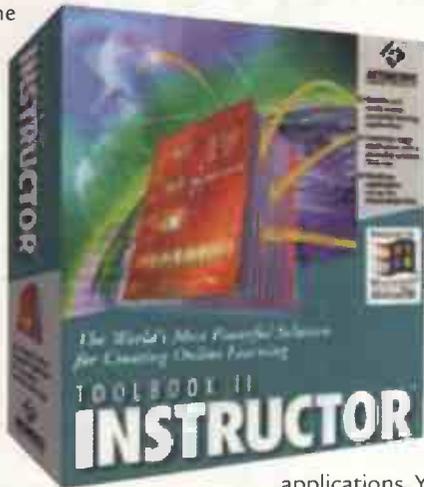
Macromedia Authorware 5 Attain

Price £2,643.75 (£2,250 ex VAT)

Contact Computers Unlimited
0181 358 5857 www.macromedia.com

content from logic to enable easy updates, and gives you the ability to create hybrid applications delivered via a combination of CD-ROM and the internet or intranets. The new version supports both ActiveMovie and Lotus ScreenCam — useful if you are training personnel how to use new computer software and if you are developing electronic performance support software.

If you require advanced database capabilities using the power of SQL, IconAuthor's database object supports this. You can access other external data, too, using the ODBC (Open Data-Base Connectivity) standard. If you need to build or run your applications on multiple platforms, IconAuthor supports most: Windows 3.x, Windows 95/98, Windows NT and Unix.



➔ **Authorware 5 Attain** forms part of Macromedia's Attain Enterprise Learning System of integrated, open, scalable tools for creating online

learning applications to be deployed across the web, local area networks and CD-ROMs.

It uses flowlines and icons to enable you to create your

applications. You drag icons, which represent screen elements and other components of the application, to the flowline to create the outline of your application. Then you use menus to add content and interactivity. You can add

hyperlinks, hypertext, full text search and retrieval and there are 11 different built-in interactions. One of the product's new features is advanced compression and streaming for delivery over the internet, so rich-media courseware can even be delivered economically to users with dial-in connections. Another is Knowledge Track, which automatically captures student progress and performance and seamlessly integrates your training with the Attain Enterprise Learning System.

Content developed with Authorware Attain can be embedded in web pages created with Dreamweaver Attain, Macromedia's visual HTML authoring tool for web learning. For internet audio, Authorware bundles the Voxware audio streaming codec and the Real Networks server. Authorware is simple to use. Wizards let you develop applications easily and you can drag-and-drop from a gallery of pre-built learning interactions to add logins, quizzes and so on.

Other useful packages

In addition to the big players, there are a number of other packages that are nevertheless worth investigation and consideration.

➔ **Quark Immedia** lets you add multimedia to existing static documents created in Quark XPress, the publishing package used by most newspapers and magazines, for delivery on CD-ROM, intranets or the internet. The development product is Mac only but there is a player for Mac and Windows. The familiar Quark tools work as usual except that any object you create can be given multimedia properties. You can also script sequences of events.

➔ **Matchware Medi8tor 4.0 Pro** is an entry-level package, so there is no programming language to learn but there are functions for manipulating text, numbers and logic so that some sophistication can be built-in. Applications are built by using objects and adding actions to them. One of Medi8tor's highlights is the ability to animate video objects while they are running and add transparency to them.

➔ **Scala Multimedia MM200** puts its emphasis on TV-like visual effects and so has lots of features such as transitions and video titling. Uniquely, the program can run at a 320x200 screen resolution which is useful for preparing material to output to video. It is good for business presentations, is easy to use, and includes a simple scripting language.

➔ **Illuminatus 4** is cheap, easy to use and comes with a wide collection of clip media. To create an application you can just import prepared material into pre-drawn screen layouts. You can also use it to create screensavers and HTML pages.

➔ **Dazzler 4.1** is similar to IconAuthor and Authorware and is powerful enough to be a competitive, cheaper alternative. It uses flow diagrams and objects to create applications. Essentially, you drag objects from a toolbar onto a worksheet and create a tree-type structure for your application. Then you specify details for each object, such as which sound or video file should be played. Dazzler applications can be run on the web using a supplied Java player.

FCW DETAILS

Quark Immedia
Price £828.38 (£705 ex VAT)
Contact Quark 01483 454397
www.quark.com

Matchware Medi8tor 4.0 Pro
Price £223.25 (£190 ex VAT)
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www.digitalworkshop.co.uk

Dazzler 4.1
Price £229.13 (£195 ex VAT).
Deluxe version £934.13 (£795 ex VAT)
Contact Intela Media 01372 363717
www.dazzlersoft.com

Editor's Choice

Although we have divided the eight web authoring packages reviewed here into three distinct categories, defined by the primary user of each piece of software, it should be remembered that each package will more than likely suit all users.

Although some do not include the database integration functions found in others, it is only a small proportion of large corporate users who will actually use this facility. Indeed, when examining a number of sites on the net, one is struck by the fact that there are very few sites which could not be put together by even the most rudimentary package.

Web authoring

A home user should certainly not be discouraged from selecting a package from the small or large business sections. Likewise, users with a leased line and dedicated web server should not shy away from those packages making an appearance in our 'small business' category. As we have seen in the case of FrontPage 2000 in particular, many of these packages include all of the functionality such users would need.

It is unfortunate that some of the most useful functions of many of these packages are not universal. Symantec Visual Page, for instance, has unrivalled table-handling functions, allowing the user to select multiple cells using the mouse and format the contents independently of the remainder of the table. Adobe PageMill, on the other

hand, far outperforms its rivals in handling frames and is bundled with the excellent PhotoShop LE. Users may find that combining two or more packages will best suit their needs, even if that is an uneconomic and sometimes frustrating experience.

The first of two products which

are **Highly Commended** is Allaire's **HomeSite**.

Now at version 4, it retains its major strength, that of a WYSIWYN (N standing for need) interface of colour-coded HTML tags, while still incorporating the drag-and-drop functionality of a more graphically orientated product. Also **Highly Commended** is NetObjects' **Fusion 3**. Its logical interface enables any novice to create a presence, in a matter of minutes, of which they may be proud. It's fast, too. Any changes applied are done so on a global basis almost instantaneously. The toolbar is context sensitive, minimising the number of irrelevant functions on display. This perhaps explains why Fusion, found here in our 'small business' category, is the number one choice of so many large corporations.

Before presenting our final award, we tip our hats for an honourable mention to **FrontPage 2000**. FrontPage 98 was an impressive product and the changes made to the beta version of its latest incarnation have certainly paid off. Watch out for it in the shops when it hits the shelves in the second quarter of this year.

Adobe PageMill 3 walks away with our **Editor's Choice** accolade. The strength of this product is in its simplicity. First-time users will spend next to no time getting to grips with the interface and will probably fail to realise that the thought which has gone into its creation allows them to perform technically complex functions that would take several lines of tags to replicate if coding by hand.

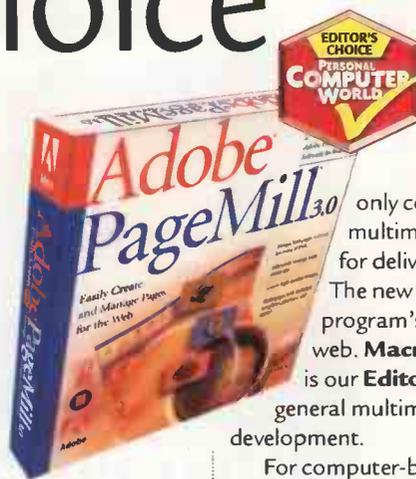
Multimedia authoring

Since the acquisition of Aimtech, which produced IconAuthor, by Asymetrix and its decision to concentrate on online learning software, the price of Asymetrix Toolbook has doubled. This leaves Macromedia Director, whose price has

dropped in the last year, as the only contender for high-end multimedia applications for delivery on CD-ROM.

The new version extends the program's capabilities to the web. **Macromedia Director** is our **Editor's Choice** for general multimedia application development.

For computer-based training applications, although IconAuthor and Authorware attempt to make development easier through the use of flowchart assembly methods, the best product is still **Toolbook II Instructor** and is therefore **Highly Commended**. It has a wide user-base in educational establishments, as well as third-party support products, and it is very powerful. In addition, it belongs to a family of products which include Toolbook Assistant and Toolbook Librarian, which are designed as a whole to cater for a complete training solution.



PCW CONTACTS

For product ratings, prices and other details see our table of features on page 202.

FrontPage 2000
Microsoft 0345 002000
www.microsoft.com

Fusion 3.0
NetObjects 01189 829822
www.netobjects.com

HomePage 3.0
FileMaker 0845 603 9100
www.filemaker.co.uk

HomeSite 4.0
Allaire 01638 569600
www.allaire.com

HoTMetal PRO 5.0
SoftQuad 0181 387 4110
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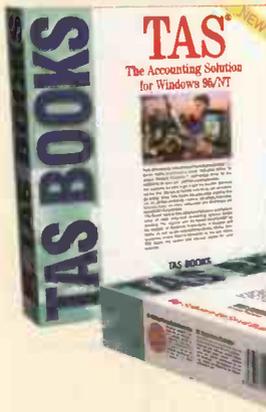
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Toby Howard on developments in **neural networks** and the latest creatures in the cyber Ark.

The neural zoo

Surely something called 'Robo-lobster' cannot be serious — it must be one of those clumsy monsters Godzilla is always fighting. But no. It *is* serious. It is one of a new breed of artificial creature which exhibits unusually complex behaviour. They're called 'biobots' and they may be the missing link between biology and artificial life.

The robo-lobster spends most of its time submerged in a tank at Boston's Massachusetts Institute of Technology <w3.mit.edu/seagrant/www/roblog.htm>. The brainchild of Dr Thomas Consi, it's a shoebox-sized self-contained robot designed to mimic the ability of lobsters to sense chemicals in the water around them. What makes it unusual is that it is programmed using techniques inspired by the way biological systems work. This is 'soft computing', where answers don't need to be precise and where logic is fuzzy <web.cps.msu.edu/~miagkikh/SC_AL/>

Robo-lobster now has a cousin, cyber-cricket. Researchers at Edinburgh University's Mobile Robot Group <www.dai.ed.ac.uk/groups/mrg/> have built a robot which successfully mimics the behaviour of female crickets which fly towards males who sing a mating song. The cyber-cricket is actually a three-wheeled laboratory robot called a Khepera, about half the size of a computer mouse <diwww.epfl.ch/Khepera/> Its 'brain' is a Motorola 68000 processor running a neural network.

Neural nets have their origins in attempts to model the real nerve cells found in animal brains. The net comprises a number of interconnected simple processing elements, each of which has a set of inputs and outputs. Each of an element's inputs has a certain 'importance level', or 'weight', associated with it, and when the weighted sum of any signals present on its inputs exceeds a threshold value, the element 'fires' just like a real brain-cell and sends a signal to its outputs. These transmit a signal to other elements in the net which behave in a similar way, and so on. Eventually, the outermost elements in the net signal the 'answer'.

Neural nets are special because they can recognise patterns in the data fed to them. This is achieved by an initial 'training' period, supplying the net with sample datasets and repeatedly revising the weights of the inter-element connections to improve response.



▲ **ROBO-LOBSTER IS BEING USED TO TEST BIOLOGICALLY INSPIRED ALGORITHMS FOR AUV GUIDANCE USING CHEMICAL SIGNALS. THE VEHICLE IS DESIGNED TO MIMIC THE BASIC FEATURES OF A LOBSTER RELEVANT TO CHEMICAL SENSING AND ASSOCIATED BEHAVIOURS**

They make their decisions by weighing the evidence, rather than obeying fixed sequences of program instructions like traditional computers do.

The Edinburgh team has fitted tiny microphones to the cyber-cricket and trained its neural net to respond only to the calling song of males of a particular species of cricket.

Placed in an environment containing random noise as well as real crickets chirping their love songs, the cyber-cricket successfully recognises the real crickets and trundles towards them. Amazingly, the cyber-cricket's neural net has only four elements: two for its left side and two for its right. Each pair is interconnected, and their inputs are fed from the robot's ears and their outputs control the robot's wheels.

Machines like cyber-cricket and robo-lobster are exciting because they demonstrate that multiple behaviours can arise from single mechanisms. For example, it's long

Machines like cyber-cricket and robo-lobster are exciting because they demonstrate that MULTIPLE BEHAVIOURS CAN ARISE from single mechanisms

been believed that the cricket must use two information-processing systems for performing the separate tasks of recognising a male cricket's call, and then locating its position in order to move towards it. The cyber-cricket, however, uses its single neural net for both jobs.

We must be careful about drawing conclusions. Just because a robot equipped with a simple neural net can exhibit the same behaviour as a biological organism, it doesn't follow that the organism works in the same way. What it shows is that unexpectedly complex behaviour can result from simple processes. It's a pat on the back for the theory of evolution, too, since the neural net 'learns' by using genetic algorithms which simulate the copying and mutation processes of DNA. If researchers are on the right track, more complex artificial creatures will soon be scuttling about. Let's hope Godzilla isn't among them. □

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hands on

contents

There's a useful line-up of *Hands On* pages for you this month. We see the start of a new *Workshop* series which takes you through the do's and don'ts of creating your own web site. It kicks off with a look at designing your **web site** layout and covers some basic HTML code words. There is also our mini series on **mixing and mastering** in the *Sound* section: Steven Helstrip works through the dilemmas of mixing and mastering audio to CD and coping with equalisation. And, you should mind your language in this month's *PDA* pages. If you want to get started in **OPL**, Mark Whitehorn takes you through the finer points of programming your **Psion** and shows that it can actually be fun. And for those *Windows NT* enthusiasts who think the fun is a long way off when it comes to **remote administration**, worry not: Andrew Ward tackles working from afar. If cartography grabs you, route your way to Ken McMahon's easy recipe for producing maps in **Adobe Illustrator 8**. And, don't miss the third part of our **Linux** operating system workshop.

ALANA JUMAN BLINCOE
DEPUTY EDITOR

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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.



Putting the boots in

Chris Bidmead uses SuSE and YaST to achieve a **dual-boot system** with Linux.

Last month I hinted at problems with installing S.u.S.E 5.3 on the Dell PowerEdge. The snag is that the Linux kernel cannot find the hard drive. But it's nothing a quick download from the net can't solve. The trick is knowing where to get the download and what to do with it. If we cover the basics, all will become clear.

The Dell PowerEdge uses SCSI hard drives (appropriate for a server) and embeds the host bus adapter for them on the motherboard, rather than take up a PCI slot with a plug-in card. The new embedded Adaptec SCSI host bus adapter is a small chipset on the motherboard instead of the almost functionally equivalent AIC7xxx plug-in cards that Linux already knows and loves. The old AIC7xxx driver in the Linux kernel (or the equivalent loadable module) doesn't understand the new chipset and so cannot see the hard drive.

As soon as he realised this, Doug Ledford <dledford@redhat.com>, whose project this is, started work on a revision of the AIC7xxx code. A beta version appeared shortly after the arrival of S.u.S.E 5.3 with its 2.0.35 kernel, which is why it's not on our PCW CD-ROM. The AIC7xxx code is now complete and incorporated in a boot disk image which you can download from the S.u.S.E site at www.suse.com.

Having downloaded the new boot disk image, called aic7890, from the S.u.S.E site I made a boot disk under another version of Linux by running `dd if=aic7890 of=/dev/fd0` which transfers the image as a raw stream of bytes. The same can be done under DOS, using the rawrite DOS utility provided with most Linux distributions (it's under /dosutils on the S.u.S.E 5.3 CD number 1).

Put this diskette in the floppy drive and boot from it. As it boots, it discovers hardware features of the machine, streaming a log of its findings up the screen. Unless you're trying to diagnose a problem, like not being able to find the hard disk, you can ignore all this. S.u.S.E then kicks straight into a startup utility



◀**FIG 1** THE INITIAL PART OF THE S.U.S.E INSTALLATION RUNS A ROUTINE CALLED LINUXRC WHICH OFFERS A NUMBER OF CHARACTER-BASED SCREENS SUCH AS THIS, WHICH SETS UP FEATURES LIKE SCSI ADAPTERS AND NETWORK CARDS

It's worth trying out the live filesystem as it lets you run

called linuxrc which takes us into a series of character-based screens like that in Fig 1. In my case there was no need to load a SCSI module, as the new SCSI driver is compiled into my temporary floppy-disk-loaded kernel. But I did need the eepro100.o module for the Intel EtherExpressPro 10/100 network card in the Dell PowerEdge.

A full walk-through of S.u.S.E's installation would go over ground already covered with the installation of Red Hat on my friend Marcus's machine (PCW, Jan & Feb '99), so here's an outline.

YaST a little help

Once the all hardware is catered for, the S.u.S.E installation takes you into YaST (Yet another System Tool) which will help you configure everything and pick the software you want to install. You can even choose to install the live filesystem CD which S.u.S.E supplies with the 5-CD package [Fig 2]. Apparently, a number of S.u.S.E customers have complained that this CD is missing from their set: it's behind a flap at the back of the CD case. People have just failed to spot it.

▶**FIG 2** THE S.U.S.E 5.3 FIVE-CD PACKAGE INCLUDES A 'LIVE FILE SYSTEM' CD WHICH MINIMISES YOUR HARD DISK REQUIREMENT BY PROVIDING MOST OF THE ESSENTIALS READY-TO-RUN FROM YOUR CD DRIVE

packages without transferring them to your hard disk. You can integrate the live filesystem CD once you have the S.u.S.E core fully installed, which is great for making the most of a system that's short of hard-drive space. If you run the live CD filesystem at this point in the installation you'll be able to access all the manual pages and the info system — a kind of character-based hypertext knowledge-base put together by the GNU community to document key utilities such as tar, emacs and so on. Type 'info' on the command line to get started.

The Dell PowerEdge 6.5Gb hard drive came with a couple of partitions already in place. The second partition, seen as /dev/sda2 by the S.u.S.E installation routine, was 2Gb's worth of Windows NT 4.0, while /dev/sda1 is a small 16Mb special Dell partition used to configure the hardware. I decided to leave these alone and create a small root partition for Linux and an extended partition for everything else Linux needed, along the lines discussed last month.



YaST offers five main installation configurations depending on the amount you want to install. You can add or remove as much as you want from these. Obviously there'll be some packages which are dependent on the installation of other packages to work properly. The dependencies are something of which YaST is able to keep track.

Another handy thing YaST does is calculate your remaining potential disk space while you're selecting your packages. This avoids the problem Marcus and I got into in the first article in this series (PCW, Jan '99) — running out of space during the installation. If a partition is going to end up with less than five percent free space, YaST will warn you in advance, giving you a chance to back off and select fewer packages or even return to the partitioning part of the installation to change your partitions.

I should say that in the first cut of S.u.S.E 5.3 there was a bug on CD 1 which caused YaST to freeze if you were partitioning a drive with free space left over (see www.suse.de/Support/sdb_e/maddin_yast_fdisk.html). This only happens in the English-language version, so my fix was to re-run the installation in German. The general principle is: check with your Linux distributor's site for the latest news before installing.

The package installation prompts for changes of CD, and once it's finished you're asked to re-insert the first CD. Then YaST asks you to select an appropriate kernel for your system. Normally this will be the standard EIDE kernel, but if you have SCSI drives you'll need one with the appropriate SCSI driver compiled. Which brings us back to my AIC7xxx problem. Confusingly, an AIC7xxx kernel is offered by the menu at this point, but it came from the CD and I knew it wouldn't work with the Dell PowerEdge's on-board Adaptec chipset. The kernel I needed was on my boot floppy. To see how I did this, turn to the *Hands On Unix* column (p241).

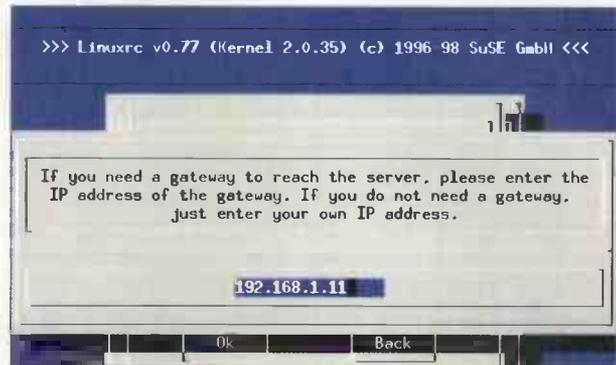
Nearly there

Now the main S.u.S.E 5.3 installation is essentially complete. At this point, YaST takes you into a few configuration details along the lines we covered with the Red Hat installation (PCW, Jan '99). This time I opted for network installation.

It's just a matter of answering a few questions about the machine's IP address, its host name and the name of the IP domain. If you want to put your machine on a TCP/IP network and these terms mean nothing to you, catch up by reading the online Network Administrator's Guide supplied with the S.u.S.E disk set, or on the web at, say, www.linuxhq.com/guides/NAG/index.html

Name that network

On my network I don't use BOOTP or DHCP so I entered a static IP address and a netmask of 255.255.255.0 for a class C network. My XyXEL ISDN router is my network's "gateway" [Fig 3] but I'm going to set up a PPP dialup connection to my ISP for the purpose of this workshop, rather than the 'so-easy-it's-cheating' router connection. So I told YaST that the Dell was my, er, gateway (as it were). YaST invites you to fill in the address of the primary nameserver — this is a dotted quad number like 158.152.1.58 which you get from your



▲ **FIG 3** IF YOU'RE USING A ROUTER, THIS IS WHERE YOU TELL S.U.S.E 5.3 ITS IP ADDRESS. IF YOU DON'T HAVE ONE, ENTER THE ADDRESS OF THE MACHINE ON WHICH YOU ARE INSTALLING

ISP. You'll also need a name for your network; mine is `cbidmead@home.edu`, but it's completely arbitrary.

The Network Administrator's Guide gives you a 'guts and all' view of the Linux networking mechanisms, dealing with the various daemons and their configuration files. S.u.S.E front-ends this with a single configuration file called `/etc/rc.config` which also handles much of the system configuration. A tool called `SuSEconfig` reads this file and changes all the other config files accordingly. You can edit `/etc/rc.config` directly, once you know what you're doing, and then run `SuSEconfig` to fix the changes. ➤

FIG4

Persuading Lilo to fork

```
# LIL0 Konfigurations-Datei
# Start LIL0 global Section
boot=/dev/sda3
#compact # faster, but won't work on all systems.
read-only
prompt timeout=100
vga = normal
# force sane state
# End LIL0 global section.
# Linux bootable partition config begins
image = /vmlinuz
root = /dev/sda3
label = Linux
# Linux bootable partition config ends
```

Just add the following to the end of this file:

```
# DOS bootable partition config begins
other = /dev/sda2
label = WinNT
table = /dev/sda
# DOS bootable partition config ends
```



For beginners, YaST simplifies this by providing a menu-driven front-end to /etc/rc.config which automatically runs SuSEconfig. A dedicated Linux hacker may dispense with this and edit the various core config files by hand. YaST helps you fix the LILO boot loader in much the same way as discussed in our Red Hat installation (PCW, Feb). Now it's time to remove the CD and the floppy disk, reboot and log in. Remember that login names are case sensitive.

Now I'm in the character-based terminal mode of Linux. I won't run through S.u.S.E.'s X installation: it's much like Red Hat's, with the additional option of running SaX (S.u.S.E. Advanced XF86-Configurator) which makes X installation even easier. I upgraded the Dell PowerEdge with a Matrox Mystique card, a very easy card to install X onto as it's well catered for by the XFree86 programmers.

Remember that the Dell PowerEdge came with a 2Gb Windows NT 4.0 partition (/dev/sda2, as viewed from Linux)? At the moment, the drive's Master Boot Record (MBR) is set to jump straight to /dev/sda3, where LILO is lurking. LILO boots straight into Linux, so we need a way of persuading LILO to fork optionally to the Windows NT kernel on /dev/sda2. You can do this via YaST's System Admin/Kernel and Boot Configuration/LILO configuration menu, but for some fun and excitement let's do it by hand. We need to log in as root and edit the /etc/lilo.conf file. Currently it looks like Fig 4 (p213). The NT partition isn't DOS, it's NTFS, but it is 'DOS bootable'. The new stanza means that if we enter the 'WinNT' string at the LILO boot prompt it will take us to /dev/sda2 and run the operating system it finds there. To achieve this, we need to run /sbin/lilo on the config file. It spits out

```
Added Linux *
Added WinNT
```

as confirmation. The * indicates Linux will be booted by default.

And that's it. A dual boot system that leaves the resident Windows NT installation untouched but adds the completely new dimension of Linux. I've learnt a lot sharing these installation experiences with you, and I hope you've found the exercise helpful, too.

Good luck when you try this for yourself — and you know where to find me if you need me (see 'PCW Contacts').

CONFIGURE THE ISP CONNECTION

You can set up a PPP (point-to-point protocol) connection to your ISP or by grunt-work on the relevant config files if you know what you're doing.

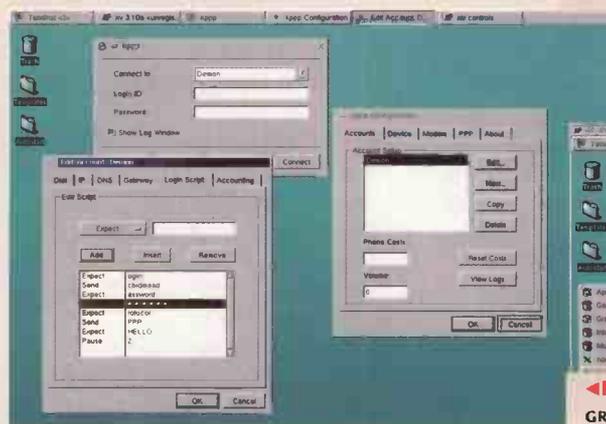
For the modem, it's helpful to invent a device called /dev/modem and symbolically link it to the actual I/O port where your modem is connected (mine is /dev/ttyS0). YaST does this under its System Administration/Network configuration menu.

You can use Yast to enter full details of your ISP, but if you're going to use the Windows-friendly KDE desktop

also a well-organised, menu-driven PPP configuration tool. And it comes with online help, making configuration easy [Fig 6]. Depending on your ISP you'll either authenticate with the remote server via a script, through PAP (Password Authentication Protocol) or CHAP



▲ FIG 5 BY DEFAULT, S.U.S.E 5.3 INSTALLS KDE, THE WINDOWS-LIKE DESKTOP DESIGNED TO MAKE MIGRANTS FROM MICROSOFT FEEL AT HOME. UNLIKE WINDOWS YOU CAN USE THE BUTTONS (BOTTOM CENTRE) TO SWITCH BETWEEN FOUR DIFFERENT DESKTOPS (CONFIGURABLE TO A MAXIMUM OF EIGHT). YOU CAN ALSO HIT CTRL-ALT-Fn (WHERE Fn IS A FUNCTION-KEY NUMBER BETWEEN 2 AND 6 INCL.) TO SWITCH INTO A CHOICE OF VIRTUAL TERMINALS WHERE YOU CAN BE LOGGED ON AS 'VARIOUS USERS'



HOWTO — they're both in the S.u.S.E disk-set. Here, too, kppp walks you through the setup. Fig 6 shows it helping me put together a script to connect to Demon

◀ FIG 6 THE KPPP GRAPHICAL DIALLER INCLUDES BUILT-IN UTILITIES TO SET UP YOUR MODEM, ORGANISE YOUR AUTHENTICATION AND CREATE YOUR CONNECTION SCRIPT

which S.u.S.E 5.3 installs by default [Fig 5] there's a nicer way.

The daemon linking you to your ISP is called pppd. One of the KDE utilities is a front-end to pppd, called kppp. This is not only a great graphical dialler, it's

(Challenge Handshake Authentication Protocol). See the Network Administrator's Guide for details and the PPP-

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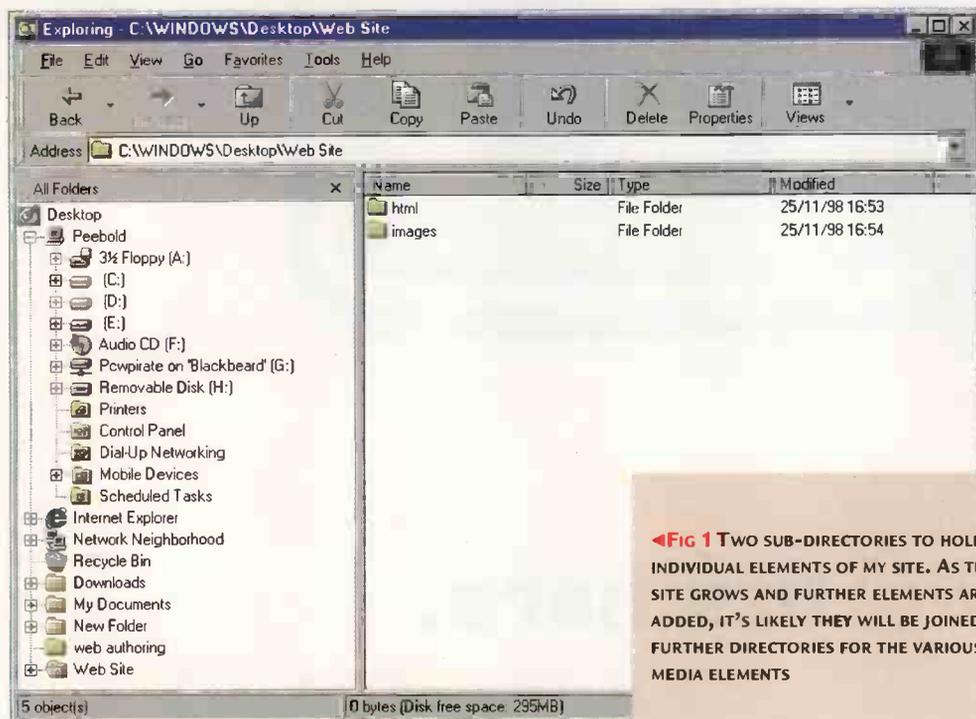


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Weaving a web

Design and build **your own web site**. Nik Rawlinson shows you how to start the project.



◀**FIG 1** TWO SUB-DIRECTORIES TO HOLD INDIVIDUAL ELEMENTS OF MY SITE. AS THE SITE GROWS AND FURTHER ELEMENTS ARE ADDED, IT'S LIKELY THEY WILL BE JOINED BY FURTHER DIRECTORIES FOR THE VARIOUS MEDIA ELEMENTS

Many older browsers cannot support frames and so designers rightly argue that to cater for the widest possible audience it's best to avoid them altogether. A more sensible alternative is to offer a non-frames option that will lead users to a version of the site along the lines of a traditional flat-form layout. With this in mind, we'll create a frame-based site. If your browser doesn't support frames, the latest versions of Netscape's and Microsoft's browsers can be found on our cover-mounted CD. The frame structure of the site is set up with the code in Fig 2,

Designing your own web site from scratch, coding it by hand and seeing successful results can be a rewarding experience.

It's useful, too, as it's cheaper than investing in a dedicated authoring package and means you'll be able to keep an eye on what's happening. You'll build streamlined pages which, theoretically, will look exactly the way you want. This month, we'll look at designing your layout and run through the basic HTML code words you'll need to get started.

Your chosen subject

You'll probably have a clear idea of the subject around which you'll be basing your project. Whether it's a personal home site, a guide to your home town or a business site showing your products to the world, a few common principles apply. For the sake of illustration, this series will be centred on creating a personal web site, although the tags and methodology used here will apply to almost any other site you may have in

mind. All files created are on our cover CD, and you can see the site as it grows online by visiting <http://i.am/pcw/>. To keep things tidy, we'll put our images and pages in separate directories. Other media, such as sound files, Java applets or proprietary animations generated with Macromedia Flash and similar packages, will be segregated to make them easy to find as the site grows, and allow us to expand the site at a later date without having to search for files, especially as names may by then have been forgotten [Fig 1].

Firstly, we need to decide if our site will use frames. These are a useful method of subdividing the screen and keeping elements such as the title and menu visible while the content of the pages changes in the primary frame. The main benefit is that although setting up the frames may initially be a little tricky, it will save time in the long run. You'll no longer have to place navigation buttons and replicate your menu on each page. Instead, the site's main menu can remain visible at all times, dramatically reducing your workload.

allowing for a screen-wide title bar, 50 pixels deep, straddling two columns. The leftmost vertical column, 130 pixels wide, will host our site menu. To the right will be the main frame, occupying the remainder of the screen, which will be the area where our pages are displayed, and it is thus wider than the menu frame. You'll notice that each is named. These names will be used to direct menu options to the appropriate destination.

Index linked

This page will be the first thing to confront visitors to the site, so we'll call it `index.htm`, saving it in the site's root directory. The reason for this is that many ISPs direct browsers to automatically search for a file called `index.htm` or `index.html` in any directory to which a browser is pointed if visitors don't specify a destination file. This is the only page we shall not be saving in our site sub-directories. You will notice this initial page has no actual content *per se*. It just defines a frame-bound structure into which the

[FIG 2] Setting the frame structure

```

<HTML>
<HEAD>
  <TITLE>Nik's HomePage</TITLE>
</HEAD>
<FRAMESET FRAMEBORDER=0 BORDER=0 FRAMESPACING=0 ROWS="70,*">
  <FRAME SRC="html/banner.htm" NAME="bannerframe" SCROLLING=NO>
<FRAMESET FRAMEBORDER=0 BORDER=0 FRAMESPACING=0 COLS="130,*">
  <FRAME SRC="html/menu.htm" NAME="menuframe" SCROLLING=NO>
  <FRAME SRC="html/welcome.htm" NAME="contentframe">
</FRAMESET>
<NOFRAMES>
<BODY>
This page uses frames and requires a compatible browser which
yours, I'm afraid, is not.
</BODY>
</NOFRAMES>
</FRAMESET>
</HTML>

```

Now to put some content into our frames. We'll start with the banner. The banner runs across the width of our site and won't change as users move around it. So, we'll use it to display a site logo. Although there are a number of specialised web graphics creation packages such as Adobe's ImageStyler or Macromedia's Fireworks, you can use regular imaging software. Our cover CD includes a copy of PaintShop Pro 5 which will prove to be more than adequate.

Screen resolution is generally around 72dpi so

browser will load the pages of the site. The code in Fig 2 will load three further pages: banner.htm will be loaded into the frame we've called bannerframe, menu.htm will be loaded into menuframe, and welcome.htm will load into content frame.

On the right lines

Let's look at a couple of the key lines of this structure in detail.

➔ First, the line `<FRAMESET FRAMEBORDER=0 BORDER=0 FRAMESPACING=0 ROWS="50,*">` generates the first frame. It removes any borders (BORDER=0) so the edges are effectively invisible to any user with a modern browser. Similarly, FRAMEBORDER=0 and FRAMESPACING=0 remove any padding, allowing page elements within the frame to stray up to the edges.

The ROWS tag tells the browser we want to split the screen horizontally. Had we used COLS, as in Fig 2, two lines below, the screen would have been split vertically instead. The '50,*' defines the frame size. It refers to a depth of 50 pixels, and the asterisk tells the browser that the frame below should fill what

remains of the screen. Had we stated '50,*70' we would have had a frame of 50 pixels depth at the top of the screen, another of 70 pixels depth at the foot, and the remaining centre portion, whatever size that would be, using any space remaining between the two. So, our frames will always exactly fit within the browser windows no matter how large or small the site visitor makes it.

➔ Second, the line `<FRAME SRC="html/banner.htm" NAME="bannerframe" SCROLLING=NO>` defines the frames' content. The source (SRC=) is the file banner.htm, found in the html directory of our site, while the frame's name is bannerframe. Each frame in a set must be given a unique name. When we start to build our menu we'll use these frame names to direct the hyper-linked pages to specific locations on our screen, rather than opening in the frame where the link was clicked.

Finally, on that line, we've specified that the user shouldn't be allowed to scroll the contents of the frame. If its contents are too big to display, they'll be cropped at the border.

it's advisable to create any images at this resolution. Upping the resolution will improve the quality but it will be a disproportionately longer download for site users. It's also a good tip to reduce the number of colours used in the image — images with only 256 colours will load a lot faster than those with 16.7 million.

Many graphics packages have a 'web safe' palette of colours which a browser should be able to display without trouble on either a Mac or PC platform. If your graphics package incorporates this facility, it's worth putting it to use.

Create a new image of this resolution and make a note of the size. If the height is larger than that of your bannerframe, you'll need to either make the image smaller or increase the frame height.

Many graphics packages have 'web-safe' colours

As the frame definition for bannerframe specifically states the frame should

not scroll, an oversized image will be cropped at the borders. We now need to put the banner image onto our site.

Once it's saved in the images directory as banner.jpg, we'll write a one-line web page that points to it [Fig 3]. The height and width attributes define the size of our image. If we didn't

[FIG 3] Pointing out the banner

```



```



[FIG 4]

Virtual rectangles

```

<Html>
<Head>
<Title>
The Imagemap
</Title>
</Head>
<Body Bgcolor="white">
<Img Src="images/imagemap.jpg" Border="0" Height="300" Width="130" Name="imagemap_menu" UseMap="#imagemap_menu" ✓
Alt="This is an imagemap - please enable images on your browser">
<Map Name="imagemap_menu">
<Area Shape=Rect Coords="13,232,103,262" Href="html/contact.htm" target=contentframe>
<Area Shape=Rect Coords="55,185,120,215" Href="html/noise.htm" target=contentframe>
<Area Shape=Rect Coords="6,93,82,123" Href="html/words.htm" target=contentframe>
<Area Shape=Rect Coords="44,41,116,71" Href="html/about.htm" target=contentframe>
</Map>
</Body>
</Html>

```

(Key: ✓ code continued on line below)

include them, a browser would simply leave the image as it was after loading it. But, if the image were not loaded, it would not be able to produce a blank box of the same size. Should this happen, our layout would be lost. The 'alt' tag, meanwhile, is used by text-only browsers or those with speech synthesis for the sight-impaired. It too will either display while the image is loading, or if the image fails to load, leave the page in a usable condition even if it has been only partially downloaded. This line of code is saved in the html directory as banner.htm. Reloading our original index.htm, you'll see it now simultaneously loads banner.htm and our image, and places it into the top frame.

Seeing successful results can be a rewarding experience

On the menu

The menu will run vertically down the left-hand side of the screen. Like the banner, this will be a permanent resident on the screen. It won't scroll, as we've disabled the scrolling attribute in that frame. We'll set each menu option so that rather than opening in the default location (which would be menuframe, as that's where we're clicking the hyper-link) it will open any associated pages in contentframe.

Two options are available to us in generating our menu. The easiest is to create a series of text-based links. In these

days of fast modems and unlimited (well, 20Mb at least) web space, that's a little boring. A far more interesting option would be to generate an image map — a picture with hot spots which link the pages of your site. In the frame structure we've defined, the menu frame is fairly slim; just 130 pixels wide. To avoid changing this we'll have to design our menu to fit within these constraints. As with the banner image, we'll stick to 72dpi and reduce the colours used to a web-safe palette.

The site will incorporate four main sections: 'about', 'words', 'noise' and 'contact'. Each is accessed from the image map. Before the hot spots can be defined though, the map needs to be drawn. It's then time to mark the co-ordinates of your hot spots. Using the sample image accompanying this workshop (*on our cover CD*) we'll define four virtual rectangles to encapsulate each of the words in the image.

On location

To see how this works, load the image into any graphics package displaying the co-ordinates of your cursor location and check that the vectors, in Fig 4, define the opposite corners of boxes around each word. In Fig 4, the browser loads the image imagemap.jpg from the images directory. We name this imagemap_menu so that the browser

can locate it as you run your mouse across its surface. Next, it's defining each hyperlink. This is best explained by looking at one link in detail:

```

<Area Shape=Rect
Coords="55,185,120,215"
Href="html/noise.htm"
target=contentframe>

```

In this line, we tell the browser that the hyperlink is a rectangular section of the image. The upper left-hand corner of this link is 55 pixels in and 185 pixels down the graphic we've called imagemap_menu.

The lower right-hand corner of the rectangle, meanwhile, is at the co-ordinate 120, 215. Therefore, if the user clicks anywhere within this virtual rectangle, the browser will open the file noise.htm, found in the html directory, in the frame we've called contentframe.

Expecting visitors

So now we've defined the three permanent parts of our site: the banner and menu, both of which will remain visible at all times, and the frame structure that binds the content of our site into a set layout. Next month, we'll deal with attracting visitors to your site.

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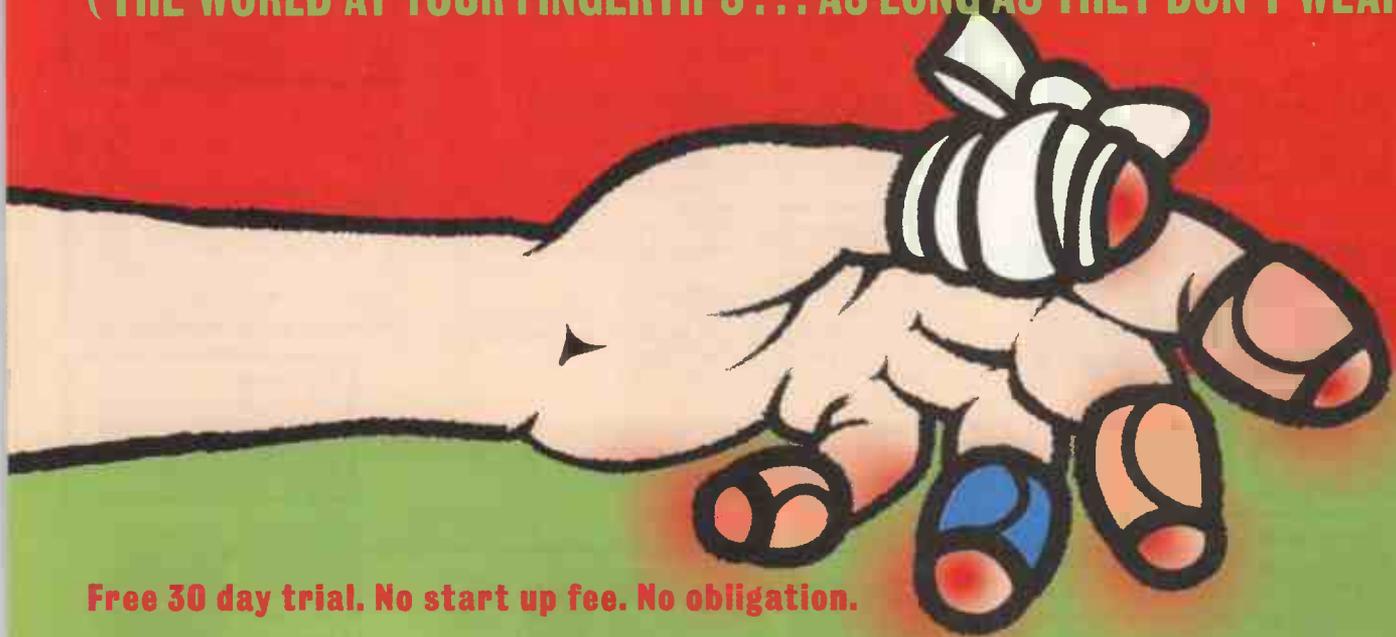
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Use and abuse

Security on the net needs improving to boost user confidence, says Nigel Whitfield.

Connect to the internet and your systems will be hacked! You'll have people breaching your security and stealing your personal data! Nothing will be safe from these destructive people bent on taking over our universe!

OK, so that's verging into B-movie territory, but there are people out there who'll try to get into your computer systems. Often it's just for the thrill of it, or your computer may be a stepping stone as they try to cover their tracks on the way to their ultimate destination. The chances of someone actually wanting to attack your system for a particular reason are probably small.

Not my problem?

Is this of no concern to people who have a PC at home? It might well be: with well-known security breaches such as Back Orifice, people can connect to your system and do a lot of damage. You might not think that's a tremendous problem if you dial up and have a different IP address assigned each time you connect — and you'd be right. But jump forward a few months, past BT's trial of ADSL (giving a few people an "always on" connection) to the time when it's more commonplace. Imagine the potential for havoc if you annoy someone at work, and they try to mess up your system for you, or you end up in the middle of someone else's flame war. There have even been cases of someone maliciously placing pornography on a system and then tipping off the police.

Most of it can be avoided by following sensible security precautions and keeping your system up to date with patches. It can be a time-consuming job. And things aren't always made easier by those who distribute software. A well set-up system may not be completely immune to attacks, but it's a lot more

THE RIGHT SCRIPT

Forms keep rearing their head in messages sent to net.answers; as some rightly point out, it can be pretty simple to design a form in a graphical web-page editor, but the problems I recently covered still crop up. I've looked at some examples of how to write parts of a script, and I'd love to provide more in future. The

biggest problem is, what sort of script would you like to learn about? Do you want to know how to write something in Visual Basic that will process data on a Windows system? How about using Perl under a Unix web server? There's even AppleScript, now much faster with OS 8.5. So I'd like to hear from you, about what systems your web pages

run on, and what you'd like to know about running scripts on web servers. Do you want to know Perl, or should I enlist the help of the VB experts? How about good old-fashioned C? Send an email to net.answers@pcw.co.uk and I'll try to present some useful scripts over the coming months that will help you do what you really want.

secure — and can help you find who's trying to get in, and from where. Almost every day, the logs on my firewall reveal information about who's been trying to gain access to some of my systems.

Low-key ISPs

Unauthorised access is a breach of the Computer Misuse Act, so you'd expect ISPs to take it seriously. But they don't all treat it the same. Some have responded to reports of people trying to attack systems

with "This user's account has been terminated", and others with "He's been warned". Some have revealed the offender's name, offering

co-operation with the comment, "We've had other complaints about him". You might consider that type of response unsatisfactory, or indeed useful to know where someone is. To an extent, I feel comfortable knowing — and I can ban all users of that particular ISP from the net services I run. Yet what's more disturbing, and will be more so as "always on" connections grow, is low ISP co-operation. Complain about a hacker, and they might

be kicked off the net. Then they'll sign up with someone else and do the same thing again. One ISP said it couldn't share information because it would be against the Data Protection Act, although it would probably be covered by the many exemptions for protection and prevention of crime. Collating logs showing a hacker's movements is time consuming. You might think you've a right to sniff around and discover if someone's web servers have security vulnerabilities, but you don't. So keeping everything safe can be a hard job.

Act accordingly

The net has grown partly because of people providing useful things free of charge. But if the result is attacks on your computers and little chance of compensation, how many will want to maintain that tradition? If ISPs really want the net to grow, they must act in a co-ordinated manner, so people taking their first steps on to the net can do so with confidence, not trepidation. Of course, everyone has to protect their own computers, but a little help — and perhaps some application of the Computer Misuse Act — would go a long way to making customers confident.

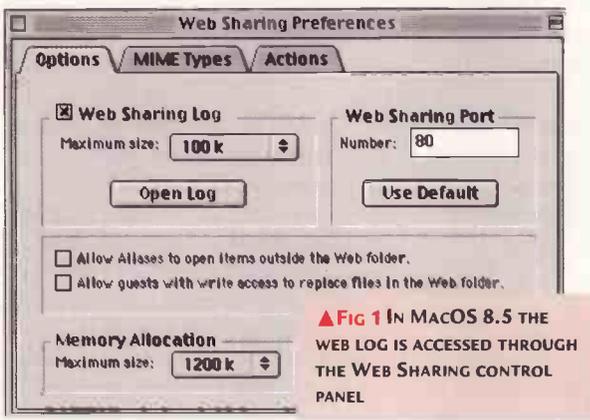
Most of this havoc can be avoided by following sensible security precautions



Questions & answers

Q I'm running a Mac with the web sharing enabled. Is there a way to see a log of who's been accessing the web pages?

a Not if you're using MacOS 8.1 and the standard Apple Web Sharing extension. If you upgrade to MacOS 8.5 you can view a log, which is in a standard format most web analysis tools will be able to understand. To access the log, open the Web Sharing control panel and go into the Preferences [Fig 1]; from the Options tab, ensure the "Web Sharing log" check box has an X in it. To open the log, click



the version of the software you are using; you can't change the default, but you could always create a shortcut to the UK pages, which are reached via the keyword INTERNATIONAL. The best solution is to wait a while for the UK version of AOL 4, which should be out by the time you read this.

Q I've brought back from the US a new Compaq Presario 1810 portable with a built-in 56K modem. Unfortunately, the modem won't talk to BT. Any suggestions?

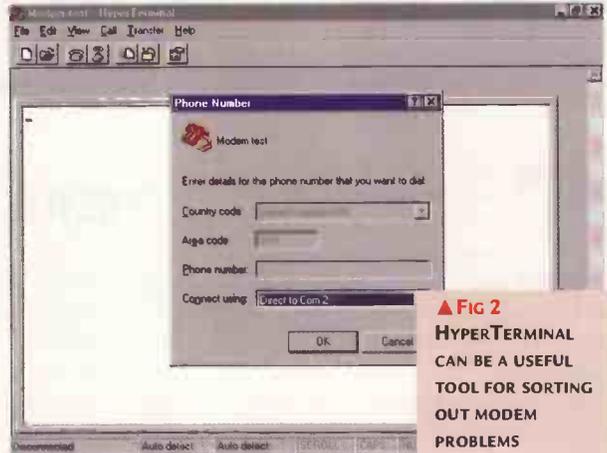
a The modem should recognise dial tone, but you can find out if it doesn't by using the command ATX0,

the Open Log button; you may see a message from the Finder asking you which application you want to use to view it.

Q I've downloaded version 4.0 of AOL and I'd like to know if it's possible to change the default setting of the US version of Channels to the UK version instead. If this can be done, please tell me how. If not, then let me know the next best thing.

a The main menu and the channels screen are chosen by AOL depending on

which will tell the modem not to listen for dial tone. It's worth turning on the speaker with the ATM1 command so you can hear what happens. The best program to do all this in is HyperTerminal [Fig 2]: tell it you're creating a direct cable connection, then type the commands shown, followed by ATH1 to take the modem off the hook — you should hear the dial tone. If you don't, then you'll need to change cables. Contact a company like TeleAdapt <www.teleadapt.com> which can supply cables that will sort out most problems like this.



▲ FIG 2
HYPERTERMINAL CAN BE A USEFUL TOOL FOR SORTING OUT MODEM PROBLEMS

Q I have upgraded to Navigator 4.06 from the PCW CD, but every time I start Navigator, halfway through the loading screen I get a box saying "The local configuration file specified a configuration URL but the AutoAdmin component could not be loaded. AutoAdmin is required to support remote configuration URLs. You will be unable to load any remote documents." Navigator works perfectly after I have clicked on OK, but why does this happen?

a This is most likely because Navigator is attempting to load details of its configuration, including which proxy servers to use, from a remote location. By doing that, system administrators can easily configure a large number of systems just by changing a single file. You need to check the preferences (on the Edit menu), and in the Advanced section you'll find options that relate to using remote configuration URLs. Make sure that none of these are selected and your problems should go away.

for the background aren't smooth — they come out with lots of little dots in them. Why is this?

a The problem arises because you're most likely using a 256-colour display, as is your friend. You run into trouble with some colours because the Mac and the PC both have a slightly different palette of colours in 256-colour. If you choose a colour for your web page that doesn't appear on both platforms, you'll see grainy colours with flecks of other colours in them as the computer tries to get the closest match that it can. The solution is to use a web design program that allows you to pick from the common palette so that you can be sure everything will work fine whatever platform you use. You can find information about the problem on the web. One useful page, which has an online colour chart with all the values you'll need for coding your web pages, is at www.lynda.com/hex.html.

PCW CONTACTS
Nigel Whitfield welcomes readers' suggestions and feedback for the Internet column. He can be contacted via the PCW editorial office (address, p10) or email internet@pcw.co.uk

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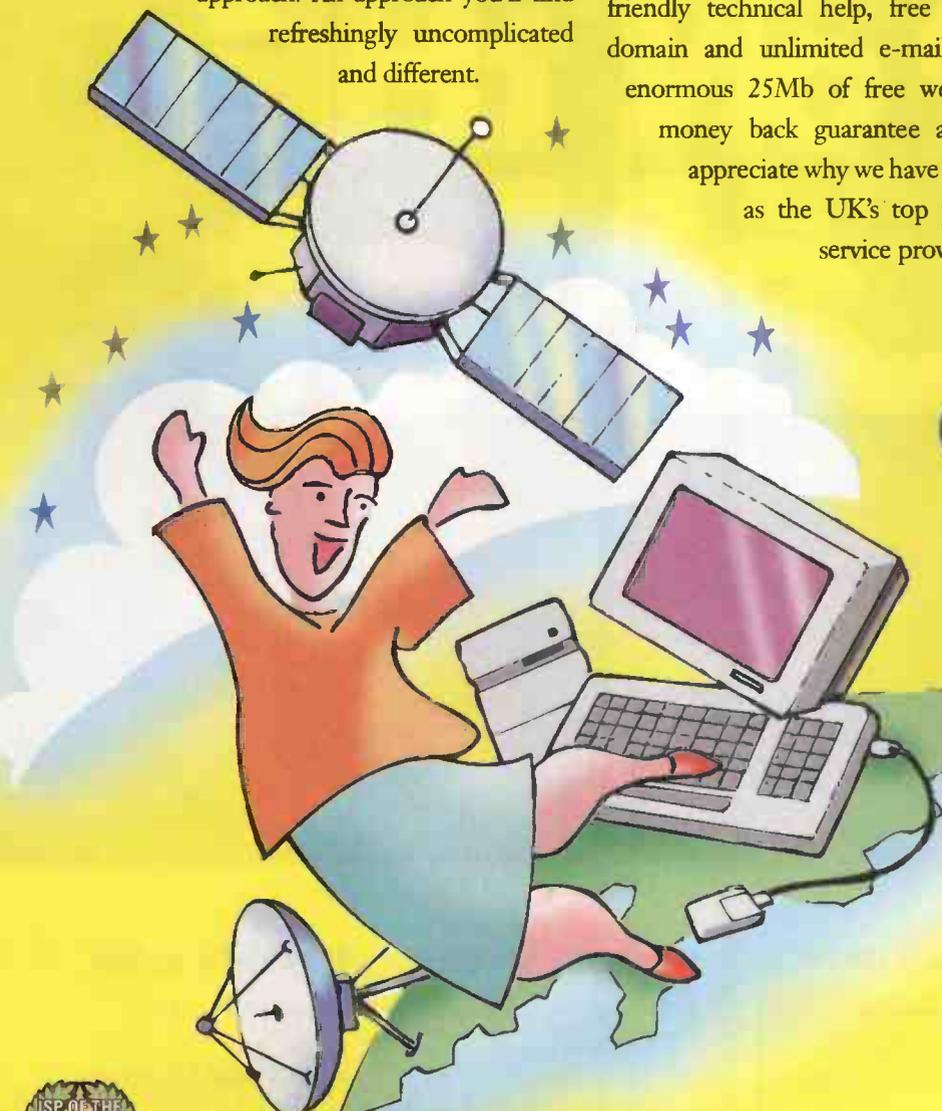
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Phantom phone menace

Tim Nott relates a **creepy connection tale** of the unexpected.

Remember the urban legend of the couple who returned from holiday to find that their flat had been broken into? Curiously, nothing appeared to have been taken. More curiously, the intruder left a quarter-full bottle of his or her own Scotch on their desk. The mystery was only solved when the phone bill arrived and the cost of their burglar's whisky-fuelled chat session was revealed.

These days you don't need a burglar — you can get software to bump up your phone bill without your knowing, as Stephen Blake and many others have found out. Stephen wrote: 'A couple of weeks ago, and for no apparent reason, my computer started to connect automatically to my service provider shortly after booting up. This was just the connection: neither my browser nor email software started. This was irritating but not a major problem, and I've now set my parameters to "always ask before connecting" so I can just hit Cancel.

'A friend of mine recently started having the same problem, but as he has an internal modem, he didn't notice. You can guess what his phone bill looked like. In both cases, I cannot find any way of preventing this automatic connection taking place. So I turned to the Microsoft newsgroups on the internet. Here, I found dozens of desperate souls with the same problem. Obviously we all go on the net, but we all seem to use a

variety of ISPs. So why have our PCs started to do this? Conspiracy theorists could have a field day about which site we may have all visited.'

Similar reports abound — some adding that the 'automatically disconnect if idle...' timeout is disabled, as is the prompt to disconnect when you close the browser. The common factor in all these cases seems to be the G2 RealPlayer. If you download this, or its beta, it likes to 'touch base' at frequent intervals to see if a new version is available. Apparently, nobody at RealNetworks realises that courtesies such as asking before using someone else's phone and hanging up when finished are important, especially in the majority of countries where one pays for local calls.

If you're a victim of this, there are three things you can do. First, you can remove the icon from the System Tray, from RealPlayer's Options, General, 'Allow SmartStart to run in the System Tray'. Second, you can disable the upgrade checking for a period of 30 days at a time, from the Options,



Upgrade menu. The third drastic solution is, of course, to uninstall the RealPlayer software.

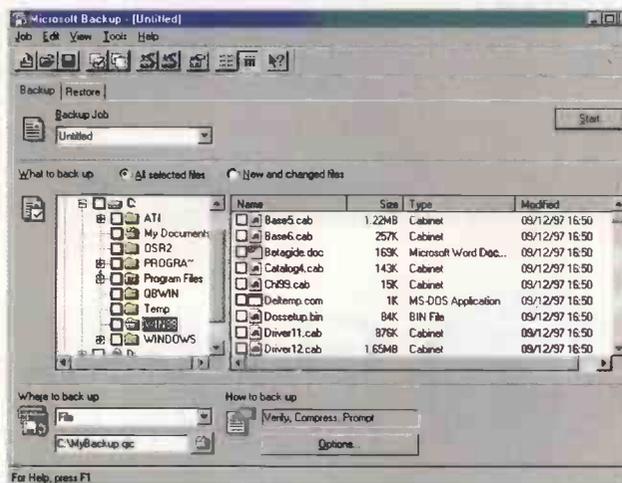
Here's some better news.

In January's column I aired Robert Trzebiatowski's problem in that the scroll arrows you get in Windows 98 (or Windows 95+IE4) when a Start Menu level is too tall to fit the screen, won't go away when the number of items are reduced, and end up obscuring the entries. Robert now writes to say that updating his version of Internet Explorer has solved the problem.

Egg, meet face

In December 1998's PCW I stated that it's impossible to restore Windows 95 backups in Windows 98. Not so, says Michael Kenward: 'You just have to go about it in the right way — difficult, I know, given the awful interface of the new version. Start 98 Backup. Go to the Restore tab. Find the .QIC file from 95 Backup, open it and away you go.'

More egg (I'm going to need a bigger face, soon) from Nicholas Ward, who states that I'm mistaken in saying you can only open one picture per instance of Internet Explorer. 'If you use the option to open all windows in one browser, it will open all the images selected in the one browser and you simply click on the Back button to scroll through them.'



IT IS DIFFICULT, BUT NOT IMPOSSIBLE, TO RESTORE WINDOWS 95 BACKUPS IN WINDOWS 98

CRYSTAL CLEAR

Several readers have asked me how they, too, can achieve the 'transparent windows' effect seen in Chris Bidmead's column in December 1998's *PCW* (p273). I had no answer, apart from relinquishing Windows in favour of Unix. But reader Paul Bunyan pointed me at Litestep, the strangest thing I've seen for Windows in some time.

It's a PC version of Afterstep, which itself is a window manager for Unix. It's the brainchild of Francis Gastellu and has attracted a large cult following. If you feel the opportunities for customising Windows are too limited, this could be for you, as it's a complete replacement for the Windows shell. Yes, that screenshot [Fig 1] really is my Windows 98 desktop. The toolbar thingy at the right is the Wharf, which can be used to launch programs, open files or folders, and host applets such as a clock, a system monitor and a virtual screen manager that gives you multiple desktops. More esoteric Wharf applets include a variety of CD controllers and (no kidding) a CPU thermometer.

The Start menu is replaced by a cascading right-click menu (seen here above the Word window), and shortcuts on the desktop can use any bitmaps. The examples shown on the left of the screen are bitmaps of text that 'light up' when the mouse pointer crosses them. Note that although the wharf tiles and shortcut bitmaps can have transparent portions,

windows themselves can't, and the seemingly transparent backgrounds to the text shortcuts are actually part of the wallpaper.

However, Litestep isn't for softies. Ideally, you need to be of that rare breed — a programming geek with artistic talents. Even using the ready-made 'themes' (my desktop is a slightly modified version of Psoriac's SpaceStep) you'll find you have to do a lot of configuration editing and file shuffling [Fig 2]. It's also prone to falling over, leaving you in the interesting position of being in Windows with no shell, and there are various other little surprises, such as an apparent loss of the Find File command.

Litestep is free, and is released under the GNU General Public Licence. You are not only free to use the



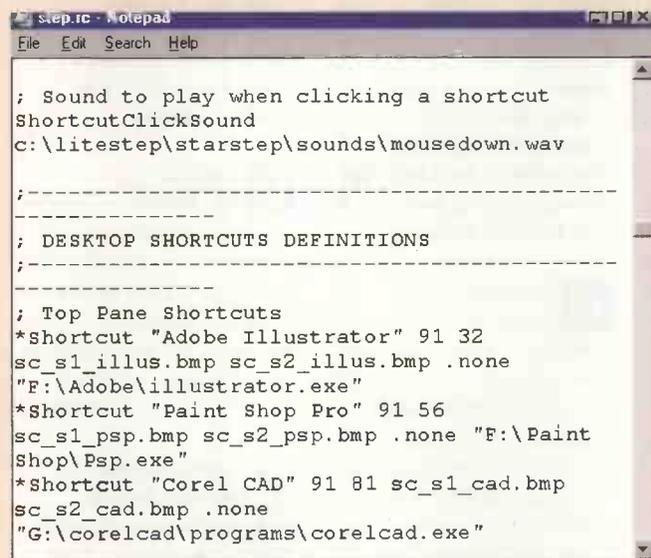
▲ FIG 1 IT'S WINDOWS, JIM, BUT NOT AS WE KNOW IT

program, but free — indeed, expected — to download and modify the source code and generally do whatever you like. Which will probably come as something of a shock to devout Windows users, conditioned as we are to monopolistic marketing practices. Despite the complexity, one very good point is that Litestep does not burrow deep into the Registry or the Windows and System folders. The sole point of contact is via the SHELL=entry in SYSTEM.INI. If this is edited to point back at

EXPLORER.EXE, then normal service will be resumed. Determined meddlers would do well to have a boot disk with a copy of EDIT.COM about their person before diving into the wonderful world of Litestep. The shell itself, and many sample themes, can be downloaded from www.litestep.net

← **Paul also answered** a FAQ about graduated title bars, mentioned in November's column. If you're running Windows 95 and yearn for the shaded title bars and animated

menus that 98 users have, you might like to try Win98fx. It's on this month's CD-ROM. Do read the Readme.txt file first as this free utility replaces several crucial Windows files which will need to be backed up beforehand.



◀ FIG 2 FORGET ABOUT DRAG-AND-DROP: THESE SHORTCUTS IN LITESTEP ARE NOT FOR SOFTIES



Questions

& answers

Q A friend and I both have Windows 98. I tried to set up multiple user logons for each person to have their own settings. When he logs on, he has a list of all the users to log on as, but when I tried that on my version it wouldn't work — it just gave me the old Windows 95 logon, i.e. Type Username and Password. The weird thing is that my version should be newer than his because my computer is only a week old. Can you help me?

BARA MUSTAFA

a If you go to Control Panel, Network, you'll see a list of 'Installed Components'. If Microsoft Family Logon is not included

Manager files and they're both dated 1992, yet when I try to delete them I cannot do it from Windows as they're "being used". Deleting them from DOS and rebooting brings up an error message while Windows is loading and it simply comes back to the 'Safe to turn off' screen. The only application I can think of that may have used it was an old version of Adobe Photoshop 2.5 from my old machine running Windows 3.1. This didn't work under Windows 95 and so I deleted it.

GEORGE DEETH

a This is a legacy from your Windows 3.1 days. If you open the file SYSTEM.INI, which you'll find in the Windows folder, with Notepad, you'll find, somewhere near the

Could you tell me if it's safe to delete these folders?

DERRICK LEWIS

a It sounds very much as if the Cabs sub-folder contains the Windows installation (.CAB) files: you can verify this by comparing the contents with that of the Windows 98 folder on the CD-ROM. As you have the Windows 98 CD-ROM, you don't need these copies on your hard disk and can safely delete them.

Q Whenever I install new programs on my PC, the name of the store manager and company where I bought my PC come up as defaults in the installation dialogue box that asks for my Username and Company. Could you tell me how I can change these defaults?

DERRICK LEWIS

a You need to change some registry settings, so back this up first. Then run Regedit and go to Regedit and go to HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion. The keys you want are in the right-hand pane. Look for RegisteredOwner and RegisteredOrganisation: you can double-click on either to change it.

Q I still can't get Windows to remember my dial-up networking password, despite following your suggestions in June 1998's PCW and downloading and installing the appropriate upgrades.

CLIVE BRITTEN

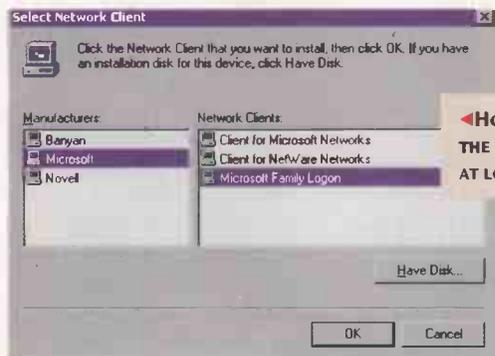
a This can be due to a problem with the encrypted password file that Windows maintains. First, make sure you have a written

record of all the passwords you use. Then delete the file username.pwl. You'll find this in your Windows folder, with username being what Windows knows you by. Next time you enter a password, it should then be remembered.

Q I installed some BT Internet software and it has changed both my desktop and the appearance of Windows Explorer — in my opinion, for the worse. How can I get back to the standard Windows 'look and feel' without uninstalling the software?

JANE TELFORD

a Under the Start menu, Settings item you'll see some new choices. If you click on the Folder Options, you'll

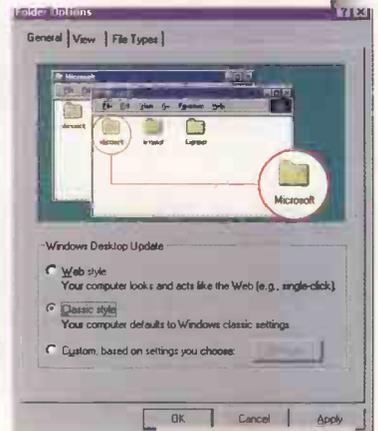


here, then hit the Add button, choose Client and select it. The next step is to make sure this is selected as the 'Primary Network Logon' in the box below.

Q I recently bought a new Epson 640 colour printer to replace my old HP 560c. Now when printing I get an error message saying an illegal operation has taken place in ATMSYS.DRV. I cannot find any application that uses this file or ATM32.DLL, which accompanies it. I know they are Adobe Type

beginning, the line: system.driv=atmsys.driv Change this to: system.driv=system.driv This will stop the Adobe Type Manager loading and you'll be able to delete the files.

Q I've bought an ex-demo PC with Windows 98 pre-installed (I was also given the original CD). I find my Windows folder is 426Mb, with 166Mb in a sub-folder called Options. 165Mb of this is in another sub-folder called Cabs, which in turn has other nested folders.



see three options in the General tab. Choosing Classic style will restore the Windows 95 look we know and love. You may also need to untick View as Web Page from Start, Settings, Active Desktop, and right-click, then Refresh on the Desktop itself.

PCW CONTACTS

Tim Nott can be contacted via the PCW editorial office (address, p10) or email wjn@pcw.co.uk

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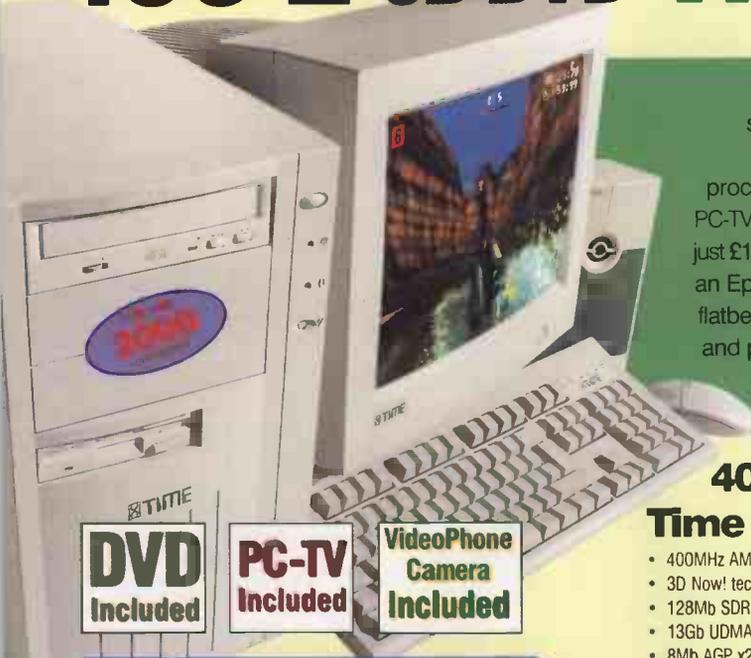


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Double spaced

Roger Gann shows you how to **make the most** of DoubleSpace.

Although FAT32 (and, I guess, dirt-cheap multi-gigabyte hard disks) have put paid to disk compression software, both MS-DOS 6.x and Windows 95 came complete with drive compression software in the shape of DoubleSpace (latterly DriveSpace). It wasn't a total solution, nor as fully featured as its principal rival, Stacker. Some of its shortcomings were relatively easy to overcome, so I've decided to devote this month's column to listing a few DoubleSpace tips, plus a couple of handy floppy-disk related DOS tips prised from the archives.

■ Defragmenting

Microsoft gives you two ways of defragging a DoubleSpaced drive. Neither is quite the same sort of defragging you get with an ordinary defrag on a non-compressed drive. There are two methods: one is to run DBLSPACE/DEFRAGMENT; the other is to run the normal defragmenter,

DEFRAG.EXE. You might think this program would give the best optimisation of DoubleSpace, but you'd be wrong. All it optimises is the contents of the compressed volume file (CVF), not the CVF itself.

Running DBLSPACE/ DEFRAGMENT improves matters slightly. It moves data within the CVF so all the free space is at the end, but it still doesn't defrag the CVF. Files aren't made contiguous, they're placed in one group at the front of the drive, so it doesn't defrag the compressed drive.

Sometimes it's necessary to enter DBLSPACE/DEFRAGMENT /F, as DBLSPACE/DEFRAGMENT fails to make all unused sectors contiguous.

Here's a suggested sequence to properly defrag a DoubleSpaced drive.

- **Run DBLSPACE/DEFRAGMENT** to defragment the CVF.
- **Run DBLSPACE/DEFRAGMENT /F** to move all the sectors to the end of the disk.
- **Run the defragmenter** with the /F

parameter, DEFRAG /F, to move all the data to the end of the CVF and then back to the front.

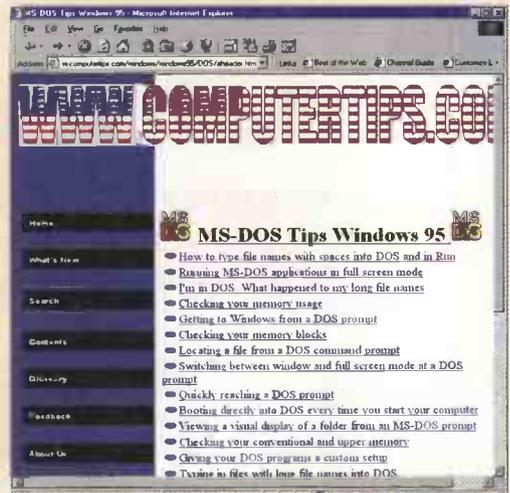
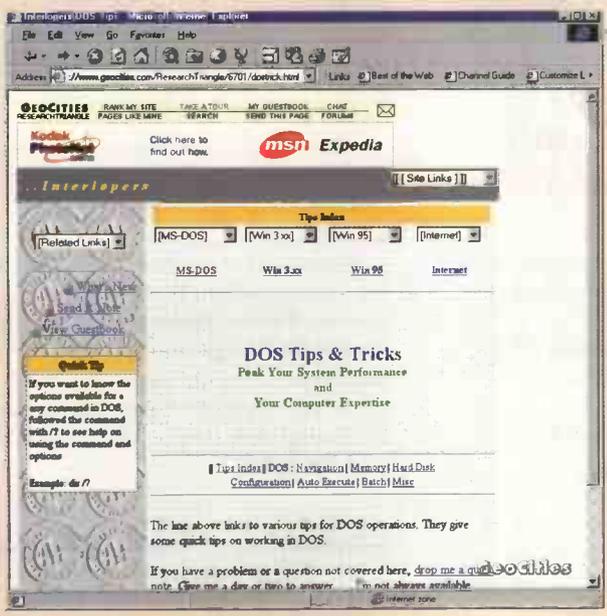
Once both defragmentation types are done, your DoubleSpace drive will be almost fully optimised. Even so, files are contiguous only on the virtual drive (drive C) but not within the CVF. The only way to defrag it "properly" is to buy Norton Utilities.

■ Changing DoubleSpace ratios

Sometimes, DoubleSpace won't let you reduce the compressed drive size nor lower its estimated compression ratio (ECR). Often this is caused by an entry at the very end of the File Allocation Table (FAT). These could be lost allocation units at the end of the compressed drive, heavily fragmented files on it, or, more likely, a file (with Hidden and/or System attributes set) stored at the end.

The first two can be fixed by judicious use of CHKDSK /F and DEFRAG /F /H. Check for the third by using this convoluted DIR command: `dir c /s /as /p <CR>`

DEVOTED TO DOS



Some great DOS tips are yours for the asking. There are plenty of decent web sites devoted to DOS (and other operating systems) hints and tips. There's Interloper's at

www.geocities.com/ResearchTriangle/6701/dostrick.html and www.computertips.com/windows/windows95/DOS/header.htm



HARD DISK HEALTH WARNING

I am indebted to a couple of eagle-eyed readers who have brought to my attention to a potentially dangerous situation that could occur as a result of something I wrote in my January 1999 column. While the instructions I listed hold true for Windows 95 A, they don't for Windows 95 B, aka OSR2 or Windows 98. **It seems that if you were running a FAT32 partition and performed some of the**

hacking I detailed, to install a previous version of MS-DOS 6.2, you could wind up with a severely mangled hard disk. I guess I wasn't thinking straight, as the only caution I raised was that such a hack wouldn't work on 'multi-gigabyte FAT32 partitions' because DOS cannot recognise partitions in excess of 2.1Gb. Of course, it doesn't matter what size the partition is: if you've installed a FAT32 partition, then any

operating system based on FAT16, as MS-DOS is, won't be able to see it. So, if you performed the hackery outlined in that column and attempted to dual boot into MS-DOS, it would result in a one-way trip to a non-booting hard disk. The solution to this problem would be to boot from a FAT32 Windows 98 Startup disk, restoring the correct operating system using the SYS command.

Typically, "rescue" programs such as MIRROR.COM, IMAGE.EXE and UNDELETE.EXE write to the end of the FAT. They store key partition data in a safe place, i.e. at the end of the disk. Hidden data files are left in place so you have to delete them before resizing your DoubleSpace drive. Use the ATTRIB command to alter the files' attributes, like this:

```
attrib -r -s -h -
c:\mirrorsav.fil <CR>
```

If you're using a delete-tracking program, you may need to disable it before doing this. Then run the defragger on the compressed drive:

```
defrag /f /h -
<CR>
```

You should be able to lower the ECR on the DoubleSpace-compressed drive.

Now reset the file attributes you altered:

```
attrib +r +s +h -
:\mirrorsav.fil <CR>
```

■ Selective DoubleSpace drive use

Sometimes you might want to use DoubleSpace-compressed floppy disks without compressing your hard disk, but when you run DBLSPACE the initial setup screen has no option to do this. If you try and mount an already-compressed floppy disk with DBLSPACE /MOUNT

<drive:>, you receive the following message: "There are no more drive letters reserved for DoubleSpace to use. To add more drive letters, choose the Options command from the Tools menu."

The workaround is to create a DBLSPACE.INI file in the root directory of your startup drive, which causes DBLSPACE.BIN to remain in memory after startup.

One way is to create a tiny DoubleSpace drive on your hard disk. Do this by specifying the amount of free space on the host to be a value close to the size of the hard disk. You then use

Some games read directly into video RAM, which isn't guaranteed to be readable

DoubleSpace to delete this new volume: `dblSPACE /delete <drive:> - <CR>`

This can be done manually. First, create a DBLSPACE.INI file with EDIT. It should have just two lines: `MaxRemovableDrives=2` `LastDrive=F`

Then copy DBLSPACE.BIN from your DOS directory to the root directory of your hard drive. You can now use compressed floppy disks. To compress a floppy disk in drive A:, type: `dblSPACE /compress a: <CR>`

To access an existing compressed floppy in drive A:, type: `dblSPACE /mount a: <CR>`

■ Games and DoubleSpace

Some old MS-DOS-based games may not display video output correctly when the DoubleSpace program, DBLSPACE.BIN, is loaded. This is because the DoubleSpace decompression code requires the buffer, into which it's reading, to be readable so it can scan back for expanding repeated strings. Some games read directly into video RAM, which isn't guaranteed to be readable. The only solution is to install your MS-DOS-based games on your uncompressed host drive. Then, when you start MS-DOS, press CTRL+F5 or CTRL+F8 when the "Starting MS-DOS" prompt is displayed, to start your PC without loading DBLSPACE.BIN.

■ Diskette change-line fix

If you have a 3.5in floppy disk drive attached to an XT-class computer such as the Amstrad PC1640, you might have come across this problem. When you change disks and use the DIR command, you may see the directory from the previous disk. This fault manifests itself during a program install, when it infuriatingly prompts you to insert the second disk even though you already have. It occurs because MS-DOS assumes the 3.5in drive has change-line error detection. Most 3.5in drives do provide change-line support: if you remove a disk, this change should be signalled to DOS via the "change line" hardware on the disk drive. However, due to limitations in the ancient XT architecture, the change-line signal is not passed to MS-DOS.

Adding a DRIVPARM command to the CONFIG.SYS file may help. An example, which modifies a 720Kb Drive B, is: `DRIVPARM=/D:1 /F:2`

Note that I've omitted the /C change-line support switch. When MS-DOS updates the drive parameters, it may remove the change-line support requirement. The ultimate solution is to install a floppy-drive controller and BIOS which fully support change-line error detection.

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Remote control

Andrew Ward looks at ways of **administering your server** from a distance.

A common complaint directed at Windows NT is that many of the tasks required for administering a server require that you actually sit at the server itself. Although this is true, there are a surprising number of ways to administer servers remotely. For example, many administrative tools work across the network: amongst others, Windows NT Diagnostics (winmsd), the Performance Monitor and the Event Viewer.

These tools have one thing in common: they don't allow you to do any administration because they're read-only. And, in the Unix world, utilities like

Telnet, rexec and rsh allow you to readily run programs on a remote system, greatly

facilitating remote administration. Clients for these services are available for Windows NT (I think they are all shipped as standard) but out-of-the box there are no corresponding services.

To solve this problem, there are many utilities provided with the Windows NT 4.0 Server Resource Kit. Since there are so many of these, it is worth looking at the capabilities and limitations of each before we look at the most interesting technique.

Command performance

RCMD, the Remote Command service, is provided with the server version of the resource kit and provides a secure, robust way to remotely administer and run command-line programs. You'll need to install the server component, RCMD SVC.EXE, as in Fig 1. If you configure it to autostart, the service will

be running whenever the system starts up, whether or not a user is logged on locally.

To open a remote session from a workstation, type RCMD, then the server name at the prompt, or put the server name on the command line, as follows:
`r cmd \\VEGAS`

You can also use RCMD to execute a single command by appending it to the command line, as follows:
`r cmd \\VEGAS net stop rsh`

You can connect up to ten clients to the remote command service on a server, and each one will operate independently of the others.

Security works in the following way.

The logged-on user must have interactive log-on privileges, which you have by default, on the target computer

in order to connect to it. Any programs executed on the target computer are executed as if you were logged on to the local computer itself.

The only programs which will work with RCMD are those which use STDIN, STDOUT and STDERR for input and output. This is an interesting way of discovering horrible inconsistencies with Windows NT. For example, TLIST /? will not work with RCMD although other TLIST operations do, yet NBTSTAT /? works fine. Those programs which use the Win32 Console API and MS-DOS programs will not work.

REMOTE is intended for running specific programs on a remote computer. It requires you to set up a session on the remote system for the particular command line you want to run. You can then initiate it from the client. As this involves setting up each session from the remote system, it's useless for remote administration. It is primarily intended for things like running a compiler on a remote machine to avoid loading your own processor while you get on with something else.

Starting a session

To start a session on the remote system, type the code shown in Fig 2. In this example, I've used cmd.exe as the command that will be run purely for demonstration purposes. Of course, if you do execute cmd.exe, it allows remote administration because you end up with a command window. To connect to a remote session, type:

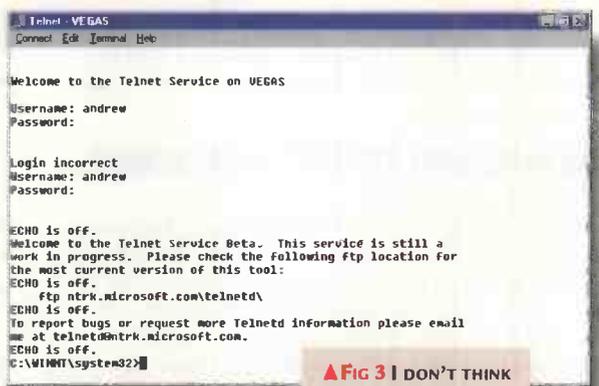
```
remote /C VEGAS sessionname
```

REMOTE offers no security, so starting the REMOTE server leaves the system open to anyone with a remote

There are a surprising number of ways to administer remotely

[FIG 1]
 Installing the server component:
`instsrv rcmd "c:\program files\reskit\rcmdsvc.exe"`

[FIG 2]
 To start a session, type:
`remote /S "c:\winnt\system32\cmd.exe" sessionname`



▲ FIG 3 | DON'T THINK USING MICROSOFT'S TELNET DAEMON BETA COULD BE CLASSIFIED AS A RICH USER-EXPERIENCE

client who knows the session name. Like RCMD, REMOTE can only be used with command-line applications.

Telnet like it is

The point about the Telnet Server Beta provided with the resource kit is that it allows remote administration of a Windows NT system from other



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—Microsoft Windows NT Server Resource Guide*

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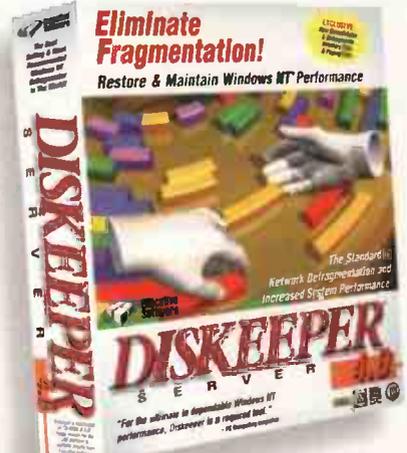
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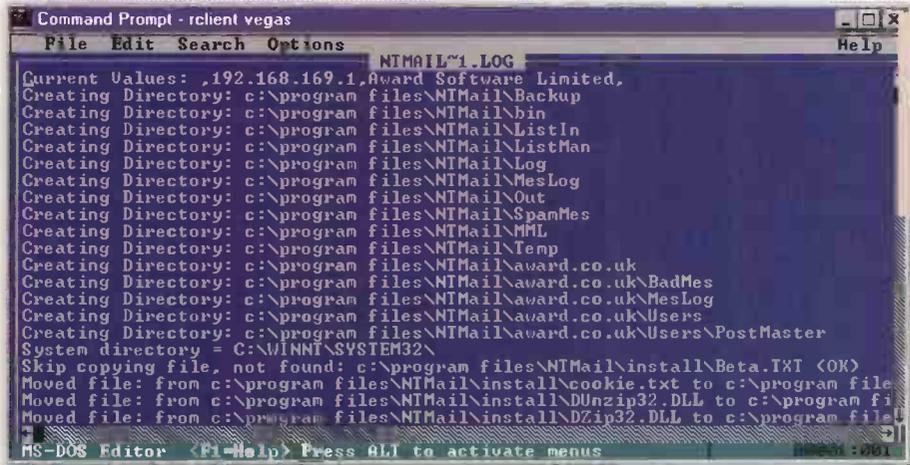


FIG 4 YOU CAN EVEN RUN DOS PROGRAMS THAT CARRY OUT DIRECT SCREEN WRITES WITH THE REMOTE CONSOLE

with a Data Encryption Standard (DES) algorithm if both client and server are running Windows NT 4.0.

- Because video memory changes can involve large amounts of data, rclient features an option to automatically tune the data rate to the speed of the link, say if you're connecting via RAS.

- Another security feature is that only members of the 'Administrators' group can connect to the remote console server by default. But under NT 4.0, a new group called RConsole Users is created, and you can modify its members. Administrators can always connect, regardless of how you set up this group.

Shelling out

A remote shell service, the server side of the TCP/IP utility RSH.EXE, is provided with the NT Server Resource Kit. To

install the service, use the command shown in Fig 5 or as appropriate for your system. Then, start

the service with this command:

```
net start rshsvc
```

Like Telnet, this allows access to a Windows NT server from a variety of different platforms, since RSH exists for nearly all major operating systems.

platforms such as Unix. Unfortunately, the beta is flaky [Fig 3, p233]. If you really want to run it, you must first install the Remote Session Manager: run the Network Control Panel, select Services, click on Add and then Have Disk, and specify c:\program files\resource kit\telnetd (or wherever you've put it); select Remote Session Manager from the list. You also need to install the Telnet service (TELNETD.EXE) in the same way.

Telnet is restricted to running command-line utilities, scripts and batch files that use STDIN, STDOUT and STDERR, but the only sure way to determine whether an application can be successfully run in a Telnet session is to try it. It is possible to run some graphical programs using Telnet; a surprise for any local computer on the server, as that is where they would pop up.

Console service

The Remote Console (Rconsole) RCLIENT application [Fig 4] works much like the others, by running a CMD session on the remote system, but the server notifies the client of changes to the video memory within the console session rather than redirecting standard output. This won't run graphical programs but it will work with command-line programs which use video memory, such as Edit.

Here's how you install the remote console service on a server. Go to the Network Control Panel and select the Services tab. Click on Add, Have Disk and specify C:\NTRESKIT\RCONSOLE

if that's where you've put it. Select Remote Console Server and click OK. To run the client, type rclient and the server name: rclient \\\VEGAS

Security matters

Security receives a bit of attention with the remote console. There's a client-side

FIG 6
Control security with this:
c:\winnt\system32\drivers\etc\rhosts

command-line option to encrypt all data sent, but this only works if both ends are running Windows NT 4.0. Apart from that, the remote console client does work on other versions of Windows NT. Note that this /encrypt is not supported on the French version of Remote Console (yes, really).

- A restriction of other remote command-line utilities is the inability to make network connections. With the remote console, a client-side command-line option /logon allows you to specify that the CMD.EXE process executed on the server has a logon ID and can make network connections.

This /logon option encrypts the password sent over the network

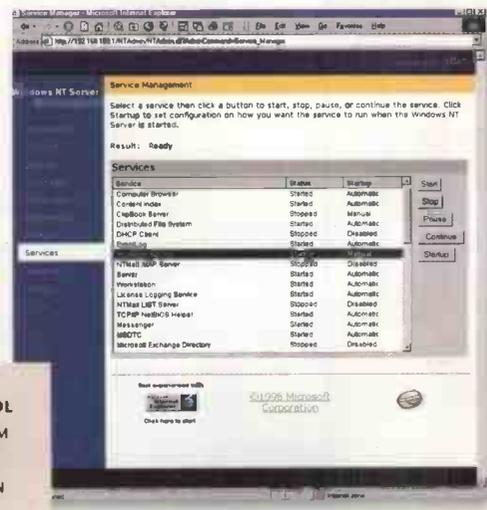


FIG 7 THE COOL WAY TO PERFORM REMOTE SERVER ADMINISTRATION

FIG 5
Install a remote shell service with:
rshsetup "c:\program files\reskit\rshsvc.exe" "c:\program files\reskit\rshsvc.dll"



Security is controlled by setting up the file shown in Fig 6 (p235). Be sure to note the full-stop preceding the filename. The .rhosts file has a list of machine names followed by users from that machine who are authorised to use rsh. Rsh is not intended for use with interactive commands, and can't be used to initiate an interactive session using cmd.exe.

Web Administration

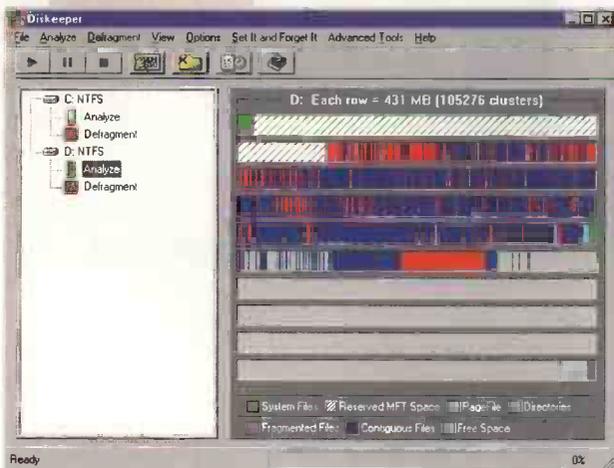
All the command-line utilities allow you to perform remote administration, but there's a learning curve involved. You have to learn what commands to type in, to perform administrative tasks. If I were paying a network administrator, I'd rather their time were spent on more productive tasks than having to memorise lists of commands. With Web Administration [Fig 7, p235], a free download from Microsoft's web site, you get an interactive graphical administrative interface that looks much like the standard control panel applets.

Before you can implement Web Administration, you need IIS 4.0 installed on the server although the minimum installation will do. (Remember to re-install your latest service pack after installing IIS 4.0 or other components from the option pack.)

To find Web Administration for Windows NT Server, go to www.microsoft.com/NTServer and select Downloads. Choose to download 'Web Administrator 2.0 for Microsoft Windows NT Server 4.0'. Once installed on the server, something that Web

Administration will do for you is install the Remote Console client software.

▼ Fig 8
DISKEEPER 4.0
WILL DEFRAGMENT
WINDOWS NT
PAGING FILES



Defrag time

Executive Software continues to find ways of improving its Diskkeeper product for NT defragmentation [Fig 8]. The latest release, version 4.0, will defragment the NT paging file (version 3.0 introduced the ability to defrag and consolidate directories). If you have a maintenance contract, you're entitled to a free upgrade to Diskkeeper

SERVER OR DOMAIN CONTROLLER?

Reader John Gresham has installed NT Server 4.0 to replace Windows 95 on a server and is naturally delighted the system is now 'working perfectly, very reliable, and no longer crashes daily as it did under Windows 95'. Yet he raises the question of whether he should have installed NT as a Primary Domain Controller (PDC) or a Standalone Server. The client systems are Windows 95 and he's installed Windows NT as a Standalone Server; hence the network is operating as a workgroup rather than a domain.

John is correct in assuming a fresh install

of NT would be necessary to change the status from server to PDC, but is this necessary? Well, in his environment there's very little to choose between them, so John may as well stay with the current configuration. If the clients were NT, then a PDC would be more convenient than a server, simply in order to save having to maintain user accounts in both the workstations and the server. But this argument assumes a static environment. If the network were to become a critical computing resource, the server would need a backup, and one way to administer this

arrangement would be via a PDC and a BDC (backup domain controller). Similarly, if the number of users were to increase substantially, additional servers may be necessary to handle the logon requests. You might also want to allow some granularity in granting administrative rights over departmental resources.

With Windows NT 4.0, this can be accomplished by implementing multiple domains with the appropriate trust relationships. If the workstations were to be changed to Windows NT, implementing a domain would simplify administration.

To use it, navigate to ntadmin on your server from within Internet Explorer: <http://VEGAS/ntadmin>.

This raises the question of why you wanted to administer the system remotely in the first place. The most common reason is because the Internet Information Server has stopped or crashed and in these circumstances Web Administration clearly isn't going to be much use.

4.0 and by now you should have automatically received the new software. If you purchased Diskeeper for NT 3.0 after 1st September 1998 you're also entitled to a free upgrade to the new version, available from your reseller.

Diskeeper Lite, a cut-down version, is available as a free download. You can download the full product but it will expire 30 days after you have installed it. Expect to pay around £41 for a single-user copy of Diskeeper version 4.0 for Windows NT Workstation, or £213 for the Server version. To download Diskeeper Lite or a trial version of Diskeeper, visit www.execsoft.co.uk.

PerfectDisk is a better defrag tool for relatively stable systems, but on a system like my own, with frequent installation and removal of applications, upgrades, service releases, service packs and patches, Diskeeper is a much better bet.

PCW CONTACTS

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TAKE CONTROL

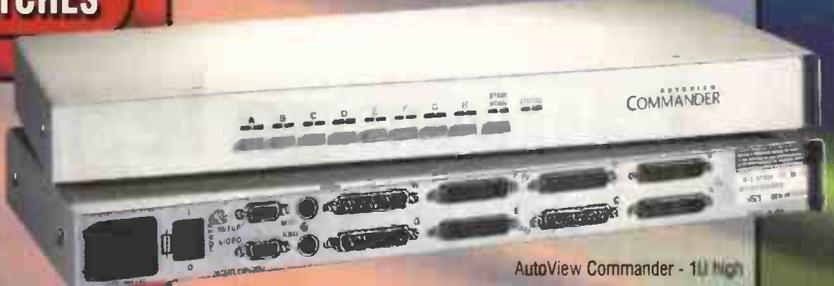
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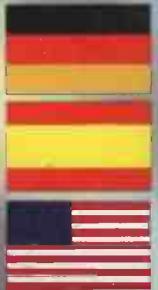
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Language lesson

Easier than you think: Mark Whitehorn shows you how to program your Psion.

OPL is the built-in programming language for the Psion. It has been there from the first Series 3 and is on the Series 5. I have received multiple requests for help with getting started using OPL, including this one from reader, Jamie Ingilby <jwfingilby@hotmail.com>

'I have a friend with a Siena who is drastically puzzled by OPL programming even though we are both very at ease with other languages. My friend is not prepared to buy a big book and is wondering if there are any other ways of approaching OPL, or even whether you could get him started?'

So, if existing programmers want to learn OPL, is there any point in non-programmers giving it a go? Yes — it's fun! Programming is the biggest and cheapest game you can play on a computer. Most games are about overcoming

Programming is the biggest and cheapest game you can play

hurdles, repeating a move until you get it cracked: programming's like that. If it works first time, it's no fun; the thrill comes from beating the bugs. The only problem is that getting started can be difficult, hence this introduction which comes with a couple of warnings. One is a health warning — programming is highly addictive. The other is that this OPL series is an introduction so

CALENDAR CONUNDRUM

Reader Peter Sheldrake <PeteShel@mcomail.co> has a problem with dates. He writes: 'I recently purchased an Ericsson MC12 which I upgraded to CE2. I'd like you to test and comment on what follows. I know this occurs on MC16s and HP360s but I don't know about other machines: Go into

Calendar and then to April 1999. Enter a full-day event for Monday 5th and exit Calendar. Next go into Month at a Glance, go to April and check your entry: if it is listed for Monday, OK; if it is Sunday, then you have the same problem as me. Also, the data transferred to Microsoft Schedule is similarly incorrect. Ericsson has checked and admitted

that it gets the same problem.' This is an interesting one. I tried this on my trusty HP620 LX and it didn't display the fault described.

• If readers want to try this on their machines and let me know, I'll compile a list of affected machines and we can try to work out whether it is machine-specific or CE version-specific.

you will not, by the end of it, be writing Tomb Raider 98 for the Psion although you will be writing words to the screen, making the Psion play crude tunes and maybe writing simple text-style games.

But then, that's where everyone starts — even those who write flight-simulator programs. I'm going to assume you are using a Psion 5 but if you have one of the 3 series, including the new MX, the steps will be much the same, so I'll throw in Psion 3-specific information where appropriate.

1 From the Extras menu select Program (which has an icon, OPL) and a fairly blank screen appears [Fig 1]. On a Psion 3, select the OPL icon from the System menu.

2 You are looking at the bare bones of what is known as a procedure — hence the word 'PROC'. Large programs can be split into multiple procedures, a process that makes maintenance easier. Small programs don't have to be subdivided in this way so they usually consist of a single procedure, as will be the case for our program.

3 Every procedure has to be named, so call this 'Penguin' or whatever

you fancy. Do this by adding a name after the word PROC and before the colon that should appear at the end of the first line. Your

▶ FIG 1 THE OPENING SCREEN FOR OPL PROGRAMMING
▼ FIG 2 THE COMPLETED PROGRAM

```
PROC Penguin:
AT 5,5
▶ PRINT "Hello World"
PAUSE 40
ENDP
```

```
PROC :
ENDP
```



program should look like this:
PROC Penguin :
ENDP
The colon at the end of the first line is

important, as the program will not run without it. These two lines define the start and end of the procedure and the program will then be contained between the lines.

4 It is traditional for the first program you write to be one that puts the words 'Hello World' on the screen. Failure to obey this tradition will have absolutely no effect at all. Your life won't be blighted and your teeth won't fall out. But why not do it anyway? Add this:

```
PRINT "Hello World"
```

into the space between the two existing lines. Congratulations! You have completed your first computer program on a Psion. All you need to do is translate it (see 'What is OPL?', right) and then you can run it. Press the Tran button, which should be visible on the right of the screen, or press Ctrl-L. On the 3 series, select Prog, Translate from the menu system or use Psion T.

5 If you have made any mistake at all in the program (perhaps leaving out the first ") then your Psion will lock up completely and have to be returned to Psion for a new motherboard... OK, that's a lie, but I bet it bumped up your adrenaline level fractionally!

Programmers make mistakes all the time without doing any damage. All that will happen is you will be told there is a 'syntax error' and the cursor will move to the approximate area where the problem lies, so you can fix it.

Once the program contains no syntax errors, the Psion will be able to translate it and will then ask if you want to run it. Answer 'Yes', and it will run. You will have to watch carefully though, as the words appear only briefly on the screen. No problem. We simply need to ensure that the program pauses for longer so we can read the magic words. Modify the program as follows:

```
PROC Penguin :
    PRINT "Hello World"
    PAUSE 40
ENDP
```

If you run this program (Ctrl-L followed by 'Yes') the words will remain on screen for about two seconds because the numbers after the word PAUSE tell the Psion how many twentieths of a second the pause should last.

6 Putting values after commands is a common way of modifying their behaviour. For example, you will

WHAT IS OPL ?

OPL stands for Organiser Programming Language – the Organiser was the progenitor of the Series 3, 3a, and so on. It is a derivative of the BASIC language and both use a restricted subset of the English language. OPL consists of 'commands', such as PRINT and AT, and each has a specific meaning. For example,

PRINT means 'write the following words to the screen'. OPL is derived from English so humans can understand it, but sadly the Psion processor speaks machine code, which is a more terse language consisting entirely of binary numbers. The good news is that the Psion can translate your OPL program into a form the processor can

use. So, after you have written your program, you will have to translate it before you can try running it. The majority of shareware programs for the Psion are written in other languages, such as C, which can do this translation step more efficiently, but OPL is a great place to start programming, to see if you like it.

AN EASY WAY INTO OPL

For those readers who would like a gentle introduction to OPL programming, here is a helpful pointer from a reader. 'I saw the item about someone wanting a dummy's guide to OPL programming. Well,

here it is. The address is <http://members.xoom.com/wireplay/opl.html>. I hope people like it.'

SPANGLE

ANGO@MELLOWPARENTING.DEMON.CO.UK

The web site 404'd on me when I tried it, but

it may nevertheless be worth giving it a go.

- A decidedly less volatile source of information is the PsiWin CD-ROM, which has an OPL manual in both HTML and Word Doc format.

A WEB SITE FOR DOSSERS

Readers Mark Gardiner, at 100550.3170@compuserve.com, writes: "I know that the tide of WinCE is now overwhelming, but many original DOS palmtop users still remain faithful to their HP LXs and, like me, to their Sharp PC3000s. I have spent a great deal of time developing the functionality of my Sharp PC3100 and have published all my positive

findings and successes on my web page at www.geocities.com/SouthBeach/Strand/3387/home.html. I believe this information may be useful to many potential PDA or palmtop owners who perhaps cannot afford the current WinCE prices but could easily pick up an earlier DOS machine cheaply and equip it to be a productive mobile tool. I get a lot of response

from students in particular and am able to help them get started."

I am not convinced that domination by WinCE is inevitable. Psion is looking powerful at the moment, but whichever 'wins', DOS machines will be around for a long time to come. As an ex-DOSser myself, I recommend Mark's site to anyone who is still using a DOS-based PDA.



TIPS AND TRICKS

➔ **Cheap Psion-PC cables** was a subject I covered in the December column. Reader Alan Young <alanyoung@usa.net> writes: 'I caught the tail end of the "Psion Sense" item where you stated: 'you have to shell out for PsiWin if you want the connector cable"... Well, actually, no (puts on anorak and adopts smug expression). You can find all the details for making a cable and of a supplier for the special connector at www.sp.phy.cam.ac.uk/~jrb25/psicable.html. I didn't put it there, but I did use it to make a cable — and it works. It isn't cheap, but it costs less than PsiWin and is more satisfying than giving money to Psion for a product you don't really want.'

Thanks, Alan. That page is run by Justin Buckland who works at the Cavendish Laboratory at Cambridge.

➔ **Changing fonts on the Psion.**

Reader Andrew Bovett <a_bovett@csi.com> advises: 'In your December column you printed a GeoFox tip for changing the default font and commented that you had a problem doing it on a Series 5 because drive Z is read only. Here is how you do it.'

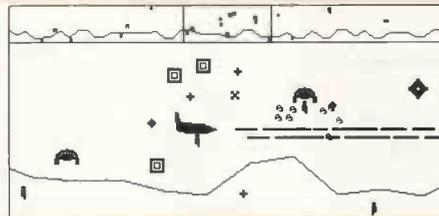
- Go to Z:\system\apps\word. You will find a word document called "Normal".
- Copy it to C:\system\apps\word.



have noticed that the words 'Hello World' appear at the top left-hand corner of the screen. The AT command modifies this position, so the program shown in Fig 2 will move them down and to the right.

➔ **FIG 4 REMEMBER, REMEMBER, THE WONDERFUL DEFENDER...**
 ▼ **FIG 5 ...AVAILABLE FOR THE SIENA, AS WELL**

Mark Wheador's Defender



Defender is also Defender, but this time for the Psion Siena, and it fits really nicely on the Siena's smaller screen. Siender has been received extremely enthusiastically — 1100 stars (grin) — but for a more in-depth review, why not read what Steve Lanchford thinks of Siender, we check out Steve Brown's review. Siender is free to try out, so why not download the zip file from here.

Then open the copy you have just created and use the Style Gallery to change the font assigned to the "Normal" style.

- Now exit the file. The next time you create a new Word document, this file will override the file on Z (due to the search order, Z is searched last) and you will have a new default font.

Other preferences can be altered in the same way.
 Nice one, Andrew.

▼ **FIG 3 PDA CENTRAL — PILOT, NEWTON, CE AND PSION ARE ALL REPRESENTED**

➔ **'PDA users may like to know that HENSA, the Higher Education National Software Archive, holds a current mirror of the software site PDACentral,'** writes Sally Hadland <s.hadland@lancaster.ac.uk>.

'We're currently the only official mirror of this site in the UK. It contains various shareware and public domain software for the Psion (Siena, 3 and 5), PalmPilot, Apple Newton and Windows CE. Each software item has a description and a rating to help users with their selection of software. As the site is UK-based, download times are significantly faster. The address is <http://hensa.pdacentral.com/>'

If this column had a star letter award, Sally's email would receive one. This site [Fig 3] is fantastic for UK users. Not only does it have a huge number of free and shareware programs (a tiny sample is on our PCW CD-ROM) but it also has links to other sites. For example, at Mark Wheador's site <www.cs.ukc.ac.uk/people/staff/mcw/php/shareware.html> I found Defender for the Psion! Yes, that beloved chestnut from the BBC is alive and well on the Psion [Fig 4] and Mark's zipped file is on our cover CD for your pleasure. He even does a version for the Siena [Fig 5].

➔ **Homework**

Your homework this month is to find out the following:

- Does the first number move it down or to the right?
- What values do you need to put the words in the centre of the screen?

PCW CONTACTS

Mark Whitehorn welcomes your feedback on the PDA's column. He can be contacted via the PCW editorial office (address, page 10) or you can email him at pda@pcw.co.uk



Back in the old routine

Chris Bidmead knocks the **cron daemon** into shape for more efficient system backup.

I don't write nearly enough about backup in this column. You can't get enough of the stuff. But having said that, I confess I haven't exactly been methodical about backing up my own system here. I do it when I feel like it — which is quite often. But it should really be a job for the cron daemon. It takes a little organising, but I'm beginning to get into shape.

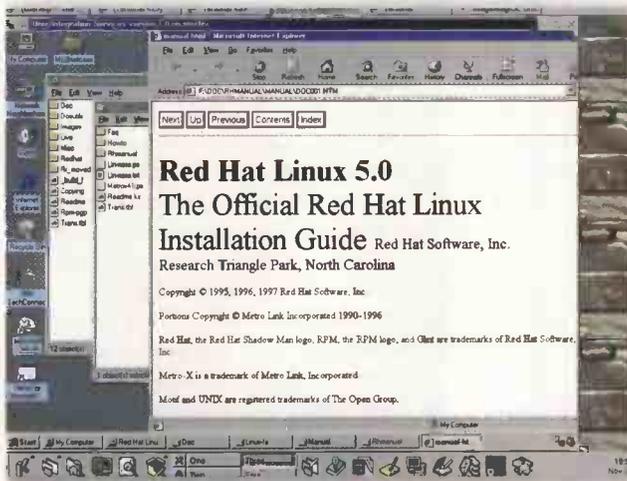
Actually, the way I'm going about things isn't too silly. I strongly believe in running routines manually first, until you understand them and have checked they're doing what you intend. Then you can encapsulate them into scripts. Yes, you can write scripts straight away if you're really sure of what you're doing, but I'm not in that position. So I'm still currently doing manual primary backups of the whole system, or at least those parts of it that I can't recover from CDs. However, I've started automating the incremental backup — the files that are changed or added between each primary backup. To do this I've adapted a script that comes with the GNU tar distribution.

Fig 1 is my version, called `incr`.

The tar part of this script is actually a single line — note the use of the backslash to lay it out in an easy-to-read way. You'll see how the script uses the `$then` and `$now` local variables to write a Volume label (the `-V` switch) to identify the session. My `tapelist` script [see p243] can

[FIG 1]

```
#!/bin/bash
# (based on Dump thingie from tar.info)
# CHB 21 Nov 98
# assumes date.last.backup contains the date
# of the last backup (but you guessed that).
#
# set up environmental variable TAPE
# (which mt and tar take as their default)
TAPE=/dev/nst0 ; export TAPE
# Yes, you have to be specific about this if
# cron is going to be running this, 'cos cron runs
# in its own environment.
# set up some local variables
statefile=/var/state/date.last.backup
now=`date`
then=`cat $statefile`
# find the end of data on the tape
mt eod
# create, incrementally, preserve permissions, -
# be verbose
tar -c -G -p -v\
-N "$then"\
-V "Incr: $then to $now"\
/home/bidmead\
/mnt/james_ii/update\
/mnt/james_ii/bidsown\
/mnt/james_ii/to_be_in\
/mnt/abbott/wells_d/accounts
# update the state file
mv $statefile $statefile.old
echo $now > $statefile
```



Drop of the hat

A BIT OF A TEASE, THIS PICTURE. READER ANDREW SARGENT <ANDREWSARGENT@HOTMAIL.COM> WROTE TO SAY HE CAN'T READ THE RED HAT DOCUMENTATION FROM WINDOWS 95. SURE, SOME OF IT IS GZIPPED, BUT THERE ARE VERSIONS OF GZIP FOR WINDOWS. AND MANY OF THE DOCS ARE HTML, WHICH, AS YOU CAN SEE, MICROSOFT EXPLORER RUNNING ON WINDOWS NT ON MY SIEMENS-NIXDORF PRIMERGY SERVER READS JUST FINE. THE EAGLE-EYED AMONG YOU WILL HAVE SPOTTED THAT THE WINDOWS NT 4.0 DESKTOP SEEMS TO BE RUNNING UNDER KDE. IT IS. THE WORKSTATION HERE IS THE DELL POWEREDGE WITH ITS NEWLY INSTALLED S.U.S.E 5.3, AND THE WINDOWS NT DESKTOP APPEARS THERE COURTESY OF CITRIX METAFRAME.



read these labels and their associated block numbers, so I can subsequently use `mt seek <blocknumber>` to wind to any particular session. The GNU version of this script saves the date information in a file that's in the same directory as the script. Messing around with Caldera OpenLinux I discovered a world-writeable directory called `/var/state` in which this kind of information can be stored. This doesn't seem to be a standard — my Red Hat installation doesn't have it — but it seems to me like a good idea, and something like this is worth setting up in whatever version of Unix you may be using.

Before installing it in the cron system, I tested the script by running it manually. You'll see that its first move is to wind the

[FIG 2]

```
#!/bin/bash
# wind through the tape stopping at each
# filemark
# to examine the next block, hopefully an
# archive
# label or a meaningful initial tarball entry

TAPE=/dev/nst0 ; export TAPE
INPUT=$TAPE
EOD="<<eod>>"
BLOCK='mt tell | cut -f 3 -d " "'
DATA='dd if=$INPUT count=1 2> /dev/null'

mt rewind

printf "`eval $BLOCK`\t`eval $DATA`\n"
while mt fsf 2> /dev/null ; do
printf "`eval $BLOCK`\t`eval $DATA`\n"
done

printf "${EOD}\n"
mt rewind
```

tape to the end of data (`mt eod`). This enables me to store multiple backup sessions on a single tape — handy, because my Hewlett-Packard SureStore DAT24 can put 24Gb on a DDS-3 tape.

Once sure this was all working correctly, I was ready to move the script into the `/etc/cron.d/Daily` directory. Not all Unix systems have this facility set up, although it's easy enough to organise. If yours doesn't have something like this, you'll need to add an entry for `incr` into `/etc/crontab`, the system cron file.

My Caldera OpenLinux `/etc/crontab` has an entry that looks like this (read as one line):

```
05 5 * * * root
```

```
[ -x /usr/sbin/cronloop ]
&& /usr/sbin/cronloop Daily
```

This means that at five minutes past five every day (the first * in the line) cron will run `/usr/sbin/cronloop` with the parameter 'Daily'. (For Linux users, man 5 crontab will explain how crontabs work.) On my OpenLinux system `/usr/sbin/cronloop` is a script that looks in the directory (under `/etc/cron.d`) named in the parameter and runs any executable files it finds there. I've put my own note in this directory to remind me of what's going on. (I find it very useful to leave README's around the place to help me remember how I've set things up or changed them. Some of you may alternatively be using a central logging system for this: if this works for you, tell me how you do it.)

The executables in this directory are run daily due to an entry in `/etc/crontab` which runs `/usr/sbin/cronloop`, a script. Cron won't mess with this README file because `/usr/sbin/cronloop` only acts on executables. The basic idea seems to be to put only symlinks in this directory. They have funny names beginning with numbers, presumably so they sort into a predictable order, and are run in that order. I've added (so far) 10tapelist and 12incr, both links to scripts of mine in `/usr/local/bin` (`/usr/local/sbin` might have been more appropriate). This will

SIR CLIVE AS THE FATHER OF LINUX

Scratching around the internet archives, I found several references to the computer on which Linus Torvalds got his early programming experience. It was a Sinclair QL, the 'Quantum Leap' machine that Sir Clive Sinclair [pictured, right]



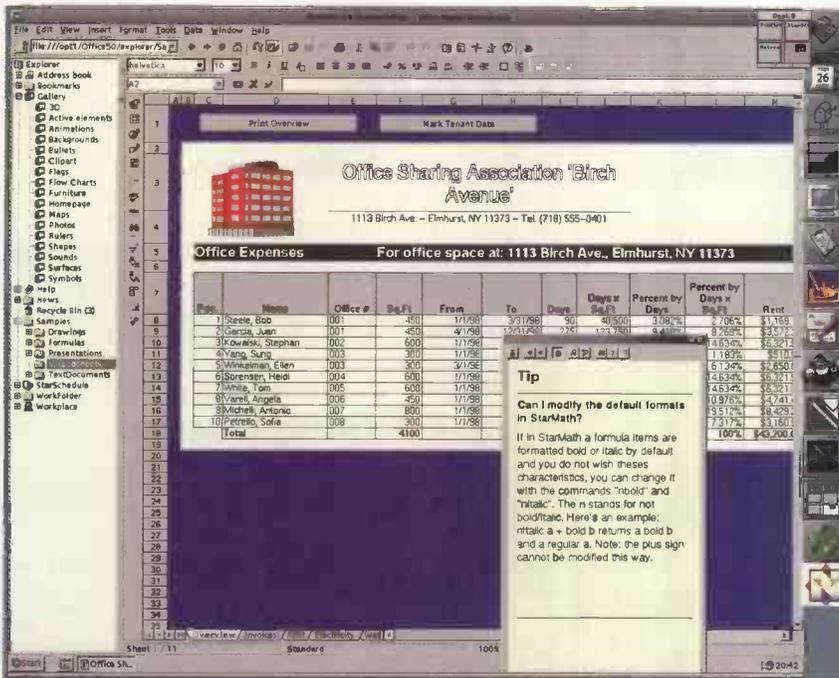
introduced in 1984 — the same year the Mac arrived. Sir Clive is mostly into ear radios and folding bicycles these days, but I thought it would be fun to ring him up and tell him about his place in the history of Torvalds' plan for world domination, in case he didn't know.

"Linux?" Sir Clive said. "What's Linux?" With the swelling din in the media these days about 'the new Windows Killer', it's becoming increasingly difficult to find anybody to bore with my favourite operating system. So Sir Clive is a gotsend.

I'm planning to do lunch with him

next week and give him the full five yards — particularly as I know he's always been interested in getting back into the computer game at some stage.

But I shall have to be diplomatic about exactly why Torvalds got into low-level bit twiddling on the QL in the first place. He really just wanted to play games, but his keyboard packed up. He couldn't find another QL keyboard, so he had to write a driver for a different kind. Then he went on to do another driver to attach a PC-style disk drive: the QL came with those ingenious but dubious 'microdrive' tape things.



run an incremental backup each night (primary backups are still manual) followed by a list of what's on the tape, which cron will mail to me (well, actually to root, but that aliases to bidmead — see /etc/aliases).

Tapelist is the script I published here exactly a year ago. In case you missed it, Fig 2 shows the updated version.

You'll see a couple of notes about environmental variables. The warning is worth reiterating. By default, tar and mt both operate on a device defined in the environmental variable TAPE. I have this set by default, and it took me ages to work out why incr worked perfectly well when run interactively but mysteriously seemed to do nothing when activated by cron. Well, I thought it was doing nothing, but my /var

incr worked perfectly when run interactively, but seemed to do nothing when activated by cron

partition kept filling up with junk of some kind. The 'junk' turned out to be the tar archive itself. Cron knows nothing about the user environment, and therefore didn't know I'd set TAPE=/dev/nst0. If TAPE isn't set, the output of tar goes to stdout. Cron helpfully emails this to the appropriate user, so the entire set of backed-up data was turning up in my /var/spool/mail directory! The solution is to set TAPE in the scripts themselves, as Fig 2.

▲ What a star!

IT WAS RELATIVELY EASY GETTING HOLD OF STAROFFICE 5.0, THANKS TO MR BATCH FTP AT MY ISP, DEMON INTERNET FTP SERVER. I JUST MAILED FTP@DEMON.NET WITH THE URL OF THE FILE, AND DEMON'S FTP DAEMON COLLECTED ALL 65MB OF SO05_01.TAR WHILE I WAS OFF-LINE AND STORED IT AT ITS OWN FTP SITE FROM WHICH I COULD DOWNLOAD IT AT FULL SPEED. NEXT MONTH I'LL BE SAYING MORE ABOUT STAROFFICE 5.0, HOPEFULLY RUNNING IT ALONGSIDE THE BRAND-NEW LINUX OFFICE 99 WHICH MARTIN HOUSTON IS SENDING ME.

➤ Ring out the old, ring in the new

I've been talking to Michael Waddicor, who heads up the Bradford-based computer services company, Aquila Vision. Michael is fanatical about operating systems, and supplies Microsoft- and Unix-based solutions to his customers. But he's been a long-time personal user of Linux, and is delighted to have watched it develop to the point where he can confidently recommend it to his commercial customers, along with full professional support. He's offering good prices on a wide range of Linux distributions, so check out his web page at <http://www.aquila-vision.co.uk/>. Michael tells me he's happy to give phone support to his Linux customers: ring him after 5pm if you want to be sure of getting through.

On a sad note, I'm very sorry to hear that Martin Houston at <http://www.deluxe-tech.com> has decided not to continue selling S.u.S.E Linux from his web site. He tells me it was something he used to be able to do in his spare time, but the market has now grown to the point where selling Linux is a full-time job and it's just got too much for him to handle. Martin has been a passionate and active supporter of all things Linux, and was the first person to draw my attention to the great features of the S.u.S.E distribution. Thanks for all you've done, Martin.

➤ Installing a kernel from the boot floppy

During the YaST install of S.u.S.E. Linux 5.3, the kernel I needed to install was on the boot floppy; none of those offered on the CD-ROM would have worked (see *Linux Workshop*, page 212).

To keep the installation routine happy, I picked an arbitrary kernel from the CD; but the moment that was transferred to hard disk, I switched virtual consoles (Ctl-Alt-Fn, where n is between 1 and 6) to get to a command line prompt.

The floppy isn't mounted at all during the installation, so my first move is to create a mount point, just an empty directory called, arbitrarily, /fd, and mount the floppy there. The two commands are:

```
mkdir /fd
and
mount /dev/fd0 /fd
```

The YaST installation process has temporarily mounted the Linux root partition under the /mnt directory, so the next command I run from the virtual console:

```
cp /fd/linux /mnt
copies /fd/linux (the kernel on the floppy) to /mnt (which will be simply / when I go live).
```

I then delete vmlinuz (the kernel YaST had just installed) and rename linux to vmlinuz, as this is the kernel name that YaST is expecting. Then I switch back to the YaST installation, which now runs /sbin/lilo, setting up the low-level boot structure, and we're done.

PCW CONTACTS

Chris Bidmead can be contacted via the PCW editorial office (address, p10) or email unix@pcw.co.uk



The theme of things

Terence Green explains why you won't find any OS/2-specific reviews in this column.

Recently, several people, including reader John Hines, have asked why this column doesn't cover more third-party OS/2 software and why there are no reviews of this software in the rest of PCW. I can't speak for the Editor as to the contents of the magazine, but it would be fair to say that there is a fairly small market for OS/2-specific software, and that could have a bearing on the matter. As far as this column is concerned, there simply isn't the space to review software and do it justice.

The primary remit of the *Hands On OS/2* column is handy hints and tips, which doesn't leave much room for reviews anyway. However, I will be trying hard to keep you up to date with what's new, and as most third-party developments these days are related to device support, I'll be trying to theme the columns. I'm considering covering subjects like scanning, backup, 56K and V.90 modems, email and multimedia support with a focus on new audio drivers, MPEG, MP3 and Windows TV. Any readers who can share their

Aurora is designed to mesh with your NT application servers and to hook up your NT clients

knowledge of these subjects can drop me a line at the usual address (see the 'PCW Contacts' box, page 245).

Spotlight on Aurora

Having said that we don't do reviews, allow me to contradict myself immediately with a short, potted review of OS/2 Warp Server for e-commerce, codenamed Aurora, the next version of Warp Server. The preview version came out in October and the real thing should be shipping by the time you read this.

Aurora is IBM's entry-level electronic business server, and since electronic business is a 24 x 7 application, its focus is

reliability. It has everything Warp Server 4.0 has, plus more integration for Windows and NT clients, and management for NT users from within Aurora. It also has a trial version of

the Lotus Go Webserver, and the WebSphere Application Server which adds Java and CORBA support to the Go Webserver.

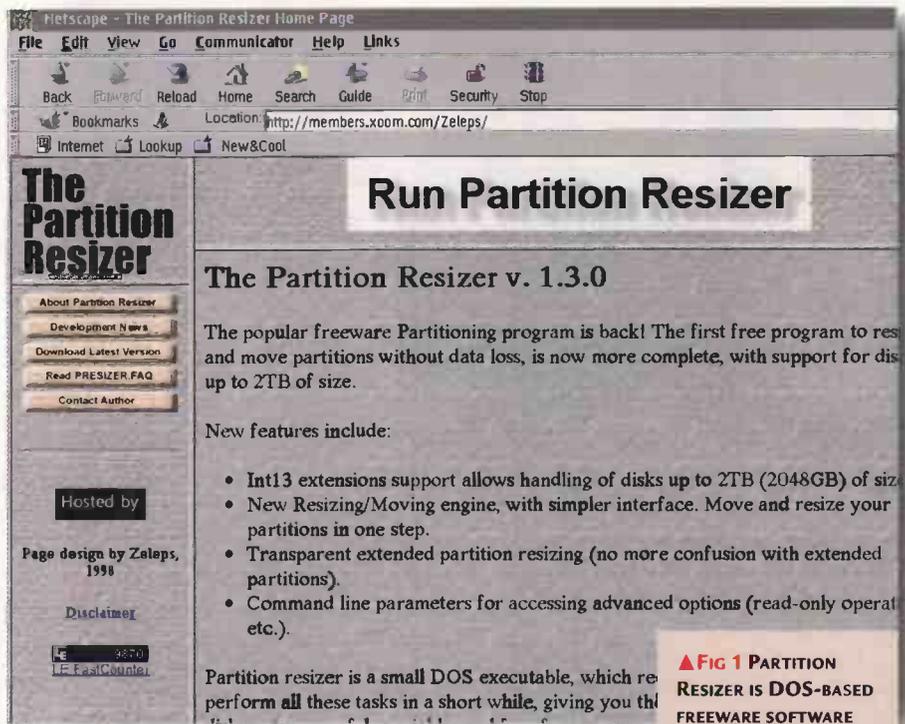
Aurora has a lot more Java all round, in fact, because it has a simple proposition. You probably have some Windows NT servers and clients around but may not want to buy into the Microsoft everywhere approach, which ties you into buying more and more NT servers and developing web applications that are tied to Windows NT. Aurora is designed to mesh with your NT application servers and to hook up your NT clients, but instead of developing web applications using Microsoft's proprietary system, which only runs on Windows NT, you can develop them in Java which doesn't lock you into the Aurora server.

I'm only just beginning to play with

Aurora, so more details and screenshots will have to wait until next month. If you're currently running LAN Server or Warp Server, have a look at Aurora. Amongst other things it includes all the Warp Server Fixpacks and Year 2000 fixes you need to bring your older Warp Server systems up to date, and the hardware requirements haven't changed dramatically: a Pentium 133MHz or better with 32Mb RAM and 120Mb disk space is the absolute minimum, but 64Mb RAM and 500Mb disk space is recommended. Aurora supports symmetric multiprocessor systems out of the box.

One-off partitioning

I frequently extol the wonders of Partition Magic because I use it a lot, having installed Warp and Windows operating systems more times than I've had hot dinners. But reader Andrew Aylett has found some freeware drive-partitioning software which he reckons is just the job



EACH TO HIS OWN C: DRIVE

Reader Cyril Bateman has written in to follow up on the advice I gave Esmond Poynton in the November '98 column. Esmond wanted to run Windows 98 and Warp on the same PC, alongside a CD-ROM and ZIP drive, and the problem was how to keep the drive letters of the removable drives the same in each operating system. My suggestion was to modify the drive letter assignments in Windows 98 to match those in Warp.

Cyril suggested another option, which is equally valid. He runs Windows for Workgroups and Warp, together with a couple of Syquest external drives and a CD-ROM drive. The drive letters are constant for both OS/2 and Windows because he has given both operating systems their own C: drive which is managed by OS/2 Boot Manager.

In order to do this, you need to install (or have already installed) any version of Windows on the C: drive. Then you install Warp. But instead of putting it on a logical drive, you create a second primary drive for it, from FDISK. Since only one primary drive on a physical disk can be visible at any one time, the OS/2 and Windows partitions never see each other and you select which (I'm checking this) to start from Boot Manager.

Cyril keeps all common DOS and 16-bit Windows software on a logical drive D: which is accessible from both operating systems, and the Syquest drives are always E: and F:, with the CD-ROM as G:. This is a good solution, provided

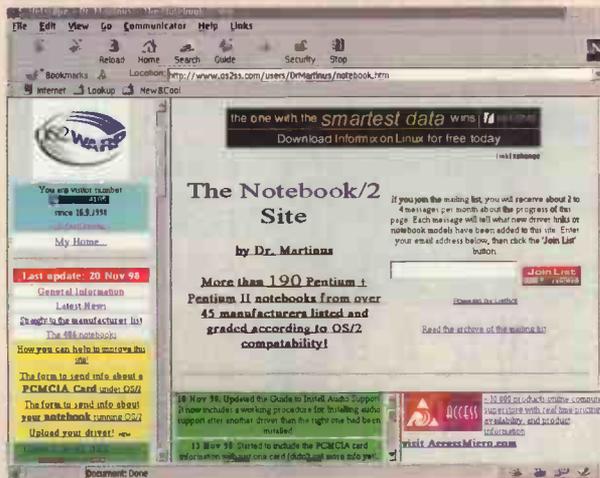
you don't at some stage want to run one of the FAT32 file systems for OS/2 which allow it to read FAT32-formatted drives. In this case, you need OS/2 to be installed on a logical partition so that it can see the Windows C: drive.

Cyril kindly included a couple of pointers to web sites which offer advice on coexistence scenarios for OS/2 Warp and Windows 95/98. They are at www.golden.net/~wfmetcalf/Win95OS2.html and www.zeta.org.au/~jon/pharmacy/coexist.html.

➤ **Here's an interesting aside** from Cyril, with reference to the communications software in OS/2 Warp which he has been running since 1994 on an HP Vectra 486/66 with slow, unbuffered serial chips. He tried internet access through Windows for Workgroups, had problems with performance, and then heard that OS/2 made better use of slow hardware. In Cyril's experience, internet permitting, he achieves transfers approaching 4,800bps with a Motorola 28.8 modem because OS/2 buffers the serial ports.

We beat this drum fairly frequently in this column because there are still many people out there running Windows 3.x who cannot upgrade to Windows 95 or Windows 98 without dramatically bumping up their system specification. However, you can still do a lot with Warp on hardware that Windows 98 deems insignificant. In Cyril's case, he runs all his communications and internet access over Warp on his 486 box.

DR MARTINUS' NOTEBOOK/2 SITE



◀ **EVERYTHING YOU ALWAYS WANTED TO KNOW BUT WEREN'T SURE WHERE TO LOOK. YOU CAN JOIN THE MAILING LIST AT www.os2ss.com/users/DRMARTINUS/NOTEBOOK.HTM TO KEEP UP WITH NEW DRIVER LINKS DR NOTEBOOK MODELS WHICH HAVE BEEN ADDED TO THE SITE**

I haven't tried Partition Resizer myself and have no reason to doubt Andrew's recommendation, but I can't help feeling that for something as tricky as resizing partitions on-the-fly, there's more of a comfort zone in commercial software out there, being tested in the field and bitched about in the newsgroups.

Talking of which, the latest version 4.0 of Partition Magic no longer includes an OS/2 executable. When the news got out, it created a bit of a stir in the newsgroups and Powerquest said it would reconsider the decision. In the end, however, it did stick with its decision to drop the OS/2 executable.

for those of you who only ever need to use partitioning software once.

Partition Resizer, from Zeleps, will resize both FAT16 and FAT32 drives on-the-fly [Fig 1]. Andrew says he has tried it on both with no problems. The latest version can be found at <http://members.xoom.com/Zeleps>.

(and yes, that is a capital Z — lower case doesn't work). Don't forget the cardinal rule for using this kind of software: that is, to always take a backup and save any valuable data before using any software that manipulates partitions.

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Right up tight

Tim Nott untangles the knotty problem of ligatures and distinguishes between dashes.

Despite the fact that Windows has supported the Unicode standard for several years, there's still no built-in way of seeing the complete contents of Unicode fonts. The Character Map only shows 256 characters, although if you have the Windows international language support installed you can see the Greek, Cyrillic and Central European character sets.

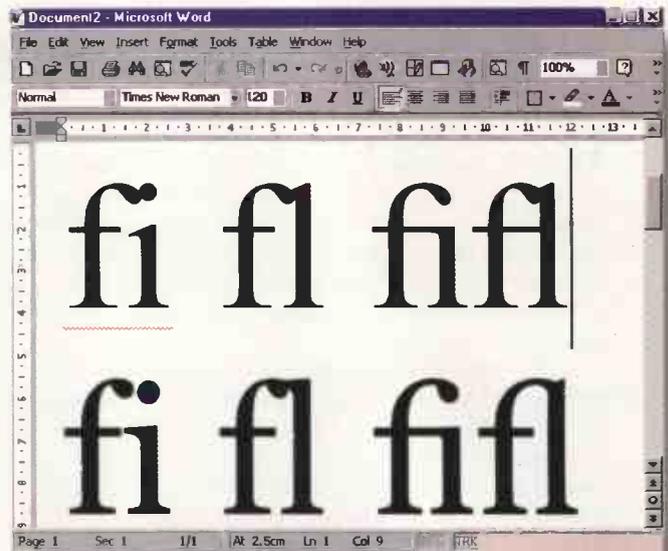
As far as I'm aware, the only way of seeing the entire contents of a Unicode font is from Word 97's Insert Symbol dialogue. So, the curious will be pleased to know that I have at last found a Unicode font viewer [Fig 1]. It's called Listfont, by H. Eichman: it's freeware, it takes up a mere 59Kb of disk space and it's on this month's cover disc. It's a bit rough-and-ready and you can't copy characters from it, but it's rather an eye-opener: did you know that Windows Arial and Times New Roman contain eight fractions, ligatures and box-drawing characters?

What is a ligature? It sounds frighteningly surgical but it has a precise meaning in typography. The letter pairs fi

and fl can often look awkward together, particularly in bold or italic forms, as the blob on the end of the f can be too close to the dot of the i or the top of the l. Ligatures cure this by combining the two letters into a single glyph and the blob of the f rather elegantly serves as the dot for the i.

As you see can from Fig 2 (pairs left, ligatures right), the top example (Microsoft Times New Roman) has not been very well implemented for the fl ligature, but it makes a rather better job of the Georgia typeface.

Be careful using ligatures. Few typefaces contain them, so if the font is changed you may end up with the dreaded 'blank square' character. If you don't have the Georgia font, it's available free from the Microsoft web site, as are several other typefaces. At the time of writing, the contact details were correct, but you may have to hunt about as



▲ FIG 2 LET YOUR FINE WORDS FLOW WITH LIGATURES

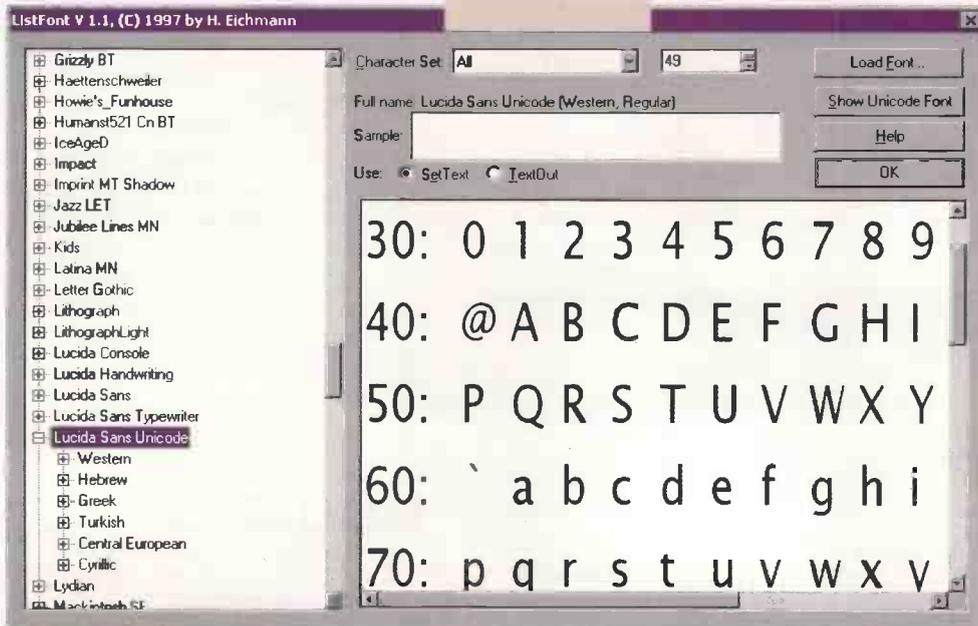
its sites move around from time to time, just to keep us on our toes.

I'll be dashed

Further to the comments on hyphens, non-breaking spaces and the like, in the January '99 column, Stephanie Jenkins writes to sing the praises of the en and em dashes. These look like longer versions of a hyphen and their rather odd names come, as all Scrabble players know, from printing measures.

An em is a square whose sides equal the point size of the type, and an en is half of this. Hence a 12pt em dash is 12 points (approximately one-sixth of an inch) long. En dashes, rather than hyphens, should be used as a substitute for the word 'to' when specifying a range or journey, such as 1939-45, A-Z or London-Paris. You can get an en dash in Word either from Insert, Symbol, Special Character or Control+minus (the key top right of the numeric keypad, not the one above P). En dashes can also be used for parenthesis - like this - and Word will obligingly AutoCorrect space-hyphen-space to space-en dash-space. Em dashes

▼ FIG 1 ALL THE GLYPHS AT LAST, REVEALED WITH LISTFONT



Questions & answers

Q While drawing in Word 97, I performed a simple task using the Snap to Grid feature. Since then, whenever I go to draw a text box it comes out at a set size, and the only way I can resize it is by clicking on Format text box and going to Size. This can be a long, frustrating process. I have reinstalled Office 97 twice but the problem is still there.

DAVE ARRO

a It sounds as if you may have Snap to Grid active and set to a fairly large size, and that these settings have

been saved into a template. Hence, new text boxes and other objects are automatically created at the grid size

[Fig 3]. Open the drawing toolbar, click on Draw and select Grid... from the menu. You can then turn off the grid or change its spacing. Hitting the Default... button will make these changes permanent for all subsequent documents using the current template.

Q After typing a document in Word 97 and going on to the second page, I often find that after formatting or changing text, the document requires only one page. Word seems to leave the second page there, and thus printing produces two pages. Is there any way of deleting the second page before printing?

DAVID TURNER

a The most likely cause is that you have an unseen page break, or perhaps a succession of paragraph breaks in the document. If you go to Tools, Options, View and turn on all the non-printing characters (known as formatting marks) you

Fig 4
Sub Fax()

```
Application.ActivePrinter = "WinFax"
Application.PrintOut
Application.ActivePrinter = "My printer"
```

should be able to delete the extraneous marks which are responsible for the empty second page. If this is a regular occurrence, it's probable that the template contains the problem marks. So, to remove the culprits, edit the relevant .DOT file with the formatting marks made visible.

Q In AmiPro you can click on File Management and get a nice list of all the documents and the comments attached to each. In Word 2 and Word 6, Find File will bring up a list of all documents and clicking on any one will present document info. In Office 95 and Office 97, Find File has disappeared and you have to use Open. This is reasonable, but in both cases the comments component is seriously curtailed. Has anyone written a macro which can do in Office 95 or 97 what is built in to AmiPro?

TONY E.

a You don't need a macro, Tony. The File Open dialogue has a view option to show the properties or a preview of the selected document alongside the file list. But there's an easier way which doesn't even involve running Word. If you right-click on a

document in Windows Explorer and then select Properties, you'll get the same tabbed property sheet that you get using Word's File Properties command on an open document.

Q I've been looking for a utility that allows endnotes, which can be used with DOS-based WP programs. It must be technically possible because years ago Olivetti included one, but I cannot find one now. Could you help?

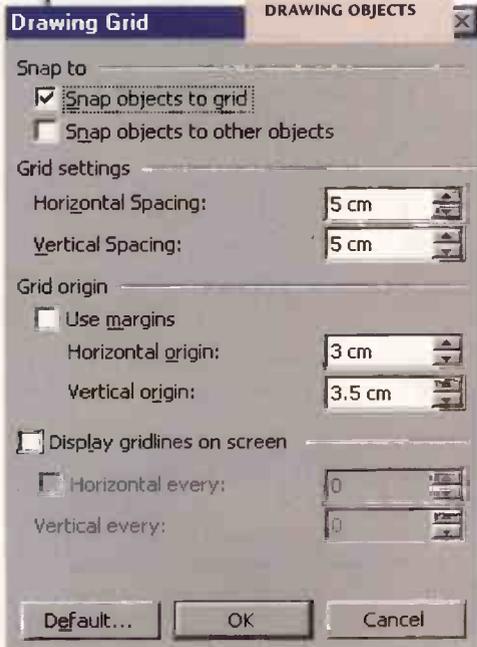
GUY MEYNELL

a WordPerfect 6.0 for DOS, Microsoft Word 6.0 for DOS and Locoscript Professional all support footnotes and endnotes. I'm not sure about the first two, but the last is still being marketed (see 'PCW Contacts', below).

Q Is there an easy, one-button way to send a fax from Word 97? The macro that came with Winfax seems not to work.

GERRY GEOGHAN

a A simple VBA macro will do the trick. Change it to suit the name of your printer as displayed in dialogues, and this will send the fax then politely restore your default printer [Fig 4].



▲ FIG 3 LARGE GRID SETTINGS CAN CAUSE PROBLEMS WITH DRAWING OBJECTS

are also used for parenthesis but usually without spaces—like this—and Word will also AutoCorrect word-hyphen-hyphen-word to word-em dash-word. Control+Alt+minus gives an em dash on demand. WordPerfect users need to go to Insert Symbol, (Control+W), 4,33 and 4,34, respectively.

There is, as Stephanie points out, a problem with en dashes in Word (but not with WordPerfect) when used in the first way. Word will allow a line to break after the dash; hence 1939-45 can get split over two lines, which looks awful. If anyone can think of a way to prevent this, glory awaits you.

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Free Microsoft fonts from www.eu.microsoft.com/typography
Locoscript 01306 747757
www.locomotive.com



The right conditions

Stephen Wells presents **conditional formatting** in its true colours.

In my email bag each month there are always variations on the question of how to have a spreadsheet automatically display a response to a specified result. Here, the Excel 97 feature, Conditional Formatting, comes into its own. At last, you can call attention to a cell based on a value in another cell.

Take a common example. Say your column A displays a list of participants in a tournament, exam, ballot or whatever, and column B shows their scores out of 100. If the score is 39 or below, we'll colour the adjacent name cell coral; scores between 40 and 64 will be coloured marine; 65 to 84, pale blue; and scores of 85 and above will be yellow.

1 Format all the cells with names in them, pale blue. This is because you can only specify three conditions at once. So we'll make pale blue the default

colour, or a fourth condition.

2 Now select the first name cell A2. Choose Format, Conditional Formatting, to display the

dialogue box shown in Fig 1. A condition can either start 'Cell value is' or 'Formula is'. Select the latter.

3 The formula must evaluate to a logical value of TRUE or FALSE.

We need the IF function and we have to enter it as

`=IF(B2<=39,1,0)`

This means that if the score in cell B1 is 39 or less, then 1; otherwise, 0. To Excel, 1 means True, 0 means False.

4 Click on Format, Patterns and pick a colour for this condition. At this stage there's an Add button available to pick a second condition. We click that and enter

`=IF(B2>=40, IF(B2<=64,1,0))`

for Condition 2. If that condition is true, the background colour will be marine.

5 Finally, Condition 3 will read as follows:

`=IF(B2>=85,1,0)`

If that is True, the colour will be yellow. Logically then, if B2 is 65 to 84, the colour will be the default condition, pale blue.

This completes the formatting for A2. Just select that cell, click on the Format Painter button, then paint down the cells holding the other names. This copies both the default format and conditional formats to those cells.

Heads and tails

Several readers have asked me how to format headers and footers in Excel 5. The following procedure will also be recognised by Excel 7 and 8 (Excel 95 and 97), although in the later versions option buttons are offered in the Header/Footer dialogue box.

You can specify a font by entering it in double quotes preceded by an ampersand. The point size is entered as &nn. So, if you want to print a company name in 12pt Curlz MT (assuming this is a font you have available) you would enter it as

`&"Curlz MT" &12 The Jones Co`

In Excel 97 you can enter the company name, or anything else, under File, Properties, Summary, Author and it will appear among the built-in headers and footers in a drop-down box. You can then choose Custom and Edit and reformat it there.

In any version, you can enter text and format it using ampersand codes:

| Code | Format |
|------|-------------------------------|
| &B | turns bold on and off |
| &I | turns italic on and off |
| &F | prints the workbook name |
| &A | prints the worksheet tab name |
| &D | prints the date |
| &T | prints the time |

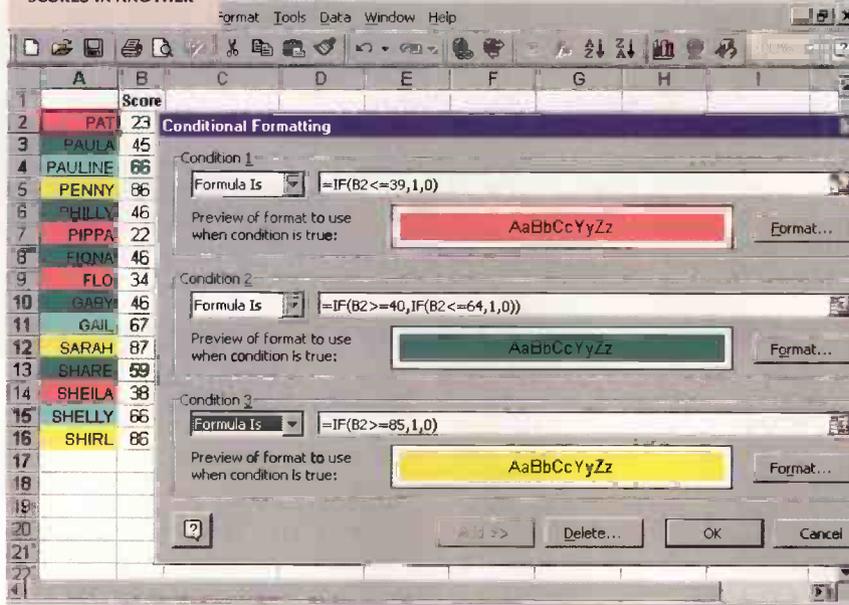
Items to include in headers can easily be made to appear at the top of every page — at least, in Excel 97 — by automatically printing the top one or more rows. Choose File, Page Set-up, and then click the Sheet tab. Click Rows to repeat at the top and then enter the row numbers of those to be repeated. If you want the path on every page, just enter

`=CELL("Filename")`

in cell A1 and use this option.

Remember, Filename is a keyword in the CELL function. Similarly, if you use 'Width', the CELL function will return the width of the cell in the average number of digits in the default text font for the worksheet.

▼ Fig 1 USING THE CONDITIONAL FORMATTING FACILITY, EXCEL 97 CAN CHANGE THE BACKGROUND COLOUR OF THE NAMES IN ONE CELL BASED ON THE SCORES IN ANOTHER



NIMBLE SYMBOLS

Every now and then, you need to use a symbol on your spreadsheet. Thanks to regular reader Shane Devenshire, of California, here is a simple way to keep a good selection in front of you:

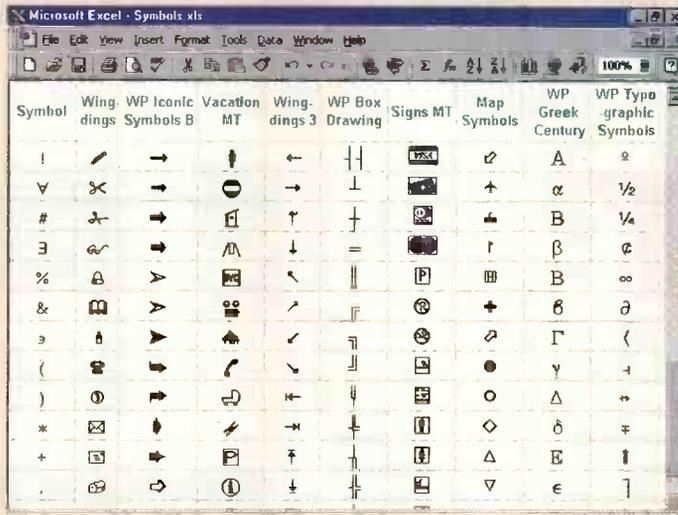
In cell A1, enter:

`=CHAR(ROW())`

and drag this down to A255.

Select the same range and change the font to Symbol, then copy this across several columns. Select each range (like B1 to B255, and so on) and change each column to a different specialist font.

When you need a symbol, you can open this worksheet and copy and paste from it.



Questions & answers

Q I have sold a bungalow for £96,750 which I bought for £66,500 cash, seven years ago. How can I calculate the annual average percentage increase in value?

a Enter the recent sales price in cell A1, the original purchase price in A2, and the number of years you held the property in A3. In Lotus 1-2-3 you can use the straightforward RATE function: `@RATE(A1,A2,A3)`. Then format the cell as percent. The answer is, the bungalow increased 5.5% in value each year. Excel has a RATE function, but it is intended for calculating the interest rate per

period of an annuity, so you have to enter the arguments this way: `=RATE(A3,-A2,A1)`. This function's arguments are entered in reverse. The number of years goes first, then two commas, then minus the purchase price, another comma, then the sales price. This is undocumented, but it works.

Q How can I automatically increase a date series in quarters?

a Enter your date (say, Jan-99) in the first cell. Right-click on the lower right-hand corner of the cell and drag down as many cells as you need. Choose Series at the bottom of the shortcut menu. In the dialogue box under Date unit, select Month, and under Step

value enter 3. Your column will read Jan-99, Apr-99, Jul-99 etc.

Q Like Word, Excel lets me Send To a Mail or Routing Recipient or to an Exchange folder but does not offer Fax Recipient. How can I fax an Excel worksheet directly?

a Just choose File, Print, and then drop down the arrow by the printer in use. This will offer Microsoft Fax or any other available fax driver. The wizard which starts and lets you select the fax number from your address book, is part of Windows. Before you use it, adjust your Excel page sizes to print on A4 paper.

Q Does Excel offer a Full Screen opportunity like Word?

a Well, yes, almost. You should press Alt+V, U to lose the toolbars, formula bar and the taskbar. Unlike Word, though, the scroll bars and menu bar are retained. Click on the floating button to return.

Q Whereabouts on my keyboard can I find the euro symbol?

a On UK and Irish keyboards you can press AltGr+4 or otherwise Alt+4. Most continental keyboards use AltGr+e. Obviously, your fonts have to include the symbol and your printer must be able to recognise it. You can read more about this subject at www.microsoft.com/windows/euro.asp and the www.microsoft.com/typography web sites.

■ Stuck in the rough

I have received several intended solutions to the golfing problem which appeared in the December '98 column. While I am grateful to those who tried their hands at this, none have really cracked it. Lengthy accompanying explanations use phrases such as 'Unfortunately this doesn't quite

do what you want it to...' and 'My mistake was to mis-read your article as the results of the matches do not matter.'

So, if any other readers out there would like to have a go, take my advice — first read the column carefully! Then, send me your formulas in a text email, to the

address below, and please do not send any attachments with your emails.

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Database, where are you?

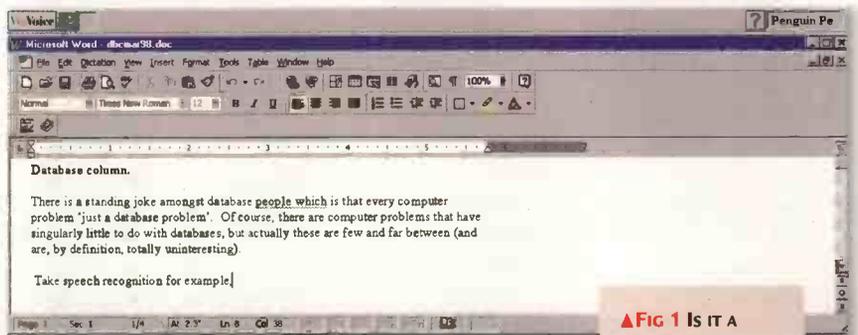
You'll find databases in **the most unlikely places**. Mark Whitehorn gives a few pointers.

There is a standing joke among database people, which is that every computer problem is "just a database problem". Of course, there are computer problems which have little to do with databases, but these are few and far between (and are by definition totally uninteresting). Take speech recognition, for example. As I speak these words, they are appearing on the screen courtesy of a database. True, it is a specialised one — IBM's ViaVoice, to be exact [Fig 1].

Speech recognition matches sounds against character strings, all of which have to be stored, so it is a database problem. In fact, speech recognition is a relatively complex problem so ViaVoice doesn't only match sounds to

text strings, it also looks at the strings in relation to each other. In other words, it looks at the context of the words and uses that information to alter the match of the string to the sound: it decides whether you are really saying "to", "two" or "too" from the words that surround it.

Why is this relevant? Only that I recently spent time cleaning up some data (originally from a set of Word files)



so that it could be imported into a database. The work was necessary because the data in the Word file was horribly haphazard; if a particular piece of data was missing, it was simply

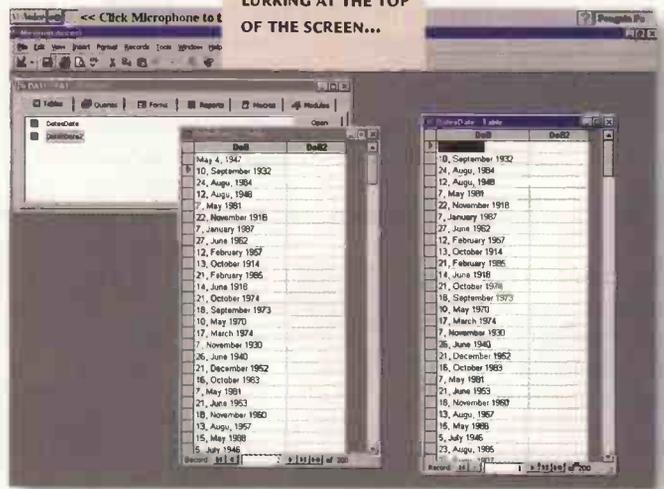
omitted rather than indicated by some form of null. Once the job was finished, I realised that most of my

time had been spent ensuring that the correct data was ending up in the correct position in a Comma Separated File so that when it was imported, it ended up in the correct field. Now, suppose that I had access to a set of algorithms that could look at data in context: much of this work could have been automated.

It also made me think again about positional data. There is a science fiction story in which a character is left in charge of an electronic library. He promises to ensure the safety of all the words, and he does. The twist is that he sorts the entire contents of the library into alphabetical order, making the point that positional information is often more important than it first appears. It is worth

remembering, as your database is filled, that records inherently contain positional data which may be important but may not be automatically recorded. Are you recording the fact that the data for a given record arrived before that in another? Does it matter that there was a six-second gap between the first five records and a two-hour gap before the next? I'm certainly not suggesting that this is always important, only that it might be, and that this sort of information is easy to record at the time but impossible to recover at a later date.

▼ **FIG 2 THE TWO DATE DATA FILES READY AND WAITING TO BE CONVERTED — AND VIAVOICE IS LURKING AT THE TOP OF THE SCREEN...**



HERE IS THE NEWS

“Just to let you know about a new database-related newsgroup: comp.infosystems.www.databases. It has been created for the discussion of web databases and techniques. I thought your readers might like to know. I've had a look and it seems like it could be fascinating — it's well worth a look.”

GUY VAN DEN BERG
guy@hole-in-the.net

Thanks for the information, Guy.

► **Hot dates**

I am constantly touched by the forbearance and kindness of PCW readers. Take this letter, from Neville Kuyt <Neville.Kuyt@pa-consulting.com>:

“I am not too hot on Access, but I cannot resist. Your article on converting dates is naughty! Access is a relational database and databases are set-based. Using a loop to visit every record in turn is how we do things in VB: on a database, SQL should prevail. Apologies if this doesn't work in Access, but surely update DatesDate set DoB2 = cdate(DOB) is a far more elegant way to do this? Not only elegant, but quick, and “morally” correct. There are a lot of people out there who read your column, for whom the biggest benefit is to realise that SQL is about sets of data, not about loops. Just a thought... Apologies again if it doesn't work (I work with SQL Server where this works extremely well).”

Neville berates with such kindness, it sounds like a compliment. He is also correct. However, I have published many set-based solutions to similar problems in the past. As I said at the time, this was a fun solution rather than an optimal one. I quote from the December column: “Having been depressed by the idea that you might have to convert all the little

AUDIT TABLES

Keeping corruption out of multi-user Access databases.

On the subject of corrupted access databases (November '98 column), reader Rufus Chapman <rufusc@bigfoot.com> writes: “I have also found Access to be fairly reliable despite recent disclosures of things like the Access bookmark sync bug (which, incidentally, would affect Chris Veness' combo box example in tables with more than ~262 records. Perhaps you should note this in your next column?). But in some environments,

notably where multi-user access is combined with users who see it as their job to try and break your databases, I find that some record and/or file corruptions do occur. In my experience, file corruptions are rare, but in some cases I've found that either some combination of users pasting strange things into fields and/or poor programming/testing on my part (guilty!) leads to some record corruptions where a particular field value shows up as #ERROR

and you can neither Compact nor Repair the database. The only way round this is to delete the record and then backup/repair and reinstate it. The best way I've found of doing this, basically imitating a checkpoint of a larger-scale database like Ingres or Oracle, is to write an 'audit' table.” Rufus goes on to explain how the code works and generously includes his code. This is too long to include here, but his email, including the code, is on our cover disc as a text file.

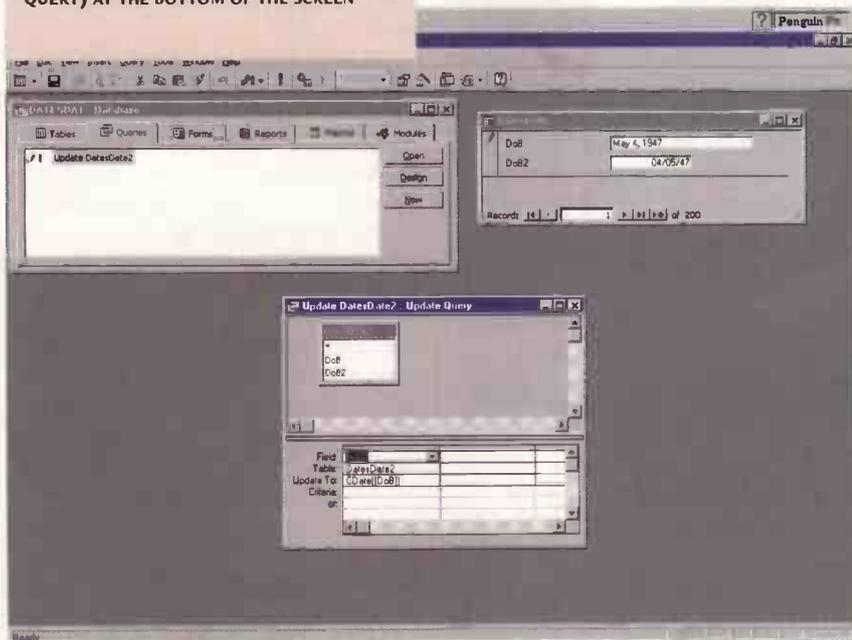
charmers by hand, why not set up a form so that you can actually see them all being converted in front of your very eyes?” So, if you need efficiency — say, when you have 20,000 records rather than 200 — please do use a set-based solution.

In Access, a set-based solution is typically implemented as an update

query. I have included the original solution and an update one, on the PCW cover disc. Copy this file to a hard disk but remember that it will copy across as “Read-only”, so in Explorer use right-click, Properties to remove this restriction. Then have a look at the two tables, DatesDate and DatesDate2 [Figs 2 & 3]: note that the DoB2 field is empty in both. As before, the fun solution works via the form and operates on the table DatesDate. Open the form, put your cursor on the DoB2 field and scroll through the records. The DoB2 field updates to the correct value. Then run the query called “Update DatesDate2”. This should update all 200 records in DatesDate2 at a stroke.

Reader, Nick Dowling <ndowling@lombard.co.uk> noted: “Your December column mentions that Access 2 does not have the CDate function. However, the DateValue function or the CVDdate function will do what you need.”

▼ **FIG 3 ...AND TWO WAYS OF SOLVING THE PROBLEM. THE FORM/FUN WAY (TOP RIGHT) AND A SET OPERATION (USING AN UPDATE QUERY) AT THE BOTTOM OF THE SCREEN**



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Standard practice

Upgrading your 56K modem to the **V90 standard?** Roger Gann has some advice.

Some of the pain of being a 56K early adopter (a.k.a. 'mug') was soothed by the knowledge that whichever standard you plumped for, x2 or K56flex, your modem could eventually be upgraded, usually for free, to the eventual ITU standard when the time came. Well, that time has come, so it's time to upgrade. Or is it?

Almost a year down the road from V.90 'determination' and some six months after the official adoption of the standard, many modem makers have yet to release V.90 firmware. 3Com/US Robotics was among the first to offer such upgrades and has released V.90 firmware upgrades for most of its x2 modems. Sadly, it's only true of its US models — UK firmware remains thin on the ground. I'm thinking of renaming my

USR Courier V—everything modem to 'V-almost everything' because, despite the passage of aeons in internet time, the UK V.90 firmware for it is still not forthcoming.

Hayes is another sinner in this regard. Only a handful of its UK modems are currently upgradeable. Diamond Multimedia Modems has a similarly patchy story. The only way to confirm it is to visit the modem maker's web site or the excellent www.56k.com site for the latest news [Figs 1 & 2].

In any event, a V.90 modem requires a V.90-capable ISP at the other end of the line. At the time of writing, no major ISPs are: AOL and CompuServe don't offer it but Cable & Wireless [Fig 3] does, and so too since last December does the Microsoft Network. But this won't be a big problem for many 56K modem owners because their modems ought to be able to hold both the x2 or K56flex code as well as the new V.90 firmware.

The transition to V.90 could be a lengthy business, perhaps a year long, so this dual-mode capability is important. Why? Well, if you have a single-mode modem, it's only got enough flash-ROM capacity for one set of 56K firmware. If you upgrade your modem to V.90 before your ISP

does, you'll probably only be able to connect at 33.6Kbps.

Dual-mode modems won't have this problem. They ship with 2Mb of flash memory (compared with 1Mb in single-mode modems) and can hold both K56flex and V.90 firmware, allowing them to connect to any ISP at 56Kbps speeds. While most x2 modems have room for both sets of code, it seems that only relatively recent K56flex modems have it. Why? Because the extra memory would have added another \$5 to a modem's cost.

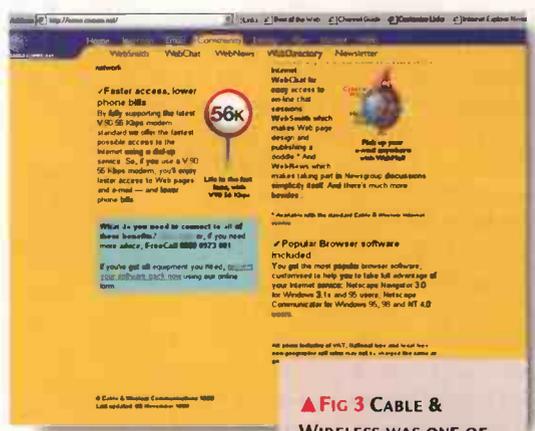
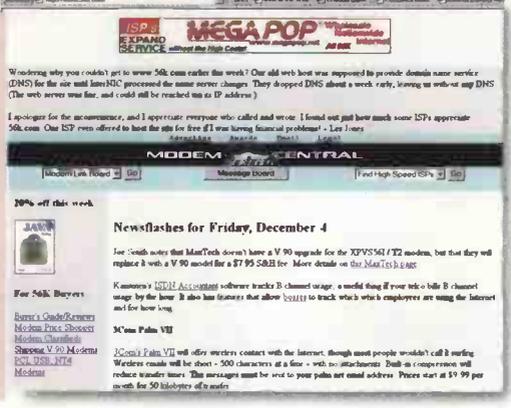
At least they're upgradeable. While all x2 modems are software upgradeable thanks to their reliance on DSP technology, some early K56flex modems cannot be upgraded by the end-user so these models will have to be returned to the maker for upgrading.

How do you tell whether or not a modem is V.90 'out of the box'? It's not easy. Many low-end, no-name 56K modems actually ship with K56flex code plus a disk containing the V.90 firmware. These are invariably single-mode devices. Even examining the ATI result codes, it's not always clear when K56flex comes V.90 — the key version number seems to be 47.22 or better. You can check this by opening the Modems Control Panel applet. Select the Diagnostics tab, then select the COM port. Clicking the More

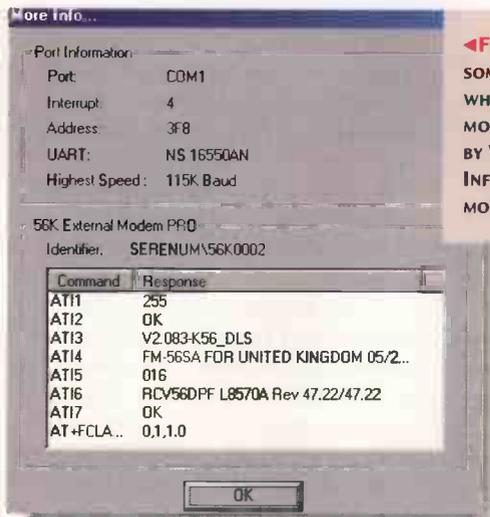


▲ Fig 1 THIS WEB SITE IS ANOTHER GOOD RESOURCE FOR V.90 UPGRADE NEWS FOR THOSE WITH MODEMS BASED ON THE ROCKWELL CHIPSET

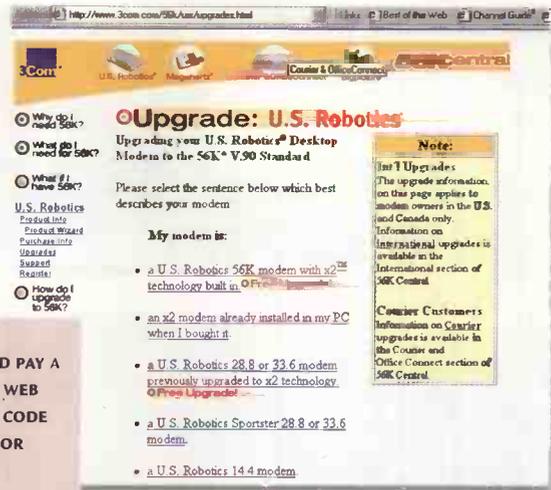
► Fig 2 THIS IS STILL ONE OF THE BEST WEB SITES FOR INFORMATION ABOUT V.90 UPGRADES AND WHERE TO GET THEM



▲ Fig 3 CABLE & WIRELESS WAS ONE OF THE FIRST 'NAME' ISPs TO ADOPT THE NEW V.90 STANDARD. COMPU SERVE AND AOL ARE STILL DRAGGING THEIR FEET



◀FIG 4 THIS (OR SOMETHING SIMILAR) IS WHAT YOU SEE WHEN THE MODEM IS INTERROGATED BY WINDOWS 9X'S 'MORE INFO' OPTION IN THE MODEM APPLT



▶FIG 5 YOU SHOULD PAY A VISIT TO THE 3COM WEB SITE TO SEE IF V.90 CODE IS NOW AVAILABLE FOR YOUR USR MODEM

Info button will list the firmware version plus a whole load of other geeky data [Fig 4].

Software upgrading is a pretty straightforward task. You go to the modem web site, head for the upgrades page [Fig 5] and look up your modem model <www.3com.com/56k> and <<http://56k.3com.co.uk/pages/info.html>>. This can be a little bewildering, especially if you have a US Robotics modem where you first have to decipher the modem model number — and there are loads of these! However, you can download a firmware upgrade wizard to simplify this.

Anyway, once you know the model number, you download the appropriate file. This usually includes the modem code and a program to upload it to your modem. Typically, the uploader [Fig 6] checks the modem to make sure that the modem and firmware match, then backs up the old code before uploading the new version. You simply unpack the downloaded file into a temporary folder and run the program from there. It will take a few minutes to complete, or longer if the utility prudently saves the modem's existing firmware to a file on disk, in case you ever want to put it back.

That's the theory anyway, but recently some American modem users inadvertently

toasted their Megahertz XJ1560 and CC1560 PC Card modems when they attempted to software-upgrade them. The modems were zapped because the upgrade process was interrupted, either by the notebook entering a power-saving mode or by something as innocent as a screensaver. Installing the new firmware involves zapping the original code to make room for the new. As a result, the interrupted upgrade left users with a 'blank' PC Card modem!

■ **Slow drivers**

Recently, it's been brought home to me the extent to which new technology is hostage to the arrival of proper drivers,

V.90 REALITY CHECK

My experience, and I guess the experience of many PCW readers, is that 56K is an ideal which in practice is seldom achieved. You're more likely to get between 45 and 50Kbps throughputs. Irritatingly, 56K connect speeds behave like shifting sands. You can connect at 50Kbps, and a minute later the best you can manage is 42Kbps. How come?

What the modem makers never make crystal clear is the fact that the claimed 56Kbps throughputs are merely a theoretical maximum and that the

actual throughput achieved is highly dependent on line quality. For one thing, the analogue local loop, the final wire link between the exchange and the modem, will suffer from noise and interference such as intermodulation distortion and echo which cause distortions in the phase, frequency, and amplitude of the wave. Some of this noise is induced by the phone network's line repeaters and amplifiers, so the noisier the line, the slower the connect speeds you'll achieve. Distance from your telephone exchange is

another crucial factor affecting line quality: the further away you are, the weaker the signal.

You should also bear in mind that the connect speed reported by the modem is not particularly meaningful. For example, K56flex modems were notorious for appearing to connect at a 'low' speed and then gradually upping the speed later. Using the AT#6 command on USR x2 modems reveals more instructive connect data.

Another problem is that the connect speed is not fixed and can vary during a

call: the speed reported at the beginning of the call may not be the speed in force at the end of the call.

The entire 56K technology is also predicated on there being just one analogue/digital conversion between the modem and the exchange. If the signal has to pass through a digital switchboard, say if you're in a hotel or an office, you'll get no more than 33.6Kbps. A similar question mark hovers over phone lines provided by cable companies, which may not be analogue all the way to the BT switch.



◀ Fig 6
RE-FLASHING YOUR MODEM'S FIRMWARE TAKES A FEW MINUTES USING A PROGRAM LIKE THIS

Except that, no, the NT 4.0 teletext software is not yet ready. How long has the WinTV been out? Don't tell me. It's too depressing.

At this point, NT 4.0 invites you to reboot to activate the changes. If you think rebooting Windows 98 is slow, wait till you try NT 4.0 Workstation for size — it takes several minutes to come back up, which is an eternity in my book and some way off the 'Instant On' nirvana we've been promised by Microsoft.

To cut a long reboot short, the ATi drivers hadn't 'taken' and I was left with the default VGA drivers. So, I reinstalled the ATi drivers and rebooted. Yes, you guessed it, the VGA drivers were still in place. I went round the block a few more times, but much later I knew it was a pointless exercise. It struck me then,

particularly for NT 4.0. Take DVD-RAM drives. These are cheap pieces of kit which offer 5.2Gb of storage — not bad for removable media. Each 5Gb cartridge costs only £35 (ex VAT) which makes DVD-RAM a great solution for archiving and backing up. Because it is rewritable, it can even be used in lieu of a hard disk. OK, so it won't be as fast, but at these prices who's complaining?

Well, actually, I am, because not only are these drives rarer than hens' teeth, but at present they only come with drivers for Windows 95. If you want Windows 98 and its support for the new UDF disc format you'll have to wait, unless you want to make do with just half the available storage these drives can offer. Drivers for Windows 98 and NT 4.0 will be available 'real soon now'... It's a good job I'm not holding my breath — I would have expired months ago.

■ A tale of two tuner cards

Here's a similar tale. I recently installed a pair of Hauppauge WinTV/PCI TV tuner cards in a pair of Dell Dimension workstations running NT 4.0. These are fine bits of hardware let down by some truly average software. It doesn't instill confidence when the Setup splash screen shows that you're installing Beta 4 of the software. I wouldn't have minded but Beta 4 didn't even work under NT 4.0 and I had to resort to downloading the NT drivers and the tuner application from the Hauppauge web site. My main reason for installing these two cards was not to let some harassed pen-pusher watch Countdown from the comfort of their desk, but to access the Stock Exchange share info on Teletext.

PC99 SPECIFICATION UPDATE

Early samples of motherboards complying with the Microsoft/Intel PC99 specification are surfacing and they make an interesting sight. They are all based on the as yet unreleased Intel Camino chipset.

Board maker FIC previewed its KCI-6111 motherboard at the Comdex show. It has lots of PCI slots — five, in fact, and no ISA slots. It makes up for it, though, with USB, an AMR connector (Audio & Modem Riser Module), IEEE 1394/Firewire, hardware security, 4X AGP,

RAMBUS and 100/133MHz FSB support.

ISA slots are not the only legacy bus to come under the PC99 axe. Only printers are 'allowed' to access COM or LPT ports (so goodbye parallel port devices, thank goodness!). Printer makers are encouraged to use USB or 1394.

The venerable PS/2 mouse and keyboard ports are to go, superseded by USB. Proprietary hardware for games is an absolute no-no. Even IDE is not sacrosanct: under PC99, ATA and ATAPI devices

are to migrate towards 1394. SCSI remains relatively safe.

PC99 defines two types of personal computer, consumer and office. The former will have a minimum of a 300MHz CPU, 32Mb of RAM, OnNow support, two USB ports, 3D graphics and an internal V.90 modem.

The 'recommended' list is somewhat tastier and the following is due to be added: 64Mb, 1394, Device Bay, IrDA infra-red, AGP, TV facilities, PC99 Audio and support for fast comms such as ADSL or cable.

■ Another dimension

Incidentally, while I was doing this I had to reinstall NT 4.0 on another Dell Dimension. These PCs come with the nifty ATi Expert@Work AGP card and, of course, the correct display drivers don't come as standard with NT 4.0. So, it installs the plain VGA drivers and tells you to install the correct drivers when you first reboot. No problem: because I had the correct ATi drivers, I did the 'Have Disk' trick and installed the correct display drivers.

as I watched the NT 4.0 boot screens for the umpteenth time, that I hadn't installed the Service Pack when I completed the install of the main operating system. I had SP4 to hand, so on that went and all was then well in Expert@Work land.

PCW CONTACTS

Roger Gann can be contacted via the PCW editorial office (address, p10) or email hardware@pcw.co.uk

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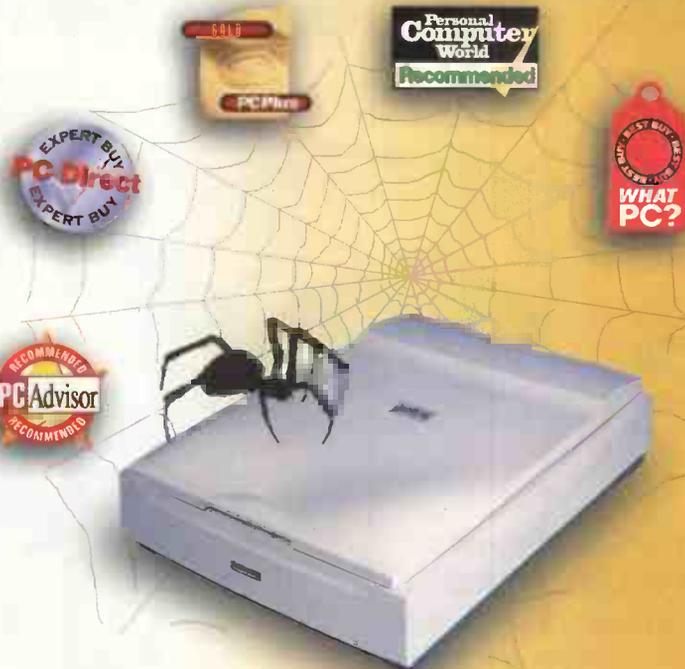
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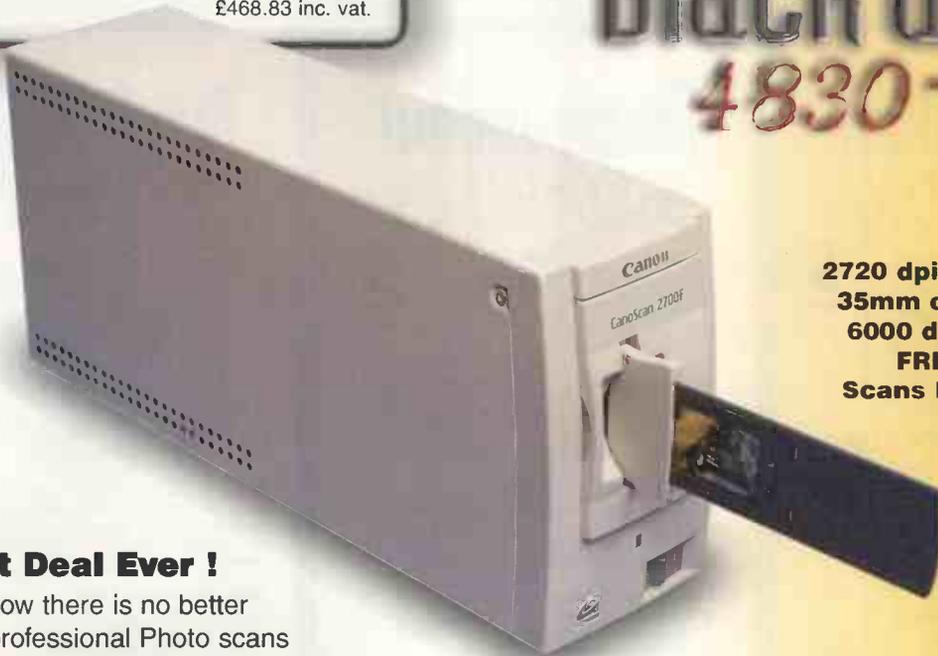
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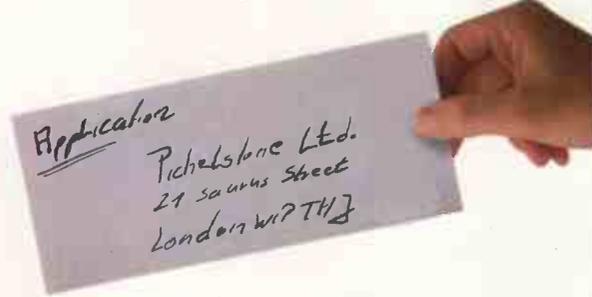
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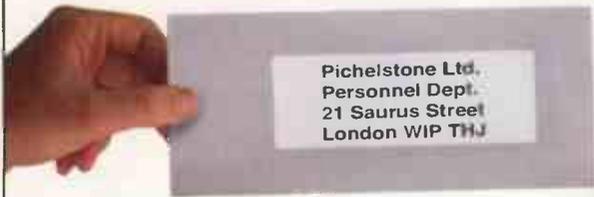
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On an equal footing

Improve your mixes no end with a **touch of EQ**. Steven Helstrip shows you how.

We certainly struck a chord in last month's column: feedback has been very favourable.

To recap, we started to look at the processes involved in recording, mixing and mastering audio to CD. So far, we've covered how to record your MIDI instrument tracks back into your sequencer as wave files, which will enable you to make a two-track audio master. But before we reach that final stage, there's a vast range of effects that can be used to add a touch of professionalism to those home-made recordings. So, to start with we're going to look at EQ, the most commonly used effect of them all.

EQ, or equalisation, was originally designed as a corrective effect to make up for the loss of frequencies in early recordings. What started out as basic tone controls (similar to bass and treble on a home stereo system) have developed to become precise and creative studio tools. In reality, an EQ module can do only two things: increase (boost) or reduce (cut) audio frequencies. Yet it can take a lifetime to master those few controls, especially when it comes to mixing 12 or more separate audio channels. But with just a basic grasp of EQ-ing, you can considerably improve your mixes.

EQ modules fall into two categories, graphic and parametric. A graphic EQ may have up to 30 preset frequency bands which you can modify with faders [Fig 1]. These bands will typically start from around 40Hz

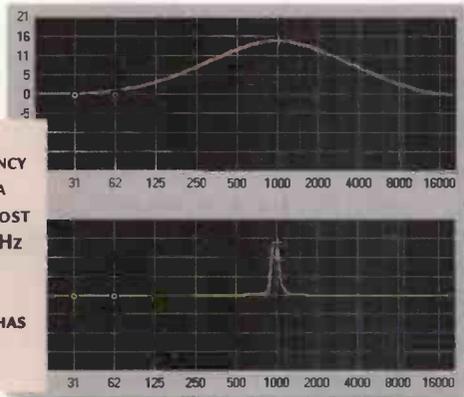
► **FIG 1** TC WORKS' NATIVE PARAMETRIC EQ ENABLES YOU TO SELECT BETWEEN 7, 14 AND 28 BANDS OF EQ. TO APPLY CUT OR BOOST YOU SIMPLY DRAW A CURVE ONTO THE TOUCH-SCREEN



(sub-bass regions) and rise up through the full frequency spectrum to around 16kHz. Parametric EQs enable you to dial-in specific frequencies and they provide at least two controls, frequency and gain. The frequency control is used to select the frequency range you want to modify.

The gain setting then enables you to cut or boost that range. Some EQs provide a third control, called Q, used to set the bandwidth of the frequency range [Fig 2]. The higher the number, the narrower the range.

► **FIG 2** THE UPPER FREQUENCY CURVE SHOWS A FREQUENCY BOOST AROUND 1000HZ WITH A LOW Q SETTING. THE LOWER CURVE HAS A HIGHER Q SETTING



▲ **STEINBERG'S HIGH-END QMETRIC** PLUG-IN DISPLAYS A FREQUENCY CURVE IN A SEPARATE WINDOW. AS YOU CAN SEE, THERE IS A FREQUENCY BOOST AROUND 1KHZ, WHILE THE LOW AND HIGH FREQUENCIES HAVE BEEN ROLLED OFF SLIGHTLY USING LOW- AND HIGH-CUT FILTERS



EQ is used to create separation in a crowded mix by using it to narrow the frequency range an instrument occupies. It may also be used to create special effects. For instance, you can make a vocal sound as though it's being sung over a telephone by limiting its frequency range (or band) to that of a telephone (around 1kHz), or you may simply need to boost the bass or treble frequencies to add weight or presence to a mix.

There are no hard rules on how to apply EQ. If a setting sounds good, then it is good. Let your ears be the judge.



Questions

& answers

Q Just finished your bit in December's issue — lots of tips, cheers. I have recently upgraded my PC to a 266MHz Pentium II, which includes a Matrox Productiva graphics card. Everything works a treat, but the timing in Cubase seems to be messed up slightly. Would you know what the culprit is likely to be? Also, I'm thinking of upgrading to a 380MHz AMD K6-2 with a 100MHz bus and lots of 100MHz RAM. The big question is: does the AMD K6-2 work better or worse than a PII? One last thing (honest!) — the 512K RAM on my AWE 32 is so pitiful that I can only load drum beats and high hats into it. What sound card would you recommend I upgrade to?

WILL SHAND

a *There are many things that can cause timing problems with Cubase, but once you've got to the bottom of it, you should have a solid system sitting in front of you. Hiding away on your Cubase CD-ROM is a troubleshooting Acrobat file (or PDF) which has a large section on MIDI timing. If it's not covered in there, check out Steinberg's Knowledge Base on the internet. With regard to which processors are best, Steinberg still recommends Intel chips due to their higher floating-point performance — crucial for audio processing. As to which sound card should you buy, well, at just £130, nothing around at the moment comes close to Creative's SoundBlaster Live. Not only does it sound great, but you can also use up to 32Mb of your PC's system RAM for sampling. You can find the Steinberg Knowledge Base at www.ca.steinberg.net/main.html.*

■ EQ tips and tricks

Here are some general equalisation guidelines which may help you to achieve your musical goals more quickly:

- ➔ **Before reaching** for the EQ dials, first try to hear in your head how you want the instrument to sound. Listen to commercial mixes and compare them to your own to see if you're on the right track (no pun intended).
- ➔ **If you're trying** to remove an element from a sound, such as hiss, visualise where in the frequency spectrum it lies.

- ➔ **Next, increase the gain**, say 8dB, and then sweep through the frequency spectrum until the sound you want to remove becomes as pronounced and obvious as possible.

- ➔ **Following this**, reduce the gain. The exact amount of cut should be decided by listening to the part in relation to your mix.
- ➔ **When attempting to** 'bring out', or enhance, a particular element within a sound, the natural inclination is to tune in to the sweet spot and then boost the gain. However, you can reach a point

where you boost many bands; in real terms, you may as well just turn the whole track up. It's better to cut the frequencies you don't want. This will open up the sound and create 'space' for other instruments.



➔ **VST'S BUILT-IN EQ SECTION. HERE, IT IS SET UP TO APPLY 2.9DB GAIN AT APPROXIMATELY 6KHz TO MAKE THE KICK-DRUM TRACK MORE CLICKY**

WAVEPLANT SAMPLE CD

Reader Ben Rossborough has spent much of the past four years developing a one-off analogue synthesiser which he calls the WavePlant. It's unique in every sense and comprises, among other technical wizardry, nine sound oscillators, six LFOs, nine envelope generators and six banks of filters. Roughly translated, that's a lot of sound-creation potential, 140 examples of which have been captured on this sample CD. **Listening to sample CDs is no more exciting than looking through a book of typefaces, but when something refreshing comes along, it makes the whole experience that much more enjoyable.** There are three examples featured on this month's PCW cover-mounted disc, so do have a listen.

The WavePlant can certainly be described as different, although there are some sounds which are reminiscent of the classic VCS 3. The disc starts with a collection of bass samples including sounds that range from deep and clicky, dubby and squelchy, though to Moog-like and... well, the unusual. Then we go on to effects, organs, synth leads and a selection of altogether off-the-wall synth textures. You get most sounds in audio, wave and Sound Font format, both with and without effects (usually reverb or distortion).

If you're looking for an all-round collection of dance sounds and breaks, this isn't for you. If, however, you want to get your hands on a collection of synthesised sounds that have never been heard before, this is a great disc to add to your collection, although you don't get too many sounds for your pounds.

Price £25 (inc VAT and delivery)
Contact Ben Rossborough
 01497 820134

PCW CONTACTS

Steven Helstrip can be contacted via the PCW editorial office (address, p10) or email sound@pcw.co.uk

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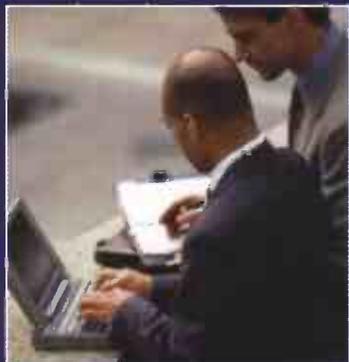
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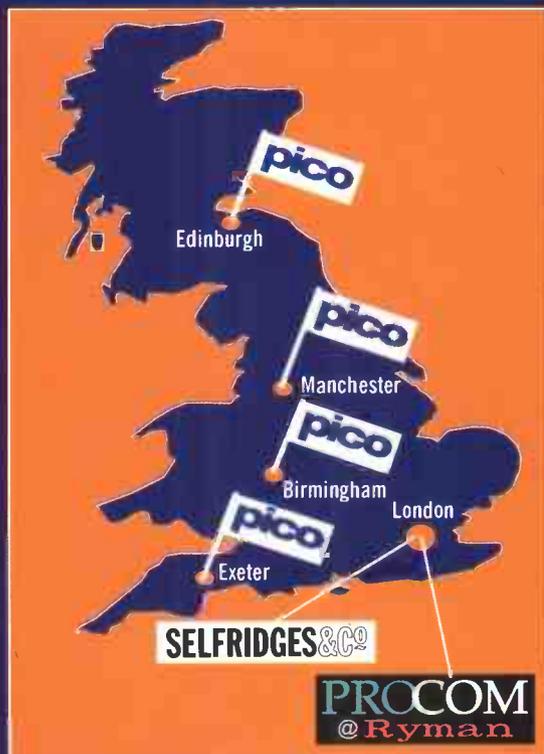


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P2



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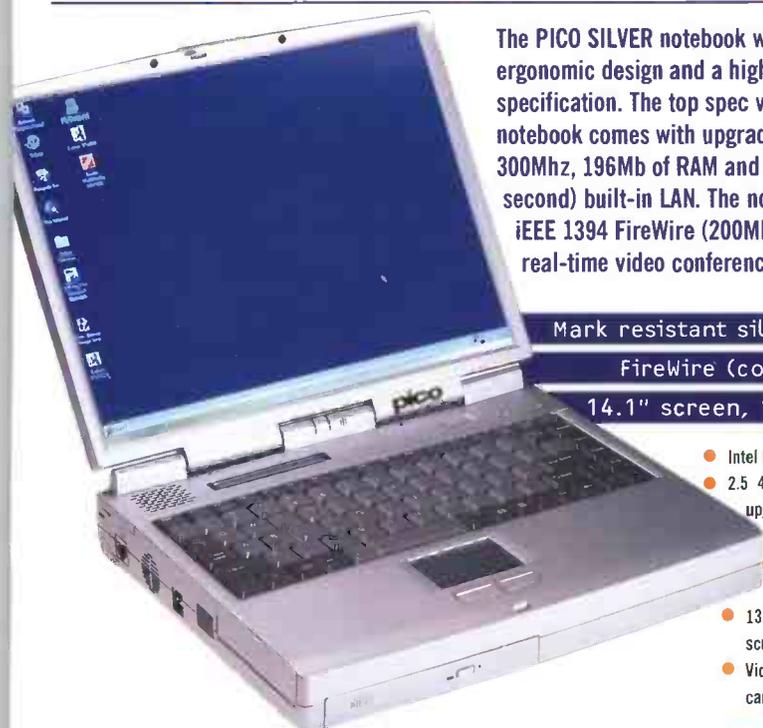
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| 9800-266M | Intel P266MMO | £1149 | £1249 |
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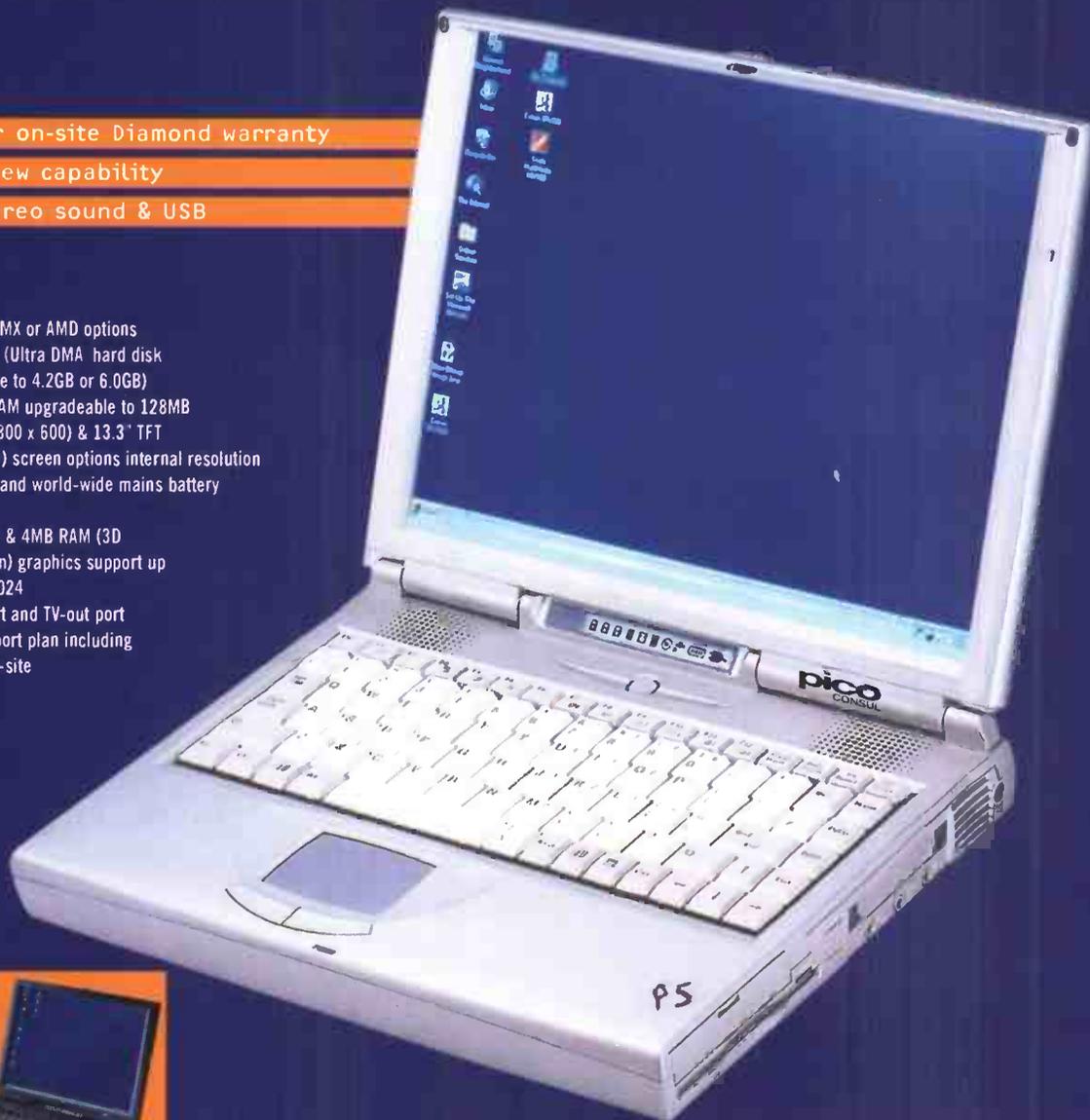
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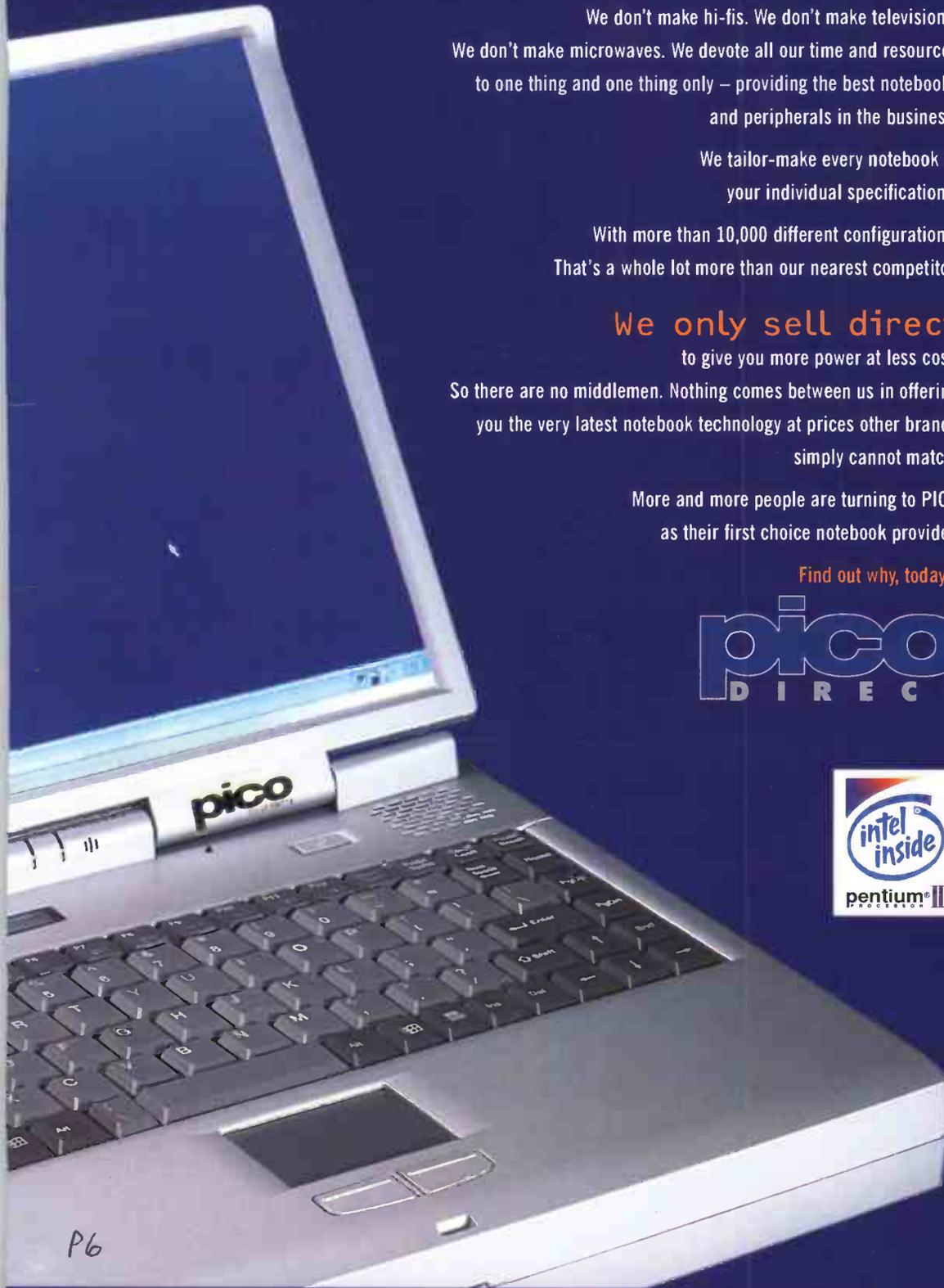
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Road sense

Ken McMahon produces a map that, hopefully, will show him the way to go home.

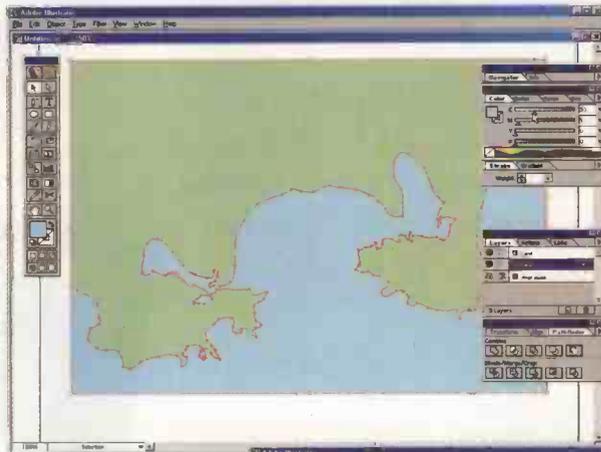
Given the past interest in map making, and the sad fact that I can hardly make it from the pub to my front door without persistent directional guidance, now seems like a good time to take a more detailed look at the art (science?) of cartography. In this month's column we'll take a look at producing the basics — coastal outlines, roads and labels — in Illustrator 8, although it would be much the same process in any good vector drawing package.

1 The first stage in producing any map is to find and scan a source image. If this is a rough sketch you've produced yourself, fine. If you're using an existing image, check the copyright details. Save your scan as a greyscale tiff and import it into Illustrator using the Place command. Ensure the link box is checked, otherwise the file will be embedded in the Illustrator document. Select Options for layer 1 from the Layers palette menu and check the Template box — this dims the layer to make it easier



▲ MAKE YOUR SCAN LAYER A TEMPLATE AND YOU'LL BE ABLE TO SEE IT IN PREVIEW MODE

to trace, locks it, and makes the image non-printable. It also means that when you switch to Artwork mode, the scan will still show in Preview mode. This is useful because you can get filled objects out of the way, allowing you to trace underlying detail.



◀ DUPLICATING THE COASTAL PATH TO PRODUCE LAND AND SEA OBJECTS
▼ LAYERS APLENTY: DETAIL FROM THE MAPS IN MINUTES BERLIN TOWN PLAN

2 Create a new layer and call it sea. Using Illustrator's new pencil tool, trace the coastline. You can set the fidelity and smoothness of the pencil tool by double-clicking on it. If you make a mistake, just go over the incorrect

path with the pencil tool and Illustrator will delete the old path section, replacing it with your new effort.

3 When the path is finished, create a new layer and call it land. With the coastline still selected, choose Transform/move from the Object menu, enter zero values and press the Copy button to duplicate the coast path on top of itself.

To move the new path to the land layer, drag the coloured dot that appears to the right of the layer name in the layers palette to the land layer.

4 Use the pen tool to finish off the land and sea areas by clicking on one of the endpoints and completing the box. You can now fill the land and sea areas with appropriate colours. This is one of



many ways of producing coastal areas. You could create a rectangle for the sea and overlay it with the coastal outline on the land layer, or use the Divide pathfinder filter to divide a rectangle in two with a coastal path. Having filled the land and sea you now cannot see your map scan, so select Artwork mode from the view menu.

5 Create a new layer and call it roads. As with coastline, the new pencil tool is great for creating roads — the pen tool can be used as well. Trace off all the roads with a 2pt black-stroked path and check all the intersections, ensuring the paths join neatly. Turn off all the other layers, press Ctrl-A to select all the roads and duplicate them using Objects/Transform/Move/Copy and set a new stroke width of 1pt white.

6 You may need to do some cleaning-up at the junctions, but you should now have a network of 1pt white roads with a 0.5pt black outline. If you need to edit any of the road paths, it's simpler to

MAPPING WEB SITES

www.garmin.com/cartog.html

Cartographic information from the GPS people.

www.digiwis.com

Producer of Mountain High digital maps.

www.ocad.com

Ocad is a shareware mapping program we looked at in Hands On last year. You can get it from this web site.

www.mapsinminutes.com

Telephone 01840 212135

www.cartography.org.uk

BCS is regarded as one of the world's leading cartographic societies and its web site promotes all aspects of cartography.

<http://acorn.educ.nottingham.ac.uk/ShellCent/maps/>

These web pages summarise a research project that set out to discover some of the factors that make maps easy to read and use.

<http://www.pcug.co.uk/~MapMaker/>

The web site of MapMaker Ltd, developer of MapMaker Pro software reviewed in PCW February 1997.

The web site has shareware, free maps of the world and the UK, plus mapmaking articles.

<http://www.geo.ed.ac.uk/home/giswww.html>

This is a comprehensive index of web sites likely to be of interest to map makers. It's maintained by Bruce M Gittings and Anup Pradhan at the Department of Geography, University of Edinburgh, in collaboration with the Association for Geographical Information.

<http://www.shef.ac.uk/uni/projects/sc/index.html>

The Society of Cartographers. This web site is not yet available, but it will be starting a PostScript library of copyright-free maps. FTP archive also includes free software downloads including specially designed cartographic fonts.

<http://uk.multimap.com/partners.htm>

Multi Media Mapping has created an interface that enables web-site designers to include maps in their web pages. You just put the full UK postcode in a URL, and Multi Media Mapping will return a map showing the location of that postcode.

get rid of the white overlay, edit the black and then re-duplicate it. I've tried simplifying things using Illustrator's new art brushes to create a "road" brush, but this doesn't work too well because the black outline stroke doesn't maintain a consistent width. If anyone knows why this is, I'd be glad to hear from them.

7 You can add other geographical features — railways, footpaths, boundaries, etc — in the same way. Using a separate layer, editing is easier and you can switch individual features on or off to customise your maps. If you're creating maps with boundaries it's often useful to create a filled object for each segment and have overlapping common borders. The easiest way to do this is to create the overall outline, draw in the borders and then use the pathfinder filters to carve up the cake.

Just a minute!

If you want maps without the effort, there are a number of vendors who provide detailed maps in PostScript format. Some of the best are produced by Maps in Minutes (MIM). MIM products include maps of the British Isles at 1:5 million, 1:2 million, 1:1 million and 1:750,000 scales. There's also a vast selection of world maps at various scales and projections. MIM provides more detail than you're ever likely to want and intelligent use is made of layers, so if you don't want a grid, water features, small towns or the Channel Tunnel, you can just turn them off.

If you've a lot of map work to do, MIM could be a big timesaver. The only drawback I see is the licensing arrangements. Though no more restrictive than that from the OS, it's not exactly a "pay once and do what you like" affair. There's an annual licence fee, a requirement to publish a copyright credit, and restrictions on sales to third parties and book, magazine, CD and internet publishing. MIM supplies files in Illustrator or Freehand format. The MIM people are very accommodating and a phone call will provide the answers to any questions you have about formats or anything cartographic.

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Pulling faces

Ben Woolley gets to grips with NURBS, which are about to hit mainstream 3D graphics.

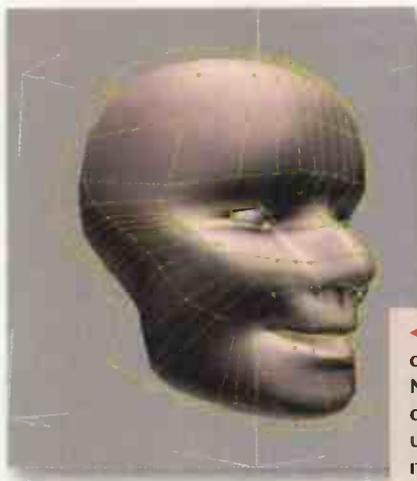
NURBS. It sounds like an expletive. It is, in fact, an acronym for Non-Uniform Rational (or Recursive) B-Splines, which is not much prettier and even less descriptive. Nevertheless, NURBS are now everywhere. Once, they only appeared in top-end 3D products such as Softimage. Newtek's Lightwave has them, but they did not reach Kinetix's 3D Studio MAX as a standard component until version 2. However, they are now beginning to migrate downmarket and the latest release of Caligari's trueSpace version 4 features a basic but effective implementation of them. NURBS, in other words, are about to join the 3D graphics mainstream.

So what are they? Technically speaking, they are mathematical entities used to describe the geometry of a curve or surface. 'Rational', for example, refers to a property of the equations used to generate them. 'B-splines' (basis-splines, in full) are a method of constructing curves: Bézier curves, familiar to anyone who has manipulated the shape of a curve using the two handles either side of a vertex, are a sort of B-spline. In simpler terms, NURBS are shapes or surfaces that can be sculpted like pieces of elastic using control points scattered across their surface. This makes them ideal for creating curvaceous objects. They are frequently used in product design, for example to design the bodywork of a concept car, but can be used for more organic shapes.

The example shown in Fig 1 is a face created by using NURBS. It is a version of a model supplied with the excellent but expensive Inside 3D Studio MAX 2. The shape itself can be generated in a number of ways, in this case possibly by using a primitive (a sphere) and then converting it into a NURBS surface.

Once converted, you no longer have a collection of faces and vertices but a lattice of 'control vertices', or CVs (in 3D Studio MAX-speak). These hover like a sort of exoskeleton above the surface, shown as yellow in Fig 1, and the CVs

are at the intersections of each line. By selecting a single CV, or a group of them, you can manipulate the shape. CVs do not necessarily sit on the surface of the object they control but often hover above it. As you tug them out, they pull away from the surface like magnets being



◀ Fig 1 A 3D HEAD CREATED USING NURBS. THE LATTICE OF YELLOW LINES IS USED TO MANIPULATE ITS SHAPE

pulled away from the surface of a pool of mercury. CVs can also be given different 'weights' which influence the pull they have on the surface they control. A higher weight produces a stronger pull.

NURBS modelling is a bit like clay modelling. Using the CVs, you press in and pull out bits of the object, gradually refining it into the shape you want.

Following the example in the 3D Studio MAX 2 tutorial, I tried to open and close the mouth of our Fig 1 model face. Compared with conventional techniques for editing meshes, using NURBS made this relatively easy. The biggest challenge was choosing the right CVs. I selected the ones clustered around the lower lips and jaw. Then, by moving the selected CVs down and rotating them slightly, I produced the results shown in Fig 2.

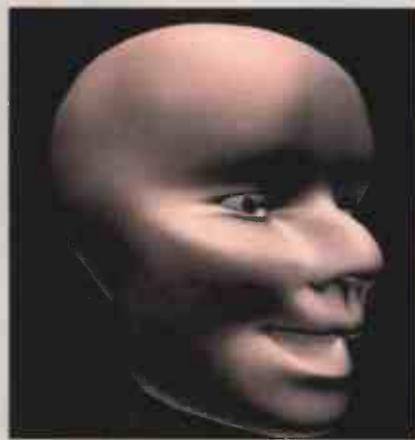
I also tried a little plastic surgery on other parts of the head — reducing the size of the nose, the prominence of the chin, and so on. These attempts highlighted one of the difficulties of editing using the CVs. Any transformation (movement, rotation, scaling) applied to

a selection of CVs obviously applies equally to all of them. Unfortunately, with an entity as elastic as a NURBS object, what you really want

is some form of soft-edged selection which applies transformations to CVs with less force on the edge of the selection than in the centre. Using 3D Studio MAX, you can achieve something like this by lowering the weight of the CVs on the edge of the selection set. However, this is a complicated process which does not always produce the anticipated results.

FIG 2

Sequence (left to right) showing the animation of the head's jaw dropping



I spent some time using NURBS both with 3D Studio MAX 2 and trueSpace 4, and the experience was an instructive one. 3D Studio MAX's implementation of the technology is complex and poorly covered in the documentation. The attempt to give the user as much flexibility as possible has resulted in a very unintuitive set of tools which I was unable to master even after a week or so spent struggling with them.

In contrast, trueSpace made the whole process simple: create a rough outline of an object, turn it into a NURBS surface with the click of an icon and start fiddling with the geometry using the simple point-editing tools.

Both packages crashed spectacularly while I was using the NURBS tools and 3D Studio MAX managed to bring the whole system down. This may have been because these are new facilities in the software and the code has not yet been fully debugged. I suspect it may also have something to do with the extremely complicated mathematics underlying the technology. Whatever the cause, you obviously have to proceed into the world of NURBS with some caution and a lot of determination.

Out and about

The conference season began last November with two graphics shows: one in the UK, the other spread across the globe. The former was Digital Media World (Britain's attempt at a SIGGRAPH) held at the Wembley Conference Centre. This year's line-up included an interesting range of

NURBS: useful books

- *Inside 3D Studio MAX 2* by George Maestri et al. Published by New Riders. The chapter on NURBS is in Volume III, which costs £34.59.
- *The Nurbs Book* by Les Piegl and Wayne Tiller. (Springer, £56).

- *Interactive Curves and Surfaces: A Multimedia Tutorial on Computer Aided Graphics Design* by Alyn Rockwood and Peter Chambers. Published by Morgan Kaufman, £35.66. Prices quoted are from amazon.co.uk

speakers, including the artist Gerald Scarfe. However, the exhibition itself featured no major announcements, reinforcing the feeling that if you want to go where the action is, you have to go to SIGGRAPH in Los Angeles — a more inviting venue than Wembley, anyway.

A more interesting and innovative event was Avatars98, a truly virtual conference; the primary venue being a

generated using ActiveWorlds technology (covered in the February 1997 column, and also see www.activeworlds.com for details). Showing a slight but probably sensible lack of imagination, the organisers created a space that looked like a cartoon imitation of a conventional exhibition hall [Fig 3]. The main difference was that delegates could be found floating around in the air, or



◀ Fig 3 THE AVATARS98 VIRTUAL EXHIBITION HALL



◀ Fig 4 'SUMMER' BY VICTORIA D'ONOFRIO AND RODY GALEANO, WINNER OF THE AVVY AVATAR OF THE YEAR AWARD

wandering along the aisles. The highlight of the show was the Avvy Award, announced online at one of the virtual stands, for the best design of avatar. The winner was 'Summer', by Victoria D'Onofrio and Rody Galeano

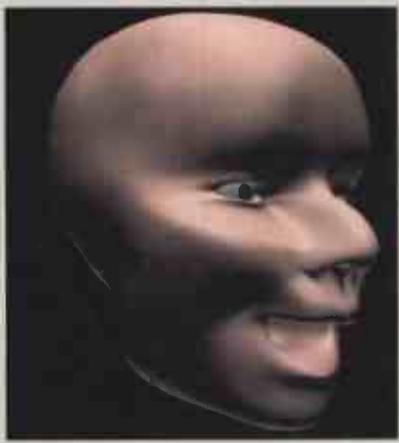
shared 3D space created on the internet. There were ancillary physical venues, too, located in a number of different countries. As the name indicates, the focus of Avatars98 was avatars, the 3D figures which act as your virtual presence when you enter a shared space. The show also dealt with other aspects of creating and maintaining virtual worlds.

The venue for Avatars98 was

of My2Keys and Netropolis [Fig 4]. At the time of writing, there was a report on Avatars98 at www.ccon.org/conf98/index.html

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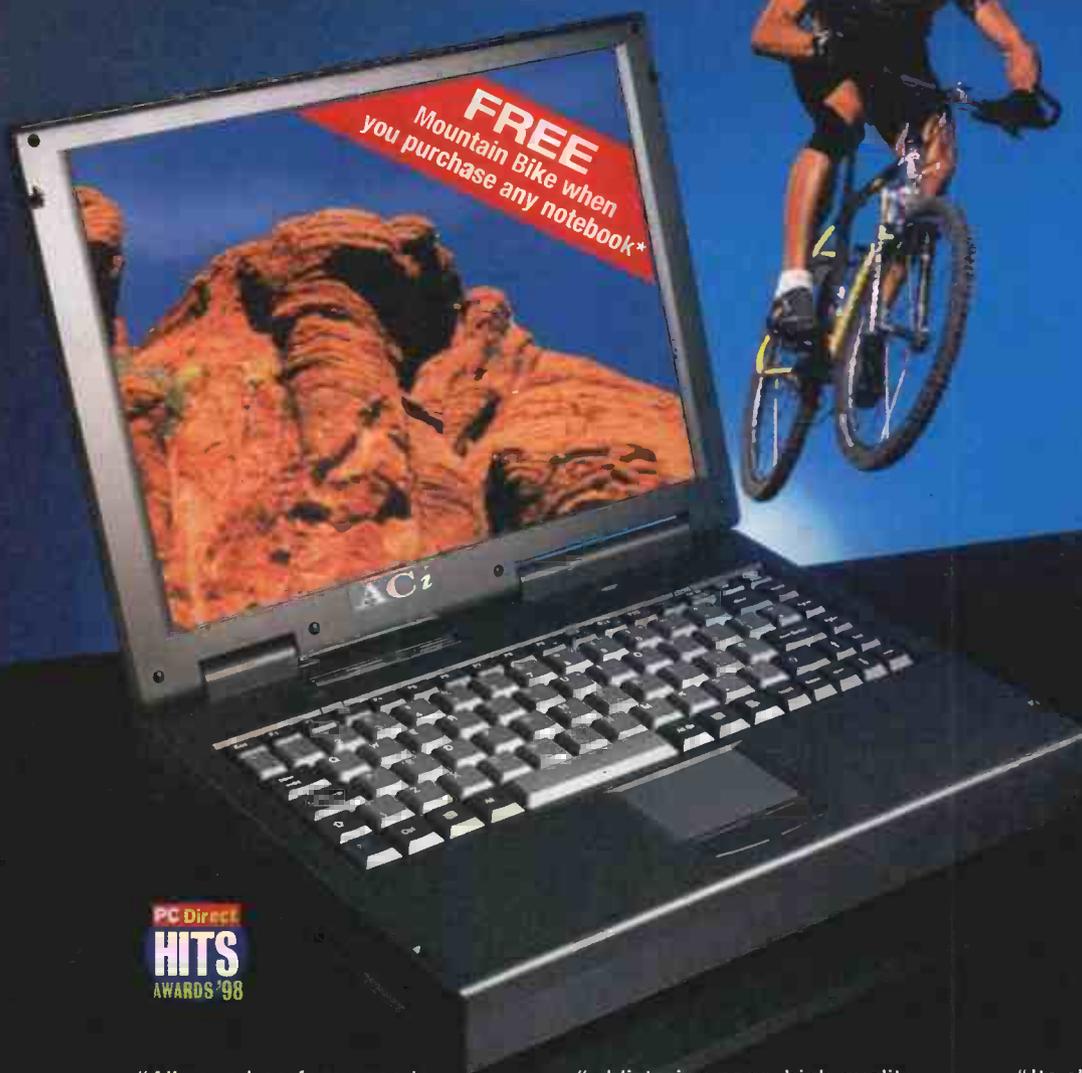
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visual programming

Error message

Software is getting **more difficult** to install and use, and Tim Anderson is not amused.

In 1993, Visual Basic 3.0 was as revolutionary for programmers as the graphical user interface was for users. Used sensibly, it was reliable, powerful and above all easy, especially compared to the intricacies of Windows development in C. Six years on, and with vast increases in both processing power and storage space, you'd think that programming would be even more accessible.

So what's gone wrong? Something has, because as a software reviewer I notice that software is increasingly difficult to install, once installed it's less reliable, and when an application is completed, deployment is more difficult than it was in 1993. I recently struggled to install a development suite with a four-figure price tag, documentation in a mish-mash of Windows help, HTML and a proprietary format, and with a setup routine that had no chance of completing without errors. It's strange, because in terms of features Visual Basic 6.0, for example, is vastly improved on its six-year-old counterpart. So is Delphi 4.0 when put next to Delphi 1.

The first problem seems to be that despite the best efforts of Microsoft and Inprise, the extra layers of complexity needed to provide those features are detrimental to performance and reliability. The second problem is that Windows itself has version control and registry difficulties that are not going away, although the next Windows NT might be improved. The third point is that the advent of the web and distributed computing has introduced a new set of development issues, without removing many of the old ones. Fourth, commercial pressures and the ease of web updates cause many vendors to release products that strictly should be beta or even alpha releases.

Is Java the answer? It could be, as the language itself is more productive than most alternatives. Java has its own problems though, and despite the hype Microsoft's enhancements aren't the

➤ Oops! VSForum
FALLING AT AN EARLY HURDLE

main ones. Two bigger issues are performance and pace of change as Sun releases a constant flow of new APIs. Java development tools like

VisualAge and JBuilder are even worse than Visual C++ when it comes to making a fast Pentium run like an old 386.

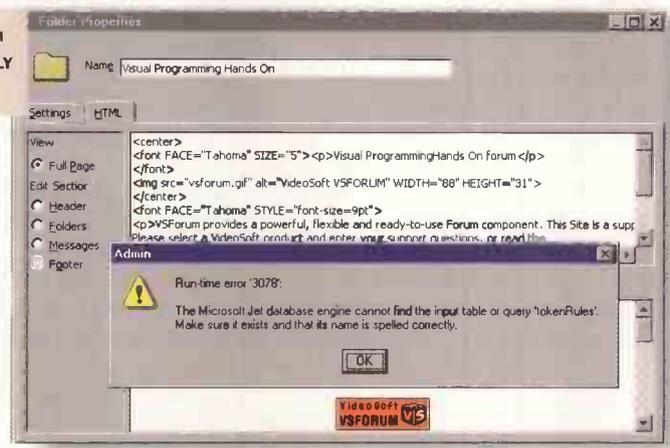
I've no desire to return to Visual Basic 3.0. Distributed, object-orientated, web-based applications are the future, and exciting possibilities abound. But things have to change before the world's software ceases to work, not because of the millenium bug, but in an avalanche of incomprehensible error messages.

➤ Forum for discussion

VideoSoft has an excellent set of products; however, VSForum is disappointing. Described as a server component, it's a new angle on the add-in scene, being a server-side component for ASP (Active Server Pages) rather than the usual ActiveX control. Active Server Pages are an extension to Microsoft's Internet Information Server for creating dynamic web sites.

VSForum provides an instant discussion forum, using an ActiveX DLL to store messages in an Access database, serving up the data as HTML to create hyperlinked discussion pages.

Sadly, VideoSoft has abandoned

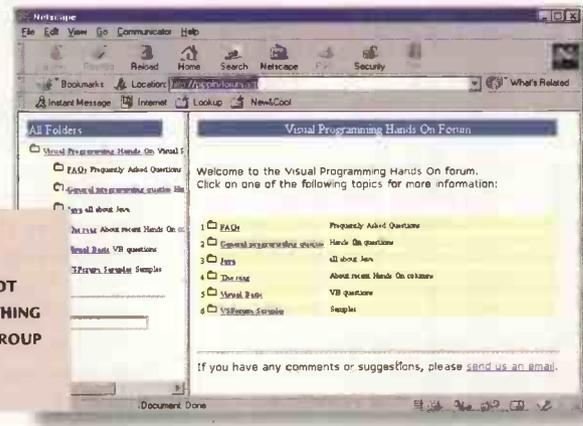


its printed manual, but it installed easily onto an NT server already loaded with IIS and all the ASP extensions. That is, until I made some edits to the demonstration discussion page — the admin utility presented an unhelpful message and exited without saving any changes. It's a known bug, fixed in the later release on VideoSoft's web site.

Perhaps more serious than the error itself, though, is the admin utility, which appears to be written in VB and lacks the error handling required to catch the error and exit gracefully.

It's as well I downloaded the latest version, as certain features like message threading, probably considered essential in discussion software, weren't implemented in the first shrinkwrap release. The patch was 5Mb, most of which was duplicate Microsoft runtime library files. It does work though, and I

➤ THE FIXED VSFORUM: NOT BAD, BUT NOTHING LIKE A NEWSGROUP





CROSSING THE PROCESS BOUNDARY

Ian Gregory has written in with a problem: "Using Delphi 4 I've been writing an editor, and I've set up the project source so that only one instance can be run at a time, using some code from Inprise's Delphi developer support site. This now means that if the user tries to run a second instance, that instance is terminated and the first brought to the front. If the second is invoked via a file association, the first instance is brought to the top but has no way of knowing that it must load a file. I've tried using SendMessage to send the command line of the second instance to the first, via a PChar typecast as an integer. Although the first instance receives the message, it cannot be used to open a new editor window. Is there a way around this?"

Only one instance of Ian's application, which is probably MDI (Multiple Document Interface), should ever be needed. As Ian states, attempting to start another instance brings the first instance to the front. This works fine using a mutex (see main text, below). But what if the second instance is started with a command-line parameter, such as when the user double-clicks the associated document type in Explorer? Now the second instance has to pass a string parameter

to the first instance. The problem is, each instance has its own process and its own address space. Strings are pointer types, but pointers are only valid within a process. If you follow Ian's example, the second instance will receive an address which it cannot easily access, or most likely attempt to use random data in its own address space.

One thing is puzzling. Why is it that you can successfully pass a PChar typecast as an integer with a message like WM_SETTEXT? You can use FindWindow to obtain the handle of another instance of your application, and use SendMessage to set the caption of its main window. If this works (which it does), why can't you do the same with your own custom message? Because messages like WM_SETTEXT are a special case. For compatibility with 16-bit Windows, where applications all share one address space, the API copies the data across the process boundary. If you trap the message when it arrives in another process, you'll find the integer value of the pointer has changed; the pointer that arrives isn't the pointer you sent. There are no such special favours for your own custom message. If you use this technique, be sure to use SendMessage, not PostMessage.

PostMessage will free the string before the message gets processed.

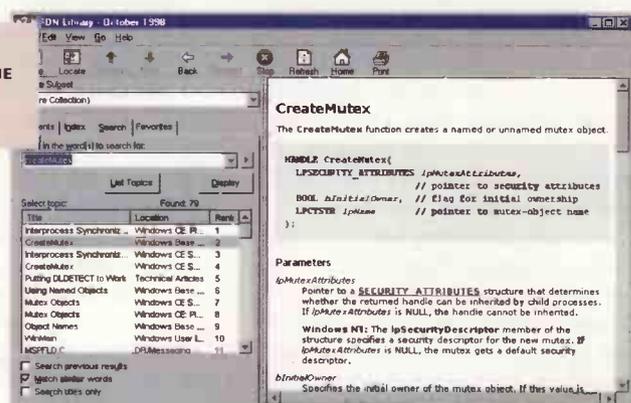
The solution for Ian is to find a way of passing data between processes. There are a bewildering variety of ways to do this, including COM automation. One easy way is to use WM_COPYDATA. This message exists precisely for the purpose of copying data across process boundaries. It's particularly useful because it works between 16- and 32-bit applications. Fig 1 (p270) is an example. For this to work, place a call to UseWmCopyData in the initialisation part of an application's main form unit. Build the application and run two instances. The second instance will update the form caption of the first, using WM_COPYDATA.

I've used FindWindow for the sake of brevity — it's not the best approach. It may not catch two instances started near-simultaneously, as the window may not have been created. Best to use a mutex to discover if another instance is running, and if it is, exchange custom messages to find its handle. You can use the handle of the main form, as here, or use the application handle, which is the handle of the hidden window used by every VCL-based Delphi application.

successfully created a discussion which worked in both Netscape and Internet Explorer. A good point is, it was easy to search messages and display results. One bad point is that the administration is not web-based, so you have to do it at the server where VSForum is installed. Another is that the Forum is fairly slow retrieving and displaying messages, probably because using Access via ODBC is sub-optimal. Furthermore, there's a better way to do discussion groups and that's with a private news server, although it's more complex to set up. Finally, VideoSoft wants a licence for every forum you set up, whereas FrontPage comes with an unlimited discussion web wizard that performs better and costs less. VSForum is a little more flexible than the FrontPage

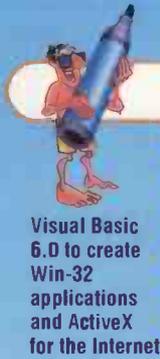
discussion wizard, thanks to a set of tokens which let you edit the discussion pages' content, but most will find FrontPage or other options better value. I'd feel differently if VideoSoft supplied the full source to the ActiveX DLL so users could customise VSForum, but it's not there. ActiveX components are a great idea, but this one's not VideoSoft's finest hour.

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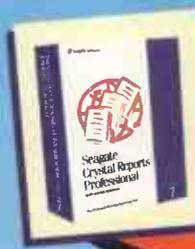


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**[FIG 1]****Using WM_COPYDATA**

```
{start of unit omitted}
type
 TForm1 = class(TForm)
protected
 procedure WMCopyData(var Message: TMessage); message -
 WM_COPYDATA;
end;

var
 Form1: TForm1;

implementation

{$R *.DFM}

procedure TForm1.WMCopyData(var Message: TMessage);
var
 filename: string;
 cds: CopyDataStruct;

begin
 cds := CopyDataStruct(pointer(Message.LParam)^);

 filename := strpas(pchar(cds.lpData));
 form1.caption := filename;

 Message.Result := 1;
 {don't call inherited message handler}

end;

procedure UseWMCopyData;
var
 hTarget: hwnd;
 lpzFileName: pchar;
 cds: copydatastruct;
 lResult: integer;

begin
 hTarget := FindWindow(nil, 'My Application!);

 if hTarget > 0 then begin

 lpzFileName := stralloc(256);
 try
 strcpy(lpzFileName, 'This is a new file name');
 cds.dwData := 0;
 cds.cbData := strlen(lpzFileName)+1;
 {length of string including null terminator}
 cds.lpData := lpzFileName;
 lResult := sendmessage(hTarget, WM_COPYDATA, application. -
 handle, integer(@cds));
 {must use sendmessage}
 finally
 strdispose(lpzFileName);
 end;

 if lResult <> 1 then
 showmessage('Operation ^
 failed');
 end;

end;
initialization
useWMCopyData;
end.
```

[FIG 2]**Preventing a multiple instance**

Place this code at the end of the main form unit:

```
initialization
hMutex := openmutex -
 (MUTEX_ALL_ACCESS, False, -
 'Visual Programming -
 Hands On');
if hMutex <> 0 then begin
 showmessage('Already -
 running - bye!');
 application.terminate;
end
else
begin
 hMutex := createmutex -
 (nil, False, 'Visual -
 Programming Hands On');
if hMutex = 0 then -
 showmessage('Error creating -
 mutex');
end;
```

Mutex objects are like traffic lights. Their only powers are first, to be seen, and second, to change state. Their visibility is high because they're global to the system.

A mutex is identified by a unique string. Having decided on a string, you call `CreateMutex` for a handle to a new or existing mutex object, or `OpenMutex` for an existing one. The mutex object is destroyed when the last handle to it is closed. Handles can be specifically closed with `CloseHandle`, or the system will destroy them when the process that created them terminates.

Mutexes are primarily used when synchronising threads. A mutex can be either signalled or nonsignalled. If it's signalled, a thread can call a wait function such as `WaitForSingleObject`, get ownership of the mutex, and set its state to nonsignalled. Other threads calling the same function will have to wait until the first thread has released the mutex before they can get ownership.

If you want to prevent multiple instances of an application, you don't need wait functions. Check for the existence of a mutex identified by your unique string. If it exists, then only another instance can have created it. If it doesn't exist, create it and run.

Fig 2 shows Delphi code.

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Tim Anderson can be contacted via the
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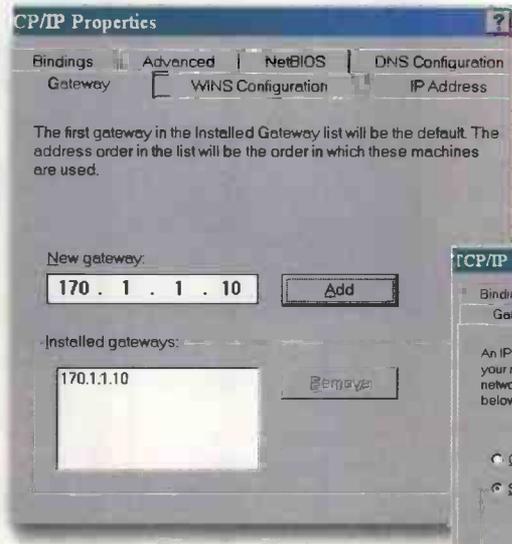
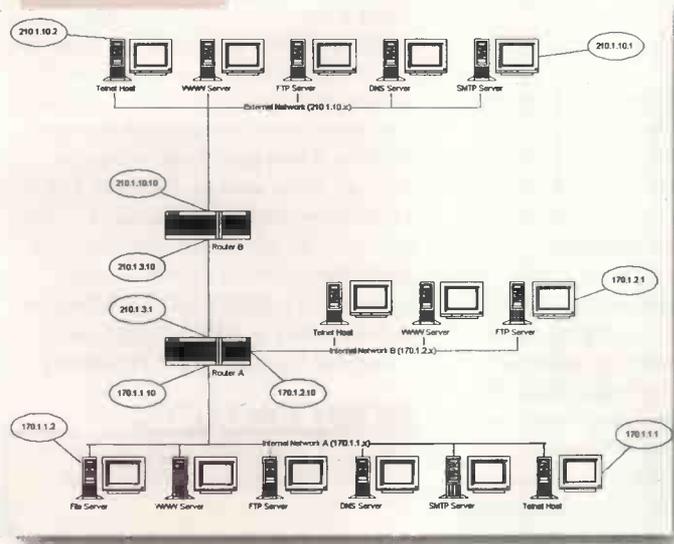
Routers are the key to transporting data over a network. Bob Walder hitches a ride.

In past issues I've covered the mysteries of IP addressing and the differences between bridges, routers and switches. This month I'm going to try and pull things together by explaining how routers use IP addresses and subnet masks to determine where your data packets finish up. We'll also learn the significance of that magic parameter in your Windows protocol set-up, the default gateway.

Take a look at our network diagram [Fig 1]. This basically attempts to show a corporate network with two segments joined by router A; segment B uses the addresses 170.1.2.x and segment A uses addresses 170.1.1.x. The netmask for all of these is 255.255.255.0, and if you cast your mind back to the previous piece on IP subnetting, you will recall that segment A can consist of addresses 170.1.1.1 to 170.1.1.254, while segment B addresses the range from 170.1.2.1 to 170.1.2.254. Only the final octet changes within each subnet with this netmask (as indicated by the final 0), so as soon as the third octet changes (from 1 for subnet A to 2 for subnet B) it

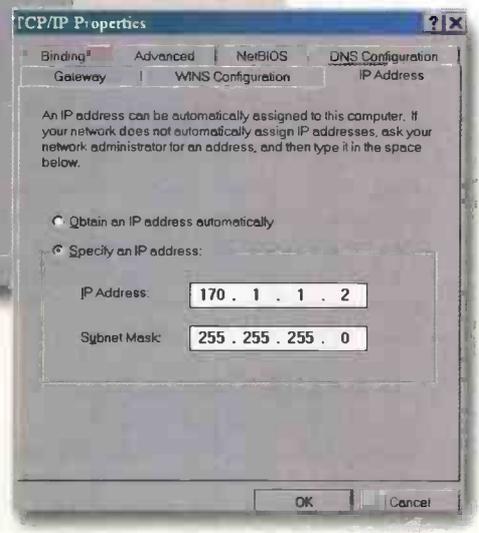
indicates to any router that the device is on a different subnet.

▼ FIG 1 NETWORK DIAGRAM DISPLAYING THE ROLE OF A ROUTER



◀ FIG 2 SETTING THE DEFAULT GATEWAY THROUGH WINDOWS

▼ FIG 3 SETTING UP AN IP ADDRESS AND NETMASK



→ Configure it out

So, how do we configure devices on segment A? The file server at the end would have an IP address of 170.1.1.2, a netmask of 255.255.255.0, and a default gateway of 170.1.1.10 [Fig 2]. The default gateway points to the port of the router that is attached to the local subnet. If the file server (170.1.1.2) communicates with the Telnet host (170.1.1.1), the fact that the first three numbers are the same tells it that the destination machine is on the same subnet, and it is not necessary to bother with the default gateway. Our source machine thus uses something called ARP (Address Resolution Protocol)

to determine the MAC address of the destination machine (it needs this in order to transmit the packet). The file server sends out an ARP broadcast with the IP address of the Telnet host, and the Telnet machine responds with its own MAC

address. To prevent too much of this sort of traffic, each machine keeps such resolved addresses in an ARP cache for future reference. Once the MAC address has been resolved, direct communication can begin between the machines.

Now say our file server wants to communicate with the FTP server on segment B. This time it compares IP addresses and sees that 170.1.2.1 is actually on a different subnet to 170.1.1.2, because the third number of the address is different. At this point, it knows the packet needs to be handled by a device that knows more about the network topology than it does — the router (or default gateway). So, it ARPs for the MAC address of the default gateway, which is 170.1.1.10 in this case, and sends the packet on its way.

Routers are incredibly complex devices, but what they do can be boiled down quite simply: they direct traffic. Like a traffic cop, the router takes packets in from its various ports, checks on their destinations, and sends them off to the appropriate outgoing port. In our case, the router spots that 170.1.2.1 is actually on its second port



by comparing addresses and netmasks again, and so it sends the packet directly to the FTP server.

Two's company

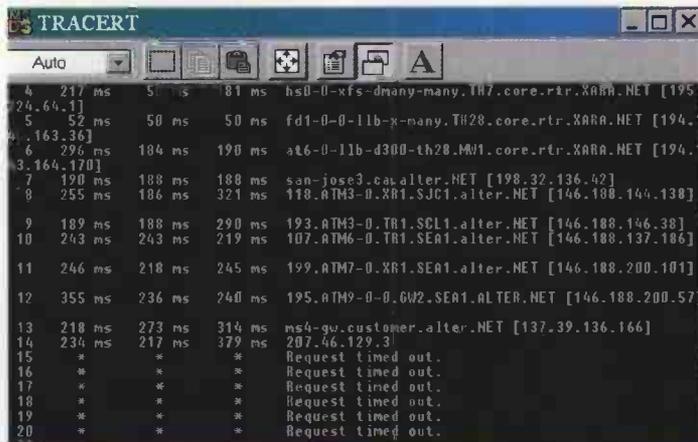
OK, so that has dealt with routing packets within an organisation where the addresses are known. When it comes to connecting our network to the internet, however, there is more than one router involved. In fact, there are millions of the things spread around the world, but we are particularly interested in two: the one at our site and the one at our ISP. Of course, if you wanted to attach a small network to the internet, you could use a proxy server and have all your users go through that: this way, you can often get away with a single-user dial-up account to support a small network. However, we are assuming here that you have opted for a full-routed connection, and so you have to make sure that your router and the ISP router know about each other.

Your ISP will provide you with an address and netmask for the router at its own site [Fig 3, p271] and this is what you need to enter into your own router to enable it to speak to the outside world. What you do, in fact, is create another subnet, this time between the external port of your router and your ISP. In our diagram, this small subnet consists of just two devices: the external port of our router is 210.1.3.1, and the appropriate port of the ISP router is 210.1.3.10. What we effectively do is tell our router that its default gateway is 210.1.3.10, and that is where it will send all the packets it doesn't know how to deal with directly.

The right address

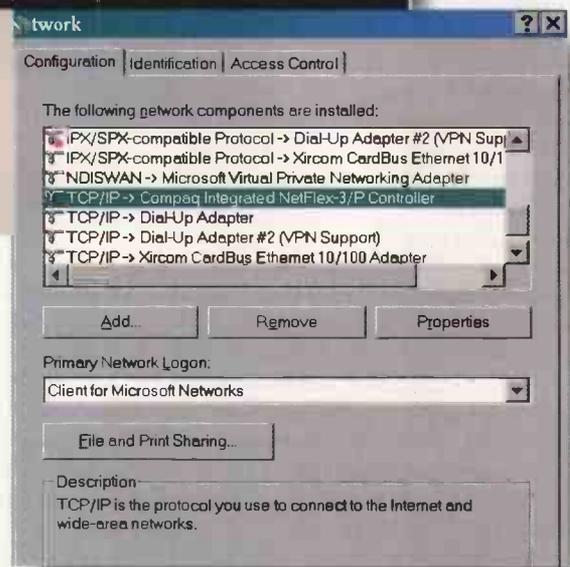
OK, so now our file server wants to communicate with the SMTP server 210.1.10.1 somewhere on the internet (in this case it is actually at our ISP, to keep things simple). It compares IP addresses and determines that the device is not on the local subnet, and so sends it to the default gateway address. Router A checks the address and notes that it doesn't correspond to any of the subnets attached to it directly. So if the router is stumped, what does it do? It sends it to its own default gateway (210.1.3.10), just as the file server did.

Now router B has the packet, and it takes a look at the IP address and sees that 210.1.10.1 is actually on the same



▲ FIG 4
A SAMPLE TRACERT OUTPUT

NETWORKING CONFIGURATION APPLLET FROM THE CONTROL PANEL



subnet as its internal port — 210.1.10.10. It can thus ARP for the MAC address of the SMTP server and deliver the packet directly. Each time a packet traverses a router in this way it's known as a "hop", and the number of hops a packet has to make determines how quickly you receive your data.

Try dropping to a DOS box under Windows and typing TRACERT MICROSOFT.COM. You'll get a display similar to that shown here [Fig 4], with each hop represented by a new router. As you can see, it is sometimes a long, tortuous and slow route to Microsoft!

RIP it up

Of course, given the size of the internet, or even a large corporate network, routers need more than just a 'default gateway' to go on if packets are to find their way from point A to point B some time this week. Routers learn about the network automatically using something called RIP — Routing Information Protocol. This is used to allow routers to tell each other about the segments they are attached to and the addresses they know about. This is done by 'advertising' what they know across the network, whereupon each of them listens and updates its own routing tables accordingly. This is what makes the internet so resilient. Should any router fail

for whatever reason, it will stop advertising and the routers that were communicating with it directly will start to find other ways around it. This dynamic change in network topology is completely automatic and is called 'convergence'. Finally, it's also possible to 'tell' a router about a specific route between two points, and these are called 'static routes'.

Hopefully, between this and the IP addressing/subnetting tutorial you have enough information to create your own IP network and get it attached to the internet. If you want to delve into TCP/IP a lot deeper than I have the space to here, you could do worse than check out the book *Windows NT TCP/IP* by Karanjit Siyan (ISBN 1-56205-887-8). Published by New Riders, it costs £26.95 from Computer Manuals (0121 706 6000).

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Bob Walder can be contacted via the PCW editorial office (address, p10) or email networks@pcw.co.uk

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|---------|-----|---------|

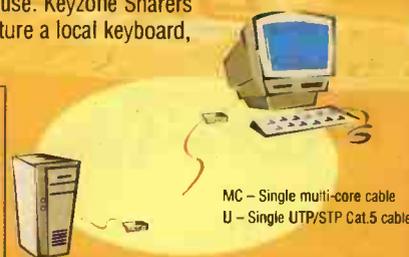
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To Be OS not to Be?

BeOS 4 is impressive, but Cliff Joseph wonders whether it has **missed the Mac market.**

We've been waiting ages for the final version of BeOS to be released, but now that it's here, it seems that the Mac version may effectively have been killed off by Apple. Be Inc. recently launched Release 4 of BeOS, the operating system on which it has been working for most of this decade. As the name suggests, there had been three previous releases, but these were primarily intended for developers in order to encourage them to write software for the operating system. Release 4 is the first version that is actually intended for public consumption.

Be Inc. is a small company, set up in 1990 by Jean-Louis Gassée, a former top executive at Apple. Gassée wanted to develop a next-generation operating system that was designed from the ground up to cope with "high-

▼ **THE MULTI-THREADING BEOS CAN RUN MULTIPLE AUDIO, VIDEO AND GRAPHICS APPLICATIONS SIMULTANEOUSLY**

bandwidth" applications such as video editing, multimedia and 3D graphics. When it was first announced, BeOS did sound truly innovative.

It was intended to offer features such as multitasking, multi-processing, and object-orientated development tools. These were features that were not available on either the Mac or PC platforms at the time; even now, they're still not available on the Mac. Back then, it was clear that multimedia and 3D were developing into important technologies, so there was a definite gap in the market for BeOS. And, since the Mac dominated the graphics and video markets, Mac users were the obvious target audience for this new operating system. Mac users are famously loyal to their Macs, though, so it's interesting to look at this long-awaited rival and see what it has to offer.

➤ **Be yourself**

From a technical point of view, BeOS is undeniably impressive. Its graphical user interface looks like a kind of halfway house between the MacOS and Windows, but Mac users should have little trouble getting to grips with it. In fact, if you've recently upgraded to MacOS 8.5 you'll probably feel quite at home with Be. There are a number of

features in BeOS, such as the Tracker menu, that are directly comparable to features in MacOS 8.5. But it's really the underlying architecture of BeOS that is its main selling point. Its efficient multi-threading allows it to perform several tasks at once. Demos generally show it running several different QuickTime video clips simultaneously. You can move video clips around on-screen without interrupting playback, and you

BeOS is incompatible with Macs based on the PowerPC G3 processor

can drag a video clip onto a 3D model so that the video continues to play while wrapped around

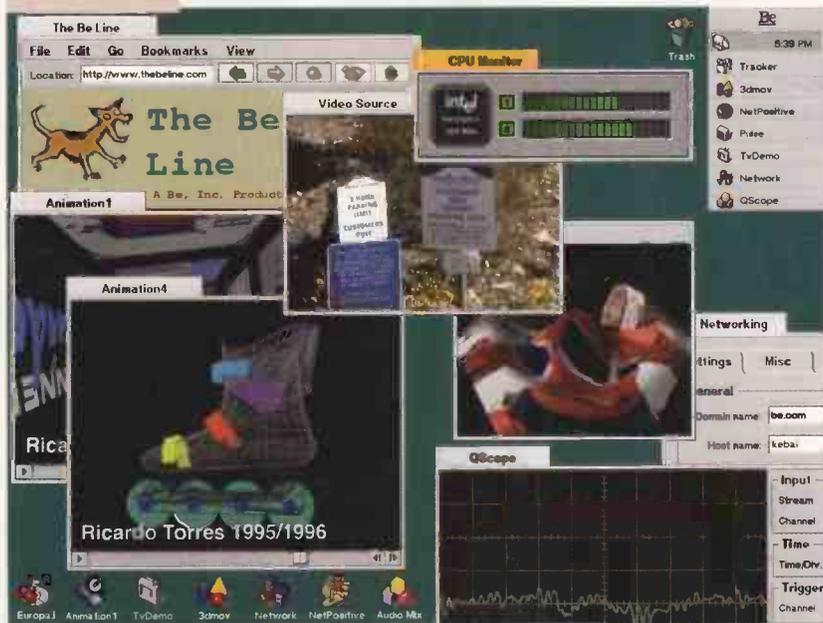
the surface of the model. BeOS has a 64-bit file system, which allows it to support terabyte file sizes. These features mean that BeOS is far more efficient at handling large media files than either the MacOS or Windows.

➤ **Testing time**

We tested BeOS Release 4 on a PowerMac 9600 with a 200MHz PowerPC 604e processor. This is quite an old machine and not very powerful compared to the latest G3 Macs, but it managed to run four QuickTime movies on-screen, simultaneously. I doubt the machine would have been able to do this if it were running the standard MacOS.

An interesting new feature in Release 4 is the Media Kit, which allows you to automate workflow processes. You could set up a routine that automatically imports a video clip, applies a filter, recompresses the clip and then saves it onto hard disk.

Be has also incorporated the OpenGL graphics library into the operating system. This will appeal to 3D designers, as well as making it easier to produce Be versions of games like Doom and Quake. In fact, it might even make it easier to produce games for BeOS than for the Mac because Apple just doesn't seem to know what to do about OpenGL. There's no doubt that the sheer performance and versatility of BeOS will be very appealing to graphics, video and audio professionals. There's even an impressive range of audio,



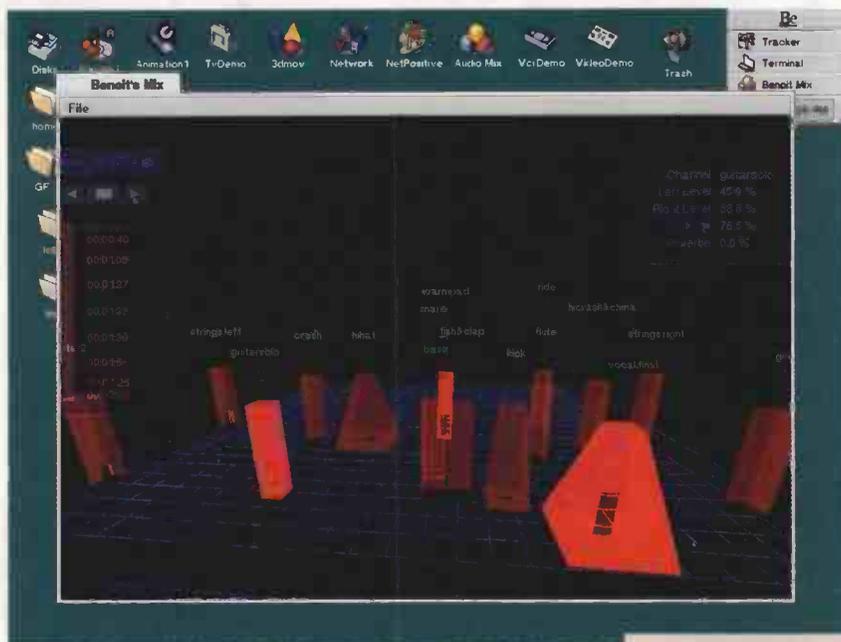


video and graphics programs being developed for it. Unfortunately, it's taken so long for Be to get the operating system ready, that it may have missed its chance to win over converts from the Mac platform.

✦ X marks the spot

Later this year, Apple plans to release OS X, which will be a landmark for the MacOS and should provide the Mac platform with many of the features that currently make BeOS so attractive. In addition, OS X will be compatible with most of the current generation of Mac software, which will mean that it has a far larger software base than BeOS. If the performance of OS X lives up to expectations, Mac users may simply have no need for BeOS.

The biggest problem for BeOS is that it is incompatible with Macs based on the PowerPC G3 processor. The reason for this is simple: Apple will not give Be the technical information it needs to ensure compatibility with G3 PowerMacs. This has not stopped the Linux community producing a version of Linux that runs on G3 systems, but Be claims that there are legal issues preventing it from reverse-engineering a G3 version of BeOS, and that Linux doesn't face these problems



▲ **BEOS MULTIMEDIA APPLICATIONS INCLUDE THIS 3D VISUAL AUDIO MIXER**

because it is not a commercial product. So, without Apple's help, the BeOS simply won't run on currently shipping Mac models, nor on any Macs that are likely to ship in the future.

It's true that there are a lot of designers out there who still use older PowerPC systems, but you can bet your

boots they're going to upgrade to G3 as soon as their budgets allow. This means that BeOS is almost certainly dead in the water as far as the Mac platform is concerned. That's a shame; but the commercial reality is that Apple isn't going to do anything which might encourage a rival operating system.

MAC COMPATIBILITY

Without support from Apple, BeOS is incompatible with all current PowerMac G3 models. However, it should be compatible with most Macs based on the PowerPC 603 and 604 processors as long as they have PCI motherboards. Macs that use the NuBus architecture are incompatible with BeOS.

| System Name | BeOS Compatible? | Processor |
|--------------------------------|------------------|-----------|
| Power Mac G3 (all) | No | G3 |
| Power Mac 9600/300 (or faster) | No | 604 |
| Power Mac 9600/250 (or slower) | Some models* | 604 |
| Power Mac 9600 MP | Yes | Dual 604 |
| Power Mac 9500 | Yes | 604 |
| Power Mac 9500 MP | Yes | Dual 604 |
| Power Mac 8600/300 (or faster) | No | 604 |
| Power Mac 8600/250 (or slower) | Yes | 604 |
| Power Mac 8500 | Yes | 604 |
| Power Mac 7600 | Yes | 604 |
| Power Mac 7500 | No | 601 |
| Power Mac 7300 | Yes | 604 |
| Power Mac 7200 | No | 601 |
| Power Mac 4400 | Yes | 603 |

*Power Mac 9600 models are based on two possible motherboard designs, only one of which is compatible with BeOS.

✦ It's a PC world

If there is any hope for the long-term survival of BeOS, it therefore lies in the PC world. There is a PC version of BeOS which works quite happily with Pentium II processors. BeOS is certainly more advanced than Windows 98, and the creative users at which Be is aiming have not, as yet, all been won over by Windows NT. Be's vice-president, Jean Calmon, told PCW that it only needs a user-base of 200,000-500,000 to make BeOS financially viable. Linux has more than ten times that number of users, so it's possible that this promising operating system could find a profitable niche for itself. But wherever that niche is, I doubt that it's going to be in the Mac market.

PCW CONTACTS

Cliff Joseph can be contacted via the PCW editorial office (address, p10) or email mac@pcw.co.uk
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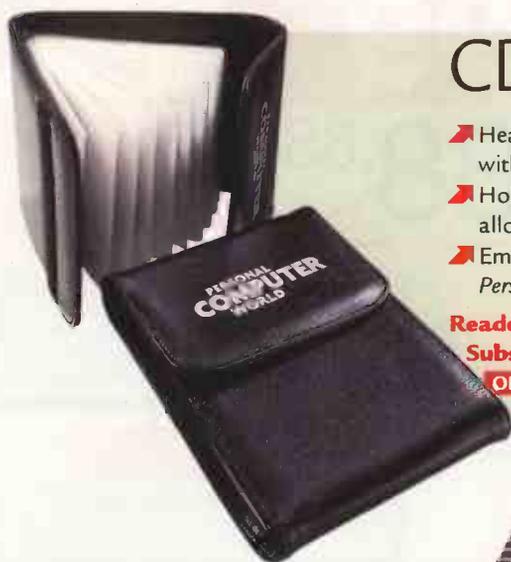
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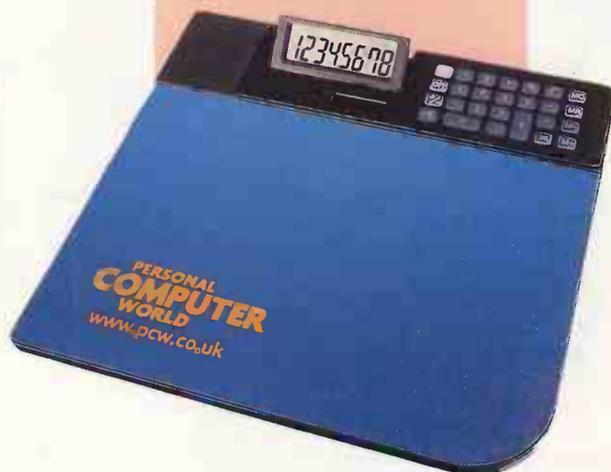
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Inside Relational Databases

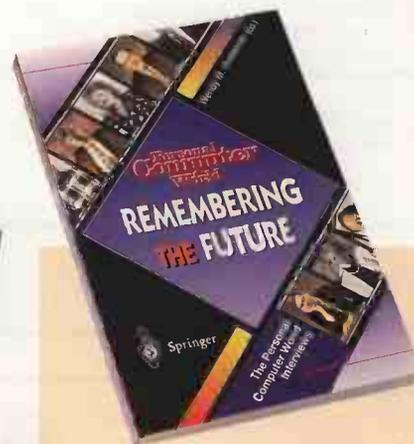
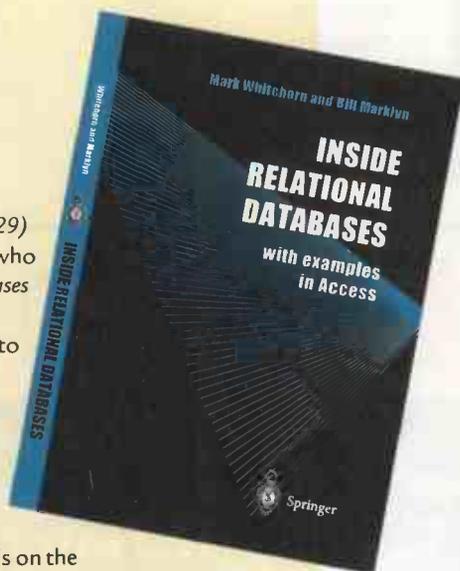
(reviewed in PCW November 97, p329)

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- Collected interviews from *Personal Computer World*, including Bill Gates, Michael Dell of Dell Computers, and Intel's Andy Grove.
- Reader offer price £9.95 – over 30% off the RRP of £14.95.

Reader offer price £9.95 (inc P&P)

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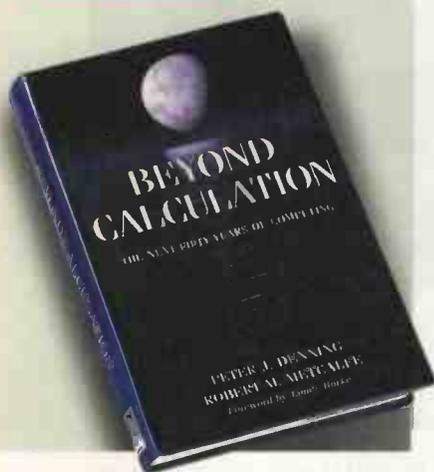
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leisure lines

Hands up, all those who are sick and tired of seeing Lara Croft's sickening Tomb Raider physique plastered over countless magazine and newspaper pages? Well, I am, for one, but as many of you out there don't share the same view, we're reviewing her new adventure, **TOMBRAIDER III**, in *Screenplay*. Along with Lara, there are reviews of **CARMAGEDDON II**, World League Soccer endorsed by Michael Owen, the **TIGER WOODS 99** golf game, starring



▲ THE SEARCH FOR GRANDMA'S REMEDY IS FEATURED IN OUR KIDS SECTION

the man himself, war on the Eastern Front in *Close Combat III*, and *Buggy*, a racing game. Our CD-ROM section features reviews to suit many tastes. All you Trekkies can enjoy **STAR TREK SHIP CREATOR**, there's lots to learn from **ENCYCLOPAEDIA BRITANNICA 99**, you can dance the night away with *FrEQuency 99* and watch Kenny come a cropper in the **SOUTH PARK** desktop themes and screensavers. Reviewed in the *Kids* section are Dorling Kindersley's **MY AMAZING HUMAN BODY** and an adventure called *The Search for Grandma's Remedy*. In our *Books* pages you'll find reviews of *Overdrive* — Bill Gates and the Race to Control Cyberspace, *The Complete Idiot's Guide*

▼ YOUR CHANCE TO BOLDLY GO ETC... BUT FIRST, YOU CAN BUILD YOUR OWN STARSHIP [CDs]



to Windows 98, and **DIGITAL PHOTOGRAPHY**. Our *Competition* gives you the chance to win a copy of a relational database called 4th D or a BT Internet kit. Complete our *Prize Crossword* and a

copy of the new Chambers dictionary could be winging its way to you, or pit your wits against our *Brainteasers*. And in our trip down memory lane, in the *Retro* column Simon Collin looks back at the **GRID 1101**, a pioneering laptop and a design classic.

ETELKA CLARK, LEISURE LINES EDITOR
ETELKAC@VNU.CO.UK

Tomb Raider III

Third time around for the feisty, sexy, action heroine.



◀ WHO'D HAVE THOUGHT POSTING A LETTER WOULD BE SO DANGEROUS THESE DAYS?

most famous of all pixellated female forms so it's hardly surprising that she's back for her third adventure, in the not-so-originally-

named Tomb Raider III.

Those who didn't like the first two versions should now go and make a cup of tea, as Tomb Raider III is pretty similar in most ways. Lara does, however, have new moves. She can sprint for short bursts, crawl, duck, and monkey-swing. The delightfully brutal young lady has also got new weapons, such as grenade launchers, as well as a variety of new vehicles in which to scream around, such as a mine cart, a kayak and a quad bike.

Marketing folk realised long ago that by including a sexy, scantily-clad lead character in their action games, they would sell lots of copies. Lara Croft is the

The five new landscapes range from Antarctica to London. You can run amok in Aldwych tube station if you feel so inclined. Graphics have been improved,

with new effects like rippling water, rain and smoking gun barrels, and the overall feel of the game is that it has been tinkered with rather than overhauled. A negative point is that you can now only save your game when you have collected a 'save game' crystal — and these are often hidden. So, for an amateur Tomb-Raider-ite, you might spend too much time returning to square one and become frustrated.

Tomb Raider III is a great game and highly addictive, as were its predecessors, and it will sell bucketloads. Just don't expect much of a difference.

JIM HARYOTT

PCW DETAILS



Price £39.99

Contact Eidos 0181 636 3000

www.eidosinteractive.com

System Specification Windows 95/98, Pentium 166MHz processor (Pentium 200MHz recommended), 16Mb of RAM (32Mb recommended), 4X CD-ROM drive, DirectX 6.0 (supplied).



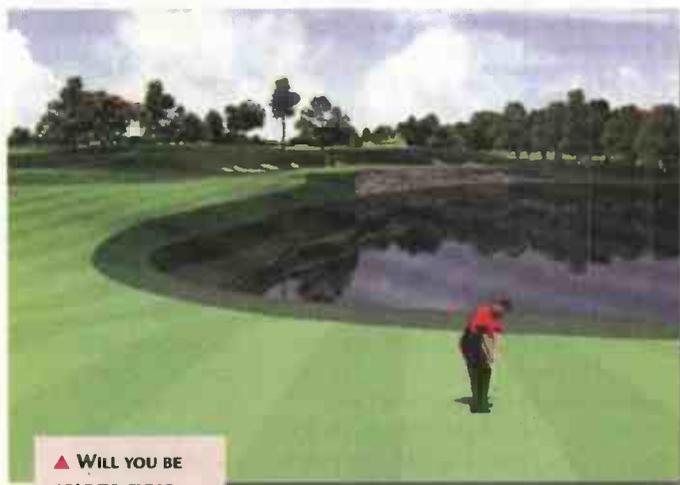
Tiger Woods 99

This pacy golf simulator leaves the competition stuck in the bunker.

Quite simply, this is one of the finest golf simulators ever created. It looks stunning, the controls are easy to master, and most unusually for a golf game, it plays quickly. You play Tiger, who looks perfectly digitised and, importantly, blends in well with the scenery.

The machine on which I played the game had a 3Dfx card, so it was not really surprising that it looked good, but what really caught us out was the speed of the gameplay. Only a few seconds after a shot has been taken, the next shot is lined up, thus cutting out the tedious waiting time you usually have to suffer,

even with relatively new games such as Microsoft's Golf 98. The views provided when the ball is struck are very impressive. Sometimes the point of view follows the ball through the air, other times you see it from the green. Then, you can replay it from any of the six 'ball-cams'.



▲ WILL YOU BE ABLE TO CLEAR THE WATER? NOT EVEN TIGER WOODS IS INFALLIBLE...

Tiger Woods 99 not only looks great and plays well, but there are up to eight different types of gameplay. Dozens of options make the virtual game almost

as difficult to master as an actual round of golf. The best bit, though, is that if you manage to get your timing on the swing just right, you can enjoy a 'Tiger Shot!' which results in young Master Woods crackling with electricity and belting the ball down the fairway, literally smoking!

PAUL TRUEMAN

PCW DETAILS



Price £39.99

Contact Electronic Arts
01753 672066

www.ea.com

System Specification Pentium 133MHz, Windows 95/98, 32Mb RAM, 4X CD-ROM, 110Mb free hard-disk space.



World League Soccer 99

Not a good match for Michael Owen, who lends his name to this football game.



◀ ARSENAL PREPARE TO TAKE A FREE KICK: IS ANOTHER GOAL ON THE CARDS?

established football-sim franchise that will obviously shift a lot more products due to Owen's face being plastered all over it.

The first thing you notice about the game is that the main menu seems as

responsive as an old Trabant car. The game was reviewed on a PII 450 armed with 128Mb and a spankingly good graphics card, so the equipment cannot be to blame for the game's sluggishness. The culprit appeared to be the chunky polygonal form of Michael playing keep-me-ups to the left of the menu. When he was missing from the

with a football. World League Soccer is a well-

menu, the icons became far more responsive. The actual matchplay isn't bad, but forget about playing this game with a keyboard — there are too many keys to remember.

Where the game really fails is that there is no sense of it having anything to do with Michael Owen. His image appears on the opening video and that's it: none of his virtuoso skills are on display here.

PAUL TRUEMAN

Footballing wunderkind he may be, but a totem of PC gaming quality he is not. Poor young Michael Owen has been approached by dozens of business types following his World Cup debut and offered countless commercial deals. Sadly, he said yes to this game, a shoddy affair that does little justice to his talent

PCW DETAILS



Price £34.99

Contact Eidos 0181 636 3000

www.eidos.co.uk

System Specification P133 (P166 recommended), 16Mb RAM (32Mb RAM recommended), 5Mb free hard-disk space, 4X CD-ROM.

Carmageddon II

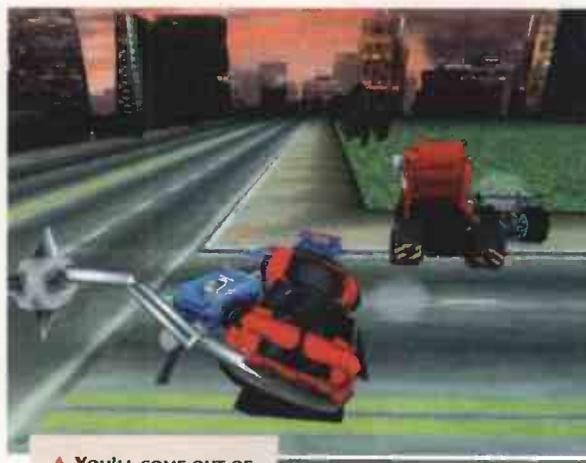
More cars, more mayhem and more realism in this extremely violent driving game.

If you find gaming violence offensive, then don't read on. Carmageddon II is another outing for the most violent, gratuitous — and successful — driving game of last year. It is so gratuitous, in fact, that the British Board of Film Classification has stepped in and ordered that it be toned down by replacing the 'real' pedestrians in the game with zombies.

One of the main objectives of Carmageddon II is to run over as many zombies as possible, in return for money. Another objective is to destroy your competitors' cars. If you fancy it, you can even race, but that's not really the point.

The game's graphics have not improved a great deal beyond the original, apart from the fact that it now has Direct3D acceleration as standard. The improvements lie in the physics engine, which allows more realistic crumpling of cars, and offers a 'smashable' environment so you can drive through walls, knock down lampposts and all sorts. Zombies are now fully polygon-based so you can probably guess the effect that this has... yes, they splatter far more realistically when you hit them.

There are 33 brand-new vehicles, including a combine harvester, and about a zillion silly power-ups. To progress to a new environment you have to complete



▲ YOU'LL COME OUT OF THIS ENCOUNTER WITH MORE THAN JUST SCRATCHED PAINTWORK

mission levels, such as destroying a set number of

objects in the time allotted. The missions are pretty hard and it can get boring having to repeat them over and over.

Although I found this game fun for a while, I would have preferred an hour with Colin McRae Rally instead.

DAVID FEARON

PCW DETAILS



Price £39.99

Contact Bionic Digital 01753 653456

www.sci.co.uk

System Specification Pentium 166, 16Mb RAM, Direct3D graphics accelerator, 200Mb hard-disk space, 4X CD-ROM drive, 16-bit sound card.

Buggy

Bump your opponents off the track in this **racy little number**.



Simple name, simple game,

Buggy does exactly what it says on the box. You race like a mad thing around a variety of courses, trying to pummel your fellow opponents into the side of the track.

This is one of those games that you can be happily playing a few minutes after first taking the CD out of its box. Installation is easy and there are only a

▲ THERE'S NO TIME TO ADMIRE THE SCENERY WHEN YOU'VE A RACE TO WIN

few controls to master. If anything, Buggy is almost too easy to pick up. Although finishing last in his debut race, this reviewer then won every subsequent event. There are no difficulty settings, although you can greatly affect your chances by the type of buggy you pick, with numerous models offering various combinations of speed and handling: a speedy little number will most likely not handle well, and vice versa.

Once you've mastered the art of winning races, you can progress to collecting the various power-ups that litter the course and turn your buggy into a fearsome fighting machine. This isn't

exactly Carmageddon II, though. Instead of decapitating your rivals, there is the far gentler option to stun them, or lock their wheels while you race ahead. To be honest, this type of automotive sabotage will require a lot of practice as, initially, simply picking out the route requires all your concentration. Simple but effective, Buggy is awash with colour and carnage but its particular brand of mayhem won't be to everyone's taste.

PAUL TRUEMAN

PCW DETAILS

★★★

Price £29.99

Contact Gremlin 0114 279 9020

www.gremlin.co.uk

System Specification Windows 95, P166MHz (minimum) P200MHz (recommended), 16Mb RAM (minimum) 32Mb RAM (recommended), DirectX5-compatible graphics card, 4X CD-ROM.

Close Combat III

A hard time and heavy fighting on the **Eastern Front**.

It's 1941, and all is not quiet on the Eastern Front. Hitler has ordered the invasion of the Soviet Union and German troops are marching towards Moscow. The Soviet populous is mobilised and prepared for a nationwide siege. The world's most brutal land war has begun.



◀ ON AN ICY RUSSIAN PLAIN, TANKS LOOK SET TO OVERCOME A BELEAGUERED INFANTRY DIVISION

It seems like an age before your troops get into the right position to engage the enemy. Having a less than intuitive interface doesn't

help matters and the game sprites are disappointing. Then again, not all strategy games need follow in the footsteps of, say, Starcraft with all its pace and pizzazz, to achieve their goals. There's much to be gained from playing Close Combat III but you must be prepared to put in a lot of initial effort.

CLIFF HOPE

In this game you are a low-ranking commander of either side, directing your troops into historically accurate battles which span four long years of the campaign. Microsoft, to its credit, has done well to make the gameplay as accurate as possible. There are over 200 categories of troops, vehicles and weapons, battlefields generated from

actual wartime aerial photography, and a game engine that faithfully incorporates elements of WWII warfare — chains of command, morale, limited ammunition and extreme weather conditions among them.

Given the level of detail here, it's perhaps only to be expected that actual gameplay is a little on the slow side.

PCW DETAILS

★★★

Price £34.99

Contact Microsoft 0345 002000

www.microsoft.com

System Specification Windows 95/98, P133 processor, 32Mb RAM, 60Mb hard-disk space, 4X CD-ROM drive, SVGA video card, Windows-compatible sound card.

South Park Desktop Themes

Transform your desktop into a little corner of **cartoon Colorado**.

'Howdy Ho!

My, you smell of flowers!' — the wise words of Mr Hanky the Christmas Poo captured the heart of every South Park fan. And, with an opening like that, they will be the only ones still reading this review.

If, like me, you can't get enough of Kyle, Stan, Kenny and Cartman, then you'll love the Official South Park PC Desktop Themes and Screensaver. Joining



There are two parts to this product: the screen-saver and



the desktop themes. The latter consist of a number of backdrops and icons which you can set up to randomly shuffle as you restart your PC. There are 13 screensavers from which to choose, which have the featured characters stroll

your favourite Colorado chums are the regulars from Cartoon Central's controversial cartoon show: Chef, Mr Garrison, Mr Hat, Big Gay Al, Wendy, not to mention the Cows and the Aliens — they all make an appearance.



onto your screen and quote unforgettable lines — the graphics and sounds are indistinguishable from the show. The Cows are worried by the Aliens, Cartman gets an anal probe, Kyle learns something new, Chef sings about love gravy, Stan pukes when Wendy chats with him, and of course,

◀ **THIS IS KENNY, AND NO, HE'S NOT HAVING A QUICK 40 WINKS**

oh my God, they killed Kenny. So, nothing spectacular, but a welcome fix for

South Park fans while we wait for the forthcoming 3D game from Acclaim, which promises to have a multi-player option you won't forget. And remember, children — a pig and an elephant's DNA just don't match.

GORDON 'CARTMAN' LAING

PCW DETAILS



Price £19.99

Contact Telstar Electronic Studios
01932 222 232

www.telstar.co.uk/tes

System Specification Windows 95/98, P90, 16Mb RAM, 16Mb hard-disk space.

FrEQuency '99

Sound and vision team up on this classy **dance music creator**.

The proliferation of music-mixing software has given closet DJs a lot to get stuck into over the past few months. If you didn't fancy Hip Hop eJay, there was Dance eJay or even Rave eJay. Turn your speakers up loud enough and your darkened bedroom could practically be mistaken for the Ministry of Sound. Well, maybe not; but when your only audience is your kid sister, you probably won't be expecting much in the way of crowd appreciation anyway.

Now there's yet another dance-mixing toy to play with — FrEQuency '99.

▶ **A SHADY MIXING DECK AND ATMOSPHERIC VIDEO CLIPS MAKE FOR SOME MOODY MUSIC CREATION**

FrEQuency shuns the user interface employed by the eJay products, where you have to drag tracks onto an eight-track synthesiser and then play them back until you're happy with the result. Instead, it has teamed up with Macromedia to produce a nice Shockwave-style interface where you click on various parts of the screen to change the sound and bring in new backbeats, cut the drums and so on.

FrEQuency has included samples from different musical genres, including techno, ambient, hip hop, house, jazz



and drum 'n' bass, which means you won't have to buy separate products for each. Another nice feature is the video loop, which you can play around with by adding your own clips. If your mixing skills leave something to be desired, you can just switch on the automatic track generator.

FrEQuency '99 is a bargain and would make the perfect party toy.

SUSAN PEDERSON

PCW DETAILS



Price £19.99

Contact United Interactive
0171 395 0800

www.modified.com

System Specification PC: Windows 98, 95 and NT, Pentium processor or better, 16Mb of RAM, 4X CD-ROM, sound card. Mac: Power Mac or clone, 24Mb of RAM, 4X CD-ROM drive, System 7.0.1 or later.

Star Trek Starship Creator

The dream of every sci-fi fan is fulfilled: build your own **Federation starship**.

It is a Trekkie's dream to build his or her own space vehicle, to boldly go where none have gone before, and Starship Creator is a CD made by fans, for fans. So, if you're not a Trekkie, steer well clear. The program begins by offering you a variety of components which go into the making of a great Federation starship. You can select your favourite engine, tweak the all-important force field, or increase the power of your phasers and proton torpedoes. But be careful about what you choose. Powerful phasers can draw a lot of energy away from the shields, weakening the overall integrity of the ship. This may also affect your ship's manoeuvring ability. You can even select the type of crew quarters; cramped quarters with poor recreational facilities



◀ WITH A BIT OF EFFORT, YOU CAN CREATE A STARSHIP OF WHICH JAMES T. KIRK WOULD HAVE BEEN PROUD

that the CD-ROM suffers. The missions on which you are sent are poorly planned and the 2D graphics are only slightly better than those of a Sinclair Spectrum. However, if you collect Star Trek memorabilia, this CD is worth having.

AJITH RAM

can hit morale during long voyages. Having built your own version of the Defiant or the Enterprise, you can go on to select the crew, but choose wisely. Some crew members, like Worf, will always look for guidance. Others, like James T. Kirk, have an independent streak.

Your dream ship will now be ready to fly off into the unknown. Except it is here

PCW DETAILS



Price £34.99

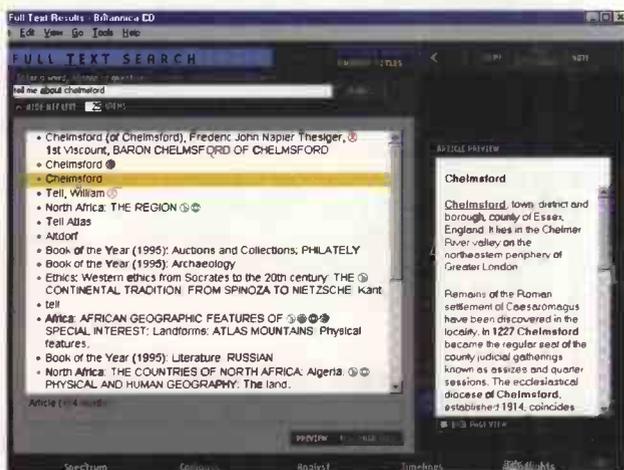
Contact Zablac Entertainment
01626 332233

www.ablac.co.uk

System Specification Windows 95, 15Mb hard-disk space, Pentium 90, SVGA graphics card, SoundBlaster-compatible sound card.

Encyclopaedia Britannica 99

Updated to include even more **facts and figures** — a little too many, in fact.



◀ DID YOU KNOW THAT ROMANS ONCE LIVED IN THE SLEEPY ESSEX TOWN OF CHELMSFORD?

test. Neither the dictionary nor the encyclopaedia was able to define the term 'SCSI', although a list was offered of similar-sounding alternatives from which to choose.

This was a nice touch, as it meant that if we had spelt our query incorrectly, we would have been saved from having to retype it.

Searching the encyclopaedia can be performed in two ways. First, the more conventional method of entering a keyword will produce a list of all related articles. The second method is far more intuitive, allowing the user to enter a

question such as 'tell me about cars' and be presented with a list of likely matches. Entering this particular question, though, did not take us straight to articles relating to the motor car. Of the hits returned, the first five were in reference to railway cars, George Pullman, the history of the circus, air brakes and cable cars. So, with results like this, I could not help but feel that the people at Britannica had taken the idea of an 'International Edition' just a little too far.

NIK RAWLINSON

PCW DETAILS



Price £125

Contact Encyclopaedia Britannica
0800 282433

www.britannica.co.uk

System Specification 75MHz Pentium processor, 16Mb RAM (32Mb recommended), 80Mb free hard-disk space, 4X CD-ROM, 800x600 SVGA monitor, sound card and speakers, mouse.

Following the success of previous years, the 1999 edition of Britannica incorporates over 73,000 articles, 8500 photos and illustrations and 30,000 freely downloadable related internet links. This tidy little lot is supplemented by a 1998 yearbook to keep users right up to date.

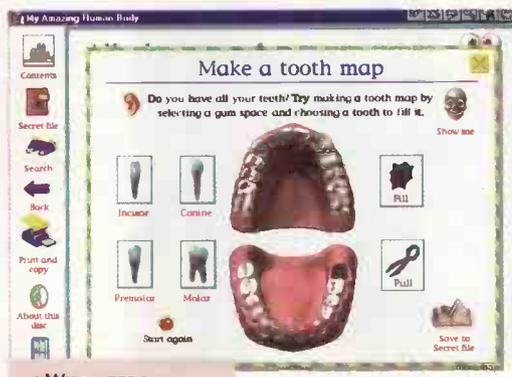
I had high hopes for this package, but was disappointed after putting it to the

My Amazing Human Body

An interactive insight **into your insides** with your skeletal guide, Seemore Skinless.

Children ask awkward questions and this CD will help provide the answers. It is a basic illustration of the human body and how it works, for six- to ten-year-olds. An interactive approach is used to introduce the body from the inside out. Skeletal host, Seemore Skinless, guides us around the CD's four main sections. There's a personal file, too, where the child inputs information about itself and creates a picture of what it looks like: a point of reference which helps the child understand the principles being covered.

Various sections look at what we're made of, how we're put together and the importance of nutritional and daily requirements. Using Seemore's body as



▲ WHO NEEDS A TOOTH FAIRY WHEN YOU CAN PRACTICE VIRTUAL DENTISTRY?

the model, the child can analyse different body parts and the location of organs and bones, enlarging them, X-raying them, measuring them and counting them.

Seemore is colourfully animated to captivate a child's short attention span. In the Take Me Apart section, they can

literally 'blow him up' and reassemble him, working against the clock for an extra challenge. Interactive games and activities form a substantial part of the exploration. One activity requires the child to feed, water, exercise and rest Seemore Skinless throughout the day. This is a fun and educational CD-ROM that children will thoroughly enjoy.

HELEN FORTGANG

PCW DETAILS



Price £24.99

Contact DK Multimedia 0171 753 3488

www.dk.com

System Specification PC: Windows 95/98, 486 DX2/66MHz, 12Mb RAM, 8- or 16-bit sound card, 256 colours at 640 x 480 pixels, 2X CD-ROM drive. Mac: 68040/33MHz, 8Mb RAM, System 7.0, 8-bit (256) colour display at 14in, 640 x 480 pixels, 2X CD-ROM drive.

The Search for Grandma's Remedy

You're a **mouse on a mission** as puzzles must be solved to restore your grandma's health.



▲ GO FOR YOUR GRANNY: MIA GETS HELPFUL ADVICE FROM THIS TALKING INK DROPPER

Mia, the skateboarding mouse in *The Search for Grandma's Remedy*, has to find something to cure her grandma's sickness. The adventure begins after Mia's 'sparklies', needed to buy the ingredients for the medicine, are stolen by the rascally Romaine Rat. Exploring the house where she lives, Mia and her friends have many encounters which lead her closer to the ingredients. Mia must collect the various tools lying around the house and keep them in her

rucksack. Aimed at children aged four to nine years old, this little adventure combines learning and play in one engaging production. The puzzles and games are educationally designed to help develop a variety of basic strengths. Skills including word recognition, phonics, spelling, early reading and rhyming are taught.

With four levels at which to set the program, the difficulty of the games and puzzles can be increased or decreased accordingly. Alternatively, the player can enter their age, which, I presume, automatically defaults the program to a particular level. The animated, film-like 3D graphics greatly add to the adventure, making an enchanting visual ride which is beautifully introduced with a song from Boo, the swinging spider.

Even though it should be possible, it was not clear how to save the game, which meant that I was thrown back to the beginning when what I had really wanted was to resume play. It also became rather frustrating manoeuvring Mia where I wanted her to go.

Presented on two CD-ROMs, this is a unique and charming educational program despite its imperfections.

HELEN FORTGANG

PCW DETAILS



Price £19.99

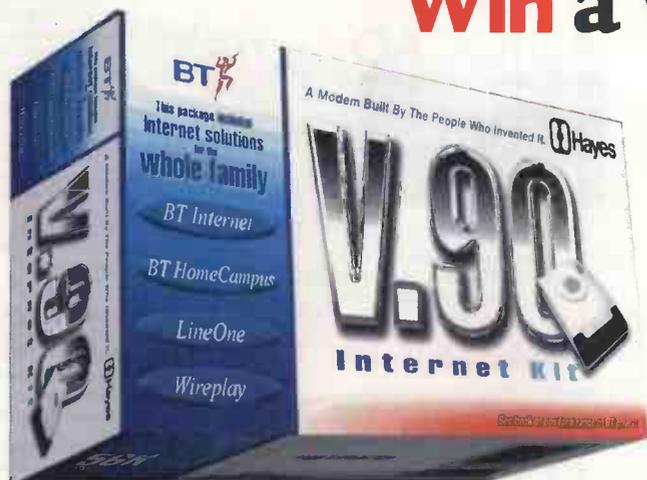
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01491 613711

www.ransom.co.uk

System Specification PC: Windows 95/98, P100, 32Mb RAM, 4X CD-ROM, 16-bit sound card and speakers, 640 x 480 pixels, 256 colours, 30Mb free hard-disk space. Mac: Power PC 100MHz, System 7.6 or later, 32Mb RAM, 4X CD-ROM, 640 x 480 pixels, 256 colours, 30Mb free hard-disk space.

Win a V.90 Internet kit!



The kit consists of a 56K external modem supporting V.90 from Hayes and BT Internet software. A free CD-ROM tutorial is included to help you get online.



service; Wireplay multi-player gaming software; a one-month trial of BT HomeCampus, the internet-based home learning service; and three months' free access to BT Internet.

➔ **For the chance to win one of these superb kits**, just answer the following question:

How many email addresses does the V.90 Internet kit allow you to have?

- A. Three
- B. Four
- C. Five

Modem maker **Hayes** has teamed up with **BT** to offer **PCW** readers the chance to win one of its new **V.90 Internet kits**. We have four kits to give away, each worth £139.

BT Internet offers fast and reliable access to the internet and comprises five email addresses and 10Mb of web space.

This complete internet solution also includes: one month's trial of LineOne, the UK's leading online consumer

Win a 4th Dimension database!

Five copies of the graphical, multi-threaded relational database, **ACI's 4th Dimension (4D)** worth £242.50 each, are up for grabs this month.

➔ **4D is designed for end-users** and expert developers. From the time of its release in the mid-eighties, 4D has been winning awards from the computer press and winning praise from users for its power, elegance and simplicity. Its intuitive interface and powerful 4GL programming language make 4D the ideal tool for designing solutions in a single-user, client/server or internet/intranet environment.

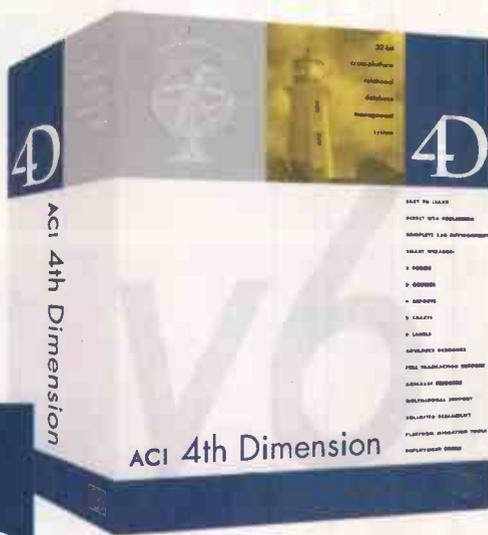
With 4D you can create virtually any type of database application, from simple contact management systems and product catalogues to sophisticated multimedia applications and full-scale accounting packages. 4D's ease of use, reduced development time and

straightforward installation and maintenance make it an unbeatable, cost-effective database solution for organisations of all sizes.

➔ **For the chance to win a copy of 4D**, just answer the following question:

What is 4D?

- A. A word processor
- B. An award-winning relational database management system
- C. A spreadsheet



HOW TO ENTER THE COMPETITIONS

1. Via our web site at www.pcw.co.uk, or
2. Write your answer, name, address and daytime telephone number on a postcard or on the back of a sealed envelope. Mark your card "PCW/Hayes BT Competition" or "PCW/4D Competition" as applicable and post to: P.O. Box 191, Woking, Surrey GU21 1FT, by Friday 27th February, 1999.

• Please state clearly on your competition entry if you do not wish to receive promotional material from other companies.

RULES OF ENTRY

This competition is open to readers of *Personal Computer World*, except for employees (and their families) of VNU Business Publications, Hayes, BT Internet and ACI. The Editor of *Personal Computer World* is the sole judge of the competition and his decision is final. No cash alternative is available in lieu of competition prizes.

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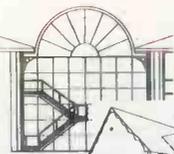
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* Source: Computer Contractor Reader Survey 1997.



First off the GRiD

Simon Collin takes a **strong liking** to the GRiD 1101, the metal-cased laptop pioneer.

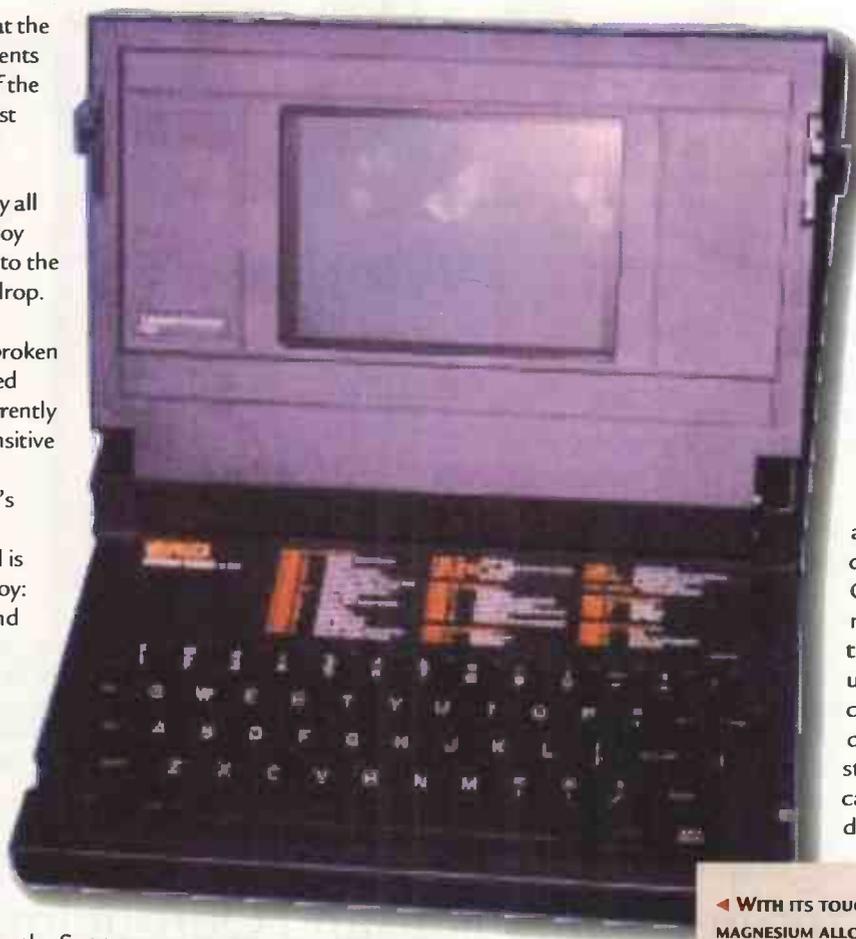
If you look at the advertisements for some of the thinnest, newest laptops on the market, you'll notice that they all sport metal-alloy cases, resilient to the odd knock or drop. Since I've just dropped and broken my plastic-cased laptop, I'm currently particularly sensitive to this issue. The metal that's in fashion as a casing material is magnesium alloy: it's very light and super-tough. However, even though the latest laptop models rate this feature top of the list, it's not new. In fact, one of the first real laptops was also the first to use a strong magnesium-alloy casing. The model was built by GRiD, the forgotten pioneer of the portable-computer industry.

GRiD was started in 1979 by engineer Glenn T Edens, who provided pivotal ideas and concepts which have ensured current laptops and PDAs work and

The GRiD 1101 took the knocks of life on the road better than any other model

look the way they do. He invented the idea of the laptop as we know it, with clamshell design, integrated flat display and so on — he even holds the patent for the laptop idea.

Edens went on to develop pen-based computing ideas that looked great at the time, then died off, but have now taken off again with products such as the Pilot and Windows CE.



◀ WITH ITS TOUGH MAGNESIUM ALLOY CASE, THE GRiD 1101 WAS BUILT TO LAST

The first GRiD model, the 1101, was not only a revolution in computing terms but was also a design classic. The styling and case design for the 1101 was produced in the UK by William Moggridge. He produced a neat, elegant, classic design — and if you want to see the original, it's on display in the Museum of Modern Art in New York.

The machine's magnesium alloy casing ensured that the laptop was fantastically strong. Unlike today's fashion for bare metal styling, GRiD computers were painted a trademark black. Critics complained about the weight, but it took the knocks of life on the road better than any other model (come to think of it, there were very few other models around at the time with which to compare it). To add an impressive feather to its cap, the space agency NASA took the GRiD laptop to its heart and there has been a GRiD on board almost every space shuttle flight since.

The original 1101 was powered by the then-standard 8086 processor (used in plenty of PC-compatible desktops of the time) together with the companion 8087 maths co-processor. Its main memory was 128Kb of RAM as standard, although this could be expanded to 512Kb. The small electro-luminescent screen was easy to read and provided a standard 80x25 character display. Unusually, the GRiD also featured bubble memory, which was very trendy at the time, and used an odd electro-chemical process to store data. GRiD provided mass storage through both a cassette tape and floppy-disk drive, and there was

an optional hard-disk unit available which could store your MS-DOS 2 compatible software.

Displaying its engineering-based pedigree, the GRiD 1101 featured a GPIB interface port together with the usual serial and parallel printer ports. GPIB (also called IEEE-488) ports are still used to link test and lab equipment to a computer and no doubt prove useful when linking the laptop to standard shuttle patch panels.

It's hard to find an original GRiD computer, but if you're determined you could try the antiques market: Bonhams, the London-based auctioneering firm, offered one as an icon of 20th century design and it fetched a respectable \$800. The GRiD company was acquired in 1988 by the Tandy Corporation (itself featured here recently) but it is thanks to Edens' revolutionary ideas and designs at the start of the eighties that we can now choose from dozens of sleek laptops wrapped in a magnesium alloy casing. □

books

The Complete Idiot's Guide to Windows 98

Sometimes it's quite handy being a complete idiot, as people like to write books to help you. The *Complete Idiot's Guide to Windows 98* is one such self-help publication which cuts to the quick of Windows 98 ignorance. Although it's not very colourful in its presentation, it does contain a whole load of sound advice and tips, going into sufficient depth to prove a valid reference for you to return to.

Written in a friendly manner with dashes of humour — yes, Windows can be fun — it manages not to patronise the idiot and avoids the use of heavy jargon in its explanations. But it does include the obligatory, albeit brief, glossary to

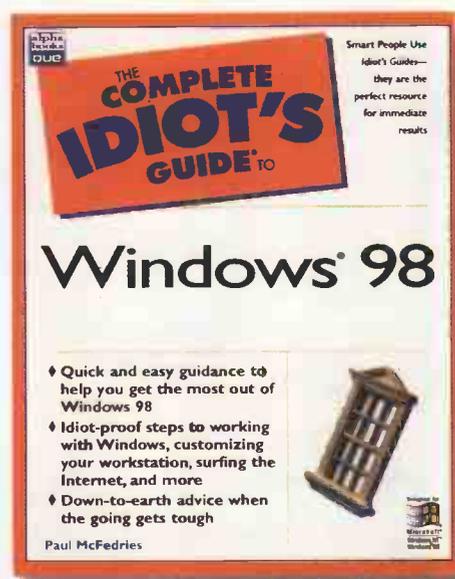
help you 'Speak Like a Geek' and covers the core terms. Screenshots are placed throughout the book and some

of them require a magnifying glass, but there are also helpful tip-boxes and cross-references which point you towards related subjects and help you navigate through the book.

It is not the best guide

I have seen, certainly in terms of presentation, but as Windows 98 bibles go, this one is a user-friendly tool which would do well in permanent residence beside your PC.

Although concise, the book's lighthearted conversational style can



make it seem quite waffly in places. This can be forgiven though, as it does get the information across. The book covers all the important aspects of Windows 98 and pays sufficient attention to your system and relevant subjects. If you do

decide to buy this book, and you wouldn't be an idiot to do so, look carefully for it on the bookseller's shelves as it is easy to miss its uninspiring cover.

HELEN FORTGANG

PCW DETAILS

★★★★★

THE COMPLETE IDIOT'S GUIDE TO WINDOWS 98

Author Paul McFedries

Publisher Alpha Books

ISBN 0-7897-1493-0

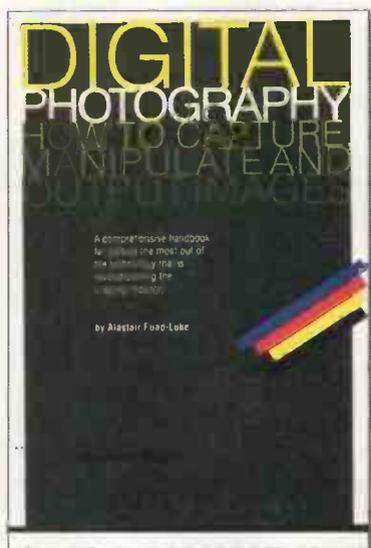
Price £13.99

Digital Photography — How to Capture, Manipulate and Output Images

Most of us have fancied ourselves as a bit of a David Bailey in our time — until, that is, the less than impressive snaps come back from the chemists. This is where digital photography comes into its own, letting you get rid of your mistakes before you print them out. As its title suggests, this book tells you everything you need to know about processing prints of which you can be proud. Unfortunately, the book's title also hints at a tone of dull undergraduate thesis.

This book is packed with information.

Everything is covered, including scanners, digital cameras, printers, image-editing software and a few basic editing techniques.



There are even 28 pages of glossary. However, there are too many items covered in this book, which leaves no room to discuss anything in detail. Worse, some of the information is

already out of date. When it covers image-editing software, for instance, it mentions several old versions. Without wanting to blow our own trumpet, you are probably better off reading this magazine. The January and February '99 issues of *PCW*, for instance, covered all the latest image-editing packages in far more detail.

This worst thing about this book, though, is that it is a very dull read. It is rather like going through your bank statement; utterly tedious, but you feel as if it might possibly turn up something you need to know.

Digital Photography takes what should be a fun subject and turns it into something you would only do if you were paid to. You cannot even look at pretty pictures in the book because, although most of the shots are informative, they are unimaginatively presented in dull-old black and white.

ADELE DYER

PCW DETAILS

★★

DIGITAL PHOTOGRAPHY — HOW TO CAPTURE, MANIPULATE AND OUTPUT IMAGES

Author Alastair Fuad-Luke

Publisher Fourth Estate

ISBN 1-8411-5 051-7

Price £15.99

Overdrive — Bill Gates and the Race to Control Cyberspace

So where do you sit in the great 'Microsoft vs The World' debate? Is Bill a saint or a sinner? In his first book of six years ago, *Hard Drive*, journalist James Wallace of the *Seattle Post* was one of the first to point an accusing finger at the business practices of the largest software company in the world and its allegedly control-freak boss. Six years in the IT industry might as well be 60, given all that has happened since 1992. Wallace unsurprisingly chooses to focus on 'the internet', the biggest IT story of the past ten years. In a recent book, *The Microsoft File*, by Wendy Goldman Rohm (reviewed, *PCW* Jan '99) there was a good deal of confusing guff written — much as if Rohm had personally been given an out-of-body tour around Bill Gates' mind. But Wallace remains firmly corporeal and his book is all the better for it.

So what picture does Wallace paint? Well, Gates is not really establishing Microsoft's satanic dominions over the Earth, despite the claims seen on some web sites, although the bare facts show a dominating,

If there is one main theme of the book, it is how close Gates came to blowing it

paranoid boss ruling his empire of thousands as though it were his fiefdom.

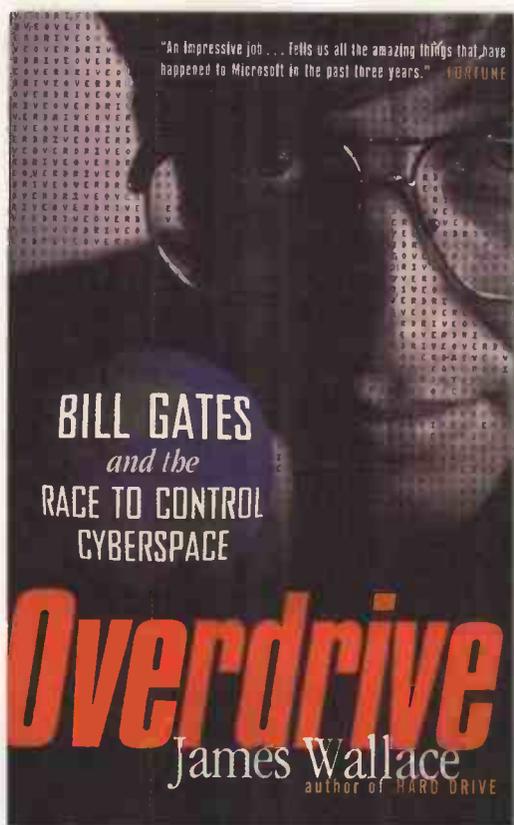
All the good stuff is here and Wallace is quite happy to concentrate on

other major players in the internet boom. Indeed, if there is one main theme of the book, it is how close Gates came to blowing it by dismissing the world

wide web. From the online birth of NSCA's Mosaic browser, to Marc Andreessen's near-eclipse of Gates, the major history of the past three years in the industry is here.

What also emerges is how much of a gambler Gates is: for instance, he had not decided to give away the Explorer browser for free until an hour before it was announced at a public meeting. The decision was so last minute that even Spyglass, the company from which Microsoft had licensed the browser, didn't know about it. It is eccentrics like Gates that make the IT industry such an interesting place and Wallace captures it, warts and all.

PAUL TRUEMAN



PCW DETAILS



OVERDRIVE — BILL GATES AND THE RACE TO CONTROL CYBERSPACE

Author James Wallace

Publisher Wallace

ISBN 0-4712-9106-4

Price £9.95

TOP

10

books

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brainteasers

Quickie

If 5 times 7 is forty-three, what will a fourth of thirty be?

This Month's Prize Puzzle

An oil snail (*Limnaea Oleatum*) crawls through a cylindrical fractional distillation column that is exactly ten metres in circumference. The worm enters an inlet pipe at the top of the column, crawls around the inside of the column, and exits via an outlet pipe diametrically opposite the inlet pipe and 12ft vertically below.

If the column had been empty, the snail would have made the journey by the shortest possible route and taken 26 hours. However, the column contains four different types of oil:

1. The top 10% of the column contains thin oil through which the snail crawls at 20% slower than its usual dry-land speed.

- The next 25% consists of a medium oil which reduces the snail's dry speed by 40%.
- The bottom 5% contains sludge which slows the snail's speed down to a mere 10% of his dry speed.
- The remaining third layer consists of thick oil through which the snail's speed is reduced by 50%.

What is the least time that the snail can take to get through the column?

Send your answers on a postcard or on the back of an empty sealed envelope, to:
PCW Prize Puzzle — March 1999
P.O. Box 99
Harrogate
N. Yorks HG2 0XJ
to arrive no later than 24th February, 1999.

We will also accept solutions by email. Send the solution only (no

explanatory notes or program listings etc.) to jj.clessa@btinternet.com.

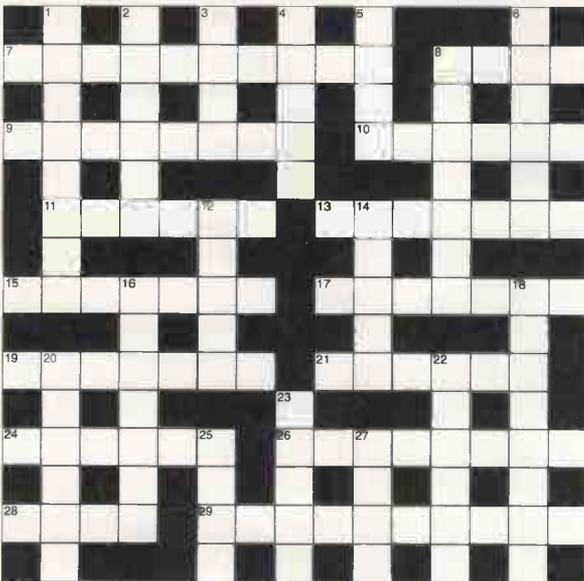
Winner of the December 1998 Prize Puzzle

A good postbag for our surveying problem — 120 entrants in all. A few people mentioned that I hadn't stated the terrain was flat, which could have made a difference to the answer. True, but since I didn't specify any differences in altitude, it was reasonable to assume that there weren't any and that the race was run on the flat. The majority of you did just that and gave the required answer of 4,589 metres.

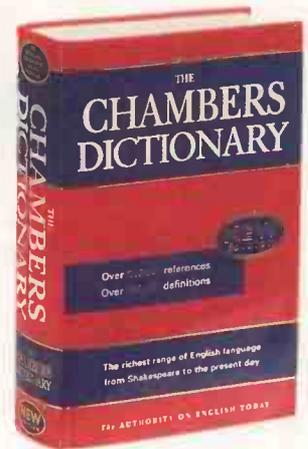
The winning entry, drawn at random, came from John Pollard of Baldock, Hertfordshire. Congratulations, John, your prize will be with you shortly. Meanwhile, to the 119 also-rans, keep trying, it could be your turn next.

JJ CLESSA

prize crossword



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, it could be you. Send your completed crossword to 'PCW March Prize Crossword', VNU House, 32-34 Broadwick Street, London W1A 2HG, to arrive not later than 24th February, 1999. Please state clearly if you do not wish to receive promotional material from other companies.



• Please note: no Prize Crossword was published in the Feb '99 issue.

ACROSS

- Place for plugging in (6, 4)
- Saved parcel of data (4)
- Brought in from elsewhere (8)
- Defined part of a disk (6)
- Join on the end of an email? (6)
- Fixed amounts of storage on a disk (7)
- Work out the code (7)
- Quick jump from one site to another (3, 4)
- Partial internal stores for data (7)

- List of activities performed (6)

- Software box requiring an answer (6)
- The second T of HTTP (8)
- Microsoft's WP package (4)
- Failure messages (5, 5)

DOWN

- Soak through (8)
- Excavate (3, 3)
- Scheme (4)
- Temperamental (5)

- Redding, sixties pop-star (4)
- Nook (6)
- Based on real life (7)
- Frolic (5)
- Atmospheric layer (5)
- Gave away in a draw (7)
- Chatted (8)
- Agreement (6)
- Exhibited (2, 4)
- Tempest (5)
- Delight (4)
- Broadcasts (4)

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VALUE
dan Ultimate/200XE
Value
November 97



Editors' Choice
dantum II/266
Editor's Choice
January 98

Thank you to everyone

We're proud of the numerous accolades we win for Dan Technology PCs month after month. And nothing gives us more pleasure than being up there amongst the winners of the magazines annual awards. Sometimes our votes come from expert journalists. With PC Direct, PCW, PC Pro and What PC?, recognition comes from the readers themselves. But wherever they come from, we're very grateful for these tributes to the efforts of our workforce. Thank You.

PC Pro Reliability & Service Awards 1998



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PC Magazine Service & Reliability Survey 1998



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Best Educational Systems
Best Network Servers
WINNER: Dan Technology



"Quite apart from top marks for consistency, Dan is clearly doing something right.

PCW Annual Readers' Awards 1998
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WINNER: Dan Technology



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Yamaha CRW4416s £244 (€287)



TEAC CD-R55S CD Writer

The perfect solution for archiving and distributing large amounts of information, the TEAC CD-R55S can write over 600MB of data (74 minutes of audio) to a single CD and boasts impressive performance speeds of 4x write/12x read. (SCSI controller required - sold separately.)

TEAC CD-R55S £186 (€219)

Creative Sound Blaster Live!

Upgrade to the Sound Blaster Live! Full Edition and experience games and music rather than just hear them! With all the features of the Sound Blaster Live! Value (such as surround-sound Environmental Audio, 256-voice music synthesis, and Environmental Audio Extensions) the Live! Full Edition also includes fully featured software CubasisAV and SoundForgeXP as well as a high quality Digital I/O Audio extension card, providing S/PDIF and MIDI DIN connectivity.

Upgrade to Sound Blaster Live!
from SoundBlaster Live! Value £ 68 (€ 80)
from SoundBlaster AWE64 £ 90 (€106)

PCWorks FourPoint Surround Speaker System £ 44 (€ 52)

HP CD Writer Plus 8100i

HP CD Writer Plus 8100i £274 (€322)



ATI All in Wonder Pro

For the ultimate in multimedia graphics and video capabilities in a single card, look no further than the All in Wonder Pro from ATI. Based on ATI's latest 3D Rage Pro processor, 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.

Upgrade to All in Wonder Pro 8MB from ATI Xpert'98 8MB £ 45 (€ 53)



Desktop Video Camera

This superb desktop camera uses a 1/4" Colour CCD (270K pixels) for use in video conferencing (requires additional modem), video capture & still image applications. (Requires pre-installed video card.)

Desktop Video Camera £ 71 (€ 84)

Opening Hours - London/Leeds Showrooms: Mon-Fri 9.30am - 6pm

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

Call for more info



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 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 Ports
- Windows UK Keyboard
- Windows 98 or 95 (please specify)
- Microsoft IntelliMouse™
- MS Works 4.5

| AMD Processor | AMD K6-2 300 | AMD K6-2 350 |
|---------------|--------------|--------------|
| 4.0GB | £ 550 | £ 577 |
| 6.4GB | £ 565 | £ 592 |
| 4.1GB SCSI | £ 875 | £ 902 |
| 9.0GB SCSI | £ 984 | £ 1011 |

8.0GB HDD upgrade from 6.4GB £ 19
Intel Express Pro 100 UTP Network Card £ 40

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 AGP 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 4.5

| Intel Processor | CELERON 333 | CELERON 400 | PENTIUMII 400 |
|-----------------|-------------|-------------|---------------|
| 4.0GB | £ 588 | £ 645 | £ 802 |
| 6.4GB | £ 603 | £ 660 | £ 817 |
| 4.1GB SCSI | £ 913 | £ 970 | £ 1127 |
| 9.0GB SCSI | £ 1022 | £ 1079 | £ 1236 |

450MHz Pentium II upgrade from 400 £ 166

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 16MB Millennium G200 Video Card
- 19" Super VGA L/R N/I Monitor (Viewable size 18"-450mm)
- 56KBPS Voice* FaxModem (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 4.5

| Single Processor | PENTIUMII 350 | PENTIUMII 400 | PENTIUMII 450 |
|------------------|---------------|---------------|---------------|
| 8.0GB UDMA EIDE | £ 1520 | £ 1645 | £ 1811 |
| 9.0GB WIDE SCSI | £ 1753 | £ 1878 | £ 2044 |
| 18GB WIDE SCSI | £ 2123 | £ 2248 | £ 2414 |

As above with 2 CPUs Installed as standard

| Dual Processor | PENTIUMII 350 | PENTIUMII 400 | PENTIUMII 450 |
|-----------------|---------------|---------------|---------------|
| 8.0GB UDMA EIDE | £ 1684 | £ 1934 | £ 2266 |
| 9.0GB WIDE SCSI | £ 1917 | £ 2167 | £ 2499 |
| 18GB WIDE SCSI | £ 2287 | £ 2537 | £ 2869 |

*additional speakers or headphones are required at extra cost.

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

Windows NT 4 Workstation upgrade... £ 77
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 /N
dantum/K6-2/300 £ 550
16-bit Ethernet card £ 15
Workstation price £ 565

Best Seller Station

dantum 2 /N
dantum 2/333 £ 588
Intel Express Pro card £ 40
Workstation price £ 628

Power User Station

dantum 2 WS /N
dantum 2 WS/350MHz £ 1520
Intel Express Pro card £ 40
Workstation price £ 1560



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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www.dan.co.uk



solutions



All Dan PCs are built with BIOS Compiancy

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 4MB 3D Charger AGP 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)

| Pentium®II Processor | PENTIUM®II 350 | PENTIUM®II 400 | PENTIUM®II 450 |
|----------------------|----------------|----------------|----------------|
| 4.0GB | £ 766 | £ 891 | £ 1057 |
| 6.4GB | £ 781 | £ 906 | £ 1072 |
| 4.1GB WIDE SCSI | £ 1094 | £ 1219 | £ 1385 |
| 9.0GB WIDE SCSI | £ 1201 | £ 1326 | £ 1492 |

18GB Wide SCSI HDD from 9GB Wide £ 370

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 4MB 3D Charger AGP 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 | £ 1879 | £ 2004 | £ 2170 |
| 9.0GB WIDE SCSI | £ 1986 | £ 2111 | £ 2277 |
| As above with 2 CPUs installed as standard | | | |
| Dual Processor | PENTIUM®II 350 | PENTIUM®II 400 | PENTIUM®II 450 |
| 4.1GB WIDE SCSI | £ 2043 | £ 2293 | £ 2625 |
| 9.0GB WIDE SCSI | £ 2150 | £ 2400 | £ 2732 |

18GB Wide SCSI HDD from 9GB Wide £ 370

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 £358)
- Choice of single or dual Intel® Pentium®II Processor with 512KB Cache Memory
- ATI 4MB 3D Charger AGP 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 | £3811 | £3936 | £4102 |
| As above with 2 CPUs installed as standard | | | |
| Dual Processor | PENTIUM®II 350 | PENTIUM®II 400 | PENTIUM®II 450 |
| 18GB WIDE SCSI | £3975 | £4225 | £4557 |

dantum 2X RAID Server

DUAL Pentium® II Xeon™ Processor capability

- 128MB PC100 ECC SDRAM (1x128MB)
- 18GB SCSI HDD (3x9GB HDDs in RAID 5 config. with HotSwap capability + spare/redundant 9GB HDD worth £358)
- Choice of single or dual Intel® Pentium®II Xeon™ Processor with choice of Cache Memory
- ATI 4MB 3D Charger AGP 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 | CACHE 512K | CACHE 1MB | CACHE 2MB |
|--|------------|-----------|-----------|
| XEON 450 | £4489 | £6234 | £6812 |
| As above with 2 CPUs installed as standard | | | |
| Dual Processor | CACHE 512K | CACHE 1MB | CACHE 2MB |
| XEON 450 | £5157 | £8647 | £9803 |

For Novell Netware File Servers: you must upgrade the EIDE CD-ROM to SCSI add £ 34 (plus £ 79 for Adaptec AHA 2920 SCSI controller if needed)

Call for information on LVD SCSI Drives

Network upgrades for Dantum systems

Network Cards

| | |
|---|-------|
| 16-Bit Network Card Ethernet (NE2000 comp. -Thin Ethernet/Twisted Pair) | £ 15 |
| 16-Bit Network Card Ethernet (3COM509) | £ 49 |
| 32-bit PCI Ethernet Card (3COM900) | £ 53 |
| 32-bit PCI 100Mbps base-T Ethernet Card (3COM905) | £ 43 |
| 32-bit PCI Intel Express Pro 100UTP Card | £ 40 |
| Intel Express Pro 100UTP Server Card | £ 356 |

Network Hubs

| | |
|---|--------|
| 8 Port 10 base-T Mini Ethernet Hub | £ 25 |
| 16 Port 10 base-T Mini Ethernet Hub | £ 103 |
| Intel stackable 10/100 base 12 Port Hub | £ 796 |
| Intel stackable 10/100 base 24 Port Hub | £ 1294 |

Uninterruptible Power Supplies - UPS

| | |
|------------------------------|-------|
| 1000VA UPS Interactive (APC) | £ 324 |
| 700VA UPS Interactive (APC) | £ 230 |

Tape Streamers for Servers

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

| | |
|--|-------|
| Seagate TapeStore 8000 SCSI | £ 224 |
| 4GB (8GB comp) DAT Streamer +120m tape | £ 495 |
| 12GB (24GB comp) DAT Streamer +125m tape | £ 705 |

Miscellaneous

| | |
|----------------------------------|------|
| 15" Colour Monitor from 14" SVGA | £ 19 |
|----------------------------------|------|

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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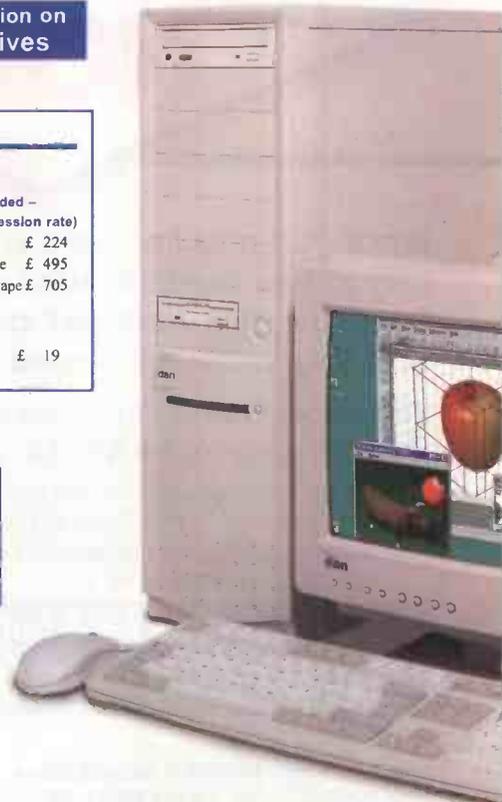
Internet: www.dan.co.uk

e-mail: sales@dan.co.uk



VAT@17.5% E.&O.E. (not shown)

dan technology



For peripherals, contact dp...



Memory

| | |
|---|-------------|
| 8MB Memory 72-pin Module with Parity | £ 19 (23) |
| 16MB Memory 72-pin Module with Parity | £ 37 (44) |
| 32MB Memory 72-pin Module with Parity | £ 70 (83) |
| 16MB EDO RAM 72-pin Memory Module | £ 26 (31) |
| 32MB EDO RAM 72-pin Memory Module | £ 57 (67) |
| 64MB EDO RAM 72-pin Memory Module | £ 105 (124) |
| 16MB SDRAM 168-pin Memory Module | £ 17 (20) |
| 32MB SDRAM 168-pin Memory Module | £ 33 (39) |
| 64MB SDRAM 168-pin Memory Module | £ 65 (77) |
| 128MB SDRAM 168-pin Memory Module | £ 130 (153) |
| 32MB PC100 SDRAM 168-pin Memory Module | £ 36 (43) |
| 64MB PC100 SDRAM 168-pin Memory Module | £ 71 (84) |
| 128MB PC100 SDRAM 168-pin Memory Module | £ 141 (166) |

RAM prices are subject to change. Please call for latest prices.

Video Cards

| | |
|---|-------------|
| ATI 3D Charger PCI 2MB EDO RAM | £ 18 (22) |
| ATI 3D Charger AGP 2MB EDO RAM | £ 18 (22) |
| ATI 3D Charger AGP 4MB EDO RAM | £ 21 (25) |
| ATI Xpert'98 AGP 8MB SDRAM | £ 29 (35) |
| Matrox Productiva AGP 4MB SGRAM | £ 28 (33) |
| Matrox Millennium G200 AGP 8MB SGRAM | £ 77 (91) |
| Matrox Millennium G200 AGP 16MB SGRAM | £ 121 (143) |
| Matrox Marvel G200 AGP 8MB SGRAM | £ 155 (183) |
| Creative Voodoo 2 12MB Accelerator card | £ 78 (92) |

CPUs/Motherboards

| | |
|-------------------------|-------------|
| CPUs | |
| AMD K6-2 300MHz | £ 60 (71) |
| AMD K6-2 350MHz | £ 65 (100) |
| AMD K6-2 380MHz | £ 107 (126) |
| AMD K6-2 400MHz | £ 149 (176) |
| Intel Celeron 300A | £ 57 (67) |
| Intel Celeron 333 | £ 73 (86) |
| Intel Celeron 366 | £ 99 (117) |
| Intel Pentium II 333MHz | £ 141 (166) |
| Intel Pentium II 350MHz | £ 158 (186) |
| Intel Pentium II 400MHz | £ 278 (327) |
| Intel Pentium II 450MHz | £ 438 (515) |

| | |
|--|-------------|
| Motherboards | |
| PCI AT Pentium ALL w/512K Cache (Asus) | £ 58 (69) |
| PCI Pentium II BX (Asus) | £ 79 (93) |
| PCI Pentium II BX (Supernicro) | £ 74 (87) |
| PCI Dual Pentium II BX w/SCSI Controller | £ 241 (284) |
| PCI Dual Pentium II GX w/SCSI Controller | £ 295 (347) |

Hard Disk Drives

| | |
|--------------------------------|-------------|
| 3.2GB EIDE | £ 83 (98) |
| 4.0GB EIDE | £ 88 (104) |
| 6.4GB EIDE | £ 102 (120) |
| 8.0GB EIDE | £ 120 (141) |
| 8.0GB EIDE UDMA (IBM) | £ 140 (165) |
| 10.0GB EIDE UDMA | £ 136 (160) |
| 10.0GB EIDE UDMA 7200rpm (IBM) | £ 203 (239) |
| 13.0GB EIDE UDMA | £ 148 (174) |
| 4.0GB SCSI | £ 238 (280) |
| 9.0GB SCSI | £ 343 (404) |
| 4.0GB Wide SCSI | £ 242 (285) |
| 9.0GB Wide SCSI | £ 344 (405) |

| | |
|---------------------------------------|-------------|
| Promise VESA 2300plus EIDE controller | £ 32 (38) |
| Adaptec ISA 1520 SCSI controller | £ 47 (56) |
| Adaptec PCI 2920 SCSI controller | £ 76 (90) |
| Adaptec PCI 2940 SCSI controller | £ 162 (191) |
| Adaptec PCI 2940 UW SCSI controller | £ 203 (239) |
| Adaptec PCI 3940 SCSI controller | £ 312 (367) |
| Adaptec PCI 3940 UW SCSI controller | £ 347 (408) |

The Company



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FAX: 0181 830 1103

Opening hours: Mon-Fri 10am-6pm
Website: www.dp Ltd.co.uk

Multimedia Devices

| | |
|---|-------------|
| 32max Speed IDE CD-ROM | £ 29 (35) |
| 32x Speed SCSI CD-ROM | £ 61 (72) |
| DVD drive + controller + games | £ 144 (170) |
| TEAC CD-R55S CD Writer (controller required) | £ 186 (219) |
| Yamaha CD-Rewritable 4260 (controller required) | £ 208 (245) |
| Yamaha CD-Rewritable 4416 (controller required) | £ 244 (287) |
| HP 8100i CD Writer (EIDE) | £ 274 (322) |
| Sound Blaster 16 | £ 15 (18) |
| Sound Blaster PCI64 | £ 14 (17) |
| Sound Blaster AWE 64 (OEM) | £ 27 (32) |
| Sound Blaster AWE 64 Gold | £ 80 (94) |
| Sound Blaster Live PCI (Value) | £ 49 (58) |
| Sound Blaster Live PCI (Retail) | £ 117 (138) |
| 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 | £ 15 (18) |
| ISA 16-bit 3COM509 Combo Network Card | £ 47 (56) |
| PCI 32-bit 3COM905 Base-T Network Card | £ 42 (50) |
| PCI 32-bit 3COM900 Combo Network Card | £ 51 (60) |
| 8-port 10 base-T mini Ethernet Hub | £ 24 (29) |
| 16-port 10 base-T mini Ethernet Hub | £ 99 (117) |

Video/TV Combo Cards

| | |
|--|------------|
| The All in Wonder Pro offers a comprehensive one card solution for 2D acceleration, 3D acceleration, video capture, TV and Teletext functions. | |
| ATI All in Wonder Pro AGP 4MB | £ 62 (73) |
| ATI All in Wonder Pro AGP 8MB | £ 74 (87) |
| 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 | £ 99 (70) |
| Hauppauge PCI WinTV & Radio Card | £ 90 (106) |



Fax/Modems

| | |
|---|-------------|
| Internal 56.6KBPS Voice Fax Modem | £ 52 (62) |
| External 56.6KBPS Voice Fax Modem | £ 89 (105) |
| Sportster External 56.6KBPS Flash Fax Modem | £ 89 (105) |
| US Robotics External 56.6KBPS Message Pro | £ 132 (156) |
| Pace ISDN Terminal Adapter | £ 216 (254) |

All modems are BABT Approved

Prices in brackets include VAT @ 17.5% E.&O.E.

Scanners

| | |
|---|-------------|
| The first scanner to automate scanning procedures via HP's Intelligent Scanning Technology, the 5100C boasts resolutions of 600dpi (1200dpi enhanced), 36-bit colour image processor and infinite scaling for monochrome logos and line art. (Includes 1 year return to base warranty.) | |
| HP ScanJet 5100C | £ 165 (194) |



Input Devices

| | |
|------------------------------------|------------|
| Keytronics Keyboard for Windows 95 | £ 11 (13) |
| Microsoft Natural Keyboard | £ 38 (45) |
| Microsoft IntelliMouse | £ 40 (47) |
| Microsoft Joystick | £ 19 (23) |

Monitors



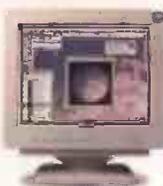
| | |
|--|-------------|
| 14" Iiyama ProLite Flat Panel LCD Monitor .26dot, 1024x768 @ 79KHz | £ 592 (696) |
| 17" Iiyama S701GT SVGA Colour Monitor Shadow Mask, .26dot, 1600x1200 @ 75KHz | £ 275 (324) |
| 17" Iiyama A701GT SVGA Colour Monitor DiamondTron, .25ag, 1600x1200 @ 72KHz | £ 320 (376) |
| 21" Iiyama A102GT SVGA Colour Monitor DiamondTron, .28ag, 1800x1440 @ 75KHz | £ 680 (811) |

14" CTX SVGA Colour Monitor

Shadow Mask, .28dot,
800x600 @ 72KHz
£ 93 (110)

15" CTX PR500T Colour Monitor

Trinitron, .25ag,
1024x768 @ 85KHz
£ 147 (173)



17" CTX VL700 FST SVGA Colour Monitor

Shadow Mask, .28dot, 1280x1024 @ 60KHz

17" CTX PR710T FST SVGA Colour Monitor

Trinitron, .25dot, 1600x1200 @ 70KHz

19" CTX VL950T SVGA Colour Monitor

.26dot, 1600x1200 @ 75KHz

19" ADI MicroScan 6P SVGA Colour Monitor

FST Tube, .26dot, 1600x1200 @ 75KHz



Printers



Modems



Memory

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Printers

| Brother | Exc Vat | Inc Vat |
|------------------------|---------|---------|
| BRO-HL820 | £159 | £186.83 |
| BRO-HL1040 | £179 | £210.33 |
| BRO-HLP2000 Mono P/S/C | £239 | £280.83 |
| BRO-HL1050 | £209 | £245.58 |
| BRO-HL1058 | £224 | £263.20 |
| BRO-HL1070 | £275 | £323.13 |
| BRO-HL1078 | £290 | £340.75 |
| BRO-HL166e | £579 | £680.33 |

| Canon | Exc Vat | Inc Vat |
|-------------------------|---------|---------|
| BJC250 Colour | £70 | £82.25 |
| BJC4300 | £91 | £106.93 |
| CANBJC4300+Scanner | £121 | £142.18 |
| BJC80 Colour | £139 | £163.33 |
| BJC7000 A4 1200x600 dpi | £146 | £171.55 |
| BJC5000 A3 1440 dpi | £165 | £193.88 |
| BJC50 Colour | £188 | £220.90 |
| BJC4650 A3 | £196 | £230.30 |

| Epson | Exc Vat | Inc Vat |
|---------------------------|---------|-----------|
| Stylus 440 Colour | £98 | £115.15 |
| Stylus 640 Colour | £127 | £149.23 |
| Stylus 700 Colour | £138 | £162.15 |
| Stylus 740 Colour 1440dpi | £152 | £178.60 |
| Stylus Colour 850 | £198 | £232.65 |
| Stylus Photo EX A3 | £282 | £331.35 |
| Stylus 1520 A2 Portrait | £432 | £507.60 |
| Stylus 3000 A2 1440dpi | £843 | £990.53 |
| Stylus Pro 5000 A3 | £1,499 | £1,761.33 |

| Hewlett Packard | Exc Vat | Inc Vat |
|---------------------------|---------|-----------|
| DeskJet 420 Colour | £66 | £77.55 |
| DeskJet 690-No Photo Cart | £96 | £112.80 |
| DeskJet 710C+Photoret II | £126 | £148.05 |
| DeskJet 720C | £141 | £165.68 |
| DeskJet 880C USB C6409A | £164 | £192.70 |
| D/Jet 895CXI NW+Phot Ret | £186 | £218.55 |
| D/Jet 1120C A3+Phot Ret | £285 | £334.88 |
| D/Jet 2000C C4530A | £450 | £528.75 |
| D/Jet 2000CN C5901A+Jdr | £675 | £793.13 |
| DeskJet 2500C A3/C2684A | £705 | £828.38 |
| DeskJet 2500CM/C2685A | £900 | £1,057.50 |
| OfficeJet 635C | £296 | £347.80 |
| O/Jet 700C PC Fax Win/NT | £323 | £379.53 |
| OfficeJet 1170 | £491 | £576.93 |
| OfficeJet 1175 | £614 | £721.45 |
| LaserJet 1100 Ret/C4224A | £232 | £272.60 |
| LaserJet 2100 C4170A | £423 | £497.03 |
| LaserJet 2100M C4171A | £480 | £564.00 |
| LaserJet 2100TN C4172A | £600 | £705.00 |
| L/Jet 3100 C3948A | £471 | £553.43 |
| LaserJet 4000 C4118A | £741 | £870.68 |
| LaserJet 5000 A3/C4110A | £929 | £1,091.58 |
| L/Jet 8000 A3/C4085A | £1,477 | £1,735.48 |
| LaserJet 8100 32ppm | £1,687 | £1,982.23 |

| Kyocera | Exc Vat | Inc Vat |
|---------|---------|---------|
| FS 600 | £218 | £256.15 |

Scanners

| Epson | Exc Vat | Inc Vat |
|-------------------------|---------|---------|
| G17000 SCSI Mac&PC | £138 | £162.15 |
| G17000 Phot SCSI Mac&PC | £187 | £219.73 |

| Hewlett Packard | Exc Vat | Inc Vat |
|--------------------------|---------|---------|
| ScanJet 4100C USB | £116 | £136.30 |
| ScanJet 5100/C5197A | £144 | £169.20 |
| S/Jet 6200C Nat Mac Comp | £238 | £279.65 |
| S/Jet 6250C Nat Mac Comp | £278 | £326.65 |

| Novatech | Exc Vat | Inc Vat |
|------------------------|---------|---------|
| Photomaker 6E Parallel | £39 | £45.83 |

Hard Drives

| Fujitsu | Exc Vat | Inc Vat |
|-------------------------|---------|---------|
| MPC3043AT-UD 4.3Gb 11ms | £86 | £101.05 |
| MPC3064AT-UD 6.4Gb 11ms | £106 | £124.55 |

| Seagate | Exc Vat | Inc Vat |
|-----------------------------|---------|---------|
| ST33232A 3.2Gb UDMA | £76 | £89.30 |
| ST34321A 4.3Gb 11ms Ultra | £81 | £95.18 |
| ST36422A 6.4Gb 9.5ms Ultra | £92 | £108.10 |
| ST38641A 8.6Gb 10.5ms Ultra | £112 | £131.60 |
| ST39140A 9.1Gb 9.5ms Ultra | £136 | £159.80 |

| Western Digital | Exc Vat | Inc Vat |
|---------------------|---------|---------|
| AC33200A 3.2Gb UDMA | £81 | £95.18 |
| AC34300 4.3Gb UDMA | £87 | £102.23 |
| AC36400 6.4Gb UDMA | £96 | £112.80 |

Modems

| Hayes | Exc Vat | Inc Vat |
|---------------------|---------|---------|
| Accura 56k Internal | £82 | £96.35 |
| Accura 56k External | £85 | £99.88 |

| Novatech | Exc Vat | Inc Vat |
|----------------------------|---------|---------|
| Novatech 33.6 Internal ISA | £29 | £34.08 |
| Novatech 33.6 External ISA | £34 | £39.95 |
| Novatech 56k Internal PCI | £36 | £42.30 |
| Novatech 56k Internal ISA | £39 | £45.83 |
| Novatech 56k External ISA | £49 | £57.58 |

| 3Com | Exc Vat | Inc Vat |
|----------------------------|---------|---------|
| Voice/Fax 56k V90 Ext | £67 | £78.73 |
| Message Plus 56k V90 Ext | £82 | £96.35 |
| V90 56k PCMCIA Mhertz | £103 | £121.03 |
| Professional Mess. V90 Ext | £101 | £118.68 |

| Novatech | Exc Vat | Inc Vat |
|----------------------------|---------|---------|
| Novatech 33.6 Internal ISA | £29 | £34.08 |
| Novatech 33.6 External ISA | £34 | £39.95 |
| Novatech 56k Internal PCI | £36 | £42.30 |
| Novatech 56k Internal ISA | £39 | £45.83 |
| Novatech 56k External ISA | £49 | £57.58 |

Monitors

| ADI | Exc Vat | Inc Vat |
|---------------------------|---------|---------|
| Microscan 4P 15" TCO 95 | £115 | £135.13 |
| Microscan 5G 17" | £255 | £299.63 |
| Microscan 5GT 17" Trinton | £279 | £327.83 |

| CTX | Exc Vat | Inc Vat |
|------------------|---------|---------|
| 15" 1569SE VL500 | £102 | £119.85 |

| Iiyama | Exc Vat | Inc Vat |
|---------------------------|---------|---------|
| Vision Master Pro 400 17" | £284 | £333.70 |
| Vision Master Pro 450 19" | £398 | £467.65 |

| Novatech | Exc Vat | Inc Vat |
|-----------------------|---------|---------|
| 14" 0.28mm DP Digital | £79 | £92.83 |
| 15" 0.28mm DP | £99 | £116.33 |
| 17" 0.28mm DP | £169 | £198.58 |
| 17" 0.26mm 1600*1200 | £257 | £301.98 |

Networking

| NDC | Exc Vat | Inc Vat |
|----------------------------|---------|---------|
| NWE4300 PCI RJ45 10Base/T | £19 | £22.33 |
| NE100 TX PCI RJ45 10/100 A | £28 | £32.90 |

| Dlink | Exc Vat | Inc Vat |
|----------------------------|---------|---------|
| 528CT Combo PCI | £18 | £21.15 |
| 530TX PCI 10/100 RJ45 Auto | £23 | £27.03 |

Graphics Cards

| Creative Labs | Exc Vat | Inc Vat |
|--------------------------|---------|---------|
| GB Riva TNT 16Mb AGP | £86 | £101.05 |
| 3D Blaster Voodoo 2 12Mb | £72 | £84.60 |

| Hauppauge | Exc Vat | Inc Vat |
|------------------|---------|---------|
| Win TV PCI NICAM | £67 | £78.73 |

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Scanners



Monitors



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Cameras

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Table with columns: Manufacturer, Exc Vat, Inc Vat. Rows include Hauppauge Win TV Radio and Novatech PCI S3 3D DX Mpeg cards.

Sound Cards & Speakers

Table with columns: Manufacturer, Exc Vat, Inc Vat. Rows include Creative Labs SB 16 Value Non IDE and Novatech 60 W Speakers.

Removable Storage

Table with columns: Manufacturer, Exc Vat, Inc Vat. Rows include Iomega Zip Internal IDE and ZIP Drive Parallel Plus 1 Disk.

CD-ROM Drives

Table with columns: Manufacturer, Exc Vat, Inc Vat. Rows include Hitachi 32 x EIDE 80ms Av access and Novatech 36 x EIDE.

Motherboards

Table with columns: Manufacturer, Exc Vat, Inc Vat. Rows include Microstar 5169 ATX 100Mhz Soc 7 and Novatech 100Mhz AT/Sound/8MbAGP/S7.

PC Cases

Table with columns: Manufacturer, Exc Vat, Inc Vat. Rows include Novatech Mini Tower AT-CE Approv. and Mid Tower ATX-CE Approv.

Processors

Table with columns: Manufacturer, Exc Vat, Inc Vat. Rows include AMD K6 3D 333 Mhz and IDT WinChip 3D-200Mhz.

Processors

Table with columns: Manufacturer, Exc Vat, Inc Vat. Rows include Intel Pentium II 350Mhz + Fan and Evergreen Overdrive MxPro 200Mhz.

Memory

Table with columns: Manufacturer, Exc Vat, Inc Vat. Rows include 30 Pin 4Mb 30 pin Simm and 72 Pin Parity 8Mb Simm.

Software

Table with columns: Manufacturer, Exc Vat, Inc Vat. Rows include Intuit Quicken 98 Deluxe and Microsoft Win 98 UG for 3.1/3.11/W95.

Cameras

Table with columns: Manufacturer, Exc Vat, Inc Vat. Rows include Epson Photo PC 600 and JVC GCS1 Dlg. Vid. LCD DV out.

Palm Tops

Table with columns: Manufacturer, Exc Vat, Inc Vat. Rows include 3Com Palm Pilot Professional and Palm III 1/R 3 Fonts emall.

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PCs from only £299 advertisement featuring a desktop PC image, a '14 day money back' badge, and the price '£299'.

EPSON STYLUS COLOR 640 advertisement featuring a printer image and the price 'ONLY £127'.

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| OSM (On Site Maintenance) | | 1yr OSM | 2yr OSM |
|---------------------------|--------------------------------|------------------|---------|
| BROTHER FAX 510 | (THERMAL) | £125 | £205 |
| BROTHER FAX 520DT | TAM (THERMAL) | £165 | £245 |
| BROTHER FAX 920 | (INK FILM) | -NEW £189 | £255 |
| BROTHER MFC 925 | Multi Function (INK FILM) | -NEW £209 | £279 |
| BROTHER MFC 1025 | Multi Function (INK FILM) | -NEW £219 | £296 |
| BROTHER FAX 1020 | (INK FILM) | £219 | £296 |
| BROTHER FAX 1030 | TAM (INK FILM) | £249 | £326 |
| BROTHER FAX 9050 | Multi Function (LASER) | -NEW £399 | £505 |
| BROTHER MFC 9000 | Multi Function (LASER) | £429 | £535 |
| BROTHER MFC PRO700C | Multi Function Colour (INKJET) | £549 | £655 |
| BROTHER PC INTERFACE KITS | | Please Call | |

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| WAR (Warranty) | | 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) | -NEW £470 | £542 |
| OSM (On Site Maintenance) NoWAR (No Warranty) | | 1yr OSM | NoWAR |
| PANASONIC KX-F1810E | (INK FILM) | -NEW £229 | |
| PANASONIC KX-F1830E | Ansafax (INK FILM) | -NEW £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
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- ✓ 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 |
|---|-----------------------------------|---------|-------|
| 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) | | 1yr OSM |
|---------------------------|---------------------------|------------------|
| SHARP UX-108 | (THERMAL) | -NEW £99 |
| SHARP UX-178 | (THERMAL) | -NEW £115 |
| SHARP UX-258 | TAM (THERMAL) | -NEW £149 |
| SHARP FO-1460M | (INK FILM) | £185 |
| SHARP FO-1660M | Multi Function (INK FILM) | £199 |
| SHARP FO-3600M | (LASER) | -NEW £429 |
| SHARP FO-3500M | (LASER) | -NEW £619 |

WE STOCK FULL RANGE OF FAX MACHINE SUPPLIES INCLUDING FAX ROLLS, INK FILMS, INK CARTRIDGES & LASER TONERS

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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 DESKJET 420C | (INKJET) | -NEW £66 |
| HP DESKJET 340C | (INKJET) | £135 |
| HP DESKJET 710C | (INKJET) | -NEW £134 |
| HP DESKJET 720C | (INKJET) | £149 |
| HP DESKJET 2000C | (INKJET) | -NEW £450 |
| HP DESKJET 2000CN | NETWORK (INKJET) | -NEW £675 |
| HP DESKJET 2500C | (INKJET) | -NEW £705 |

HP LASERJET 1100 £232

Copy and Scan with Your Printer

- ✓ Up to 8ppm Print Speed • 2 Mb Memory with MET
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- ✓ 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 |

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|-----------------------|-------------|-------------------|
| HP LASERJET COMPANION | (COMPANION) | £79 |
| HP LASERJET 5000 | A3 (LASER) | -NEW £929 |
| HP LASERJET 5000N | A3 (LASER) | -NEW £1334 |
| HP LASERJET 5000GN | A3 (LASER) | -NEW £1649 |
| HP LASERJET 8000 | (LASER) | -NEW £1574 |
| HP LASERJET 8000N | (LASER) | -NEW £1762 |
| HP LASERJET 8000DN | (LASER) | -NEW £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 | £66 |
| HP Black Cartridge 51645A | £17 |
| HP Colour Cartridge C1823A | £21 |

| | | |
|------------------------|-----------|------------------|
| HP SCANJET 4100C | (SCANNER) | -NEW £115 |
| HP SCANJET 5100C | (SCANNER) | £149 |
| HP SCANJET 6200C | (SCANNER) | -NEW £237 |
| EPSON STYLUS COLOR 440 | (INKJET) | -NEW £103 |
| EPSON STYLUS COLOR 640 | (INKJET) | -NEW £133 |

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 |

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|--------------------------|--------------------------|-------------------|
| HP COLOR LASERJET 4500 | PCL (COLOR LASER) | -NEW £1875 |
| HP COLOR LASERJET 4500N | Network (COLOR LASER) | -NEW £2130 |
| HP COLOR LASERJET 4500DN | Postscript (COLOR LASER) | -NEW £2610 |

WE STOCK FULL RANGE OF INKJET & LASER PRINTER SUPPLIES FOR BROTHER, CANON, HP, KODAK, LEXMARK, MT, OLIVETTI, XEROX ETC.

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The state of the art inkjet printer for advanced home and business users

- ✓ EPSON Ultra MicroDot - the world's smallest ink droplet
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- ✓ 1440dpi with EPSON Variable-Sized Droplet Technology
- ✓ Advanced PhotoReal colour printing • 40% speed improvement
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- ✓ Optimised for plain paper printing

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|--------------------------------|-----|
| EPSON Black Cartridge S020189 | £16 |
| EPSON Colour Cartridge S020191 | £16 |

HP LASERJET 4000 £710

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- ✓ 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 |

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CANON 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 | (BC10) £10 | |
| Canon BJ70/80 | (BC11) £26 | |
| Canon BJ70/80...TANKS 3's | (BC11) £10 | £14 |
| Canon BJC600 | (20118/1BK/CM) £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 (BC12) | £5 | £15 |
| Canon 42/4300/45/4650 Photo Cart. (BC22E) | | £20 |
| Canon 42/4300/45/4650 Photo Kit (BC22K) | | £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 | |

CANON INKJET MEDIA

| Coated Paper (200) | A4 | A3 |
|---------------------------------------|-----|-----|
| DoubleSidedCoated (200) (LC301) | £12 | £25 |
| High Resolution (200/100) (HR101) | £17 | £17 |
| Glossy Paper (A4-20/A3-10) (GP201) | £7 | £7 |
| High Gloss Film (20) (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 | (PC60BK) £21 |
| Panafax UF342/44 | (3502/03) £26 |
| Samsung SF4200 | (1380620/19) £21 |
| Toshiba TF461 | (1380620/19) £21 |

EPSON SUPPLIES

| EPSON INK CARTRIDGES | Black | Colour |
|-----------------------------|----------------------------|--------|
| Stylus Col. Pro XL | (20034/20036) £10 | £19 |
| Stylus Pro XL+ | (20034/20066) £10 | £20 |
| Stylus Col. II/III/820 | (20047/20049) £13 | £18 |
| StylusPhoto/700/EX | (20093/20110) £14 | £14 |
| Stylus 200 | (20047/20097) £13 | £18 |
| Stylus 300 (4 Colour Cart.) | (20138) £15 | £18 |
| Stylus 500 | (20093/20097) £14 | £18 |
| Stylus 400/600 | (20093/20099) £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) (S041101) | £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) (S041123) | £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) (S041123) | £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 SUPPLIES

| 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/Y/M) £18 | £19 |
| HP Deskjet 1600 | (51645A/40C/Y/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/Y/M) £15 | £17 |



HP A4 INKJET PAPER MEDIA

| | |
|---|-----|
| HP Premium Inkjet Paper (200) (51634Z) | £12 |
| HP Premium Glossy Paper (10) (3831A) | £7 |
| 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 DeluxePhotoPaper (890C) (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 |

HP A3 INKJET PAPER MEDIA

| | |
|---------------------------------------|--------|
| HP Bright White Paper (200) (1858A) | £15.50 |
| HP Premium Inkjet Paper (100) (1856A) | £19.50 |
| HP Premium Photo Paper (20) (6059A) | £23.50 |

OTHER SUPPLIES

| Apple Stylewriter I/II | Black | Colour |
|--------------------------------------|--------------|--------------|
| Apple Stylewriter I/II (APM8041G) | £14 | |
| Brother HJ100/400 | (BRN110) £21 | |
| Brother HJ770 | (BRN20) £16 | |
| Brother MC3000/MFC700 | (LC01) £13 | CY/M £5 |
| Kodak Diconex 150/180/330C | £10 | £15 |
| Lexmark Winwriter150 (1380620/19) | £21 | £25 |
| Lexmark PS4079 (1380490/1C/2Y/3M) | £15 | £20 |
| Lexmark 2020/2030 | (1380620/19) | £21 £25 |
| Lexmark 1050/1070 | (1382050/60) | £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 XJ4C/XJ6C Work Home Centre | | £12 CY/M £21 |
| Xerox 3006 | (8R7638) | £46 |

THERMAL Black Colour

| | | |
|-------------------------------|----|----|
| Alps MD-1000/2010/2300/4000 | £4 | £5 |
| Citizen Printiva 600/700/1700 | £4 | £5 |

INKJET REFILLS (2's)

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|-------------------------|-------------|-----|
| Jetfill Epson Stylus800 | Refills 2's | £10 |
| Jetfill Canon BC01/02 | Refills 2's | £10 |
| Jetfill HP DJ-500/600 | Refills 2's | £15 |

MISC. LASER/INKJET

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| Copy Speed Paper (80gsm) (2500) | £20 |
| PlusJet 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) | £13 |
| HP Laser Transparency (50) | (92296U) £14 |

PHOTO INKJET PAPER 15's

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| Kodak A4 Letter Weight Paper | £9 | £24 |
| Kodak A4 Photo Weight Paper | £9 | £24 |
| Kodak A3 Photo Weight Paper | | £38 |

3M INKJET TRANSPARENCY (A4)

| | |
|--|-----|
| 3M Films Epson/Canon Colour (50) (CG3410) | £20 |
| 3M Films HP Deskjet/PaintJet (50) (CG3460) | £24 |
| 3M Films Canon/Dec/Epson/HP (50) (CG3480) | £24 |

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| Apple Laserwriter Select 300/310/360 | (M1960/GA) £75 | HP Laserjet II / IID / III / IIID | (92295A) £42 | Mannesmann Tally MT904/908 | (Pack of 2) £18 |
| Apple Personal Laserwriter NT/NTR/SC | (M0089L) £66 | HP Laserjet IIP / IIP | (92275A) £49 | Mannesmann Tally MT905 or MT906 | (Pack of 2) £18 |
| Apple Personal Laserwriter 300/302 | (M2045/GA) £58 | HP Laserjet 4L / 4ML / 4P / 4MP | (92274A) £39 | Nec Silentwriter S60P/S62P/S102P | £119 |
| Brother HL630/660/FAX5000P/6000 | (TNDR100) £19 | HP Laserjet 5L/6L/3100 | (C3906A) £36 | Nec SuperScript SS610 | £84 |
| Brother HL730/760/FAX8000P/9000 | (TNDR200) £18 | HP Laserjet 1100/1100A | (C4092A) £36 | Oki Okipage 4W | (5089/5096) £18 |
| Brother HL820/1050/1060 | (TNDR300) £19 | HP Laserjet 5P / 5MP / 6P / 6MP | (C3903A) £45 | Oki OL100/400/800/30/40/50/70 | (4452/4459) £20 |
| Brother HL1260/1660 | (EP-CARTRIDGE) £78 | HP Laserjet 4/4M/4+ / 5/5N/5M | (92298A) £54 | Oki Laser OL400E / 410E-EX | (4851/4856) £15 |
| Brother HL2400 Colour Laser | (EPN-BLACK) £66 | HP Laserjet 4/4M/4+ / 5/5N/5M High Cap. | (92298X) £60 | Olivetti PG306/308/404/408 | (62376/2/82377/82505)* £24 |
| Canon CLBP 360PS Colour Laser | (EPN-BLACK) £59 | HP Laserjet IIISi / 4Si | (92291A) £62 | Panasonic KXP4400/4401/5400 | (KXP455/PDM5)* £10 |
| Canon LBP2460 | (EPW) £109 | HP Laserjet 4V / 4MV | (C3900A) £79 | Panasonic KXP4420 | (KXP451/PDM2)* £25 |
| DataProducts LZR 650/900/960/965 | £32 | HP Laserjet 5Si | (C3909A) £95 | Panasonic KXP4410/4430/4440 | (KXP453/PDM5)* £24 |
| Epson GQ3500/GQ5000 | (RICOH 6000) (£760/5793) £16 | HP Laserjet 4000 Series | Standard (C4127A) £59 | Panasonic KXP4450/4451/4455 | (KXP450/PDM3)* £20 |
| Epson EPL3000 | (S051020) £73 | HP Laserjet 4000 Series High Cap. | (C4127X) £85 | Panasonic KXP6100/6150 | (KXP457/PEP3)* £12 |
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| Epson EPL5000/5100/5200 | (S051011) £92 | HP Colour Laserjet 5 | Black (C3105A) (C02/703/M04A) £25 | Panasonic KXP7200 | (PEP6)* £145 |
| Epson EPL5500 | (S050005/51029) £28 | IBM 4019/28/29/WinWriter 600 | (High Yield-1380950) £145 | Ricoh PC 6000 / Oki Laserline 6 | (6000C/6000D/C) £12 |
| Epson EPL5600/EPL-N1200 | (S051016) £68 | IBM 4039 / 3916 | (High Yield-1380950) £149 | Ricoh LP1200 | (J728-05/1200/C) £85 |
| Epson EPL-N2000 | (S051035) £140 | IBM Lexmark Optra/L/4039 | (High Yield-1382140) £155 | Sharp JX9200/9210 | (JX920C/DR) £39 |
| Epson EPL5700 | (S051010/51055) £58 | IBM Lexmark Optra N | (High Yield-1382140) £145 | Sharp JX9400/9460/9600/9660 | (JX960C/DR) £69 |
| Epson EPL7100/7500/8000/8100 | (S051009) £131 | Kodak Ektaplug 7008 | £20 | Sharp JX9500 | (JX950C/DR) £32 |
| Epson EPL9000 / 9100 | (S051022) £149 | Kodak Ektaplus 7016 | £89 | Star WinType 4000 EPX-B | (STB7339/430) £68 |
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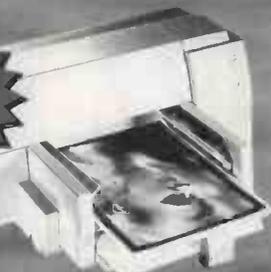
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| 312D - P233MMX, 32MB, 2.1GB, 8.4" DS 24xCD Ext. 56k | £899 (1056.33) | 310CDT - P200-MMX, 32MB, 2.1GB, 12.1" TFT, Col, 16x CD | £899 (1056.33) |
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| 501DX - P266MHz, 32MB, 3.2GB, 12.1" HPA 20xCD 56k | £969 (1138.58) | 320CDT - P233-MMX, 32MB, 3.8GB, 12.1" TFT Col, 20x CD | £1169 (1373.58) |
| 501T-P266MMX, 32MB, 3.2GB, 12.1" TFT 20xCD 56k | £1049 (1232.58) | 4000CDS - PII 233, 32MB, 3.8GB, 12.1" DS Col, 24x CD | £989 (1162.00) |
| 710DX - PII 233, 32MB, 2.1GB, 12.1" DS 24xCD 56k | £899 (1056.33) | 4000CDT - PII 233, 32MB, 3.8GB, 12.1" TFT Col, 24x CD | £1199 (1408.83) |
| 710T - PII 233, 32MB, 3.2GB, 12.1" TFT 20xCD 56k | £1199 (1408.83) | LIBRETTO 70 - P120, 16MB, 6.1" TFT Col, WIN 95 | £599 (703.83) |
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| 711TE - PII 266, 64MB, 4GB, 13.3" TFT 20xCD 56k | £1749 (2055.08) | TECRA 8000 - PII 233, 32MB, 3.8GB, 12.1" TFT Col, 24x CD | £1579 (1855.33) |
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| | | TECRA 8000-P1300, 64MB, 7.6GB, 14.1" TFT Col, 16x CD/DVD | £2665 (3131.38) |
| IBM | | COMPAQ | |
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| 390 - PII 233, 32MB, 3.2GB, 24x CD, WIN 98, 12.1" TFT | £1125 (1321.08) | A17 - PII 300, 32MB, 5GB, 24x CD, 14.1" TFT | £1990 (2338.25) |
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| 600 - PII 266, 32MB, 4GB, 24x CD, WIN 95, 13.3" TFT | £1999 (2348.83) | A74 - PII 266, 32MB, 4GB, 24x CD, 13.3" TFT, W95 | £1990 (2338.25) |
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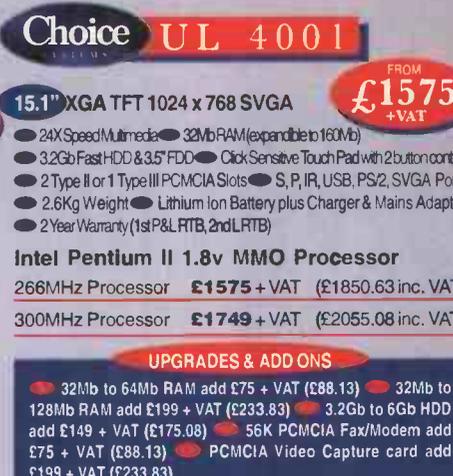
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300MHz Processor **£1325 + VAT** (£1566.33 inc. VAT)

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300MHz Processor **£1749 + VAT** (£2055.08 inc. VAT)

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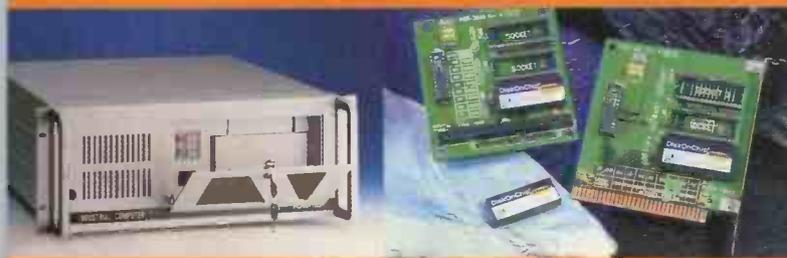
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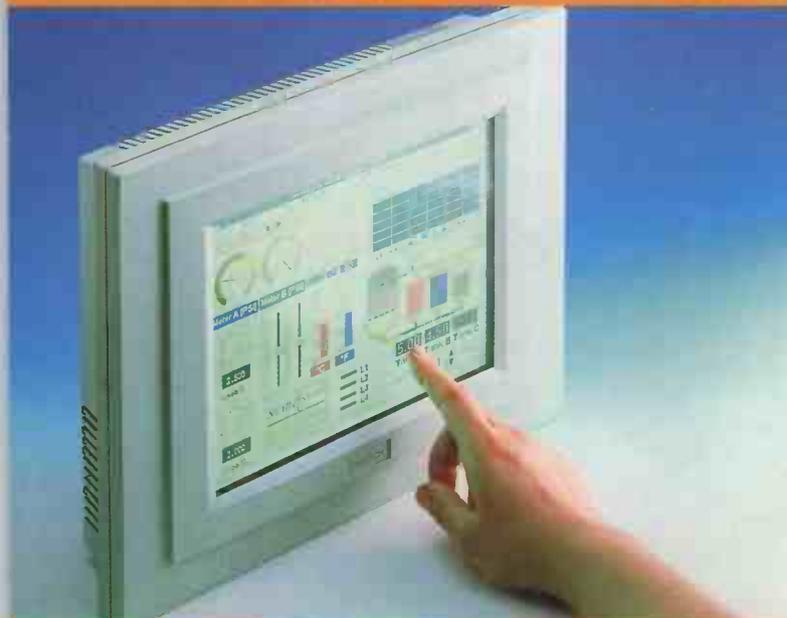
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MIPC-50CT (front)

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 - Pavilion 5010, Vectra N2, VE, VL2 486, VL3, XM2, XM3, XUS Series.
 - Vectra 520, 525 II, VL5 DT & MT Series, VT6, XU6 & XW Series.

- Hewlett Packard (cont.)**
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 - Pavillion 5235, 7230, 8100
 - Vectra XU575, VL2, M2, N2, XM3
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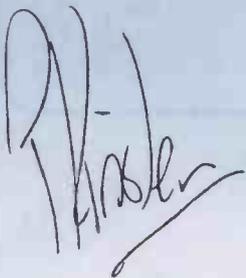
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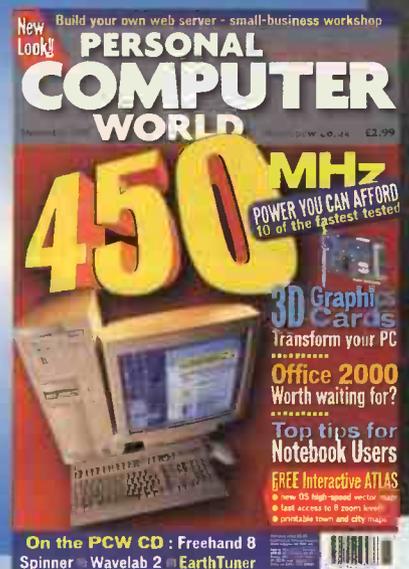
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- 15" SVGA .28 Colour Monitor
- 8MB AGP 3D Accelerated Graphics Card
- DVD ROM Drive compatible with CD
- Creative Labs Soundblaster 64 Wavetable Integrated Sound plus Tiny CPR50 Stereo Speakers
- Epson Stylus 440 Colour Printer
- Flatbed Colour Scanner
- Olympus C-840L/D-340L Digital Camera & Image Editing Software
- Joystick
- Voice Fax/Modem v.90 56Kbps
- Free Trial BT LineOne Internet Access
- PS2 Instant Access Keyboard
- Microsoft® Intellimouse™
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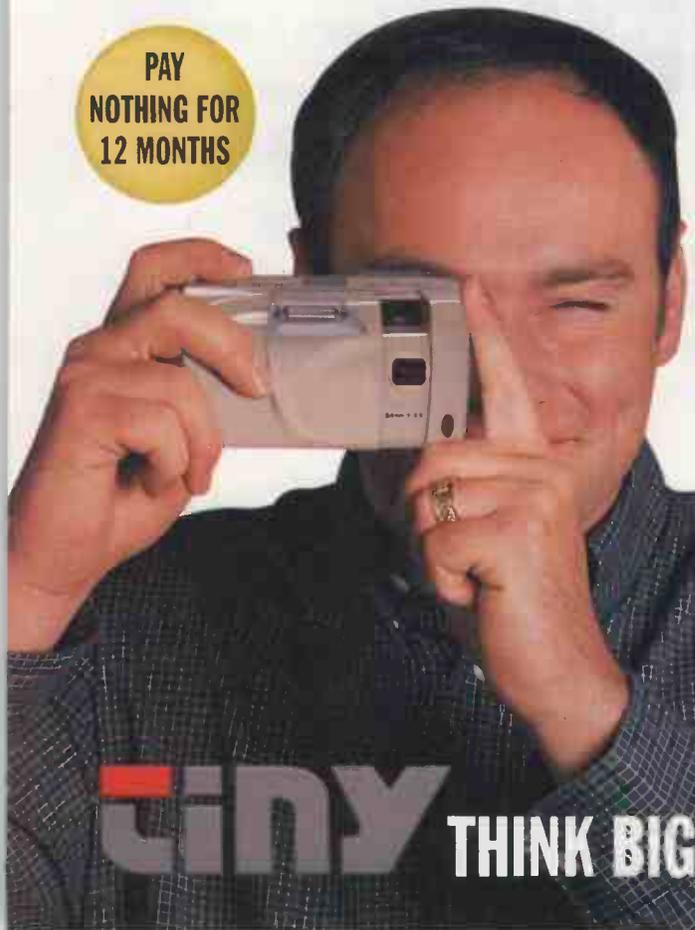
The latest Tiny Home Studio™ Enthusiast system isn't simply a super high-spec PC.

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It's so easy to buy the PC you want from Tiny. We offer two simple repayment options.

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POWER ADVANTAGE SYSTEM

Our newest multi-purpose, multi-media family PC has everything - DVD, colour printer, scanner and FREE Tutorial Software. Outstanding specification with a software package to match at an affordable price.

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The highest specification PC available on the high street today... complete with Intel® Pentium® II Processor 450MHz, 10GB hard disk drive, massive 19" monitor and a fantastic range of top quality software.

ULTRA PERFORMANCE SYSTEM

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 512K CPU Cache
 128MB FAST SD RAM 100MHz
 (expandable to 256MB)
 10GB Ultra DMA IDE Hard Disk Drive
 (2xTransfer Rate)
 19" SVGA .28 Colour Monitor
 16MB 128bit AGP 3DFX Voodoo Banshee
 Graphics Card
 DVD ROM Drive compatible with CD
 Creative Labs Soundblaster 64 Wavetable
 Integrated Sound
 500 Watt PMPO Sub Woofer & 2 Satellite Speakers
 Joystick
 Voice Fax/Modem v.90 56Kbps
 Free Trial BT LineOne Internet Access
 Cockpit Pro Steering Wheel
 TV Tuner with teletext
 PS2 Instant Access Keyboard
 Microsoft® Intellimouse™
**FREE Microsoft® Windows® 98 Interactive
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 Easy to use System Restorer Pack
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 Over £730 of Microsoft and Other Software
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Includes joystick



Includes TV tuner



Includes cockpit pro

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the TINY comfort zone

PC '98 Certified. 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*.



Beware of others who charge you extra for these essentials and supply an inferior keyboard and mouse.

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

Call in...

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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If you live too far from one of our 87 nationwide showrooms or prefer to buy by phone, then find out about the hottest PC specs and prices on our current Tiny Systems from the latest Tiny catalogue. To receive your copy simply



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The 0% option. It's true. Pay nothing until the year 2000 then pay the whole balance on the due date or before. Or you can choose our finance plan of 36 monthly payments at a current interest rate of 26.9% APR. Interest calculated from day one of the agreement. This payment methods is offered on all systems. (Finance subject to status)

A LOT MORE PC FOR YOUR MONEY!

HOME STARTER SYSTEM

(with Microsoft® ActiMates™ Barney™ PC Pack and Software)

Best value PC for starters. You get so much more for your money with a Tiny Home Starter system, even at such a low price you are assured of quality and thanks to the Tiny Comfort



celeron™
PROCESSOR

Zone. The Home Starter System even includes an Intel® Celeron™ Processor 333 MHz, Interactive Microsoft® Barney™ PC Pack, Voice Fax/Modem v.90 56Kbps and Hewlett Packard 420 colour printer.



Includes printer



Includes Barney™

£649 ex VAT
£762.58 inc VAT†

THINK BIG ABOUT YOUR PC, THINK TINY

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Digital Video Broadcast



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EveshamVale

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Above: Our purpose-built Headquarters at Vale Park, Evesham.
 Left: Our spacious new showroom, in Vale Park Evesham.

Monday-Friday 9:00 - 19:00
 Saturday 9:00 - 17:30
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*Showrooms are closed until 10:00 on Monday for staff training.

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

Business Sales Centres
 Glasgow
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Software

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 packed 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 - 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.



Office97 software bundles

Available with any EveshamVale Multimedia or Media98 PC

| Microsoft Office 97 (Professional Edition) | Microsoft Office 97 (Small Business Edition) | Microsoft Office 97 (Professional Edition) |
|---|--|---|
| For the home user we offer Office 97 Professional Student Edition: ♦ Word 97 ♦ Access 97 ♦ Excel 97 ♦ Outlook 97 ♦ Powerpoint 97 | ♦ Word 97 ♦ Publisher 97 ♦ Excel 97 ♦ Outlook 97 ♦ AutoRoute Express | ♦ Word 97 ♦ Access 97 ♦ Excel 97 ♦ Outlook 97 ♦ Powerpoint 97 |
| (£99-VAT) £116.33 | (£140-VAT) £175.08 | (£239-VAT) £280.83 |

*To qualify for the Student Edition you or someone in your family needs to be aged 5 or over and in full or part time education on a Dept for Education & Employment (DfEE) recognised course, as either a student or teacher. Product supplied via voucher redemption. Product supplied is Office 97 Upgrade Pack, plus a suitable product to upgrade from. All Office 97 products supplied feature on-line documentation.

"Very Professional" RC Upper School.

"Problem quickly diagnosed and cured. 10/10." Themeclear Ltd.

"We were very satisfied with your service. Thankyou." W. M. Skelton & Co.



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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 for an immediate free consultation on:
0800 496 0600

Personal Finance Options

Buy now – pay August 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)

Available with any purchase over £500. Credit available subject to status. Written details available on request.

ValeStart Installation

Do you need a little help installing your new computer?

For just (£50+VAT) **£57.58** one of our ValeStart technicians will deliver your computer to your home and ensure that it is properly installed.

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 or 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 – these are available on request. EAOE. As part of our staff training programme some telephone calls may be monitored.



The Best Service and Support

on-site Warranty 2 year

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 as much as £200 for 2 years on-site cover!!



0800 Technical Support



Above: Our technical support department which now numbers over 30 strong.

"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., Shipton on Stour

"As usual, excellent – decisive, expert support gets my business every time. Showroom pre-sales always objective and informed." I. C., Cheltenham



"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

All EveshamVale PCs Include the following:

- ♦ 14 Day moneyback guarantee
- ♦ 2 years on-site warranty (PC Systems)
- ♦ 2 years warranty with accidental damage insurance (notebooks)
- ♦ 3 years on-site warranty (Fileservers and DesignStations)
- ♦ Lifetime freephone technical support hotline
- ♦ Free Internet access with local rate call charges (models with modems)
- ♦ Year 2000 ready BIOS
- ♦ 2 USB ports (PCs), 1 USB port (notebooks)
- ♦ 1 parallel port and 2 serial ports with 16550 UART
- ♦ 3.5" 1.44MB floppy disk drive
- ♦ Windows98 installed, with full manuals and disks supplied. (Windows95 is a no cost option)
- ♦ TÜV approved power supply with low noise fan

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Fax: 0121 683 8869

CAMBRIDGE
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Fax: 01223 322 883

MILTON KEYNES
01908 230 898
Fax: 01908 230 865

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Fax: 0113 203 2001

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3

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New Technology

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See page 3 for details

Intel Celeron 366MHz and 400MHz processors

Intel have done it again! The Celeron 333MHz processor, with 128kB of processor speed cache, broke the traditional price/performance barriers. Now the new processors running at 366MHz and 400MHz are set to continue the trend. Remember that these are genuine clock speeds - Celeron really does offer far better performance than other budget processors bearing the same number.

The best value for money available.



Satellite TNT Live!



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.

*Satellite Dish is not included as standard.



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! 256 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.



Environmental Audio™
 by CREATIVE

The SoundBlaster Live! 256 hardware-accelerated Environmental Audio Extensions™ (EAX™) support new titles and offer an experience that goes way beyond 3D audio.

PCAnswers verdict

- ✓ Knockout surround sound
- ✓ Powerful sound processor
- ✓ Open and excellent EAX standard
- ✓ Not quite Digital Dolby standard

Overall 91%

"The SB Live! will do for sound, what Voodoo did for graphics"
95% - PC Format



"A brilliant all-rounder for music and games. Should stand the test of time."
Computer Buyer, SoundBlaster Live!

Sound BLASTER Live!



"It will blow your home theatre away!"

"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

For PCs featuring the SoundBlaster Live! 256 value see our GameStation III model on page 5 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.



"Blistering performance for windows and games. A clear Top 50 champion!"
Computer Buyer, Velocity 4400



"The RIVA TNT chip broke a few records for its outstanding DirectX 3D gaming speed."
PC Advisor, Velocity 4400



"It really is stunningly fast, giving performance roughly equal to a dedicated Voodoo II 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. There's no doubt that the Riva TNT is currently the best 2D/3D chipset out there, and the Velocity uses it to supreme effect."
Personal Computer World, Velocity 4400

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ENTHUSIAST'S EDITIONS

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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 400Mhz Intel Celeron 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 Celeron 400 MULTIMEDIA PC
with the following upgrades:

- ◆ 10GB hard disk
- ◆ Creative Labs 12MB Voodoo 2 3Dfx card
- ◆ Creative Labs SoundBlaster Live! 256 sound card
- ◆ 17" EveshamVale monitor
- ◆ Diamond PCI v.90 56k voice capable modem
- ◆ Free Internet access (local rate call charges)
- ◆ 3rd generation 4.8x DVD-ROM drive
- ◆ Creative Labs FourPointSurround speaker system
- ◆ Suncom F15-E Talon joystick

See page 6 for full details of Prestige models



GameStation III in the desktop case (Multi-Tower case is a no cost option)

(£1062.98+VAT)

£1249

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

Want the PC with the best game-playing performance?

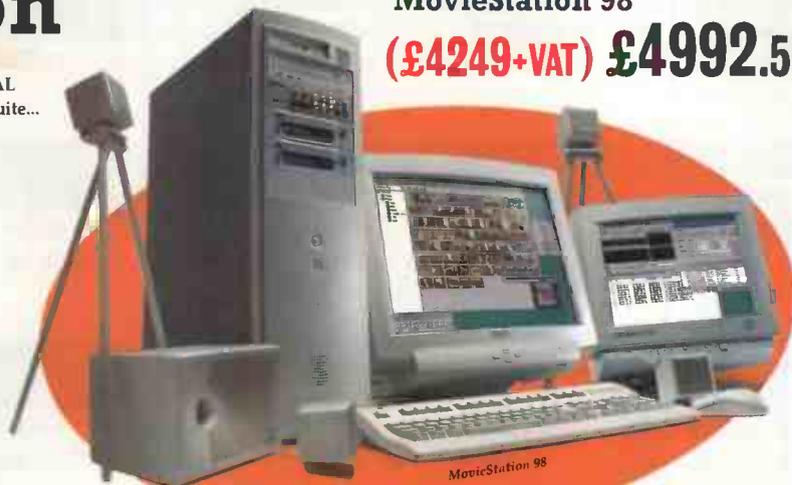
canopus CREATIVE LABS Panasonic YAMAHA Quantum CAPACITY FOR THE EXTRAORDINARY™ adaptec

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
- ◆ 6.4GB IDE boot disk
- ◆ 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
- ◆ 3rd generation 4.8x DVD-ROM drive - or upgrade to DVD-RAM
- ◆ Creative Labs SoundBlaster Live! 256 sound card
- ◆ Creative Labs PCWorks FourPointSurround speaker system
- ◆ Logitech 'wheel' mouse
- ◆ Windows 98



MovieStation 98

(£4249+VAT) **£4992.58**

canopus DVREx-M1

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

"this is a professional system that will find happy use in day-to-day editing situations."
DV REX-M1 ONLY
(£1799+VAT) **£2113.83**

newmedia "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 NT:

- ◆ 8MB ATI Xpert 98 AGP 3D graphics
- ◆ 21" Taxan Ergovision 2160 TCO95 DiamondIron monitor
- ◆ Windows NT

Other specifications as MovieStation 98

(£4449+VAT)

£5227.58

MovieStation EL:

- ◆ Single processor capable motherboard
- ◆ 10.2GB Quantum Fireball EX 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

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 ROM drive | deduct (£40+VAT) | £47.00 |
| DVD-RAM drive instead of DVD-ROM (MovieStation 98 and NT models only) | (£280+VAT) | £329.00 |
| Panasonic CW7582 recordable CD drive with Adaptec Easy CD Creator software 10EM version | (£165+VAT) | £193.88 |
| Canon XL1 DV camcorder | (£2720+VAT) | £3196.00 |

Customer ratings

| | |
|-----------------|------------|
| Performance | 5 |
| Features | 5 |
| Ease of use | 4 |
| Value for money | 4 |
| Overall rating | 90% |

"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

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Prestige

Our benchmark PC – available in a range of configurations to suit most applications.

Prestige Standard models:

- ◆ Intel 440 AGPset (Celeron models)
- ◆ Intel 440BX AGPset (Pentium II models)
- ◆ 128kB processor speed cache (Celeron models)
- ◆ 512kB cache (Pentium II models)
- ◆ ATI 8MB Xpert98 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
- ◆ Choice of desktop or midi-tower case
- ◆ 'Windows95' keyboard
- ◆ Logitech 'wheel' mouse

Prestige MULTIMEDIA, Media98 and Office models also have the following hardware:

(in addition to Standard)

- ◆ 32x CD-ROM drive
- ◆ SoundBlaster 16 compatible sound (Celeron models)
- ◆ SoundBlaster PCI 64 value wavetable sound (Pentium II models)
- ◆ Amplified speakers



Prestige Multimedia PC with 17" EveshamVale monitor

Create your own CDs!

- ◆ Create data, and multimedia CDs on your PC.
- ◆ Create custom audio CDs which are playable in any CD player.
- ◆ 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 with Adaptec Easy CD Creator software (OEM version).....(£165+vat) £193.88

See p2 for details of Media98 software.

Microsoft Office 97
See p2 for details of the Microsoft SBE software pack

EveshamVale Prestige: 15" monitor, 32MB RAM, 4GB HDD

| Processor: | Standard | MULTIMEDIA | Media98 | Office |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| Intel Celeron™ 333 | (£529+vat) £621.58 | (£569+vat) £668.58 | (£649+vat) £762.58 | (£699+vat) £821.33 |

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

EveshamVale Prestige: 15" monitor, 64MB RAM, 6.4GB HDD

| Processor: | Standard | MULTIMEDIA | Media98 | Office |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| Intel Celeron™ 366 | (£619+vat) £727.33 | (£659+vat) £774.33 | (£739+vat) £868.33 | (£789+vat) £927.08 |
| Intel Celeron™ 400 | (£659+vat) £774.33 | (£699+vat) £821.33 | (£779+vat) £915.33 | (£829+vat) £947.08 |

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

EveshamVale Prestige: 17" monitor, 64MB RAM, 6.4GB HDD

| Processor: | Standard | MULTIMEDIA | Media98 | Office |
|-----------------------|----------------------|----------------------|----------------------|----------------------|
| Intel Pentium® II 400 | (£869+vat) £1021.08 | (£909+vat) £1068.08 | (£989+vat) £1162.08 | (£1039+vat) £1220.83 |
| Intel Pentium® II 450 | (£1009+vat) £1185.58 | (£1049+vat) £1232.58 | (£1129+vat) £1326.58 | (£1179+vat) £1385.33 |

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

Prestige upgrades

| | |
|---|----------------------|
| 32MB to 64MB RAM (Celeron 333 models)..... | (£40+vat) £47.00 |
| 64MB to 96MB RAM (Celeron 366/400 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) £32.25 |
| 17" EveshamVale monitor (Celeron models)..... | (£85.11+vat) £100.00 |
| 17" Taxan Ergovision 735 TCO99 monitor (Celeron models)..... | (£130+vat) £152.75 |
| 17" Taxan Ergovision 735 TCO99 monitor (Pentium II models)..... | (£45+vat) £52.88 |
| Diamond PCI v.90 56k voice capable modem..... | (£49+vat) £57.58 |
| Panasonic CW7582 recordable CD drive with Adaptec Easy CD Creator software (OEM version)..... | (£165+vat) £193.88 |
| ValeStart delivery and installation service (see page 3)..... | (£50+vat) £58.75 |

SpaceStation

Prestige Celeron 366MHz 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)
£1350.08
Including the PC!

Reviews



"The Prestige is a good machine at a very competitive price. If you're working to a tight budget, this machine should be at the top of your short list" EveshamVale Prestige



"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



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



"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



"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



"A good, well-designed machine offering superb value for money." EveshamVale Prestige

Evesham Micros

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EveshamVale

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Now Open
On Sunday
10.00 - 12.00

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SEE PAGE 3 FOR DETAILS

Prestige Scorcher 366

Intel have done it again with the new Celeron 366 processor. Using the same ground breaking technology as the 333, the new model brings a performance boost to keep it firmly ahead of the competition in the power per pound stakes. Combine this with EveshamVale's legendary build quality and service, and you have an unbeatable performance PC at a budget price.

Prestige Scorcher MULTIMEDIA models:

- ◆ Latest Intel motherboard with Intel 440ZX 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
- ◆ Creative Labs SoundBlaster PCI 64 Value wavetable sound
- ◆ Zy-Fi amplified speakers
- ◆ Diamond PCI v.90 56k voice capable modem
- ◆ Free Internet access (local rate call charges)
- ◆ 2x Universal Serial Bus (USB) ports
- ◆ Logitech 'wheel' mouse
- ◆ 14 day moneyback guarantee
- ◆ 2 years on-site maintenance for parts and labour
- ◆ Lifetime technical support hotline

17" EveshamVale monitor upgrade
(£85 n.vat)
£100 inc VAT



Prestige Scorcher 366 with optional 17" monitor

Prestige Scorcher 366 - 15" monitor, 64MB RAM, 6.4GB HDD

| Processor: Intel | MULTIMEDIA | Media98+ | Office |
|------------------|-----------------|--------------------|--------------------|
| Celeron™ 366 | (£680.vat) £799 | (£816.17.vat) £959 | (£819.vat) £962.33 |

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

Prestige Scorcher 400-DVD

Maximum performance with maximum upgradeability. Scorcher 400 models use the Intel 440BX chipset - this has a 100MHz capable system bus & RAM and can be upgraded to the fastest Pentium II processor.

Prestige Scorcher 366 with the following upgrades:

- ◆ Chaintech 6BTM motherboard with Intel 440BX AGPset, 100MHz bus and seePU and APTC technologies
- ◆ 64MB SDRAM (100MHz)
- ◆ 8.4GB Ultra ATA hard disk
- ◆ 3rd generation 4.8x DVD-ROM drive
- ◆ 17" EveshamVale monitor

Prestige Scorcher 400 - 17" monitor, 64MB RAM, 8.4GB HDD

| Processor: Intel | MULTIMEDIA | Media98+ | Office |
|------------------|--------------------|---------------------|---------------------|
| Celeron™ 400 | (£850.21.vat) £999 | (£986.38.vat) £1159 | (£979.vat) £1150.33 |

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

Prestige TNT - DVD

TNT models get their name from STB's exciting new Velocity 4400 graphics accelerator. At its heart is the nVidia Riva TNT graphics engine, which has quickly established itself as the 2D/3D chipset. Add 128MB of RAM and the latest DVD-ROM drive and you have a system that is at the cutting edge of technology.

Prestige Scorcher 400 with the following upgrades:

- ◆ 512kB cache (Pentium II models)
- ◆ 128MB SDRAM (100MHz)
- ◆ 10.2GB Quantum Fireball EX Ultra ATA hard disk with Shock Protection System for long term reliability
- ◆ 16MB STB Velocity 4400 2D/3D graphics accelerator
- ◆ Zy-Fi Pro amplified speakers

TOP 50 BEST BUY
"If ever a PC offered everything in one bundle, then this is it... Bags of upgrade potential, plus some great extras."
Computer Buyer, Prestige TNT Media98+

Prestige TNT - 17" monitor, 128MB RAM, 10.2GB HDD

| Processor: Intel | MULTIMEDIA | Media98 | Office |
|------------------|----------------------|----------------------|----------------------|
| Celeron™ 400 | (£999.vat) £1173.83 | (£1079.vat) £1267.83 | (£1129.vat) £1326.58 |
| Pentium™ II 400 | (£1149.vat) £1350.08 | (£1229.vat) £1450.08 | (£1279.vat) £1502.83 |

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 - see page 2 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

Media98+ models include all the Media98 extras plus

Add a splash of colour



1100 Colour Jetprinter

The family colour printer with - Disney's Print Studio CD-ROM

"Vive La Différence"
A great printer / scanner combination at a great price

Mustek ScanExpress 12000P colour scanner



- 1200x600dpi genuine optical resolution
- 36-bit colour
- iPhoto Plus scanning and re-touching software
- Textbridge OCR software

"High quality photo scan: The Mustek 12000P captures the colour and especially the detail of our test photo brilliantly - the quality isn't far off what a professional drum scanner can achieve."
"Greyscale text scan: The level of detail achieved by the Mustek 12000P is remarkable again." Computer Buyer, Mustek 12000P



LEXMARK 3200 Colour Jetprinter

- 1200x1200dpi resolution
- Laser sharp black text, vivid colours and ultimate six colour photo quality with optional photo cartridge.



"Our group test showed that this printer offers great print quality at a bargain price. You'll have trouble telling it's black text from laser output, whilst colour was the best of all in the test."
Computer Buyer, Lexmark 3200



Both are 4x the resolution of the cheaper units bundled with most systems!

Give your Prestige TNT or Platinum TNT Live! the scanning and printing quality it deserves for just
(£169.36.vat) £199

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Evesham Vale

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See page 3 for details

Platinum

We have long maintained the tradition that every component in the Platinum must be chosen for outstanding performance, reliability and pleasure of use, as well as being technically bang up to date. This formula has earned the Platinum range a consistent stream of awards from the specialist press.

All Platinum models:

- ◆ Chaintech 6BTM motherboard with Intel 440BX AGPset, 100MHz bus, and SeePU and APTC technologies
- ◆ 128k B processor speed cache (Celeron models)
- ◆ 512kB cache (Pentium II models)
- ◆ 64MB SDRAM, (100MHz)
- ◆ 2x Universal Serial Bus (USB) ports
- ◆ 8.4GB Ultra ATA high speed hard disk
- ◆ 8MB ATI Xpert 98 AGP 3D graphics accelerator
- ◆ 17" Taxan Ergovision 735 TCO99 monitor with integral USB hub providing 4 USB ports.
- ◆ 32x CD-ROM drive
- ◆ SoundBlaster PCI 64 Value wavetable sound
- ◆ Amplified speakers
- ◆ Logitech 'wheel' mouse
- ◆ 14 day moneyback guarantee
- ◆ 2 years on-site maintenance for parts and labour
- ◆ Lifetime technical support hotline
- ◆ Keytronic PS/2 'Windows 95' keyboard
- ◆ Choice of high quality ATX style desktop or midi-tower case



Platinum Multimedia PC in the Midi-Tower case

Platinum Media98 models include the following Software:

- ◆ Microsoft Media98 software package (see p2 for details)

Platinum Office models include the following Software:

- ◆ Microsoft Office Small Business Edition (see p2 for details)

Create your own CDs!

- ◆ Create data and multimedia CDs on your PC.
- ◆ Create custom audio CDs which are playable in any CD player.
- ◆ 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 with Adaptec Easy CD Creator software (OEM version) (£165-VAT) £193.88

Platinum upgrades

| | |
|--|--------------------|
| 64MB to 128MB RAM | (£80-VAT) £94.00 |
| 128MB to 256MB RAM | (£160-VAT) £188.00 |
| 64MB to 256MB RAM | (£240-VAT) £282.00 |
| Diamond PCI v.90 56k voice capable modem | (£49-VAT) £57.58 |
| DVD-ROM drive instead of CD-ROM drive | (£60-VAT) £70.50 |
| 17" iiyama Vision Master 400 monitor | (£100-VAT) £117.50 |
| 17" iiyama Vision Master Pro 400 monitor | (£145-VAT) £170.38 |
| 17" Taxan Ergovision 735 TCO99 monitor | (£37-VAT) £43.48 |
| 17" Taxan 750 TCO95 monitor | (£150-VAT) £176.25 |
| 19" Taxan 975 TCO95 monitor | (£170-VAT) £199.75 |
| 21" Taxan 2160 TCO95 monitor | (£570-VAT) £669.75 |
| Creative Labs SoundBlaster Level 256 sound card | (£45-VAT) £52.88 |
| Creative Labs SoundBlaster Level 256 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 |
| Panasonic CW7582 recordable CD drive with Adaptec Easy CD Creator software (OEM version) | (£165-VAT) £193.88 |
| Maxtor DiamondMax 2500 10GB hard disk | (£120-VAT) £141.00 |
| Matrox G200 Millennium 8MB video card | (£40-VAT) £47.00 |
| ValeStart delivery and installation service (see page 3 for full details) | (£50-VAT) £58.75 |

Platinum - 17" monitor, 64MB SDRAM, 8.4GB HDD

| | MULTIMEDIA | Media98 | Office |
|-----------------|----------------------|----------------------|----------------------|
| Celeron™ 400 | (£829-VAT) £974.08 | (£909-VAT) £1068.08 | (£959-VAT) £1126.83 |
| Pentium® II 400 | (£979-VAT) £1150.33 | (£1059-VAT) £1244.33 | (£1109-VAT) £1303.08 |
| Pentium® II 450 | (£1119-VAT) £1314.83 | (£1199-VAT) £1408.83 | (£1249-VAT) £1467.58 |

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

Reviews

Platinum Range

"Fastest PC"



"The Vale Platinum PII/400 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"

"GOOD POINTS: Performance, ease of use and installation, warranty, monitor, DVD-ROM drive" 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



"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."



"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

Evesham Micros

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Evesham Vale

Evesham Vale

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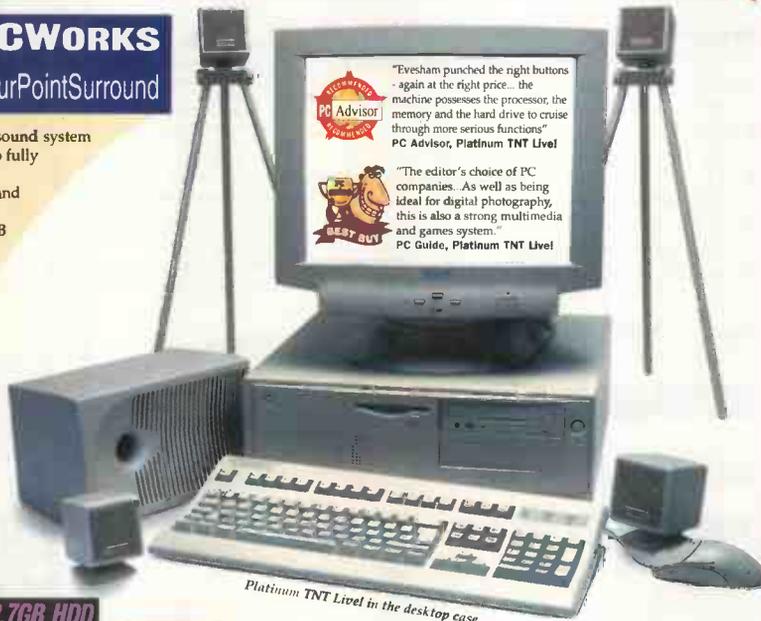
Platinum TNT Live!

Surely everything you could need in a PC - the Platinum TNT Live! has not only the STB Velocity 4400 2D/3D graphics accelerator, but incredible audio performance to match: the Creative Labs SoundBlaster Live! 256 card and FourPointSurround speaker system bring a whole new dimension to computer sound. There is also a massive hard disk and top notch branded monitor

Speaker
PCWORKS
FourPointSurround

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



Platinum TNT Live! in the desktop case

Platinum TNT models have the following enhancements to Platinum models:

- ◆ 128MB SDRAM (100MHz)
- ◆ 12.7GB Quantum Fireball EX Ultra ATA hard disk with Shock Protection System for long term reliability
- ◆ 3rd generation 4.8x DVD-ROM drive
- ◆ 16MB STB Velocity 4400 2D/3D graphics accelerator (see page 4)
- ◆ Creative Labs SoundBlaster Live! 256 sound card (see page 4)
- ◆ Creative Labs PCWorks FourPointSurround speaker system
- ◆ Diamond PCI v.90 56k voice capable modem
- ◆ Free Internet access (local rate call charges)

Other features as Platinum models

Platinum TNT Live! - 17" monitor, 128MB SDRAM, 12.7GB HDD

| | MULTIMEDIA | Media98 | Office |
|-----------------|----------------------|----------------------|----------------------|
| Celeron™ 400 | (£1119-VAT) £1314.83 | (£1199-VAT) £1408.83 | (£1249-VAT) £1467.58 |
| Pentium® II 400 | (£1269-VAT) £1491.08 | (£1349-VAT) £1585.08 | (£1399-VAT) £1643.83 |
| Pentium® II 450 | (£1409-VAT) £1655.58 | (£1489-VAT) £1749.58 | (£1539-VAT) £1808.33 |

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

Sound BLASTER

Love! PCAnswers verdict

- ✓ Knockout surround sound
- ✓ Powerful sound processor
- ✓ Open and excellent EAX standard
- ✗ Not quite Digital Dolby standard

Overall 91%

PC PRO

"The best sound card yet from Creative Labs." PC Pro, SoundBlaster Live!

TOP 50 BEST BUY

"A brilliant all-rounder for music and games. Should stand the test of time." Computer Buyer, SoundBlaster Live!

Platinum Wonder

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)
- ◆ 12.7GB Quantum Fireball EX Ultra ATA hard disk with Shock Protection System for long term reliability
- ◆ ATI 8MB All-in-Wonder Pro AGP video card
- ◆ 12MB Voodoo 2 3Dfx card
- ◆ 19" Taxan Ergovision 975 TCO95 monitor
- ◆ 3rd generation 4.8x DVD-ROM drive
- ◆ Software for DVD movie playback
- ◆ Creative Labs SoundBlaster Live! 256 sound card
- ◆ Creative Labs PCWorks FourPointSurround speaker system
- ◆ Iomega zip drive
- ◆ Diamond PCI v.90 56k voice capable modem
- ◆ Free Internet access (local rate call charges)
- ◆ Microsoft Natural keyboard

Other features as Platinum models

Platinum Wonder: 128MB SDRAM, 12.7GB HDD

| | MULTIMEDIA | Media98 |
|-----------------|----------------------|----------------------|
| Celeron™ 400 | (£1419-VAT) £1667.33 | (£1499-VAT) £1761.33 |
| Pentium® II 400 | (£1589-VAT) £1843.58 | (£1649-VAT) £1937.58 |
| Pentium® II 450 | (£1709-VAT) £2008.08 | (£1789-VAT) £2102.08 |

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

All-in-Wonder Pro

The 7-in-1 TV, graphics and multimedia board

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

- ATI Rage Pro video and graphic accelerator
- 8MB memory
- Intelligent TV tuner with DBX™ Stereo
- 2D graphics acceleration
- 3D graphics acceleration
- High quality MPEG2 video playback
- Still and motion video capture
- TV set display

PC PRO

"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." PC Pro, All-in-Wonder Pro

PC MAGAZINE EDITORS' CHOICE



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 | (£13-VAT) £15.28 |
| DVD-RAM (rewritable) drive instead of DVD-ROM drive | (£380-VAT) £446.50 (Includes SCSI controller card) |
| Panasonic CW7582 recordable CD drive with Adaptec Easy CD Creator software (OEM version) | (£165-VAT) £193.88 |
| 2x 9GB Quantum Viking II LVD SCSI super fast hard disks with Adaptec 2940 LVD U2W SCSI controller | (£899-VAT) £1056.33 (This option includes an upgrade to the High Tower case as illustrated on P13) |

SEE PLATINUM MODELS FOR OTHER UPGRADES

Microsoft software bundles Available with any EveshamVale Multimedia or Media98 PC - see page 2 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

9

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0800 496

Web: <http://www.evesham.com>
0800

Evesham Vale

Voyager 2500

Buy Now
PAY AUG '99
SEE PAGE 3 FOR DETAILS



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 2)



Voyager 2500 - 12.1" TFT display, NiMH battery

| | MULTIMEDIA (TFT) | Office (TFT) |
|------------|---------------------|----------------------|
| AMD K6 300 | (£899-VAT) £1056.33 | (£1039-VAT) £1220.83 |

Voyager 2500 upgrades

| | |
|-------------------------------|------------------|
| 32MB to 96MB RAM | (£75-VAT) £88.13 |
| Car cigar lighter adaptor | (£79-VAT) £92.83 |
| Second battery | (£79-VAT) £92.83 |
| Evesham Vale 56k PCMCIA modem | (£79-VAT) £92.83 |
| Evesham Vale 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

Voyager 2800

A fully featured Pentium II 233MHz notebook with 13.3" TFT display, 5GB HDD and 96MB RAM for only £1149+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 (Pentium II 233/266 models)
- ◆ 6.4GB hard disk (Pentium II 300 models)
- ◆ 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 2)

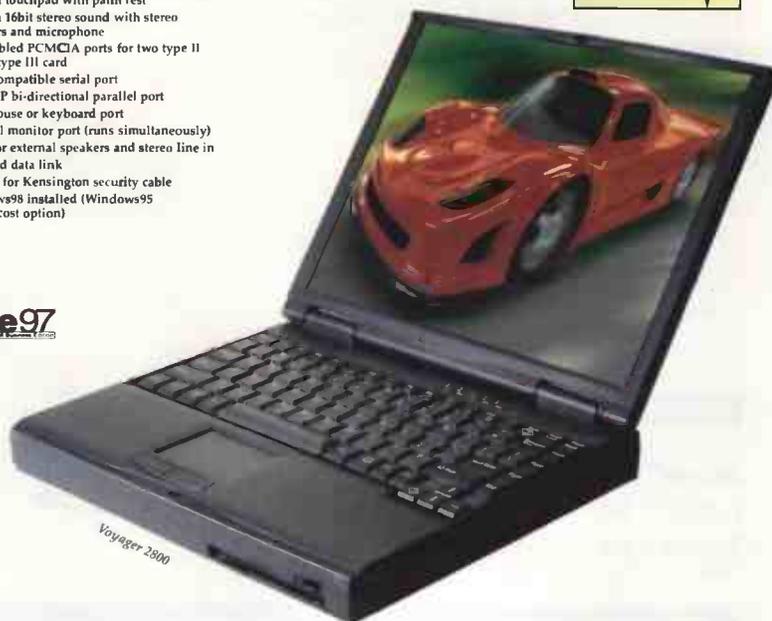
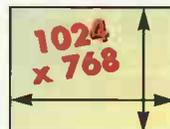


Voyager 2800 - 13.3" TFT display, NiMH battery

| | MULTIMEDIA (TFT) | Office (TFT) |
|-----------------|----------------------|----------------------|
| Pentium® II 233 | (£1149-VAT) £1350.08 | (£1289-VAT) £1514.58 |
| Pentium® II 266 | (£1199-VAT) £1408.83 | (£1339-VAT) £1573.33 |
| Pentium® II 300 | (£1349-VAT) £1585.08 | (£1489-VAT) £1749.58 |

Voyager 2800 upgrades

| | |
|-------------------------------|------------------|
| Car cigar lighter adaptor | (£79-VAT) £92.83 |
| Second battery | (£79-VAT) £92.83 |
| Evesham Vale 56k PCMCIA modem | (£79-VAT) £92.83 |
| Evesham Vale ethernet adaptor | (£59-VAT) £69.33 |



Voyager 2800

WHAT PC?

Testdrive

"When he looked at the Evesham Vale Voyager 2000's specification, Tim found it hard to believe it fell within his budget."
"In the end, the Evesham Vale Voyager 2000 looked the most promising."
EveshamVale Voyager 2000

Evesham Micros

FREEPHONE DIRECT SALES
0800 496 0800
Web: <http://www.evesham.com>

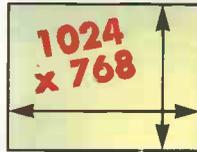
FREEPHONE DIRECT SALES 0800 496 0800 Evesham Vale Web: http://www.evesham.com

EveshamVale

Buy Now
Pay Aug '99
SEE PAGE 3 FOR DETAILS

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 it's 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

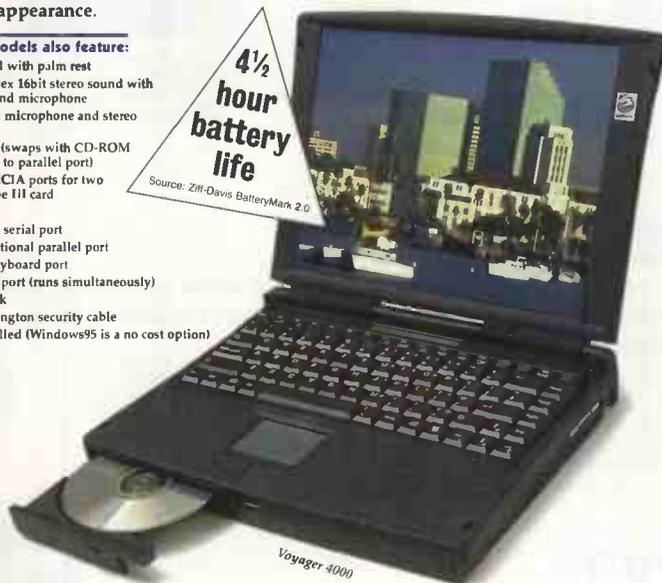
Voyager 4000 Office models also have:

- ◆ Microsoft Office97 Small Business Edition (see page 2)

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
- ◆ Windows98 installed (Windows95 is a no cost option)
- ◆ 334 x 250 x 51mm
- ◆ 4.75kg

4 1/2 hour battery life
Source: Ziff-Davis BatteryMark 2.0



Voyager 4000 - 13.3" TFT display, Li-Ion battery

| | MULTIMEDIA (TFT) | Office (TFT) |
|-----------------|----------------------|----------------------|
| Pentium® II 266 | (£1649-vat) £1937.58 | (£1789-vat) £2102.08 |
| Pentium® II 300 | (£1899-vat) £2231.33 | (£2039-vat) £2395.83 |

Voyager 4000 upgrades

| | |
|-----------------------------------|--------------------|
| Car cigar lighter adaptor..... | (£79-vat) £92.83 |
| Second battery..... | (£129-vat) £151.58 |
| Port replicator..... | (£149-vat) £175.08 |
| EveshamVale 56k PCMCIA modem..... | (£79-vat) £92.83 |
| EveshamVale ethernet adaptor..... | (£59-vat) £69.33 |

BUY IT!
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
10.00 - 12.00

Computer Luggage

Stylish, practical carry cases for your notebook and accessories.



Pisa (£65-vat) £76.38



Hamburg (£50-vat) £58.75



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

11

EveshamVale
FREEPHONE DIRECT SALES
0800 496 0800
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
- 32MB SDRAM
- 4GB hard disk
- ATI 8MB Xpert98 AGP video card
- 15" EveshamVale Monitor
(See page 6 for full details of Prestige models)

£529+VAT

Evesham Finance example:
£19.03+VAT per month*

Prestige upgrades

| | |
|-----------------------|----------|
| 32MB to 64MB RAM..... | £40+VAT |
| Rack mount case..... | £220+VAT |



Windows NT 4
the right choice for business £75+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
- Delivered and commissioned on-site free of charge

£2299+VAT

Evesham Finance example:
£82.70+VAT per month*

Rapier Server upgrades

| | |
|--|----------|
| P II-400 to dual P II-400 processor..... | £279+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.

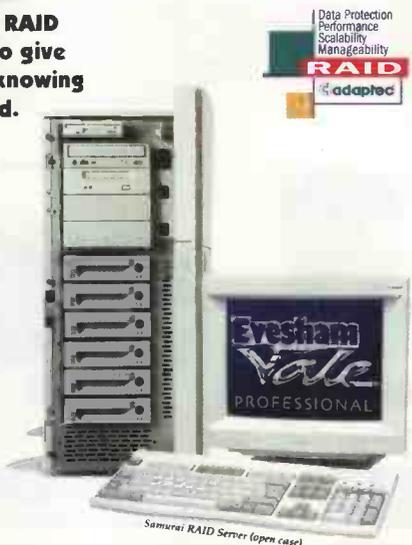
- Intel Pentium® II 400MHz processor (upgradeable to dual processors)
- Maximum data protection with 27GB Ultra Wide RAID 5 hot swappable hard disks
- Handle applications with 128MB high performance RAM
- Delivered and commissioned on-site free of charge

£3399+VAT

Evesham Finance example:
£122.26+VAT per month*

Samurai RAID Server upgrades

| | |
|--|----------|
| P II-400 to dual P II-400 processor..... | £279+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

Novell. Novell.



PartnerNet.

C N E

Microsoft CERTIFIED PROFESSIONAL Product Specialist

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>

FREEPHONE BUSINESS SALES
0800 389 9393
 Web: <http://www.evesham.com>

PROFESSIONAL

**Dublin Branch
Now Open**
Tel: 00 353 1 855 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 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

£12499 +VAT

Evesham Finance example: **£442.71 +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 |

DUAL or QUAD



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 Intel Pentium® II Xeon 400MHz processors with 512kB cache
- 128MB SDRAM
- 2x 9GB SCSI hard disks with Adaptec 2940 LVD U2W controller
- Elsa Gloria 8MB AGP 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 |

DUAL



DesignStation

Evesham Micros

EVESHAM
0800 389 9393
FREEPHONE BUSINESS SALES
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 |
|------------------|-------------|-------------------|---------|------------|---------|--------|---------------|----|-----|-----|------------|-----|---|------------------|
| | | KG | Pentium | Pentium II | | | Fast page/EDO | SD | ISA | PCI | AGP | USB | | |
| Chaintech 5TMM | ATX | • | • | | 430TX | 512KB | • | • | • | 4* | 4* | | | (£45-VAT) £52.88 |
| 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) £71.68 |
| 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) £5.88



CHAINTECH
COMPUTER CO., LTD.

SeePU
APTC

Innovative simple CPU
Installation via BIOS - no jumpers
High security Active Processor
Temperature Control - multi-level
CPU temperature protection function

RUN!PC
"Technology Creativity" award.
Chaintech 5TMM & 5TMM



Chaintech 5TMM



Chaintech 5TMM

AnandTech

5TMM

"features the spectacular SeePU jumperless CPU setup"
"I suggest that you seriously consider the Chaintech 5TMM"

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." Computer! Total! (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%



Chaintech 6LTM-2

UPGRADE PACKS

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

CASES WITH POWER SUPPLY

| Style | Form factor | Drive bays | | Price |
|------------|-------------|----------------|----------------|------------------|
| | | Internal | External | |
| Desktop | ATX | 1x5.25" 2x3.5" | 2x5.25" 1x3.5" | (£55-VAT) £64.63 |
| Mini-tower | ATX | 3x3.5" | 2x5.25" 3x3.5" | (£49-VAT) £57.58 |

PROCESSORS

| | | |
|----------------|------------------|---------|
| Celeron 333 | (£99+VAT) | £116.33 |
| Pentium II 350 | (£159+VAT) | £186.83 |
| Pentium II 400 | (£279+VAT) | £327.83 |

MEMORY MODULES

| | | |
|-------------|------------------|---------|
| 8MB 72-pin | (£19+VAT) | £22.33 |
| 16MB 72-pin | (£35+VAT) | £41.13 |
| 8MB EDO | (£18+VAT) | £21.15 |
| 16MB EDO | (£34+VAT) | £39.95 |
| 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 |

120MB FLOPPY DRIVE

| | | |
|---|-----------------|--------|
| Panasonic LS-120 internal bare drive | (£65+VAT) | £76.38 |
| 120MB floppy disk | (£14+VAT) | £16.45 |
| 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:

| | | |
|--------------------------|------------------------|---------|
| Tapes for ditto Max 7GB | 2 pack (£35+VAT) | £41.13 |
| 10GB Internal | (£139+VAT) | £163.33 |
| 10GB external | (£169+VAT) | £198.58 |
| Tapes for ditto Max 10GB | (£22+VAT) | £25.85 |

All ditto capacities quoted are with 2x compression

omega zip drives:

| | | |
|------------------------------------|------------------------|---------|
| Zip internal drive | (£65+VAT) | £76.38 |
| Zip external drive 'parallel port' | (£79+VAT) | £92.83 |
| Zip external drive 'SCSI' | (£80+VAT) | £94.00 |
| Zip external drive 'USB' | (£99+VAT) | £116.33 |
| Cartridge for zip drive | (£10+VAT) | £11.75 |
| Cartridge for zip drive | 6 pack (£40+VAT) | £47.00 |
| Battery pack for zip drive | (£49+VAT) | £57.58 |

omega 1GB jaz drives:

| | | |
|-----------------------|-------------------------|---------|
| Cartridge | (£69+VAT) | £81.08 |
| omega 8GB jaz drives: | | |
| Internal | (£265+VAT) | £311.38 |
| external | (£265+VAT) | £311.38 |
| SCSI card | (£65+VAT) | £76.38 |
| Cartridge | 3 pack (£179+VAT) | £210.33 |

Panasonic Zip internal drive with media (£65+VAT) £76.38

Seagate 120m DAT tape (£25+VAT) £29.38
4/8GB Internal DAT drive (£650+VAT) £763.75

hp SureStore 12/24GB DAT drive (£799+VAT) £938.83

HARD DISKS & CONTROLLERS

Optional Installation Kit (5.25" mounting bracket plus cables) (£10+VAT) £11.75

Quantum

| | | |
|---------------------------------|------------------|---------|
| Viking II LVD 4.5GB SCSI (3.5") | (£235+VAT) | £276.13 |
| 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

8.4GB IDE (£129+VAT) £151.58

PROMISE

Promise PCI Ultra ATA controller (£49+VAT) £57.58

MODEMS

Evesham Micros

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 (£99+VAT) £116.33

- Plug & Play 16 bit ISDN card
- RSV-COM software for Windows 98/NT provides Microsoft Internet Explorer, Fax group 3 reception/transmission, and E-mail
- Telephone through port
- Answering machine
- Telephone book/call log

pace

56 Voice internal (£73+VAT) £85.78
56 Voice external (supports UK caller ID) (£95+VAT) £111.63
56 Solo (£155+VAT) £182.13

Robotics

Sportster 56.6 Flash internal (£84+VAT) £98.70
Sportster 56.6 Flash external (£85+VAT) £99.88
Sportster Message (£99+VAT) £116.33

All modems include Internet connection software with free trial connection period.

Network Products

Evesham Micros

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) £52.88
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) £428.88
10Mbps 8 port switch with two 10/100 bridge ports (£499+VAT) £586.33
Internet station (£275+VAT) £323.13

- The cost effective way to share one Internet connection over your 10Base-T network
- Uses analog or ISDN modems
- Use up to two additional modems to share fax services, bulletin board access etc.

hp

Jet Direct External Plus 3 (£265+VAT) £311.38

EICON TECHNOLOGY

Mobile PCMCIA (£209+VAT) £245.58
Diva (PCI) (£115+VAT) £135.13
Diva Pro (PCI) (£189+VAT) £222.08
Diva terminal adapter ISDN modem (external) (£155+VAT) £182.13
Diva server card (£329+VAT) £386.58

Evesham Micros

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 paging/email
- Station 280 (280VA) (£99+VAT) £116.33 Station 650 (650VA) (£189+VAT) £222.08
Station 420 (420VA) (£129+VAT) £151.58 Station 1000 (1KVA) (£249+VAT) £292.58

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

Evesham Micros

0800 496 0800
Web: <http://www.evesham.com>

FREEPHONE DIRECT SALES 0800 496 0800 Web: <http://www.evesham.com>

Evesham

Mustek

FLATBED SCANNING from (£45+vat) £52.88

- All Mustek Scanexpress 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, on A4 document scanned in 24 bit colour at 300dpi is 24MB. At 600dpi it is 96MB!

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 6000

Family PC
"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
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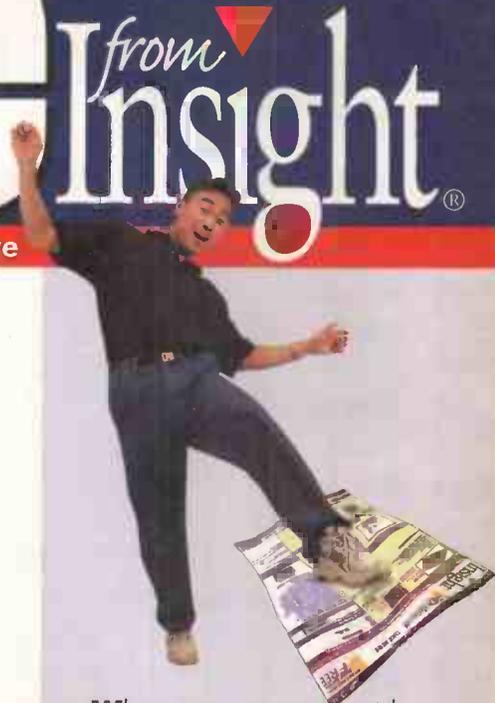
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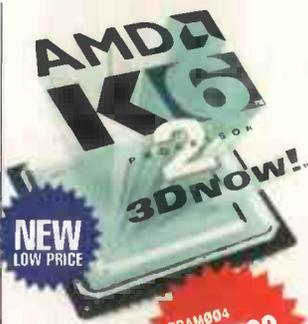
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| Libretto 110CT | LAPTS64 | P233 MMX | 7.1" TFT | 32 | 3.8Gb | Optional | WIN 95/98 DUAL BOOT | £1,248.99 | £1,467.56 |
| Satellite 4000CDS | LAPTS50 | P233 II | 12.1" DSTN | 32 | 3.8Gb | 24X | WIN 95/98 DUAL BOOT | £998.99 | £1,173.81 |
| Satellite 4000CDT | LAPTS51 | P233 II | 12.1" TFT | 32 | 3.8Gb | 24X | WIN 95/98 DUAL BOOT | £1,164.99 | £1,368.86 |
| Satellite 4010CDS | LAPTS60 | P266 II | 12.1" DSTN | 32 | 3.8Gb | 24X | WIN 95/98 DUAL BOOT | £1,164.99 | £1,368.86 |
| Satellite 4010CDT | LAPTS61 | P266 II | 12.1" TFT | 32 | 3.8Gb | 24X | WIN 95/98 DUAL BOOT | £1,416.99 | £1,664.99 |
| Portege 3010 | LAPTS62 | P266 MMX | 10.4" TFT | 32 | 3.8Gb | Optional | WIN 95/98 DUAL BOOT | £1,332.99 | £1,565.24 |
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| Terra 8000CDS | LAPTS57 | P233 II | 12.1" DSTN | 32 | 3.8Gb | 24X | WIN 95/98 DUAL BOOT | £1,332.99 | £1,568.26 |
| Terra 8000CDT | LAPTS56 | P233 II | 12.1" TFT | 32 | 3.8Gb | 24X | WIN 95/98 DUAL BOOT | £1,498.99 | £1,761.31 |
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| ThinkPad 380XD | LAP1842 | P233 MMX | 12.1" DSTN | 32 | 3.2Gb | 24X | WIN 95 | £1,078.99 | £1,267.81 |
| ThinkPad 380XD | LAP1843 | P266 II | 12.1" TFT | 32 | 5.1Gb | 24X | WIN 95 | £1,367.99 | £1,607.39 |
| ThinkPad 380XD | IB0589403 | P233 MMX | 12.1" TFT | 32 | 5.1Gb | 24X | WIN NT | £1,390.99 | £1,634.41 |
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| ThinkPad 390 | IB058D657 | P233 II | 12.1" TFT | 32 | 3.2Gb | 24X | WIN 98 | £1,065.99 | £1,252.54 |
| ThinkPad 390 | IB058D670 | P266 II | 14.1" TFT | 64 | 4.3Gb | 24X | WIN 98 | £1,680.99 | £1,975.16 |
| ThinkPad 560X | IB0586210 | P233 MMX | 12.1" TFT | 32 | 4.0Gb | Optional | WIN 95 | £1,316.99 | £1,547.46 |
| ThinkPad 560Z | LAP1870 | P233 II | 12.1" TFT | 32 | 4.0Gb | Optional | WIN 98 | £1,425.99 | £1,675.54 |
| ThinkPad 560Z | IB058C463 | P233 II | 12.1" TFT | 32 | 4.0Gb | Optional | WIN NT | £1,487.99 | £1,748.39 |
| ThinkPad 560Z | IB058C260 | P300 II | 12.1" TFT | 64 | 6.4Gb | Optional | WIN 98 | £1,930.99 | £2,268.91 |
| ThinkPad 560Z | IB058C277 | P300 II | 12.1" TFT | 64 | 6.4Gb | Optional | WIN NT | £1,991.99 | £2,340.59 |
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| ThinkPad 600 | IB0588768 | P266 II | 13.3" TFT | 32 | 4.0Gb | 24X | WIN 95 | £1,986.99 | £2,334.71 |
| ThinkPad 600 | IB058C480 | P300 II | 13.3" TFT | 64 | 5.1Gb | 24X | WIN 98 | £2,260.99 | £2,656.66 |
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| COMPAQ | | | | | | | | | |
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| Armada 6500 | CP0876E306 | P300 II | 14.1" TFT | 64 | 6.4Gb | 24X | WIN 95 + 56K MODEM | £2,665.99 | £3,132.54 |
| Armada 6500 | CP0876E330 | P300 II | 14.1" TFT | 64 | 6.4Gb | 24X | WIN NT + 56K MODEM | £2,709.99 | £3,184.24 |
| Armada 7400 | CP0876E307 | P266 II | 13.3" TFT | 32 | 4.0Gb | 24X | WIN 95 | £1,834.99 | £2,156.11 |
| Armada 7400 | CP0876E308 | P266 II | 13.3" TFT | 32 | 4.0Gb | 24X | WIN NT | £1,877.99 | £2,206.64 |
| Armada 7400 | CP0876E309 | P300 II | 13.3" TFT | 64 | 6.4Gb | 24X | WIN 95 | £2,227.99 | £2,617.89 |
| Armada 7400 | CP0876E310 | P300 II | 13.3" TFT | 64 | 6.4Gb | 24X | WIN NT | £2,272.99 | £2,670.76 |
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| Armada 7800 | CP0876E311 | P300 II | 14.1" TFT | 64 | 8.0Gb | 24X | WIN 95 | £2,622.99 | £3,082.01 |
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| Omnibook 2100 | HP943E561 | P300 II | 13.3" TFT | 64 | 4.0Gb | 24X | WIN 95 | £1,812.99 | £2,130.21 |
| Omnibook 2100 | HP943C887 | P233 II | 12.1" TFT | 32 | 4.0Gb | 24X | WIN NT | £1,313.99 | £1,543.94 |
| Omnibook 2100 | HP943C913 | P266 II | 12.1" TFT | 32 | 4.0Gb | 24X | WIN NT | £1,472.99 | £1,730.00 |
| Omnibook 2100 | HP943G426 | P300 II | 12.1" TFT | 32 | 4.0Gb | 24X | WIN NT | £1,500.99 | £1,762.06 |
| Omnibook 2100 | HP943E575 | P300 II | 13.3" TFT | 64 | 4.0Gb | 24X | WIN NT | £1,907.99 | £2,244.24 |
| Omnibook 4100 | LAPHP56 | P266 II | 14.1" TFT | 32 | 6.4Gb | 24X | WIN 95 | £2,282.99 | £2,687.11 |
| Omnibook 4100 | HP943A266 | P266 II | 14.1" TFT | 32 | 4.0Gb | 24X | WIN 95 | £2,079.99 | £2,443.59 |
| Omnibook 4100 | LAPHP55 | P266 MMX | 14.1" TFT | 32 | 4.0Gb | 24X | WIN 95 | £2,201.99 | £2,587.34 |
| Omnibook 4100 | LAPHP54 | P233 II | 13.3" TFT | 32 | 4.0Gb | 24X | WIN 95 | £1,639.99 | £1,926.99 |
| Omnibook 4100 | HP943D326 | P266 II | 13.3" TFT | 32 | 4.0Gb | 24X | WIN 95 | £1,293.99 | £1,507.94 |
| Omnibook 4100 | HP943A260 | P266 II | 14.1" TFT | 32 | 6.4Gb | 24X | WIN NT | £2,144.99 | £2,520.36 |
| Omnibook 4100 | HP943A269 | P266 II | 14.1" TFT | 32 | 4.0Gb | 24X | WIN NT | £1,989.99 | £2,338.74 |
| Omnibook 4100 | HP943A261 | P266 MMX | 14.1" TFT | 32 | 4.0Gb | 24X | WIN NT | £2,242.99 | £2,638.11 |
| Omnibook 4100 | HP943A267 | P233 II | 13.3" TFT | 32 | 4.0Gb | 24X | WIN NT | £1,667.99 | £1,983.32 |
| Omnibook 4100 | HP943D341 | P266 II | 13.3" TFT | 32 | 4.0Gb | 24X | WIN NT | £1,850.99 | £2,174.00 |
| Omnibook 4150 | HP943E589 | P300 II | 14.1" TFT | 64 | 6.4Gb | 24X | WIN 95 | £2,324.99 | £2,731.86 |
| Omnibook 4150 | HP943E603 | P300 II | 14.1" TFT | 64 | 6.4Gb | 24X | WIN NT | £2,373.99 | £2,789.44 |
| Omnibook 7100 | LAPHP57 | P266 II | 14.1" TFT | 32 | 6.4Gb | 24X | WIN 95 | £2,201.99 | £2,587.34 |
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|--------------------|---------|----------|-----------|----|-------|-----|--------|-----------|-----------|
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| SLTE-261Z | LAPTW41 | P266 MMX | 12.1" TFT | 64 | 4.1Gb | 20X | WIN 95 | £1,029.99 | £1,210.24 |
| SLVX-231Z | LAPTW51 | P233 II | 12.1" TFT | 32 | 3.1Gb | 24X | WIN 98 | £1,112.99 | £1,307.76 |
| SLVX-261Z | LAPTW52 | P266 II | 12.1" TFT | 32 | 4.0Gb | 24X | WIN 98 | £1,300.99 | £1,528.66 |
| SLVX-261Z | LAPTW44 | P266 II | 12.1" TFT | 64 | 4.0Gb | 24X | WIN 98 | £1,337.99 | £1,572.14 |
| SLVX-301Z | LAPTW45 | P300 II | 12.1" TFT | 64 | 4.0Gb | 24X | WIN 98 | £1,567.99 | £1,842.39 |
| SLVX-261G | LAPTW46 | P266 II | 13.3" TFT | 64 | 3.1Gb | 24X | WIN 98 | £1,468.99 | £1,726.06 |
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| HP Brio 8318 | HP9439550 | Pentium® II 300 | NO | 32Mb | 4GB | 24X | 512K | 2MB | Win 95 | £489.99 | £575.74 |
| HP Brio 333 | HP943G728 | Pentium® II 333 celeron | 17" | 64Mb | 8GB | 32X | 128K | MATROX G100 2MB | Win 98 | £799.99 | £939.99 |
| HP Brio 8537 | HP943G731 | Pentium® II 450 | 17" | 64Mb | 8Gb | 32X | 512K | MATROX G200 4MB | Win 98 | £1,216.99 | £1,429.97 |
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| HP Vectra | HP Vectra | Processor | Cache | RAM | HDD | CD | CACHE | GRAPHICS | OP/SY | PRICE | INC/VAT |
| HP Vectra VE | HP943D186 | Pentium® II 350 | NO | 32Mb | 3.2Gb | NO | 512K | MGA-G100 4MB | Win 95 | £695.99 | £817.79 |
| HP Vectra VL8 | HP943C083 | Pentium® II 350 | NO | 32Mb | 4.3Gb | NO | 512K | MGA-G100 4MB | Win NT | £822.99 | £967.01 |
| HP Vectra VL8 | HP943C113 | Pentium® II 350 | NO | 64Mb | 4.3Gb | NO | 512K | MGA-G100 4MB | Win NT | £936.99 | £1,100.96 |
| HP Vectra VL8 | HP943F314 | Pentium® II 350 | NO | 64Mb | 6.4Gb | 32X | 512K | MGA-G200 8MB | Win NT | £982.99 | £1,195.01 |
| HP Vectra VL8 | HP943G066 | Pentium® II 400 | NO | 64Mb | 4.3Gb | NO | 512K | MGA-G100 4MB | Win NT | £836.99 | £983.46 |
| HP Vectra VL8 | HP943G067 | Pentium® II 400 | NO | 64Mb | 6.4Gb | NO | 512K | MGA-G100 4MB | Win NT | £935.99 | £1,099.79 |
| HP Vectra VL8 | HP943G078 | Pentium® II 400 | NO | 64Mb | 6.4Gb | 32X | 512K | MGA-G100 4MB | Win NT | £1,006.99 | £1,183.21 |
| HP Vectra VL8 | HP943E986 | Pentium® II 450 | NO | 64Mb | 10.1Gb | 32X | 512K | MGA-G100 4MB | Win NT | £1,262.99 | £1,484.01 |
| HP Vectra VL8 | HP943F568 | Pentium® II 450 | NO | 64Mb | 10.1Gb | DVD | 512K | MGA-G200 8MB | Win NT | £1,350.99 | £1,587.41 |
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| HP Kayak | HP Kayak | Processor | Cache | RAM | HDD | CD | CACHE | GRAPHICS | OP/SY | PRICE | INC/VAT |
| HP Kayak XA | HP943E529 | Pentium® II 400 | NO | 64Mb | 4.3Gb | 32x | 512K | MGA-G200 8Mb | Win NT | £1,178.99 | £1,385.31 |
| HP Kayak XA | HP943D935 | Pentium® II 450 | NO | 64Mb | 6.4Gb | 32x | 512K | MGA-G200 8Mb | Win NT | £1,465.99 | £1,722.54 |
| COMPAQ DESKPRO EP | | | | | | | | | | | |
| CPQ876 | Processor | Cache | RAM | HDD | CD | CACHE | GRAPHICS | OP/SY | PRICE | INC/VAT | |
| CPQ876C756 | Pentium® 300celeron | NO | 64Mb | 4.3Gb | NO | 128K | ATI Rage Pro AGP 1X 4Mb | Win 95 | £459.99 | £540.49 | |
| CPQ876C757 | Pentium® 300celeron | NO | 64Mb | 4.3Gb | NO | 128K | ATI Rage Pro AGP 1X 4Mb | Win NT | £535.99 | £629.79 | |
| CPQ876C864 | Pentium® 333celeron | NO | 32Mb | 4.3Gb | NO | 128K | ATI Rage Pro AGP 1X 4Mb | Win 95 | £594.99 | £699.11 | |
| CPQ876C886 | Pentium® 333celeron | NO | 64Mb | 4.3Gb | NO | 128K | ATI Rage Pro AGP 1X 4Mb | Win NT | £671.99 | £789.59 | |
| CPQ876C908 | Pentium® 333celeron | NO | 64Mb | 6.4Gb | 32X | 128K | ATI Rage Pro AGP 1X 4Mb | Win 95 | £701.99 | £824.11 | |
| CPQ876E210 | Pentium® 333celeron | NO | 64Mb | 6.4Gb | 32X | 128K | ATI Rage Pro AGP 1X 4Mb | Win 98 | £701.99 | £824.11 | |
| CPQ876C930 | Pentium® 333celeron | NO | 64Mb | 6.4Gb | 32X | 128K | ATI Rage Pro AGP 1X 4Mb | Win NT | £735.99 | £864.29 | |
| CPQ876D087 | Pentium® II 350 | NO | 64Mb | 4.3Gb | NO | 512K | MGA-G200 8MB | Win 95 | £766.99 | £901.21 | |
| CPQ876D109 | Pentium® II 350 | NO | 64Mb | 4.3Gb | NO | 512K | MGA-G200 8MB | Win 95 | £813.99 | £956.44 | |
| CPQ876D133 | Pentium® II 350 | NO | 64Mb | 10Gb | 32X | 512K | MGA-G200 8MB | Win 95 | £911.99 | £1,074.59 | |
| SIEMENS SCENIC RANGE | | | | | | | | | | | |
| EDITION | Processor | Cache | RAM | HDD | CD | CACHE | GRAPHICS | OP/SY | PRICE | INC/VAT | |
| EDITION PCSN36 | Pentium® 333 celeron | NO | 32Mb | 3.2Gb | NO | 128K | ATI VT4 2Mb | Win98 | £499.99 | £587.49 | |
| EDITION PCSN37 | Pentium® II 350 | NO | 32Mb | 6.4Gb | 32X | 512K | MGA-G100 4Mb | Win 91 | £644.99 | £767.86 | |
| EDITION PCSN38 | Pentium® II 400 | NO | 64Mb | 6.4Gb | 32X | 512K | MGA-G100 4Mb | Win NT | £905.99 | £1,064.52 | |
| EDITION PCSN39 | Pentium® II 350 | NO | 32Mb | 3.2Gb | NO | 512K | MGA-G100 4Mb | Win 98 | £549.99 | £646.82 | |
| EDITION PCSN40 | Pentium® II 350 | NO | 32Mb | 3.2Gb | 32X | 512K | MGA-G100 4Mb | Win NT | £652.99 | £777.71 | |
| EDITION PCSN41 | Pentium® 333 celeron | NO | 32Mb | 3.2Gb | 32X | 128K | ATI VT4 2Mb | Win 98 | £706.99 | £830.71 | |
| EDITION PCSN42 | Pentium® II 350 | NO | 64Mb | 3.2Gb | 32X | 512K | MGA-G100 4Mb | Win 98 | £690.99 | £811.11 | |
| EDITION PCSN43 | Pentium® II 400 | NO | 64Mb | 6.4Gb | 32X | 512K | MGA-G100 4Mb | Win 98 | £985.99 | £1,158.54 | |

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|--------------|-----------------------------|-------|------|-------|-----|-------|---------------------|--------|----------|-----------|
| Equium 110 | PCTS110 Pentium®II 333 | TFT | 64Mb | 4.3Gb | 24X | 512K | S3 VIRGE/MX 2MB | Win 98 | £1262.99 | £1,484.01 |
| Equium 3000M | PCTS26 Pentium® 300 celeron | NO | 32Mb | 3.2Gb | 32X | 128K | ATI 3D RAGE AGP 4Mb | Win 98 | £577.99 | £655.64 |
| Equium 3000M | PCTS27 Pentium® 300 celeron | NO | 32Mb | 3.2Gb | 32X | 512K | ATI 3D RAGE AGP 4Mb | Win 98 | £599.99 | £704.99 |
| Equium 7100S | PCTS16 Pentium® II 350 | NO | 64Mb | 4.3Gb | 32X | 512K | ATI 3D RAGE AGP 2Mb | Win 98 | £781.99 | £918.81 |
| Equium 7100S | PCTS22 Pentium® II 350 | NO | 64Mb | 4.3Gb | 32X | 512K | ATI 3D RAGE AGP 2Mb | Win NT | £831.99 | £977.55 |
| Equium 7100S | PCTS19 Pentium® II 400 | NO | 64Mb | 4.3Gb | 32X | 512K | ATI 3D RAGE AGP 2Mb | Win 98 | £924.99 | £1,086.81 |
| Equium 7100S | PCTS23 Pentium® II 400 | NO | 64Mb | 4.3Gb | 32X | 512K | ATI 3D RAGE AGP 2Mb | Win NT | £975.99 | £1,146.79 |
| Equium 7100D | PCTS18 Pentium® III 350 | NO | 64Mb | 4.3Gb | 32X | 512K | ATI 3D RAGE AGP 2Mb | Win 98 | £823.99 | £968.19 |
| Equium 7100D | PCTS24 Pentium® III 350 | NO | 64Mb | 4.3Gb | 32X | 512K | ATI 3D RAGE AGP 2Mb | Win NT | £874.99 | £1,028.11 |
| Equium 7100D | PCTS20 Pentium® II 400 | NO | 64Mb | 4.3Gb | 32X | 512K | ATI 3D RAGE AGP 2Mb | Win 98 | £976.99 | £1,136.21 |
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COMPAQ

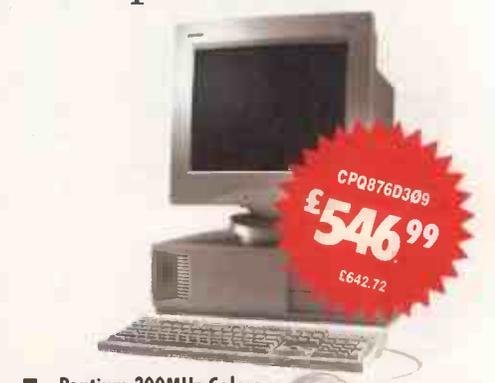
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| BC70 | SINGLE DRIVE 60CM | £24.00 | £28.20 |
| BC50 | 2 DRIVE 90CM | £32.00 | £37.60 |
| BC80 | 3 DRIVE 90CM | £39.00 | £45.83 |
| BC90 | 4 DRIVE 100CM | £59.00 | £69.33 |
| BC100 | SCSI III/SCSI I ADAPTOR MDB68M/50M | £27.00 | £31.73 |
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| 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 50M PASSIVE | £12.00 | £14.10 |
| BC150 | TERMINATOR IN LINE CENT 50M/CENT 50M ACTIVE | £20.00 | £23.50 |

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| BC160 | MICRO DB50M/CENT 50M 1.8M | £27.00 | £31.73 |
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| 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 |
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| 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 |
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| 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 |
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| BC410 | IBM AT/HAYES MODEM CABLE 3M | £6.00 | £7.05 |
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| 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/BRD EXT CABLE 1.8M | £6.00 | £7.05 |
| BC450 | AT/PS2 KEYBOARD CONVERTOR 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 |
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| BC515 | 25 PIN MALE TO MALE 4.5M | £8.50 | £9.99 |
| BC520 | 25 PIN MALE TO FEMALE 1.8M | £6.50 | £7.63 |
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| BC720 | COMPACT PARALLEL AUTO SWITCH REVERSIBLE 2 POSITION | £25.50 | £29.96 |
| BC730 | COMPACT PARALLEL AUTO SWITCH REVERSIBLE 4 POSITION | £44.50 | £52.29 |

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| BC910 | HP recommended Bitronics Manual reversible 2-1 switch. incl. IEEE1284 cable (FU123-KIT) | £39.00 | £45.83 |
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| CABC002 | BITRONICS AUTO SWITCH KIT 2 PORT | £42.00 | £49.35 |
| CABC003 | BITRONICS AUTO SWITCH KIT 4 PORT | £75.00 | £88.12 |

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| BC920 | OmniView 4 port (F1D066U) | £229.00 | £269.08 |
| BC930 | OmniView AT cable kit (A3X932U) | £10.00 | £11.75 |
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| DT5 | TRUST 18 X 12 DIGITISING | £115.00 | £135.13 |
| WAC001 | WACOM A6 INTUOUS GRAPHICS | £115.00 | £135.13 |
| WAC002 | WACOM A5 INTUOUS GRAPHICS | £199.99 | £234.99 |
| WAC003 | WACOM A4 INTUOUS GRAPHICS | £295.99 | £347.79 |
| WAC004 | WACOM A4 INTUOUS GRAPHICS CAD | £329.99 | £387.74 |
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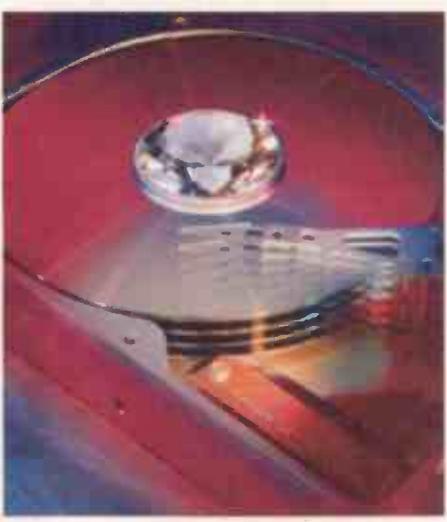
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| HD910-WA | E/PRISE | AV9.1GB | UW | 1MB | <8MS | 7200 | £399.99 | £469.99 |
| HD430-W | E/PRISE | 4.3GB | U | 512K | <8MS | 7200 | £229.00 | £269.08 |
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| HD900-I | USTAR 9ES NARROW | 9.1GB | 512K | 7.5MS | 7200 | £309.99 | £364.24 |
| HD900-W | USTAR 9ES UW | 9.1GB | 512K | 7.5MS | 7200 | £309.99 | £364.24 |
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| HD901-I2W | USTAR 9LP U2W LVD | 9.1GB | 1Mb | 6.5MS | 7200 | £329.99 | £387.74 |
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| HD180-W | USTAR 9LP UW | 18GB | 1Mb | 6.5MS | 7200 | £549.99 | £646.24 |
| HD180-I2W | USTAR 9LP U2W LVD | 18GB | 1Mb | 6.5MS | 7200 | £579.99 | £681.49 |
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| CD WRITERS (ALSO SEE MAIN ADVERTS) | | | |
| LACIE | | | |
| LC1E001 | 8x20 EXT SCSI CDR inc ADAPTEC 2902 KIT | £419.99 | £493.49 |
| LC1E002 | 4X12 EXT SCSI CDR inc ADAPTEC 2902 KIT | £217.99 | £256.14 |
| LC1E003 | 2X2X6 EXT USB CD-RW inc ADTEC 2902 KIT | £269.99 | £317.24 |
| LC1E004 | 2X2X6 EXT SCSI CD-RW inc ADTEC 2902 KIT | £210.99 | £247.91 |
| LC1E005 | 4X4X16 EXT SCSI CD-RW inc ADTEC 2902 KIT/304.99 | | £358.36 |



HP SURESTORE CD-WRITER PLUS 7200

The CD-Writer Plus 7200 offers a versatile cost effective solution for data archiving, information distribution and multimedia publishing. External and internal models are available.

CDR-730 EXTERNAL
£225.99
£265.54



CDR-720 INTERNAL
£142.99
£168.02



HEWLETT PACKARD

| | | | |
|---------|--------------------------------------|---------|---------|
| CDR-720 | SURESTORE 7200I CD-RW 2X2X6 INT | £142.99 | £168.02 |
| CDR-730 | SURESTORE 7200E CD-RW 2X2X6 EXT | £225.99 | £265.54 |
| CDR-731 | SURESTORE 8100I CD-RW 24X4X2 INT IDE | £214.99 | £252.61 |

All packs include

- Everything needed to create CDs is in the box
- One device - no need for Zip, CD ROM, 2nd HDD etc.
- Supports CD-UDF for Drag & Drop
- 2x Write & 6x Read 2x Rewrite
- 1 Year standard exchange warranty
- Enhanced software package includes Adaptec direct CD, HP SimpleTrax, DocuMagic PaperMaster Live, Adaptec Audio CD and much more.

THE ONLY 4X CD-REWRITABLE IN THE WORLD

The new Yamaha CRW4416 is the only CD-ReWritable capable of 4x speed re-recording.

The CRW4416 offers the flexibility of a built-in SCSI interface, creating true 'plug-and-play' connectivity with PC and Macintosh alike.

YAMAHA

YH4416T CRW4416 INT SCSI

£264.99
£311.36



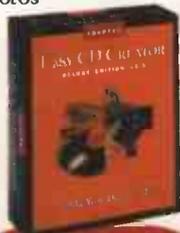
CRW4416 Value Kit

The CRW4416 Value Kit includes three pieces of industry standard pre-mastering and packet writing software, giving access to the full power of the drive.

| | | | |
|----------|--------------------------------------|---------|---------|
| CDR-460 | CRW4260TVK 2X4X6 INT SCSI CD-RW KIT | £209.99 | £246.74 |
| CDR-470 | CRW4260TVK 2X4X6 EXT SCSI CD-RW KIT | £239.99 | £281.99 |
| YH4261T | CRW4261TVK 4X2X6 INT IDE CD-RW KIT | £209.99 | £246.74 |
| YH2216VK | CRW2216VK 2X2X16 INT IDE CD-RW KIT | £169.99 | £199.74 |
| YH4416T | CRW4416TVK 4X4X16 INT SCSI CD-RW KIT | £264.99 | £311.36 |

Adaptec

EASY CD CREATOR DELUXE v3.5
Let's you make your own CDs! Create CDs with data, music, photos and videos for sharing with others.



- Easy to use drop & drag 1/Face
- Multi-track audio or mixed mode disc recording
- Multisession capability
- Supports virtually all CD recs
- Includes CD Spin Doctor
- Includes Picture CD Creator

S-ADA10 EASY CD
£49.00
£57.58

PHILIPS

The Phillips 2x2x6 CD-Rewritable drives offer what you've always wanted at a price you can afford.

- 6 speed read / 2 speed write / 2 speed rewrite
- Comes bundled with Adpatec Easy CD Creator and Direct CD writing software
- One free CD-RW disk with each drive.
- Choice of IDE or SCSI interface.
- Outstanding value for money.



CDPH001 3610 2X2X6 INT IDE
£149.99
£176.24

| | | | |
|---------|---|---------|---------|
| CDPH001 | PHILIPS 3610 2X2X6 INT IDE KIT | £149.99 | £176.24 |
| CDPH002 | PHILIPS 3600 2X2X6 INT SCSI KIT NO CARD | £149.99 | £176.24 |
| CDPH005 | PHILIPS 363RW 2X2X6 EXT P/PORT KIT | £194.99 | £229.11 |
| CDPH003 | PHILIPS 74 MIN CDR MEDIA | £0.89 | £1.05 |
| CDPH004 | PHILIPS CD-RW MEDIA | £6.99 | £8.21 |

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BACK-UP

HEWLETT/PACKARD COLORADO DRIVES

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|-----------|-------------------------------------|---------|---------|
| C0943F062 | COLORADO 5GB INT IDE INC 1 MEDIA | £119.99 | £140.99 |
| HP943F071 | COLORADO 5GB INT IDE NO MEDIA | £109.99 | £129.24 |
| C0943G438 | COLORADO 5GB EXT P/PORT INC 1 MEDIA | £149.99 | £176.24 |
| C0943G092 | COLORADO 5GB EXT P/PORT NO MEDIA | £135.99 | £159.79 |
| T500-M | 5GB COLORADO MEDIA SINGLE | £17.99 | £21.14 |
| C0943F073 | COLORADO 8GB INT IDE INC 1 MEDIA | £154.99 | £182.11 |
| C0943F845 | COLORADO 8GB INT IDE NO MEDIA | £144.99 | £170.36 |
| C0943D243 | COLORADO 8GB EXT P/PORT INC 1 MEDIA | £184.99 | £217.36 |
| T800-M | 8GB COLORADO MEDIA SINGLE | £19.99 | £23.49 |
| T620 | T41 8GB INT STREAMER | £205.99 | £242.04 |

HEWLETT/PACKARD SURESTORE

| | | | |
|-----------|-------------------------------------|-----------|-----------|
| T60-S | SURESTORE 2000i | £284.99 | £334.86 |
| T61-S | SURESTORE 2000e | £364.99 | £428.86 |
| T62-S | SURESTORE 5000i | £309.99 | £364.24 |
| HP943G609 | SURESTORE 5000e | £399.99 | £469.99 |
| HP943F239 | SURESTORE 5000eU | £399.99 | £469.99 |
| HP943F240 | SURESTORE DAT 8i | £479.99 | £563.99 |
| HP943F241 | SURESTORE DAT 8e | £554.99 | £652.11 |
| HP943D116 | SURESTORE T20i 10-20GB SCSI | £259.99 | £305.49 |
| HP270E | SURESTORE T20e 10-20GB SCSI | £315.99 | £371.29 |
| T24i | SURESTORE DAT 24i | £674.99 | £793.11 |
| T24E | SURESTORE DAT 24e | £748.99 | £880.06 |
| HP943G605 | SURESTORE DAT 24eU | £829.99 | £975.24 |
| HP943B210 | SURESTORE DAT 24 X 6i AUTOLOADER | £2,013.99 | £2,366.44 |
| BAHP002 | SURESTORE DAT 24 X 6e AUTOLOADER | £2,080.99 | £2,445.16 |
| BAHP005 | SURESTORE DLT 40i INT 20/40GB DRIVE | £1,796.99 | £2,111.46 |
| TDLT40 | SURESTORE DLT 40e EXT 20/40GB DRIVE | £1,959.99 | £2,302.99 |
| HP943D263 | SURESTORE DLT 70i INT 70GB DRIVE | £4,214.99 | £4,952.61 |
| TDLT70 | SURESTORE DLT 70e EXT 70GB DRIVE | £4,319.99 | £5,075.99 |

LACIE

| | | | |
|---------|--|---------|---------|
| LCE1006 | DVD RAM EXT SCSI inc ADAPTEC 2902 KIT | £511.99 | £601.59 |
| LCE1007 | NSB TRAVAN EXT SCSI inc ADAPTEC 2902 KIT | £273.99 | £321.94 |

SEAGATE TRAVAN

| | | | |
|-----------|--------------------------------|---------|---------|
| SG2750699 | HORNET TRAVAN INT 8GB ATAPI | £169.99 | £199.74 |
| SG2750707 | HORNET TRAVAN INT 8GB SCSI | £193.99 | £227.94 |
| SG1000 | HORNET TRAVAN NS INT 8GB SCSI | £205.99 | £242.04 |
| SG1001 | HORNET TRAVAN NS INT 20GB SCSI | £234.99 | £276.11 |

SEAGATE DAT

| | | | |
|-----------|--------------------------------|---------|---------|
| SG2750496 | SCORPION DDS/DC INT 4GB SCSI-2 | £378.99 | £445.31 |
| SG2750502 | SCORPION DDS/DC EXT 4GB SCSI-2 | £455.99 | £535.79 |
| SG2750498 | SCORPION DDS-2 INT 8GB SCSI-2 | £455.99 | £535.79 |
| SG2750504 | SCORPION DDS-2 EXT 8GB SCSI-2 | £532.99 | £626.26 |
| SG2750504 | SCORPION DDS-3 INT 24GB SCSI-2 | £597.99 | £702.64 |
| SG2750753 | SCORPION DDS-3 EXT 24GB SCSI-2 | £679.99 | £798.99 |

SEAGATE AIT

| | | | |
|-----------|-----------------------------------|-----------|-----------|
| SG2750787 | SIDEWINDER AIT INT 50GB FW SCSI-2 | £1,440.99 | £1,693.16 |
| SG2750789 | SIDEWINDER AIT EXT 50GB FW SCSI-2 | £1,452.99 | £1,942.26 |
| SG2750793 | SIDEWINDER AIT CARTRIDGE 25/50GB | £61.99 | £72.84 |

PANASONIC STORAGE PRODUCTS

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|----------|-----------------------------------|---------|---------|
| PD225 | PD INT IDE DRIVE LF1196AB KIT | £184.99 | £217.36 |
| PD330 | PD EXT P/PORT DRIVE LF1500EPB KIT | £224.99 | £264.36 |
| CD205 | 650MB PD MEDIA | £14.99 | £17.61 |
| LF-D101E | DVD RAM INT SCSI SCSI-LF-D101E | £349.99 | £411.24 |
| DVDRAM26 | DVD 2.6GB MEDIA | £17.99 | £21.14 |
| DVDRAM52 | DVD 5.2GB MEDIA | £24.99 | £29.36 |
| LS-120S | LS120 INT IDE KIT | £59.99 | £70.49 |
| T72-PA | ZIP DRIVE INT IDE REATIL KIT | £64.99 | £76.36 |

DANMERE BACKER

| | | | |
|------|----------------|--------|--------|
| T907 | DANMERE BACKER | £30.99 | £36.41 |
|------|----------------|--------|--------|

EXABYTE IDE NESTS

| | | | |
|-------|-------------------------|--------|--------|
| TEX40 | IDE NEST AND CONTROLLER | £39.99 | £46.99 |
|-------|-------------------------|--------|--------|

EXABYTE IDE NEST READY DRIVES

| | | | |
|-------|----------------------------|--------|--------|
| TEX80 | IDE NEST READY ZIP DRIVE | £39.99 | £46.99 |
| TEX90 | IDE NEST READY LS120 DRIVE | £34.99 | £41.11 |

OLYMPUS EXTERNAL DRIVES -

| | | | |
|------|------------------------------|---------|---------|
| T400 | POWER MO 230-II - Parallel | £185.99 | £218.54 |
| T410 | POWER MO 230-II - Mac & SCSI | £180.99 | £212.66 |

TAPES AND MEDIA

| | | | |
|--------|----------------------------|--------|--------|
| T46 | TR1 | £11.99 | £14.09 |
| T48 | TR3 | £14.99 | £17.61 |
| T48-4 | TR4 | £18.99 | £22.31 |
| T46-E | VERBATIM TR1 EXTRA 1GB CAP | £14.99 | £17.61 |
| T48-E | VERBATIM TR3 EXTRA 4GB CAP | £18.99 | £22.31 |
| T49 | QC3080 4GB | £18.99 | £22.31 |
| T40 | FORMATTED DC2120 | £5.99 | £7.04 |
| T41 | DC2120XL 350MB | £11.00 | £12.93 |
| TDLT10 | DLT 15/30GB MEDIA | £35.99 | £42.29 |
| TDLT20 | DLT 20/40GB MEDIA | £69.99 | £82.24 |
| TD53 | DDS-3 CARTRIDGE 5 PACK | £75.99 | £89.29 |



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PACKARD**

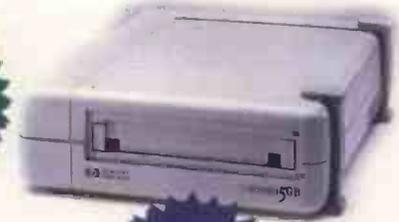
Colorado 5GB & 8GB

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
£185.00
EXTERNAL**

C0943G438 EXT **£149.99** ex VAT £176.24 inc VAT

C0943F062 INT **£119.99** ex VAT £140.99 inc VAT

HP SureStore DAT24



- HP's new DDS-3 format
- Capacity of 24 GB and transfer rate of 2 MB/s *
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- Internal head cleaner to help prevent head clogging
- Read and write compatible with DDS, DDS-DC, DDS-2, and DDS-3
- Compatible with all major operating systems and software solutions
- HP DDS-3 media for maximum quality and reliability
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T24i **£674.99** ex VAT £793.11 inc VAT



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| TDK5880010 | DC4-90 4MM 2.0GB DATA CTDRGE PC 90M eg | £6.99 | £8.21 |
| TDK5880013 | DC4-60M 4MM 1.3GB DATA CTDRGE PC 60M | £3.99 | £4.69 |
| TDK5880014 | DC8-112M 8MM 2.3GB DATA CTDRGE PC 112M | £3.99 | £4.69 |
| TDK5880026 | DC2120 120MB MINI DATA CTDRGE MAC/PC | £3.99 | £4.69 |
| TDK5880029 | DC6250 250MB STANDARD DATA CTDRGE MAC/PC | £3.99 | £4.69 |
| TDK5880030 | DC6150 150MB STANDARD DATA CTDRGE PC | £3.99 | £4.69 |
| TDK5880031 | MO-128 3.5 128MB MO MAGNETO PC | £3.99 | £4.69 |
| TDK5880032 | MO-230 3.5 230MB MO MAGNETO PC | £3.99 | £4.69 |
| TDK5880033 | DC4-120 4MM 4GB DATA CTDRGE PC | £6.99 | £8.21 |
| TDK5880036 | 170MB FORM. MINI DATA CART 3 DOS | £7.99 | £9.39 |
| TDK5880037 | 1GB STANDARD DATA CARTRIDGE NMS | £15.99 | £18.79 |
| TDK5880038 | 1.2GB STANDARD DATA CARTRIDGE NMS | £14.99 | £17.61 |
| TDK5880042 | 3.5 128MB APPLE FORMATTED MAC | £4.99 | £5.86 |
| TDK5880044 | 3.5 230MB APPLE FORMATTED MAC | £4.99 | £5.86 |
| TDK5880046 | 2MB IBM FORMAT 50 PACK 3.5 PC | £9.99 | £11.74 |
| TDK5880048 | 5.25 1.3GB MO PC | £18.99 | £22.31 |
| TDK5880051 | MAG OPTICAL 2.3 GB NMS | £40.99 | £48.16 |
| TDK5880052 | MAG OPTICAL 2.6GB NMS | £31.99 | £37.59 |
| TDK5880054 | DC2120 QIC80 120MB FORMATTED NMS | £3.99 | £4.69 |
| TDK5880056 | TR1-QIC EXTRA NMS DATA CARTRIDGE | £13.99 | £16.44 |
| TDK5880062 | CDR 74MIN NMS SPECIAL PRICE / 650MB | £1.99 | £2.34 |
| TDK5880063 | MO 540MB NMS 3.5" UNFRMTD 512B PS | £18.99 | £22.31 |
| TDK5880064 | MO 640MB NMS 3.5" UNFRMTD 2048B PS | £15.99 | £18.79 |
| TDK5880071 | DC4-120 4MM 4GB DATA CTDRGE STORAGE | £3.99 | £4.69 |
| TDK5880074 | DC4-90 4MM 2.0GB DATA CART NMS | £4.99 | £5.86 |
| TDK5880076 | DATA CARTRIDGE 7GB NMS DC-8 160 MTR | £6.99 | £8.21 |
| TDK5880077 | REFLEX CDR 74MIN NMS 80E 10PK | £10.99 | £12.91 |
| TDK5880078 | REWRITABLE CDR 74MIN NMS | £8.99 | £10.56 |
| TDK5880079 | REFLEX CDR 74MIN(10PK) NMS 10 X RED | £10.99 | £12.91 |



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| CD A10 | AUDIO CD 74 MIN. | £2.99 | £3.51 |

MO DISKS

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| 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 |

DATA CARTRIDGES

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|-------|----------------------|--------|--------|
| TF20 | 2120X 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 |
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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
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- 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
£349.99
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Panasonic PD

- 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
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 CD205 650MB MEDIA
£14.99 ex £17.61 inc

PD225-IDE PD DRIVE
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iomega drives

Two and one-half times larger capacity than the original Zip 100MB drive, the new Zip 250 drive uses new Zip 250MB disks.



NEW

External Zip 250
£139.00
 £163.33

| | | | |
|-----------|---|---------|---------|
| T70 | ZIP PARALLEL PORT EXT | £79.00 | £92.83 |
| T70-B2 | ZIP STARTER KIT P/PORT EXT (INC 6 DISKS, ZIP TOOLS AND RECORDIT SOFTWARE) | £109.00 | £128.08 |
| T70-B | ZIP PARALLEL PORT EXT (INC 6 DISKS AND LOGITECH MOUSE) | £129.00 | £151.58 |
| T71 | ZIP SCSI EXT | £79.00 | £92.83 |
| T71-I | ZIP SCSI INT | £86.00 | £101.05 |
| BA10B01 | ZIP ATAPI/IDE INT | £69.00 | £81.08 |
| BN6180538 | ZIP USB EXT | £99.00 | £116.33 |
| BN30B13 | ZIP RED 250MB EXT PARALLEL PORT | £139.00 | £163.33 |
| BN30B11 | ZIP RED 250MB EXT SCSI | £139.00 | £163.33 |
| T76 | ZIP ZOOM CARD | £27.00 | £31.73 |
| T72 | ZIP PC100MB MEDIA SINGLE DISK | £6.99 | £8.21 |
| T72-6A | ZIP PC100MB MEDIA SIX DISK PACK | £39.99 | £46.99 |
| T72-10 | ZIP PC100MB MEDIA TEN DISK PACK | £64.99 | £76.36 |

- Uses genuine 250MB & 100MB* Zip* disks
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- approximate drive dimensions: 7" depth x 5.5" width x 1.5" high
- Drive weight: about a pound
- Automatic low-power mode saves energy
- One-year limited warranty on drive
- Five-year limited warranty on disk

*250MB and 100MB capacity where 1MB= 1 million bytes. The capacity reported by your operating system may differ.



T70-B2 ZIP STARTER KIT
£109.00
 £128.08

ZIP STARTER KIT

- Parallel port Zip drive
- 6 pcs media
- StarTrek starship creator included



BN6180538 USB ZIP
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USB ZIP

- USB Zip drive
- Compatible with iMac and PCs (with USB port)
- Transparent casing



Perfect for backing-up your hard drive and storing and transporting huge video, audio, multimedia, graphics and more.

OP200 JAZ 2GB INT
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 £292.58



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| OP200 | JAZ 2GB INT | £249.00 | £292.58 |
| BN6180515 | JAZ 2GB EXT (INC 3 2GB DISKS) | £379.00 | £445.33 |
| OP60 | JAZ TRAVELLER SCSI TO P/PORT CONVERTER | £44.65 | |
| OP50 | JAZ JET INTERFACE PCI | £69.00 | £81.08 |
| BN6180394 | JAZ JET INTERFACE ISA | £69.00 | £81.08 |
| OP35 | JAZ 1GB DISK SINGLE PACK | £53.00 | £62.28 |
| OP35-3 | JAZ 1GB DISK THREE PACK | £150.00 | £176.25 |
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| OP400-3 | JAZ 2GB DISK THREE PACK | £159.00 | £186.83 |



- New Flash! File™ storage software lets you access most files in seconds.
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| TDM40 | DITTO MAX PRO 10GB EXT | £169.00 | £198.58 |
| TDC10 | DITTO MAX 3GB MEDIA SINGLE DISK | £15.00 | £17.63 |
| BN6180444 | DITTO MAX 3.7GB MEDIA SINGLE DISK | £15.00 | £17.63 |
| BN6180380 | DITTO MAX 5GB MEDIA SINGLE DISK | £16.50 | £19.39 |
| TDC20 | DITTO MAX 7GB MEDIA SINGLE DISK | £18.00 | £21.15 |
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| F700-I | SPORTSTER WINMODEM | £54.00 | £63.45 |
| F700-P | SPORTSTER WINMODEM 33.6 PC CARD | £69.00 | £81.08 |
| USR4801303 | 56K FAX MODEM V90 | £58.00 | £68.15 |
| F705-E | 56K VOICE FAX MODEM EXTERNAL | £71.00 | £83.43 |
| F708 | 56K VOICE FAX MODEM INTERNAL | £68.00 | £79.90 |
| F707 | 56K MESSAGE MODEM EXTERNAL | £88.00 | £103.40 |
| MO3C001 | 56K PROFESSIONAL MESSAGE MODEM | £110.00 | £129.25 |
| F97 | COURIER V34 EXTERNAL | £195.00 | £229.13 |
| F97-1 | 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 |
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| FS11 | 56K VOICE INTERNAL | £65.49 | £76.95 |
| FS21 | 56K VOICE EXTERNAL | £82.99 | £97.51 |
| FS25 | 56 SOLO. | £133.99 | £157.44 |
| FS23 | ISDN Terminal Adpt. | £179.99 | £211.49 |
| FS22 | 56K NB VOICE PC Card | £93.99 | £110.44 |
| FS24 | 56K Voice External - MAC. | £90.99 | £106.91 |
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| HS4240266 | BT V90 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 |
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| FH760 | ACCURA 336 PCMCIA | £90.49 | £106.33 |
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| HS4240265 | OPTIMA 56K EXTERNAL MODEM | £169.99 | £199.74 |
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| | 10BaseT/10Base2 CEM-33BC/M | £189.00 | £222.08 |
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| | UTP/STP CTM-33CTP/E | £152.99 | £179.76 |
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| | 10/100MBPS | £203.99 | £239.69 |
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| FP120 | GOLD CARD GLOBAL 56K + fax | £144.99 | £170.36 | PSD5530102 | ALCATEL ONE TOUCH PRO | £88.99 | £104.56 |
| PSD5530290 | ISDN UPGRADE | £119.99 | £140.99 | PSD5530103 | AEG | £88.99 | £104.56 |
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| FP130 | NOKIA 2110 | £77.99 | £91.64 | PSD5530291 | ERICSSON 300 | £88.99 | £104.56 |
| PSO5530292 | NOKIA 6110 | £77.99 | £91.64 | PSD5530348 | MOTOROLA STARTAC/MICROTAC | £88.99 | £104.56 |
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| APC2700346 | SmartUPS 1400RMI Rack mount | £429.99 | £505.24 |
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| NE3C026 | BASLINE DUAL SPEED HUB 24X 10/100BASETX 3C16593 | £579.99 | £681.49 |
| NR240 | BASLINE SWITCH 12X10BASET / 2 X10/100 PORTS 3C16460 | £359.99 | £422.99 |
| NE3C027 | BASLINE FAST ETHERNET SWITCH 12X10/100 PORTS 3C16464 | £639.99 | £751.99 |
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|-------|-------|---|---------|---------|
| NS100 | SB104 | Ethernet Starter Kit - EN104TP + Two FA310TX + Two 25' Cables | £64.99 | £76.36 |
| NS106 | FB108 | Fast Ethernet Starter Kit - FE108 + Two FA310TX + Two 25' Cables | £139.99 | £164.49 |
| NS107 | EB104 | Ethernet Starter Kit - EN104 + Two EA201c 10Mbps + Two 2-25' Cables | £54.99 | £64.61 |

NETGEAR ADAPTER CARDS - 10/100Mbps

| | | | | |
|-------|----------|--|---------|-----------|
| 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 | £879.99 | £1,033.99 |
| NS135 | FA410 | 10/100Mbps TP PCMCIA Card | £69.99 | £82.24 |

NETGEAR ADAPTER CARDS - 10Mbps

| | | | | |
|-------|----------|---|---------|---------|
| 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 |

NETGEAR HUBS - 10Mbps

| | | | | |
|-------|---------|--|---------|---------|
| NS140 | EN104TP | 4 Port Slimline 10Base-T Ethernet Hub ext psu (inc UK220 volt power adpt) | £22.99 | £27.01 |
| NS145 | EN104 | 4 Port Slimline 10Base-T Ethernet Hub with integrated BNC port ext psu (inc UK220 volt ext power adpt) | £33.99 | £39.94 |
| NS150 | EN106TP | 6 Port Slimline 10Base-T Ethernet Hub ext psu (inc UK220 volt ext power adpt) | £29.99 | £35.24 |
| NS152 | EN108TP | 8 Port Slimline 10Base-T Ethernet Hub ext psu (inc UK220 volt ext power adpt) | £34.49 | £40.53 |
| NS155 | EN108 | 8 Ports Slimline 10Base-T Ethernet Hub with integrated BNC port gr 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 (inc UK power cord) | £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 | £152.24 |

NETGEAR HUBS - 100Mbps

| | | | | |
|-------|-------|---|---------|---------|
| NS185 | FE104 | 4 Port Slimline Class II 100Base-TX Fast Ethernet Hub ext psu (inc UK220 volt power adpt) | £64.99 | £76.36 |
| NS190 | FE108 | 8 Port Slimline Class II 100Base-TX Fast Ethernet Hub ext psu (inc UK220 volt power adpt) | £117.99 | £138.64 |
| NS191 | FE116 | 16 Port Slimline Class II 100Base-TX Fast Ethernet Hub ext psu (inc UK220 volt power adpt) | £248.99 | £292.56 |
| NS195 | FE508 | 8 Port 100Base-TX Fast Ethernet Cascade Port Rackmount Stackable Hub int psu (inc UK power cord) | £199.99 | £234.99 |
| NS200 | FE516 | 16 Port 100Base-TX Fast Ethernet Cascade Port Rackmount Stackable Hub int psu (inc UK power cord) | £299.99 | £352.49 |

NETGEAR HUBS - 10/100Mbps

| | | | | |
|-------|-------|---|---------|---------|
| NS204 | DS104 | 4 Port Dual Speed Hub (inc UK power cord) | £74.99 | £88.11 |
| NS205 | DS108 | 8 Port Slimline Dual Speed Hub ext psu (inc UK power cord) | £164.99 | £193.86 |
| NS210 | DSS08 | 8 Port Dual Speed Cascade Port Rackmount Stackable Hub int psu (inc UK power cord) | £233.99 | £274.94 |
| NS215 | DSS16 | 16 Port Dual Speed Cascade Port Rackmount Stackable Hub int psu (inc UK power cord) | £339.99 | £399.49 |
| NS216 | DSS24 | 24 Port Dual Speed Cascade Port Rackmount Stackable Hub int psu (inc UK power cord) | £419.99 | £493.49 |

NETGEAR SWITCHES - MIXED PORT

| | | | | |
|-------|-------|--|---------|---------|
| NS220 | SW108 | 8 Port Slimline 10Base-T Ethernet Switch ext psu inc | £149.99 | £176.24 |
| NS235 | SW510 | 10 Port Ethernet Switch with eight 10Base-T Ethernet Ports and two speed-sensing 10/100Mbps UTP Ports Rack int psu (inc UK power cord) | £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 (inc UK power cord) | £399.99 | £469.99 |

NETGEAR SWITCHES - 10/100Mbps

| | | | | |
|-------|-------|---|-----------|-----------|
| NS245 | FS102 | 2 Port Fast Ethernet Switch speed-sensing ext psu (inc UK220 volt power adpt) | £117.99 | £138.64 |
| NS250 | FS104 | 4 Port Fast Ethernet Switch speed-sensing ext psu (inc UK220 volt power adpt) | £209.99 | £246.74 |
| NS320 | FS108 | 8 Port Slimline 10/100 auto sensing Switch ext PSU | £249.99 | £293.74 |
| NS325 | FS308 | 8 Port 10/100 auto-sensing switch int PSU | £299.99 | £352.49 |
| NS330 | FS562 | 6 x 10/100Base-T + 2 x 100meg Fibre Rack Mount Switch Int PSU | £809.99 | £951.74 |
| NS335 | FS566 | 6 x 10/100Base-T + 6 x 100meg Fibre Rack Mount Switch Int PSU | £1,099.99 | £1,292.49 |
| NS340 | FS509 | 8 x 10/100Base-T + 1 x Gigabit ethernet Rack Mount Switch Int PSU | £709.99 | £834.24 |
| NS255 | FS508 | 8 Port Fast Ethernet Switch speed-sensing rack mount int psu | £439.99 | £516.99 |
| NS260 | FS516 | 16 Port Fast Ethernet Switch speed-sensing rack mount int psu (inc UK power cord) | £699.99 | £822.49 |

NETGEAR INTERNET ACCESS/ ROUTERS

| | | | | |
|-------|-------|---|---------|---------|
| NS280 | RT328 | 128k ISDN Router Multilink PPP, NAT, DHCP, 2 phone ports | £179.99 | £211.49 |
| NS285 | RH348 | 128k ISDN Router with features of RT328 + built in 4 port hub | £219.99 | £258.49 |
| NS286 | RM356 | 56k V.90 IP Router, NAT, DHCP + built-in 4 port hub | £199.99 | £234.99 |
| NS290 | XM128 | 128k ISDN Digital Modem with ST interface 2 (A-Jaw) POTS Multilink PPP 2 Analog Ports (inc UK power adpt) | £124.99 | £146.86 |

NETGEAR PRINT SERVERS

| | | | | |
|-------|-------|--|---------|---------|
| NS295 | PS104 | 10Mbps Print Server 1 x parallel + integrated 4 port hub | £87.99 | £103.39 |
| NS300 | PST10 | 10/100Mbps Print Server with 2 parallel ports | £119.99 | £140.99 |



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 |

UTP CATEGORY 5 SNAGLESS PATCH CABLES

| | | | |
|-----------|--|--------|--------|
| 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 |

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Insight



MONITORS

| ADI | | | |
|----------------------|--|-----------|-----------|
| 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 |
| BELINEA | | | |
| M0750 | 1070SD 17IN DTRON 0.25DP 95KHz TCO 95 | £255.99 | £300.79 |
| MNBL010 | 106020 19IN FST 0.26DP 95KHz TCO95 | £288.99 | £339.56 |
| MNBL015 | 106070 19IN FST 0.25DP 95KHz ZENTAN | £345.99 | £406.54 |
| MNBL005 | 108050 21IN FST 0.26DP 95KHz TCO95 BNC | £535.99 | £629.79 |
| MNBL016 | 108015 21IN FST 0.25DP 115KHz TCO95 | £624.99 | £734.36 |
| MNBL017 | 101510 15IN TFT FLAT PANEL | £690.99 | £811.91 |
| CTX | | | |
| CTS300052 | 1451E/VL400 14IN 0.28DP 1024X768 | £80.00 | £94.00 |
| M0614 | 1555SE/VL510 15IN 0.28DP 1024X768 | £99.00 | £116.33 |
| CTS300053 | 1569SE/VL500 15IN 0.28DP 1280X1024 | £105.00 | £123.38 |
| M0609 | 1569ME/M5500 15IN 0.28DP 1280X1024 | £135.00 | £158.63 |
| M0611 | 1569UA/PR500 15IN 0.25DP 1280X1024 | £150.00 | £176.25 |
| CTS300054 | 1769SE/VL700 17IN 0.28DP 1280X1024 | £169.00 | £198.58 |
| M0615 | 1769ME/M5700 17IN 0.28DP 1280X1024 | £280.00 | £331.35 |
| CTS300055 | 1792UA/PR710 17IN 0.25DP 1600X1200 | £309.00 | £363.08 |
| M0613 | 1792SE/VL710 17IN 0.26DP 1600X1200 | £245.00 | £287.81 |
| M0605 | 1785XE 17IN 0.26DP 1600X1200 | £215.00 | £252.63 |
| CTS300057 | VL710ST 17IN 0.26DP 1600X1200 SHORT | £275.00 | £323.13 |
| CTS300049 | 1995UE/VL950T 19IN 0.26DP 1600X1200 | £345.00 | £405.38 |
| M0607 | 2085XE/EX800 20IN 0.28DP 1600X1200 | £539.00 | £645.08 |
| M0608 | 2185XE 21IN 0.26DP 1600X1200 | £681.00 | £800.18 |
| M0618 | 2195XE/EX1100 21IN 0.26DP 1600X1200 | £736.00 | £864.80 |
| M0619 | CTX PANOVUEW 540 10.4 LCD | £499.00 | £586.33 |
| M0620 | CTX PANOVUEW 600 12.1 LCD | £599.00 | £703.83 |
| M0621 | CTX PANOVUEW 745 14.5 LCD | £599.00 | £703.83 |
| NOKIA | | | |
| M0311 | NOKIA 4472A 17IN FST 0.26DP | £268.99 | £316.06 |
| M0312 | NOKIA 447XPRO 17IN TRINITRON | £328.99 | £386.56 |
| MNNK001 | NOKIA 447X PRO AUDIO 17IN | £348.99 | £410.06 |
| MNNK002 | NOKIA 446X 19IN FST MONITOR | £418.99 | £492.31 |
| M0313 | NOKIA 446X PRO 19IN FST | £449.99 | £528.74 |
| MNNK003 | NOKIA 445X PLUS 21IN FST | £664.99 | £781.36 |
| MNNK004 | NOKIA 400XA 14.1IN TFT FLAT PANEL | £798.99 | £938.81 |
| MNNK006 | NOKIA 500XA 15.1IN TFT PANEL | £878.99 | £1,056.31 |
| SAMSUNG | | | |
| SAS105 | SM510S 15IN | £109.99 | £129.13 |
| M0201 | SM500B 15IN | £139.99 | £164.41 |
| M0204 | SM700S 17IN | £188.99 | £222.01 |
| M0205 | SM700P 17IN | £285.99 | £336.04 |
| M0206 | SM1000P 21IN | £707.99 | £831.89 |
| SAS20TFT | SM320TFT 13.3IN TFT PANEL | £599.99 | £704.99 |
| SAS40TFT | SM400TFT 14.1IN TFT PANEL WITH AUDIO | £649.99 | £763.74 |
| SAS20TFT | SM520TFT 15IN TFT PANEL | £719.99 | £845.99 |
| SAS70TFT | SM720TFT 17IN TFT PANEL | £1,899.99 | £2,232.11 |
| SAS80TFT | SM800TFT 18IN TFT PANEL | £2,599.99 | £3,054.11 |
| SONY | | | |
| M0410 | MULTISCAN 100ES 15IN | £149.99 | £176.24 |
| M0411 | MULTISCAN 100GST 15IN | £209.99 | £246.74 |
| M0413 | MULTISCAN 120AS 15IN | £239.99 | £281.99 |
| M0412 | MULTISCAN 200ES 17IN | £269.99 | £317.24 |
| M0409 | MULTISCAN 200GST 17IN | £299.99 | £352.49 |
| M0415 | MULTISCAN 220AS 17IN | £324.99 | £381.86 |
| M0414 | MULTISCAN 200PST 17IN | £379.99 | £446.49 |
| MNSY001 | MULTISCAN 400PST 19IN | £479.99 | £563.71 |
| M0406 | MULTISCAN 205EN 20IN | £689.99 | £810.74 |
| M0416 | MULTISCAN 500PST 21IN | £709.99 | £834.24 |
| VIEWSONIC | | | |
| M0800 | E641 14IN MONITOR | £85.00 | £99.80 |
| M0801 | E655 15IN MONITOR | £110.00 | £129.25 |
| M048-1 | E771 17IN FST 0.27DP | £195.00 | £229.13 |
| MNVW001 | G653 15IN | £125.00 | £146.88 |
| VS6524146 | G655 15IN MULTIMEDIA | £155.00 | £182.13 |
| M033-1 | G771 17IN FST 0.27DP | £220.00 | £258.50 |
| M0811 | G5771 17IN MONITOR | £220.00 | £258.50 |
| MNVW002 | G4771 17IN 0.27MM | £280.00 | £329.00 |
| M0808 | GT775 17IN | £295.00 | £346.63 |
| M049-1 | G790 19IN 0.26DP | £395.00 | £464.13 |
| M0807 | G800 20IN | £585.00 | £687.38 |
| M033-2 | P655 15IN | £135.00 | £158.63 |
| M044-1 | P775 17IN FST 0.25DP | £299.00 | £351.33 |
| M0809 | PT775PRO 17IN | £345.00 | £405.38 |
| VS8920050 | PS790 19IN 0.25DP SUPERCLEAR | £435.00 | £511.13 |
| M0803 | P810 21IN | £675.00 | £793.13 |
| M0806 | PT813 21IN | £685.00 | £804.88 |
| M0805 | P815 21IN | £815.00 | £957.63 |
| M0813 | VPA145 14.5IN LCD | £685.00 | £804.88 |
| VS8920051 | VP150 15IN LCD | £745.00 | £898.88 |
| MNVW003 | VPA150 15IN LCD | £835.00 | £981.13 |
| LIGHTWARE PROJECTORS | | | |
| LWR000 | VP800 800X600 300 LUMENS SVGA | £1,499.99 | £1,762.41 |

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- Flat-square CRT with Invar alloy shadow mask to ensure colour stability at sustained high brightness levels.
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- 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



MT3630067 SCAN50
£130.99
£153.91

| MITSUBISHI | DESCRIPTION | PRICE | PRICE |
|------------|-------------------------------------|---------|---------|
| MT3630067 | MITSUBISHI SCAN 50 15in FST | £130.99 | £153.91 |
| MNM1002 | MITSUBISHI SCAN 70 17in FST | £194.99 | £229.11 |
| MNM1013 | MITSUBISHI PLUS71 17in Diamondtron | £264.99 | £311.36 |
| MNM1005 | MITSUBISHI PLUS 72 17in Diamondtron | £298.99 | £351.31 |
| MNM1006 | MITSUBISHI PRO 700T7in Diamondtron | £364.99 | £428.86 |

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- 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



MNM1013 PLUS71
£264.99
£311.36

| MITSUBISHI | DESCRIPTION | PRICE | PRICE |
|------------|---------------------------------------|---------|---------|
| MNM1012 | MITSUBISHI SCAN 90 19in | £384.99 | £452.36 |
| MT3630075 | MITSUBISHI PRO900E19IN 0.28DP Dtron | £434.99 | £511.13 |
| MNM1007 | MITSUBISHI PRO 91TXM 21in Diamondtron | £674.99 | £793.11 |
| MNM1009 | MITSUBISHI PRO10T0 21in Diamondtron | £844.99 | £992.81 |
| MNM1010 | MITSUBISHI LXA420W 14.1in TFT | £644.99 | £757.86 |
| MNM1011 | MITSUBISHI LXA520W 15.1in TFT | £744.99 | £875.31 |



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PHILIPS 107S - 17"

- 17"(15.9"Viewable)
- Black Matrix CRT with AGAS coating
- 0.28 dot pitch
- 1024x768 @ 85Hz
- Digital OSD



PHI107S
£169.99
£199.74

| PHILIPS | DESCRIPTION | PRICE | PRICE |
|---------|------------------------------------|---------|---------|
| PHI104B | 104B 14IN 0.28DP CRT MONITOR | £84.99 | £99.86 |
| MOP02 | 1055 15IN 0.28DP FST DIGITAL OSD | £104.99 | £123.36 |
| PHI107S | 107S 17IN 0.28DP FST 1024X768@85Hz | £169.99 | £199.74 |

PHILIPS 107MB - 17"

- 17"(15.9"Viewable)
- Black Matrix CRT with AGAS coating
- 0.28 dot pitch
- 1024x768 @ 85Hz
- Digital OSD
- With speakers



MOP03 107MB
£269.99
£317.24

| PHILIPS | DESCRIPTION | PRICE | PRICE |
|----------|--------------------------------------|---------|---------|
| MOP03 | 107MB 17IN 0.26DP FST 1280X1024@80Hz | £269.99 | £317.24 |
| PHI107MP | 107MP 17IN 0.26DP FST 1280X1024@85Hz | £348.99 | £411.24 |
| PHI201B | 201B 21IN 0.26DP FST | £799.99 | £939.99 |
| PHI518XR | 518XR 15.1IN TCO95 TFT PANEL | £594.99 | £703.99 |

| | |
|---|---|
| CTX 1555E/VL510 £99 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 | CTX 1792UA/PR710T £309 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 |
| CTX 1769SE/VL700 £169 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 | CTX 1995UE/VL950T £345 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 |

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- Reduced emissions
- Anti-reflect/anti glare/antistatic coating
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£468.83

VISIONMASTER PRO 400

- 17" Diamondtron.
- Anti-reflect/antistatic coating
- 1600x1200 @75Hz
- 0.25 aperture grille
- 3Yrs warranty



MN1002 PRO400
£299.00
£351.33

| IIYAMA | | | |
|--------|---|---------|---------|
| M0105 | MF8515G VISION MASTER 350 15in | £119.00 | £139.83 |
| MN1006 | S702GT VISION MASTER 17in | £229.00 | £269.08 |
| MN1001 | S701GT VISION MASTER 400 17in | £259.00 | £304.33 |
| MN1002 | A701GT VISION MASTER PRO 400 17in Dtron | £299.00 | £351.33 |
| M0108 | MF8617ES VISION MASTER 17ES 17in SPEAKERS | £349.00 | £413.08 |
| M0112 | S901GT VISION MASTER 450 19in | £399.00 | £468.83 |
| MN1005 | A901GT VISION MASTER PRO 450 19in NFT | £435.00 | £511.13 |

| | | | |
|--------|---|---------|---------|
| M0120 | S101GT VISION MASTER 501 21in | £645.00 | £757.88 |
| MN1003 | A101GT VISION MASTER PRO 501 21in Dtron | £645.00 | £757.88 |
| MN1004 | S102GT VISION MASTER 502 21in | £669.00 | £786.08 |
| M0119 | A102GT VISION MASTER PRO 502 21in Dtron | £669.00 | £786.08 |
| MN1008 | PROLITE 36 TXA3611HT 14.1in TFT FLAT PANEL | £575.00 | £675.63 |
| MN1007 | PROLITE 36 HIGH CONTRAST TXA3602GT 14in TFT | £765.00 | £898.88 |
| MN1009 | PROLITE 38 TXA3811HT 15in TFT FLAT PANEL | £765.00 | £898.88 |
| MN1010 | PROLITE 38 TXA3821HT 15in USB AUDIO | £795.00 | £934.13 |

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ERGOVISION 735 TCO99



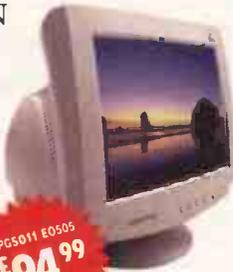
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- 0.27 Dot Pitch
- 1024 x 768 @ 85 Hz
- USB Hub (1 Upstream, 4 Downstream)
- Short Neck Tube (428 mm Deep)
- Fully TCO99 Compliant

MNTA016 735 TCO99
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Enhance your image.

PRINCETON EO505 15"

- 15" (13.8" viewable) high contrast FST
- 1280x1024
- 0.28 dot pitch
- TCO95
- Reduced emissions
- 3Yrs warranty



PGS011 EO505
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£111.61

PRINCETON EO705 17"

- 17" high contrast FST
- 1280x1024 maximum resolution
- 0.27 dot pitch
- TCO95
- 30-70KHz
- 3Yrs warranty



PGS012 EO705
£169.99
£199.74

| PRINCETON | | | |
|-----------|--|---------|---------|
| PGS011 | EO505 15IN 0.28DP FST | £94.99 | £111.61 |
| PGS003 | EO500/95 15" 0.28DP FST 1024x768 @87Hz | £124.99 | £146.86 |
| PGS012 | EO705/95 17IN 0.27DP FST TCO95 | £169.99 | £199.74 |
| PGS004 | EO710/95 17" 0.26DP FST 1024x768 @87Hz | £184.99 | £217.36 |

| | | | |
|--------|---|---------|---------|
| PGS007 | EO900/95 19" 0.26DP FST 1280x1024 @85Hz | £299.99 | £352.49 |
| PGS009 | ARCADIA AR2.7 29" 800x600 NI PRESENTATION | £529.99 | £622.74 |
| PGS010 | DPP500 14" TFT INC 4MB AGP ATI LCD VIDEO CARD | £579.99 | £681.49 |
| PGS008 | C2001 21" 0.28DP DTRON 1600x1200@85Hz | £679.99 | £798.99 |

ERGOVISION 760 TCO95-S 17"

- AGRAS face treatment
- 0.27mm dot pitch
- 1024 x 768 @ 86Hz
- Fully TCO 95 compliant
- 1 touch OSD
- 3Yr warranty



M0513 760TCO95-S
£262.00
£307.85

ERGOVISION 750 TCO95 17"

- K-coating face treatment
- 0.25mm aperture grille pitch
- 1280 x 1024 @ 80Hz
- Fully TCO 95 compliant
- Dual Input



M0505 750TCO95
£349.00
£410.08

| TAXAN | | | |
|---------|--|---------|-----------|
| M0511 | ERGOVISION 550 TCO 95 15" FST | £132.00 | £155.10 |
| MNTA002 | ERGOVISION 550 TCO 95-S 15" FST | £142.00 | £166.85 |
| MNTA016 | ERGOVISION 735 TCO99 17IN FST TCO99 USB | £225.00 | £264.38 |
| MNTA004 | ERGOVISION 760 TCO 95 17" ZENTAN TUBE | £252.00 | £296.10 |
| M0513 | ERGOVISION 760 TCO 95-S 17" ZENTAN TUBE | £282.00 | £307.85 |
| M0504 | ERGOVISION 740 TCO 95 17" FST | £305.00 | £358.38 |
| MNTA017 | ERGOVISION 745 TCO99 17IN FST TCO99 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" DTRON | £759.00 | £891.83 |
| MNTA007 | CRYSTALVISION 600 10.4" TFT + AUDIO | £569.00 | £668.58 |
| MNTA008 | CRYSTALVISION 620 12.1" TFT + AUDIO | £589.00 | £692.08 |
| MNTA001 | CRYSTALVISION 640 TCO 95 14.1" TFT + AUDIO | £645.00 | £757.88 |
| MNTA011 | CRYSTALVISION 670 TCO 95-S 15.1" TFT + AUDIO | £949.00 | £1,115.08 |

ADI the display specialists
MICROSCAN P SERIES



M0525 15" 4P
£119.00
£139.83

M0527 17" 5P
£189.00
£222.08

| ADI SP2000 - SPEAKERS FOR ALL P SERIES MONITORS £16.00 + VAT | | | |
|--|------------------|---------|---------|
| MNAD002 | PROVISTA E33 14" | £95.00 | £111.6 |
| 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 |

Warranty - All ADI MicroScan monitors come with a 3 year on site warranty. ProVista monitors come with 2 years on site and a third year RTB. Warranty upgrades are available

Belnea
MONITORS BY MAXDATA

MARKET LEADER IN EUROPE

BELNEA 105035

- 15-inch FST
- Max Res 1280 x 1024@60Hz, 1024 x 768@85 Hz flicker free
- RT Dot Pitch 0,28 mm Shadow Mask
- Antireflection Coating SILICA
- Emission Standard: MPR II
- 3 Year on site warranty



M0747 105035
£93.99
£110.44

| BELNEA | | | |
|---------|-------------------------------------|---------|---------|
| M0M0745 | 104010 14IN CRT 54KHz MPRII DIGITAL | £78.99 | £92.81 |
| M0747 | 105035 15IN FST 0.28DP 69KHz MPRII | £93.99 | £110.44 |
| MNBL006 | 105046 15IN FST 0.28DP 70KHz TCO95 | £107.99 | £126.89 |
| MNBL002 | 105080 15IN FST 0.28DP NAKAMICHI | £120.99 | £142.16 |
| MNBL007 | 107020 17IN FST 0.28DP 70KHz TCO 95 | £154.99 | £182.11 |
| MNBL009 | 107040 17IN FST 0.26DP 85KHz TCO95 | £189.99 | £223.24 |
| MNBL012 | 107025 17IN FST 0.27DP 70KHz TCO95 | £182.99 | £215.01 |
| MNBL004 | 107060 17IN FST 0.27DP NAKAMICHI | £189.99 | £223.24 |
| MNBL013 | 107035 17IN FST 0.25DP 85KHz TCO95 | £222.99 | £267.01 |
| MNBL014 | 107065 17IN FST 0.26DP NAKAMICHI | £233.99 | £274.94 |

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Insight

MONITORS



EPSON FREE DELIVERY ON ALL 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 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



PR-E20 COLOR 440
£96.00
£112.80

EPSON COVERPLUS
£35.00
3yr onsite

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



PR-E25 COLOR 640
£118.00
£138.65

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



PR-E30 COLOR 740
£147.00
£172.73

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



COVERPLUS
£59.00
3yr onsite



PR-E6 COLOR 850
£207.00
£243.23

EPSON STYLUS COLOR 900

HIGH SPEED BUSINESS PRINTER

- Fastest colour inkjet printer. Black text 12.6ppm and 12.2 black and colour text.
- 1440dpi with variable sized droplet technology
- 1440dpi PhotReal output on plain paper
- Epson Ultra MicroDot™ - world's smallest ink droplet
- EPSON PhotoEnhance™3 for Instant Image Enhancer
- Parallel, USB, MAC serial, Ethernet interface
- Win 3.1/95/98, NT4.0, DOS & MAC
- 1 Year RTB warranty
- iMAC compatible as standard

COVERPLUS
£59.00
3yr onsite



PR-E40 COLOR 900
£261.00
£306.68

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



COVERPLUS
£59.00
3yr onsite



PR-E5 PHOTO 700
£133.00
£156.28

EPSON STYLUS PHOTO 750

HIGHEST QUALITY PHOTO PRINTER FOR EVERYDAY PRINTING NEEDS

- EPSON Ultra MicroDot™
- 1440dpi with Variable-sized Droplet Technology
- 1440dpi printing on plain paper
- Enhanced print speed for photos, graphics and text
- Optimised photo quality
- EPSON PhotoEnhance™3 for Instant Image Enhancer
- High capacity dual ink cartridges for volume printing
- Parallel, USB, MAC serial, Type B
- Built in parallel and USB ports
- Win 95/98, NT4.0, DOS & MAC
- 1 Year RTB warranty
- iMAC compatible as standard

COVERPLUS
£59.00
3yr onsite



PR-E35 PHOTO 750
£177.00
£207.98

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



COVERPLUS
£59.00
3yr onsite



LAEP001 EPL-5700
£304.00
£357.20

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 | £169.00 | £198.58 |
| 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 |
| PR115 | STYLUS COLOR 1520 A2 | £451.00 | £529.93 |
| PR131 | STYLUS 1000 MONO | £292.00 | £343.10 |
| PR123 | EPL-N1200 | £477.00 | £560.48 |
| PR124 | EPL-N1200EN ETHERNET | £636.00 | £747.30 |
| PR125 | EPL-N1200PS POSTSCRIPT | £795.00 | £934.13 |
| 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 |

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Expanding Possibilities

HP DESKJet 695C

Vibrant life-like images & crisp black text.

The versatile HP DeskJet 695C brings professional communications capabilities to the home or the office. Produce reports, brochures, proposals, financial charts and graphs, banners, labels and more.



PR-HP12 DESKJET 695C
£96.00 £77.55

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

PR-HP3 DESKJET 710C
£134.00

HP DESKJet 880C



The dynamic partner that handles every job from business documents to photo printing.

- Up to 8ppm MONO, 5ppm COLOUR
- Up to 600dpi
- PhotoREt II for photo quality colour
- Parallel and USB interfaces
- Easy to set up and hassles free operation

HP9430866 DESKJET 880C
£186.00 £218.55

HP DESKJet 895Cxi



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.

HP9430866 DESKJET 895CXI
£186.00 £218.55

HP 2000C



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; PhotoREt 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
HP943E960 LASERJET 1100
£232.00 £272.60

Print/copy/scan with the Laserjet 1100A

HP943E959 LASERJET 1100A
£329.00 £388.58

HP LASERJet 2100

Great looking documents, enhanced productivity & room to grow

Take high-resolution laser print quality, versatile paper handling and 8 ppm print speed driven by a fast processor. Add expandability, attractive pricing and what you get is the HP LaserJet 2100 printer, delivering outstanding value from the market leader in laser printing for the office.

- 6 pages per minute
- 18 sec for first page
- 600 x 600dpi
- MicroFine toner
- Sharp text, crisp graphics



| LASERJET 2100 | | | |
|---------------|----------------------------|---------|---------|
| PR-HP60 | HP LaserJet 2100 printer | £423.00 | £497.03 |
| PR-HP65 | HP LaserJet 2100M printer | £480.00 | £564.00 |
| PR-HP70 | HP LaserJet 2100TN printer | £600.00 | £705.00 |

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.



PR411 LASERJET 4000
£741.00 £870.68

| 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 | 340cib (infrared) COLOUR PORTABLE | £159.00 | £186.83 |
| PR-HP3 DJ | 710C | £134.00 | £157.45 |
| PR58 DJ | 720C | £141.00 | £165.68 |
| PR-HP6 DJ | 895CXI | £186.00 | £218.55 |
| PR-HP01 DJ | 1120C | £285.00 | £334.88 |
| PR-HP20 | LaserJet 1100 | £232.00 | £272.60 |
| PR-HP25 | LaserJet 1100A (with scanner) | £285.00 | £334.88 |
| PR-HP60 | HP LaserJet 2100 printer | £423.00 | £497.03 |
| PR-HP65 | HP LaserJet 2100M printer | £480.00 | £564.00 |
| PR-HP70 | HP LaserJet 2100TN printer | £600.00 | £705.00 |
| PR-HP4 | LaserJet 2000C | £450.00 | £528.75 |
| PR-HP5 | LaserJet 2000CN | £675.00 | £793.13 |
| PR411 | LaserJet 4000 | £741.00 | £870.88 |
| PR443 | OJ 635 | £296.00 | £347.80 |
| LAHP001 | LJ 3100 PRINTER-FAX-COPIER-SCANNER | £471.00 | £553.43 |
| CT110 | BLACK CARTRIDGE FOR DJ 310/320/340 | £13.99 | £16.44 |
| CT105 | CLR CARTRIDGE FOR DJ 1820/870/890/1100 | £16.99 | £19.94 |
| CT102 | BULK FOR DJ 820/720/870/1600/1150 | £15.99 | £18.99 |
| 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 | £36.47 |
| CT119 | TONER CARTRIDGE FOR LJ 4000 | £48.99 | £57.55 |
| COHP001 | TONER CARTRIDGE FOR LJ 5000 | £79.99 | £93.99 |

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Canon

Brighten Up your Homework and all your Work At Home

THE RANGE OF CANON PRINTERS

| | | | |
|------------|----------|---------|---------|
| PR72 | BJC 250 | £71.00 | £83.43 |
| PR73 | BJC 4300 | £89.00 | £104.58 |
| PR86 | BJC 4650 | £194.00 | £227.95 |
| PR61 | BJC 80 | £139.00 | £163.33 |
| PR69 | BJC 7000 | £145.00 | £170.38 |
| PR98 | BJC 5500 | £405.00 | £475.88 |
| CAN2422288 | BJC 50 | £189.00 | £222.08 |
| CAN2422632 | BJC 5000 | £168.99 | £198.56 |

Canon BJC 250



FREE*
DELIVERY
ON THIS PRINTER

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
- Up to 3.4ppm
- 1 Year return to base warranty

PR-72
£71.00
£83.43

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

HL-820 **brother**

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 16ppm Laser 1200x600dpi | £579.00 | £680.33 |
| PR284 | HL1660N 8mb 16ppm Laser 1200x600dpi | £779.00 | £915.33 |
| PR285 | HL1660N 16mb 16ppm Laser 1200x600dpi | £795.00 | £934.13 |
| PR276 | MC3000 All in One print/scan - cal inkjet | £159.00 | £186.83 |
| LABR001 | HL-820 LASER | £159.00 | £186.83 |
| LABR002 | HL1040 LASER | £179.00 | £210.33 |
| LABR003 | HL1050 4MB LASER | £209.00 | £245.58 |
| BROS30512 | HL1050 8MB LASER | £224.00 | £263.20 |
| LABR004 | HL1070 4MB LASER | £275.00 | £323.13 |
| BROS30513 | HL1070 8MB LASER | £290.00 | £340.75 |

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
£179.00
£210.33

† 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
£275.00
£323.13

† 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 PAGEPRO 8
£245.00
£287.88

FREE*
DELIVERY
ON THIS PRINTER

MINOLTA - FREE DELIVERY ON ALL PRINTERS

| | | | |
|------------|---------------|----------|----------|
| PR-M1 | PAGEPRO 6L | £169.00 | £198.58 |
| PR-M2 | PAGEPRO 6 | £215.00 | £252.63 |
| PR-M4 | PAGEPRO 12 | £359.00 | £656.83 |
| PR-M5 | PAGEPRO 20 | £705.00 | £833.08 |
| PR-M6 | COLOR PAGEPRO | £1549.00 | £1820.08 |
| MLTB810143 | PAGEPRO 6L | £205.00 | £240.88 |
| MLTB810144 | PAGEPRO 8 | £245.00 | £287.88 |
| MLTB810145 | PAGEPRO 8e | £319.00 | £374.83 |

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-600 | £229.00 | £269.08 |
| LAKY001 | Kyocera FS-800 | £339.00 | £398.33 |
| PR-K50 | Kyocera FS-1700+ | £494.00 | £580.45 |
| PR-K25 | Kyocera FS-3700+ | £679.00 | £797.83 |
| PR-K36 | Kyocera FS-7000 | £1699.00 | £1996.33 |
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| INLX006 | Colour Jetprinter 3200 | £112.00 | £131.60 |
| PR-L14 | Colour Jetprinter 5000 | £135.00 | £158.63 |
| PR-L16 | Colour Jetprinter 5700 | £149.00 | £175.08 |
| PR-L13 | Colour Jetprinter 7200 | £195.00 | £229.13 |
| PR-L5 | Optra E+ | £229.00 | £269.08 |
| 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 |
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- 600 x 900 dpi
- Single pass colour CCD

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- Single pass colour CCD
- FREE bundled software PhotoDeluxe, Presto!, PageManager VistaScan, & OmniPage Direct



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- Max Res. 9600 x 9600
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SC122U ASTRA 1220S
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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.



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| SC5100 | SCANJET 5100C | £149.00 | £175.08 |
| HP6200C | SCANJET 6200C | £237.00 | £278.48 |
| HP943C980 | SCANJET 6250C | £275.00 | £323.13 |
| SC157 | PHOTOSMART SCANNER | £323.00 | £379.53 |
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- Single pass colour CCD
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| VSN9400115 | PAPERPORT 6100B 1200DPI 36BIT | £129.00 | £151.58 |
| SCV1003 | PAPERPORT ONE TOUCH | £149.00 | £175.08 |
| VSN9400121 | PAPERPORT ONE TOUCH 5300 | £99.99 | £117.49 |
| SC-V35 | PAPERPORT 3000 | £67.00 | £78.73 |
| VSN9400096 | PAPERPORT 3100 300DPI 30BIT | £67.00 | £78.73 |
| VSN9400118 | PAPERPORT 3100B | £67.00 | £78.73 |
| SC-V25 | PAPERPORT STROBE | £139.00 | £163.33 |
| SC-V40 | PRO OCR 100 SOFTWARE | £59.00 | £69.33 |
| SC-V15 | PAPERPORT DELUX SOFTWARE | £59.00 | £69.33 |
| SCV1002 | VISUAL EXPLORER SOFTWARE | £59.00 | £69.33 |
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| SC230 | VUEGOSCAN 310U 4800DPI FLATBED | £59.00 | £69.33 |
| SC210 | VUEGOSCAN 310S 4800DPI FLATBED | £65.00 | £76.38 |
| ACE620P | VUEGOSCAN 620P 9600DPI FLATBED | £69.00 | £81.08 |
| SC225 | VUEGOSCAN 610S 9600DPI FLATBED | £99.00 | £116.33 |
| ACE610PT | VUEGOSCAN 610PT INC TRANS ADAPTOR | £129.00 | £151.58 |
| ACE620ST | VUEGOSCAN 620ST INC TRANS ADAPTOR | £149.00 | £175.08 |
| AGFA | | | |
| AGF4080496 | SNAPSCAN1212P 600X1200PPI FLATBED | £97.99 | £115.14 |
| AGF4080489 | SNAPSCAN 1212U 600X1200PPI USB FBED | £115.99 | £136.29 |
| AGF4080493 | SNAPSCAN 1236S 600X1200PPI | £132.99 | £156.26 |
| AGF4080492 | SNAPSCAN 1236S ARTLINE 600X1200PPI FBED | £165.99 | £195.04 |
| AGF4080329 | SNAPSCAN 600 SCS1 | £175.00 | £205.63 |
| SC-A40 | SNAPSCAN 600 ARTLINE SCS1 | £214.99 | £252.61 |
| SC-A34 | SNAPSCAN 600 TRANSPARENCY ADAPTOR | £107.99 | £126.89 |
| CANON | | | |
| SC-C10 | CANOSCAN 300 INC SCS1 CARD | £129.99 | £152.74 |
| SC-C20 | CANOSCAN 600 INC SCS1 CARD | £489.99 | £575.74 |
| CAN320 | CANOSCAN320P | £71.99 | £84.59 |
| CAN620 | CANOSCAN 620P | £95.99 | £112.79 |
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| SC-PS | OPTICPRO A3 30BIT FLATBED | £269.99 | £317.24 |
| SC-P10 | FBIII 30BIT A4 FLATBED | £49.99 | £58.74 |
| SC-P20 | OPTICPRO 9636P TURBO A4 COLOUR | £99.99 | £117.49 |
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£125.00 £146.88

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| EP7000 | GT-7000 | £147.00 | £172.73 |
| EP7000P | GT-7000 PHOTO | £197.00 | £231.48 |
| SC131 | GTX-9500 PARALLEL | £368.00 | £432.40 |
| SC132 | GTX-9500 SCS1 | £389.00 | £457.08 |
| SC133 | GTI-9500 SCS1 | £538.00 | £632.15 |
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| EP2353224 | GT-12000 GRAPHICS BUNDLE W. TPU A3 | £1,713.00 | £2,012.78 |
| EP2353223 | GT-12000 OCR BUNDLE WITH ADF A3 | £2,043.00 | £2,400.53 |
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| S-QK22 | QUICKEN 98 DELUXE ON CD | £38.98 | £45.80 |
| S-QK25 | QUICKBOOKS5 ACCOUNTING/PAYROLL | £248.99 | £292.56 |
| S-QK30 | QUICK BOOKS V5 ACCOUNTING | £166.99 | £196.21 |
| S-QK35 | QUICKBOOKS V5 ACCOUNTING U/P | £166.99 | £198.56 |
| S-QK36 | QUICKBOOKS V5 ACCOUNTING/ | £223.99 | £263.19 |
| S-QK40 | QUICKBOOKS V5 U/G | £114.99 | £135.11 |

BORLAND PRODUCT RANGE

| | | | |
|--------|------------------------------------|-----------|-----------|
| S-B100 | BORLAND DELPHI DESKTOP V2 | £199.00 | £233.83 |
| S-B115 | BORLAND DELPHI DEVELOP UPGRD | £159.00 | £186.83 |
| S-B120 | BORLAND DELPHI CLIENT/SERVER 2 | £999.00 | £1,173.83 |
| S-B125 | BORLAND INFRABUILDER CD | £54.00 | £63.45 |
| S-B130 | BORLAND INFRABUILDER PRO CD | £265.00 | £311.38 |
| S-B60 | BORLAND C++ V5 CD | £199.00 | £233.83 |
| S-B70 | BORLAND C++ V5 DEVELOPMENT | £295.00 | £346.63 |
| S-B75 | BORLAND C++ DVLPMNT UPGRD SUIT | £178.00 | £209.15 |
| S-B180 | BORLAND JBUILER PROFESSIONAL | £319.00 | £374.83 |
| S-B185 | BORLAND DELPHI V3 PRO WIN 95 | £319.00 | £374.83 |
| S-B190 | BORLAND JBUILER STANDARD FULL | £74.00 | £86.95 |
| S-B415 | BORLAND JBUILER2 PRO FULL VERSION | £329.00 | £445.33 |
| S-B420 | JBUILER 2 PROFESSIONAL UPGRADE | £229.00 | £269.08 |
| S-B425 | JBUILER CLIENT/SERVER SUITE FULL | £1,499.00 | £1,996.33 |
| S-B430 | JBUILER 2 CLIENT/SERVER SUITE U/G | £1,099.00 | £1,291.33 |
| S-B220 | BORLAND DELPHI V3 STANDARD | £69.00 | £81.01 |
| S-B400 | DELPHI V4 PRO FULL SYSTEM | £399.00 | £468.82 |
| S-B455 | DELPHI V4 STANDARD | £74.00 | £86.95 |
| S-B405 | DELPHI V4 UPGRADE | £229.00 | £269.08 |
| S-B435 | DELPHI 4 CLIENT SERVER/SUITE FULL | £1,499.00 | £1,996.33 |
| S-B230 | BORLAND DELPHI V3 PRO COMP U/G | £199.00 | £233.83 |
| S-B320 | BORLAND C++ PRO 3 | £325.00 | £381.88 |
| S-B440 | BORLAND C++ BUILDER 3 STANDARD | £74.00 | £86.95 |
| S-B320 | BORLAND C++ BUILDER 3 PRO | £349.00 | £410.08 |
| S-B445 | BORLAND C++ BUILDER 3 PRO U/G | £229.00 | £269.08 |
| S-B450 | BORLAND C++ BUILDER3 CLIENT/SERVER | £1,499.00 | £1,761.33 |

VISIO PRODUCT RANGE

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| S-V125 | VISIO 5 | £95.00 | £111.63 |
| S-V130 | VISIO 5 UPGRADE | £69.00 | £81.08 |
| S-V140 | VISIO 5 10 USER LICENSE | £899.00 | £1,056.00 |
| S-V145 | VISIO 5 TECHNICAL | £209.00 | £245.58 |
| S-V155 | VISIO 5 TECHNICAL UPGRADE | £95.00 | £111.63 |
| S-V150 | VISIO 5 PROFESSIONAL | £209.00 | £245.58 |
| S-V160 | VISIO 5 PROFESSIONAL UPGRADE | £95.00 | £111.63 |
| SHPS040292 | INTELLICAD 98 | £203.99 | £239.69 |
| SHPS040294 | INTELLICAD 98 MEDIA KIT | £16.99 | £19.96 |
| SHPS040295 | INTELLICAD 98 10 USER | £1,829.99 | £2,150.24 |
| S-V60 | VISIO SHAPES ADV NETWORK | £36.00 | £42.30 |
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| S-V75 | VISIO SHAPES BIOTECHNOLOGY | £36.00 | £42.30 |
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SYMANTEC PRODUCT RANGE

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| S-SY135 | PC ANYWHERE V8 | £90.99 | £106.91 |
| S-SY505 | ACT VERSION 4 | £128.99 | £151.56 |
| S-SY506 | ACT VERSION 4.5 USER LICENSE | £558.99 | £656.80 |
| S-SY200 | ANTIVIRUS DELUXE 4.0 | £38.99 | £45.81 |
| NU1252992 | ANTIVIRUS DELUXE 4.0 5 USER | £172.99 | £203.26 |
| NU1252993 | ANTIVIRUS DELUXE 4.0 10 USER | £322.99 | £379.51 |
| S-SY205 | NORTON SECURITY SOLUTION | £72.99 | £86.94 |
| NU1255101 | NORTON ANTI-VIRUS V5 | £23.99 | £28.19 |
| S-SY220 | NORTON UNINSTALL DELUXE | £25.00 | £29.38 |
| NU1253191 | NORTON UNINSTALL DELUXE 5 USER | £109.99 | £129.24 |
| NU1253192 | NORTON UNINSTALL DELUXE 10 USER | £204.99 | £240.86 |
| S-SY330 | XREENET V3.0 DOS 3.5 DISK | £239.00 | £280.83 |
| S-SY5 | NORTON NAVIGATOR 95 | £74.00 | £86.95 |
| S-SY55 | HEALTHY PC95 | £19.00 | £22.33 |
| S-SY60 | NORTON UTILITIES V2.0 WIN95 | £49.00 | £57.58 |
| S-SY61 | NORTON UTILITIES V2.0 WIN NT 4 | £69.00 | £81.08 |
| S-SY62 | NORTON UTILITIES VERSION 3 | £59.00 | £69.33 |
| NU1254606 | NORTON MOBILE ESSENTIALS | £43.99 | £51.69 |
| NU1255379 | WINFAX PRO V9 | £61.99 | £74.49 |

ADOBE PRODUCT RANGE

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| AF2263510 | ADOBE PHOTOSHOP V5 U/G | £154.99 | £182.11 |
| S-AD15 | ADOBE PHOTOSHOP 4 U/G | £119.00 | £139.83 |
| S-AD30 | ADOBE PREMIER V4.2 | £287.00 | £337.23 |
| S-A040 | ADOBE TYPE MANAGER V4 DELUXE | £39.00 | £45.83 |
| S-AD45 | ADOBE ACROBAT V3.0 | £125.00 | £146.88 |
| S-AD50 | ADOBE ACROBAT CAPTURE | £379.00 | £445.33 |
| S-AD55 | ADOBE PAGEMILL V2.0 | £59.00 | £69.33 |
| S-AD60 | ADOBE FRAMEMAKER V5.5 | £415.00 | £487.63 |
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| AF2263753 | ADOBE 5 | £207.99 | £244.38 |
| S-AD85 | ADOBE PUBLISHING COLLECTION | £689.00 | £809.58 |
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| S-AD5 | ADOBE PAGEMAKER V6.5 | £359.00 | £421.83 |
| AF2262227 | ADOBE PAGEMAKER V6.5 5 PACK | £1,284.99 | £1,509.86 |

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|-----------|------------------------------------|---------|---------|
| S-PO10 | DRIVE COPY 2 | £19.00 | £22.33 |
| SOP0001 | DRIVE IMAGE 2 | £42.99 | £50.51 |
| S-PO105 | DRIVE IMAGE 2 PROFESSIONAL | £369.99 | £434.74 |
| S-PO5 | PARTITION MAGIC V3 | £39.00 | £45.83 |
| CHY990009 | PARTITION MAGIC V3 5 USER LICENSE | £111.99 | £131.59 |
| CHY990010 | PARTITION MAGIC V3 10 USER LICENSE | £223.99 | £263.19 |
| CHY990009 | PARTITION MAGIC V4 | £42.99 | £50.51 |
| CHY990039 | PARTITION MAGIC PRO | £272.99 | £320.70 |
| CHY990088 | SERVER MAGIC | £251.99 | £296.09 |

EXECUTIVE SOFTWARE PRODUCT RANGE

| | | | |
|-----------|--------------------------------|---------|---------|
| ESB350192 | DISKEEPER V4 NT WORKSTATION CD | £31.99 | £37.58 |
| ESB350193 | DISKEEPER V4 NT W/K 5 PACK | £148.99 | £175.06 |
| ESB350198 | DISKEEPER V4 NT SERVER CD | £159.99 | £187.98 |
| ESB350199 | DISKEEPER V4 NT SERVER 5 PACK | £629.99 | £740.23 |

MICROSOFT BUSINESS

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| S-MS130 | MS OFFICE 97 ON CD | £317.00 | £372.47 |
| S-MS135 | MS OFFICE PRO 97 ON CD | £415.00 | £487.62 |
| S-MS150 | MS OFFICE PRO 97 COMP/CCP | £204.00 | £239.70 |
| S-MS155 | MS OFFICE 97 COMP/CCP UPGRADE | £148.00 | £173.90 |
| S-MS445 | OFFICE 97 1 USER LICENSE | £305.00 | £358.38 |
| S-MS425 | MS OFFICE 97 DEVELOPERS EDITION | £514.00 | £603.95 |
| S-MS435 | OFFICE 97 DEVELOP UPDATE ON CD | £195.00 | £229.13 |
| S-MS450 | OFFICE 97 PRO 1 USER LICENSE | £395.00 | £464.13 |
| S-MS905 | MS OFFICE 97 PRO CD student | £87.00 | £102.23 |
| S-MS904 | MS OFFICE SBE UPGRADE ON CD | £148.00 | £173.90 |
| S-MS367 | MS OFFICE 97 SBE V2 | £314.00 | £368.95 |
| S-MS955 | MS PROJECT 98 CD | £295.00 | £346.63 |
| S-MS906 | MS FRONTPAGE 98 UPGRADE CD | £59.00 | £69.33 |
| S-MS290 | MS FRONTPAGE 98 | £89.00 | £104.58 |
| S-MS185 | OUTLOOK 97 ON CD WIN 95 | £87.00 | £102.23 |
| MS803G808 | MS MONEY 99 | £17.99 | £21.14 |
| MS803G833 | MS MONEY 99 FINANCIAL SUITE | £28.99 | £34.06 |
| MS803G836 | MS WORKS 99 DELUXE | £40.99 | £48.16 |
| MS803G838 | MS WORKS 99 SUITE UPGRADE | £69.99 | £82.24 |
| MS803G807 | MS WORKS | £36.99 | £43.46 |

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|---------|---------------------------------|---------|---------|
| S-MS230 | MS ACCESS 97 U/G ON CD | £88.00 | £103.40 |
| S-MS235 | MS ACCESS 97 DEVELOPERS TOOLKIT | £249.00 | £292.58 |
| S-MS122 | MICROSOFT PUBLISHER 98 CD | £69.00 | £81.08 |
| SOMS009 | MICROSOFT PUBLISHER 98 UPG | £32.00 | £37.60 |

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|-----------|---------------------------------|---------|---------|
| J61 | MS SIDEWINDER FORCE FEEDBACK | £77.00 | £90.48 |
| J64 | MS SIDEWINDER PRECISION PRO USB | £33.99 | £39.93 |
| MS803G651 | MS FREESTYLE PRO | £35.99 | £42.28 |
| MS803G650 | MS FORCE FEEDBACK WHEEL | £103.99 | £122.18 |
| M161 | MICROSOFT INTELLIMOUSE | £30.00 | £35.25 |
| M170 | MS HOME MOUSE | £14.00 | £16.45 |
| S-MS111 | MS MAGIC SB EXPLORER INSIDE EA | £18.00 | £21.15 |
| MS803F567 | MS WHEEL MOUSE | £14.99 | £17.61 |
| MS803G637 | MS BASIC MOUSE | £12.99 | £15.26 |
| MS803F728 | MS INTELLIMOUSE PRO | £34.99 | £41.11 |
| MS803G889 | MS NATURAL KEYBOARD ELITE | £25.99 | £30.53 |
| MS803G225 | MS INTELLIMOUSE USB | £25.99 | £30.53 |
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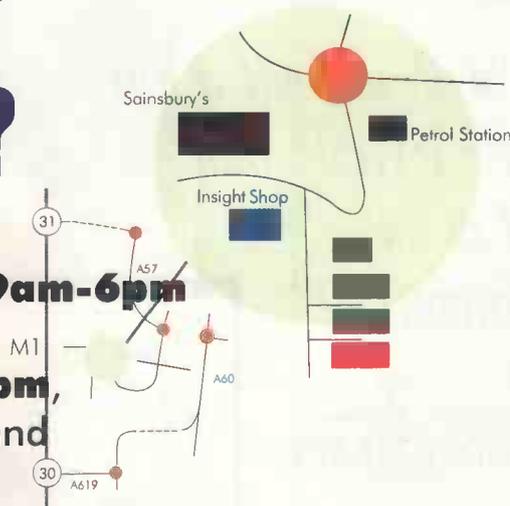
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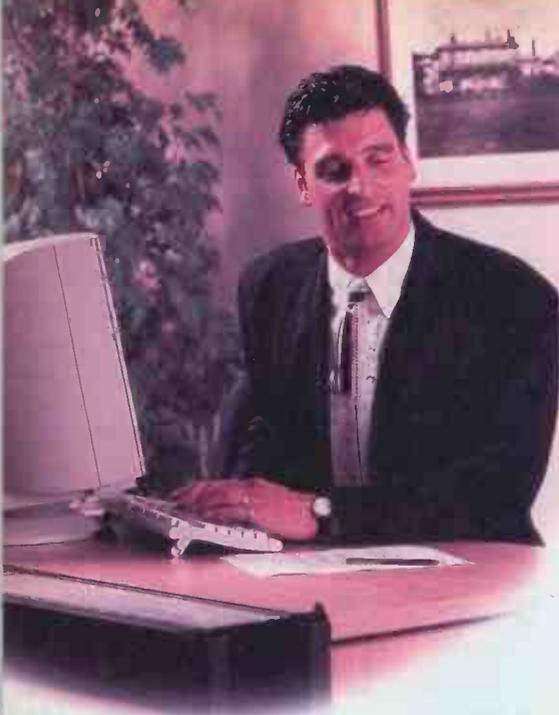
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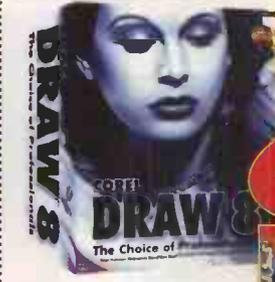
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| CP10041 | ASCENTIA S6260T | 266MHz PII | 32MB | 12.1" TFT | 4GB | DVD | 98 | £1,585.00 | £1,862.38 |
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| CP9633 | ASCENTIA S6300T | 300MHz PII | 32MB | 12.1" TFT | 4GB | | 98 | £1,879.00 | £1,972.83 |
| CP10042 | ASCENTIA S6300T | 300MHz PII | 32MB | 12.1" TFT | 4GB | 24X | 98 | £1,745.00 | £2,050.38 |
| CP10044 | ASCENTIA S6300T | 300MHz PII | 32MB | 12.1" TFT | 4GB | DVD | 98 | £1,879.00 | £2,207.83 |

| SKU | Model | Processor | RAM | Display | HDD | CD | OS | Price | Inc. VAT |
|---------------|-----------------|------------|------|-----------|-------|-----|----|-----------|-----------|
| COMPAQ | | | | | | | | | |
| CP8581 | ARMADA A17 | 233MHz PII | 32MB | 12.1" TFT | 4GB | 24X | 95 | £1,165.00 | £1,368.88 |
| CP8582 | ARMADA A17 | 233MHz PII | 32MB | 12.1" TFT | 4GB | 24X | 98 | £1,165.00 | £1,368.88 |
| CP7628 | ARMADA 7800 | 266MHz PII | 64MB | 13.3" TFT | 5GB | 20X | 95 | £2,069.00 | £2,431.08 |
| CP8583 | ARMADA A17 | 266MHz PII | 32MB | 13.3" TFT | 4GB | 24X | 95 | £1,529.00 | £1,796.58 |
| CP8584 | ARMADA A78 | 266MHz PII | 64MB | 14.1" TFT | 8GB | 24X | 95 | £2,429.00 | £2,854.08 |
| CP9350 | ARMADA A35 | 266MHz PII | 32MB | 12.1" TFT | 4.1GB | | 95 | £1,659.00 | £1,949.33 |
| CP9348 | ARMADA A17 | 300MHz PII | 32MB | 14.1" TFT | 5GB | 24X | 95 | £1,889.00 | £2,219.58 |
| CP9355 | ARMADA A35 | 300MHz PII | 32MB | 13.3" TFT | 6.4GB | | 95 | £2,159.00 | £2,536.83 |
| CP9358 | ARMADA A65 | 300MHz PII | 64MB | 14.1" TFT | 6.4GB | 24X | 95 | £2,745.00 | £3,225.38 |
| CP9360 | ARMADA A78 | 300MHz PII | 64MB | 14.1" TFT | 8GB | 24X | 95 | £2,699.00 | £3,171.33 |
| CP9362 | ARMADA S6 5233T | 233MHz MMX | 32MB | 12.1" STN | 4GB | 20X | 95 | £1,159.00 | £1,361.83 |

| SKU | Model | Processor | RAM | Display | HDD | CD | OS | Price | Inc. VAT |
|------------------------|---------------|------------|------|-----------|-------|-----|-------|-----------|-----------|
| HEWLETT PACKARD | | | | | | | | | |
| CP9221 | OMNIBOOK 4100 | 266MHz PII | 32MB | 14.1" TFT | 6.4GB | 24X | 95 | £2,155.00 | £2,532.13 |
| CP7872 | OMNIBOOK 7100 | 266MHz PII | 32MB | 14.1" TFT | 6.4GB | 24X | 95 | £2,265.00 | £2,661.38 |
| CP7874 | OMNIBOOK 7100 | 266MHz PII | 32MB | 14.1" TFT | 8.1GB | 24X | 95 | £2,465.00 | £2,896.38 |
| CP7978 | OMNIBOOK 7100 | 266MHz PII | 32MB | 14.1" TFT | 6.4GB | 24X | NT4 | £2,325.00 | £2,731.88 |
| CP9620 | OMNIBOOK 2100 | 300MHz PII | 32MB | 12.1" TFT | 4GB | 24X | 95 | £1,589.00 | £1,867.08 |
| CP9694 | OMNIBOOK 7150 | 300MHz PII | 64MB | 14.1" TFT | 8.1GB | | 95/98 | £2,719.00 | £3,194.83 |
| CP9731 | OMNIBOOK 7150 | 300MHz PII | 64MB | 14.1" TFT | 8.1GB | | 95/98 | £2,769.00 | £3,253.58 |

| SKU | Model | Processor | RAM | Display | HDD | CD | OS | Price | Inc. VAT |
|------------|-------------------------|------------|-------|-----------|-------|-----|-----|-----------|-----------|
| IBM | | | | | | | | | |
| CP7499 | THINKPAD 600 MODEL 410 | 233MHz PII | 32MB | 13.3" TFT | 3.2GB | 24X | 95 | £1,729.00 | £2,031.58 |
| CP9612 | THINKPAD 560Z | 233MHz PII | 32MB | 12.1" TFT | 4GB | | 98 | £1,465.00 | £1,721.38 |
| CP9617 | THINKPAD 380Z | 233MHz PII | 32MB | 13.3" TFT | 4GB | 24X | 98 | £1,325.00 | £1,556.88 |
| CP9613 | THINKPAD 560Z | 233MHz PII | 32MB | 12.1" TFT | 4GB | NT4 | | £1,529.00 | £1,796.58 |
| CP7495 | THINKPAD 380X MODEL 940 | 266MHz PII | 32MB | 12.1" TFT | 5.1GB | 24X | 95 | £1,399.00 | £1,643.83 |
| CP7500 | THINKPAD 600 MODEL 510 | 266MHz PII | 32MB | 13.3" TFT | 4GB | 24X | 95 | £1,985.00 | £2,332.38 |
| CP7502 | THINKPAD 770E MODEL 510 | 266MHz PII | 32MB | 14.1" TFT | 5.1GB | 95 | | £2,109.00 | £2,478.08 |
| CP7504 | THINKPAD 770E MODEL 540 | 266MHz PII | 64MB | 14.1" TFT | 8.1GB | DVD | 95 | £2,635.00 | £3,096.13 |
| CP9609 | THINKPAD 600E | 300MHz PII | 64MB | 13.3" TFT | 6.4GB | DVD | 98 | £2,495.00 | £2,931.63 |
| CP9610 | THINKPAD 600 | 300MHz PII | 64MB | 13.3" TFT | 5.1GB | 24X | 98 | £2,325.00 | £2,731.88 |
| CP9611 | THINKPAD 560Z | 300MHz PII | 64MB | 12.1" TFT | 6.4GB | 98 | | £1,985.00 | £2,332.38 |
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| CP7048 | THINKPAD 380D MODEL 940 | 233MHz MMX | 32MB | 12.1" TFT | 4GB | 24X | 95 | £1,109.00 | £1,303.08 |
| CP7497 | THINKPAD 600 MODEL 210 | 233MHz MMX | 32MB | 13" HPA | 3.2GB | 24X | 95 | £1,385.00 | £1,627.38 |
| CP6469 | THINKPAD 560X MODEL 700 | 233MHz MMX | 32MB | 12.1" TFT | 4GB | | 95 | £1,359.00 | £1,596.83 |
| CP9894 | THINKPAD 390 | 233MHz MMX | 32MB | 12.1" TFT | 3.2GB | 24X | 98 | £899.00 | £1,056.33 |

| SKU | Model | Processor | RAM | Display | HDD | CD | OS | Price | Inc. VAT |
|-------------|----------------|------------|------|-----------|-------|-----|----|-----------|-----------|
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| CP9893 | VAIO MODEL 505 | 266MHz MMX | 32MB | 10.4" TFT | 4.3GB | 24X | 98 | £1,809.00 | £2,125.58 |
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| CP9859 | VAIO MODEL 747 | 266MHz MMX | 32MB | 12.1" TFT | 4.3GB | 24X | 98 | £1,339.00 | £1,573.33 |

| SKU | Model | Processor | RAM | Display | HDD | CD | OS | Price | Inc. VAT |
|----------------|-------------------|------------|------|-----------|--------------|-----|-------|-----------|-----------|
| TOSHIBA | | | | | | | | | |
| CP9289 | SATELLITE 4000CDS | 233MHz PII | 32MB | 12.1" STN | 3.82GB | 24X | 95 | £999.00 | £1,173.83 |
| CP9872 | SATELLITE 4010CDS | 266MHz PII | 32MB | 12.1" STN | 3.82GB | 24X | 95/98 | £1,185.00 | £1,392.38 |
| CP9873 | SATELLITE 4010CCT | 266MHz PII | 32MB | 12.1" TFT | 3.82GB | 24X | 95/98 | £1,355.00 | £1,592.13 |
| CP9292 | TECRA 8000-0 | 233MHz PII | 32MB | 12.1" STN | 3.82GB | 24X | 95 | £1,355.00 | £1,592.13 |
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| CP9296 | TECRA 8000-1C | 300MHz PII | 64MB | 13.3" TFT | 6GB | 24X | 95 | £2,289.00 | £2,689.58 |
| CP9294 | TECRA 8000-1D | 300MHz PII | 64MB | 14.1" TFT | 7.6GB | DVD | 95 | £2,715.00 | £3,190.13 |
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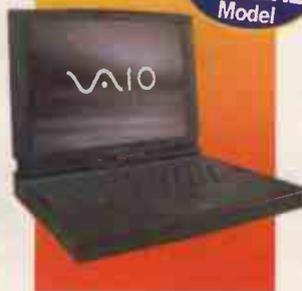
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| 16MB | 60ns | 4 x 32 | EURMY1555 | £27.95 | £32.84 |
| 32MB | 60ns | 8 x 32 | EURMY1643 | £53.95 | £63.39 |
| 64MB | 60ns | 16 x 32 | MY6995 | £82.95 | £97.47 |

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|------|-------|---------|-----------|----------|----------|
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| 8MB | 60ns | 2 x 32 | EURMY1250 | £12.95 | £15.22 |
| 16MB | 70ns | 4 x 32 | EURMY1252 | £32.95 | £38.72 |
| 16MB | 60ns | 4 x 32 | EURMY1253 | £30.95 | £36.37 |
| 32MB | 70ns | 8 x 32 | EURMY1254 | £58.95 | £69.27 |
| 32MB | 60ns | 8 x 32 | EURMY1293 | £72.95 | £85.72 |
| 64MB | 70ns | 16 x 32 | MY11306 | £109.95 | £129.19 |
| 64MB | 60ns | 16 x 32 | MY11305 | £109.95 | £129.19 |

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| RAM | Speed | Layout | Order No. | New Sell | Inc. VAT |
|-------|-------|---------|-----------|----------|----------|
| 32MB | 8ns | 4 x 64 | MY9369 | £38.95 | £45.77 |
| 64MB | 8ns | 8 x 64 | MY9370 | £79.95 | £93.94 |
| 128MB | 8ns | 16 x 64 | MY9371 | £145.00 | £170.38 |
| 256MB | 8ns | 32 x 64 | MY9301 | £479.00 | £562.83 |

168-pin 66MHz SDRAM DIMMs

| RAM | Speed | Layout | Order No. | New Sell | Inc. VAT |
|-------|-------|---------|-----------|----------|----------|
| 16MB | 10ns | 2 x 64 | MY6590 | £19.95 | £23.44 |
| 32MB | 10ns | 4 x 64 | MY6589 | £37.95 | £44.59 |
| 64MB | 10ns | 8 x 64 | MY7504 | £69.00 | £81.08 |
| 128MB | 10ns | 16 x 64 | MY8004 | £145.00 | £170.38 |

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| MY6590 | DeskPro 2000/4000 166, 200 | 16MB | 1 | £19.95 | £23.44 |
| MY6589 | DeskPro 2000/4000 166, 200 | 32MB | 1 | £37.95 | £44.59 |
| MY7504 | DeskPro 2000/4000 166, 200 | 64MB | 1 | £69.00 | £81.08 |
| MY6590 | DeskPro 2000/4000 233 (Pentium w/ MMX) | 16MB | 1 | £19.95 | £23.44 |
| MY6589 | DeskPro 2000/4000 233 (Pentium w/ MMX) | 32MB | 1 | £37.95 | £44.59 |
| MY7504 | DeskPro 2000/4000 233 (Pentium w/ MMX) | 64MB | 1 | £69.00 | £81.08 |
| MY9289 | DeskPro 6000 Pentium II w/MMX | 64MB | 1 | £94.95 | £111.57 |
| EURMY1555 | Deskpro EN/EP 6266, 6300, 6333 | 16MB | 2 | £27.95 | £32.84 |
| EURMY1643 | Deskpro EN/EP 6266, 6300, 6333 | 32MB | 2 | £53.95 | £63.39 |
| MY9369 | Deskpro EN/EP 6350, 6400 | 32MB | 1 | £38.95 | £45.77 |
| MY9370 | Deskpro EN/EP 6350, 6400 | 64MB | 1 | £79.95 | £93.94 |

IBM - NOTEBOOKS

| Order No. | Model | Size | Quantity | Price | Inc. VAT |
|-----------|--------------------------------------|------|----------|---------|----------|
| MY6361 | ThinkPad 365 X Models(X & XD) | 16MB | 1 | £26.95 | £31.67 |
| MY7606 | ThinkPad 365 X Models(X & XD) | 32MB | 1 | £40.95 | £46.12 |
| MY6361 | ThinkPad 380/D, 385 | 16MB | 1 | £26.95 | £31.67 |
| MY7606 | ThinkPad 380/D, 385 | 32MB | 1 | £40.95 | £46.12 |
| EURMY0868 | ThinkPad 365C/CS/CD/CSD; 365E/ED | 16MB | 1 | £29.95 | £35.19 |
| MY6361 | ThinkPad 560E, ThinkPad 760 E/EL/ELD | 16MB | 1 | £26.95 | £31.67 |
| MY7606 | ThinkPad 560E, ThinkPad 760 E/EL/ELD | 32MB | 1 | £40.95 | £46.12 |
| MY6361 | ThinkPad 760XD, 760XL, 765D, 765L | 16MB | 1 | £26.95 | £31.67 |
| MY7606 | ThinkPad 760XD, 760XL, 765D, 765L | 32MB | 1 | £40.95 | £46.12 |
| MY10749 | Thinkpad 770 | 32MB | 1 | £59.95 | £70.44 |
| MY8895 | Thinkpad 770 | 64MB | 1 | £118.95 | £139.77 |
| MY10749 | Thinkpad 600 | 32MB | 1 | £59.95 | £70.44 |
| MY8895 | Thinkpad 600 | 64MB | 1 | £118.95 | £139.77 |
| MY7606 | Thinkpad 380 | 32MB | 1 | £40.95 | £46.12 |
| MY7633 | Thinkpad 380 | 64MB | 1 | £79.95 | £93.94 |

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|-----------|--------------------------------|------|----------|---------|----------|
| EURMY1308 | Satellite 100/110/200/210 | 16MB | 1 | £65.95 | £77.49 |
| EURMY1462 | Satellite 100/110/200/210 | 32MB | 1 | £99.95 | £117.44 |
| MY6556 | Satellite 100/110/200/210 | 64MB | 1 | £138.95 | £163.27 |
| EURMY1308 | Satellite 400/410/420/430 | 16MB | 1 | £65.95 | £77.49 |
| EURMY1462 | Satellite 400/410/420/430 | 32MB | 1 | £99.95 | £117.44 |
| MY6556 | Satellite 400/410/420/430 | 64MB | 1 | £138.95 | £163.27 |
| MY9274 | Portege 650CT, 660CDT | 16MB | 1 | £54.95 | £64.57 |
| MY9275 | Portege 650CT, 660CDT | 32MB | 1 | £75.95 | £89.24 |
| MY6876 | Portege 650CT, 660CDT | 64MB | 1 | £235.95 | £277.24 |
| MY9274 | Satellite 445CDT/CDX | 16MB | 1 | £54.95 | £64.57 |
| MY9275 | Satellite 445CDT/CDX | 32MB | 1 | £75.95 | £89.24 |
| MY6875 | Satellite 445CDT/CDX | 48MB | 1 | £139.95 | £164.44 |
| MY6876 | Satellite 445CDT/CDX | 64MB | 1 | £235.95 | £277.24 |
| MY9274 | Satellite 460CDT/440CDT/CDX | 16MB | 1 | £54.95 | £64.57 |
| MY9275 | Satellite 460CDT/440CDT/CDX | 32MB | 1 | £75.95 | £89.24 |
| MY6875 | Satellite 460CDT/440CDT/CDX | 48MB | 1 | £139.95 | £164.44 |
| MY6876 | Satellite 460CDT/440CDT/CDX | 64MB | 1 | £235.95 | £277.24 |
| MY9274 | Tecra 520CDT, 530CDT, 750CDT | 16MB | 1 | £54.95 | £64.57 |
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| MY6876 | Tecra 520CDT, 530CDT, 750CDT | 64MB | 1 | £235.95 | £277.24 |
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| EURMY1462 | Tecra 710CDT/720CDT/730/740CDT | 32MB | 1 | £99.95 | £117.44 |
| MY6556 | Tecra 710CDT/720CDT/730/740CDT | 64MB | 1 | £138.95 | £163.27 |

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CPU 1221

- ✓ 32 - 128MB RAM
- ✓ 4GB - 8GB hard drive
- ✓ 24X CD-ROM
- ✓ Zip drive on some models
- ✓ 3 PCI Expansion slots
- ✓ 512k backside cache
- ✓ Built-in Ethernet networking (Fast Ethernet on some models)

| CPU Speed | SDRAM | Hard Drive | Zip | Item # | Price (Inc.VAT) |
|----------------|-------|------------|-----|---------|------------------|
| 266MHz G3 (DT) | 32MB | 4.0GB | N | CPU1221 | £999 (£1173.83) |
| 300MHz G3 (DT) | 64MB | 6.0GB | Y | CPU1222 | £1329 (£1561.58) |
| 300MHz G3 (MT) | 64MB | 8.0GB | Y | CPU1223 | £1589 (£1867.08) |
| 333MHz G3 (MT) | 128MB | 9.0GB | N | CPU1224 | £1999 (£2348.83) |

iMAC



£789
£927.08
CPU1201

iMac

- 233MHz PowerPC G3 processor
- 512K backside level 2 cache
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- 6MB SGRAM Video memory
- Built-in 10/100BASE-T Ethernet
- Built-in 56Kbps modem
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- 4Mbps infrared technology (IrDA) port
- Built-in stereo speakers with SRS sound
- Mac OS 8.5
- Apple USB Keyboard
- Apple USB Mouse

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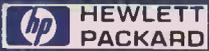
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- 32MB SDRAM

Prices exclude monitors
* See page 32 for Terms & Conditions

The Complete Desktop PC Guide

| Model name | Speed | RAM | HDD | CD-ROM | Case | O/S | SKU | Price | Inc. VAT | Model name | Speed | RAM | HDD | CD-ROM | Case | O/S | NIC | SKU | Price | Inc. VAT |
|---------------------------|---------------|-------|--------|--------|------|-----|--------|-----------|-----------|----------------|------------|------|-------|--------|-------|-----|-----|--------|-----------|-----------|
| COMPAQ | | | | | | | | | | IBM | | | | | | | | | | |
| Deskpro EN SFF M3200 | C 300MHz | 32MB | 3.2GB | 95 | | | CP9445 | £568.00 | £668.58 | PC 300GL | C 333MHz | 32MB | 3.2GB | 98 | | | | CP9244 | £515.00 | £605.13 |
| Deskpro EN M3200 | C 300MHz | 32MB | 3.2GB | 95 | | | CP9436 | £645.00 | £757.88 | PC 300GL | C 333MHz | 32MB | 3.2GB | 98 | | | | CP9280 | £459.00 | £539.33 |
| Deskpro EP M6400 | C 300MHz | 64MB | 6.4GB | 32X | 95 | | CP9422 | £645.00 | £757.88 | PC 300GL | C 333MHz | 64MB | 3.2GB | 32X | 98 | | | CP9247 | £559.00 | £656.63 |
| Deskpro EP M4300 | C 333MHz | 32MB | 4.3GB | 95 | | | CP9442 | £575.00 | £675.63 | PC 300GL | PII 350MHz | 32MB | 3.2GB | 98 | | | | CP9250 | £659.00 | £774.33 |
| Deskpro EN SFF M3200 | C 333MHz | 32MB | 3.2GB | 95 | | | CP9447 | £669.00 | £786.08 | PC 300GL | PII 350MHz | 64MB | 3.2GB | 98 | | | | CP9242 | £709.00 | £833.08 |
| Deskpro EN M3200 | C 333MHz | 32MB | 3.2GB | 95 | | | CP9439 | £675.00 | £793.13 | PC 300GL | PII 350MHz | 32MB | 3.2GB | 95 | | | | CP8499 | £659.00 | £774.33 |
| Deskpro EP M6400 | C 333MHz | 64MB | 6.4GB | 32X | 95 | | CP9426 | £679.00 | £797.83 | PC 300PL | PII 350MHz | 32MB | 4.2GB | 95 | | | | CP7369 | £795.00 | £934.13 |
| Deskpro EP M4300 | PII 350MHz | 64MB | 4.3GB | NT4 | | | CP9429 | £785.00 | £922.38 | PC 300PL | PII 350MHz | 32MB | 4.5GB | 98 | | | | CP9234 | £795.00 | £934.13 |
| Deskpro EN 6350 | PII 350MHz | 32MB | 6.4GB | 24X | 95 | | CP8107 | £835.00 | £981.13 | PC 300PL | PII 350MHz | 64MB | 4.5GB | 98 | | | | CP9235 | £839.00 | £985.83 |
| Deskpro EP M4300 | PII 350MHz | 64MB | 4.3GB | 95 | | | CP9428 | £745.00 | £875.38 | PC 300PL | PII 350MHz | 64MB | 6.4GB | 32X | NT4 | | | CP7370 | £959.00 | £1,126.63 |
| Deskpro EN SFF 6350 | PII 350MHz | 32MB | 6.4GB | 95 | | | CP8976 | £879.00 | £1,032.83 | PC 300PL | PII 350MHz | 64MB | 6.4GB | NT4 | | | | CP9236 | £899.00 | £1,056.33 |
| Deskpro EP M106 | PII 350MHz | 64MB | 10.0GB | 32X | 95 | | CP9430 | £879.00 | £1,032.83 | PC 300PL | PII 350MHz | 64MB | 6.4GB | NT4 | | | | CP7371 | £865.00 | £1,016.38 |
| Deskpro EN 6350 | PII 350MHz | 32MB | 6.4GB | 24X | NT4 | | CP8108 | £879.00 | £1,032.83 | PC 300PL | PII 350MHz | 64MB | 6.4GB | 32X | 98 | | | CP9241 | £929.00 | £1,091.58 |
| Deskpro EP M106 | PII 350MHz | 64MB | 10.0GB | 32X | NT4 | | CP9431 | £929.00 | £1,091.58 | PC 300GL | PII 400MHz | 32MB | 3.2GB | 98 | | | | CP9245 | £799.00 | £938.83 |
| Deskpro EN SFF 6350 | PII 350MHz | 32MB | 6.4GB | 24X | 95 | | CP8977 | £939.00 | £1,103.33 | PC 300PL | PII 400MHz | 32MB | 4.2GB | 95 | | | | CP7371 | £865.00 | £1,016.38 |
| Deskpro EP M106 | PII 350MHz | 64MB | 3.2GB | 24X | 95 | | CP8985 | £1,165.00 | £1,368.88 | PC 300GL | PII 400MHz | 32MB | 3.2GB | 32X | 98 | | | CP9249 | £1,035.00 | £1,216.13 |
| Deskpro EN 6350 M4300/CDS | PII 350MHz | 32MB | 4.3GB | 24X | NT4 | | CP8104 | £1,189.00 | £1,397.08 | PC 300GL | PII 400MHz | 64MB | 4.2GB | 98 | | | | CP9252 | £895.00 | £1,051.63 |
| Deskpro EP M106 | PII 400MHz | 64MB | 10.0GB | 32X | NT4 | | CP9433 | £1,075.00 | £1,263.13 | PC 300PL | PII 400MHz | 32MB | 4.5GB | 98 | | | | CP9237 | £865.00 | £1,016.38 |
| Deskpro EN 6400/CDS | PII 400MHz | 64MB | 6.4GB | 24X | 95 | | CP8085 | £1,079.00 | £1,267.83 | PC 300PL | PII 400MHz | 64MB | 6.4GB | 32X | 95 | | | CP7375 | £1,059.00 | £1,244.33 |
| Deskpro EN SFF 6400 | PII 400MHz | 32MB | 6.4GB | 24X | 95 | | CP8979 | £979.00 | £1,150.33 | PC 300GL | PII 450MHz | 64MB | 6.4GB | 98 | | | | CP9253 | £1,045.00 | £1,227.88 |
| Deskpro EP M106 | PII 400MHz | 64MB | 10.0GB | 32X | 95 | | CP9432 | £1,145.00 | £1,345.38 | PC 300PL | PII 450MHz | 64MB | 6.4GB | 98 | | | | CP9239 | £1,055.00 | £1,236.63 |
| Deskpro EN SFF 6400 | PII 400MHz | 64MB | 6.4GB | 24X | NT4 | | CP8980 | £1,055.00 | £1,239.63 | TOSHIBA | | | | | | | | | | |
| Deskpro EN 6400/CDS | PII 400MHz | 64MB | 6.4GB | 24X | NT4 | | CP8084 | £1,125.00 | £1,321.38 | Equium 3000 | C 300MHz | 32MB | 3.2GB | 32X | 95/98 | | | CP9800 | £529.00 | £621.58 |
| Deskpro EN 6400 M4300/CDS | PII 400MHz | 64MB | 4.3GB | 24X | NT4 | | CP8105 | £1,309.00 | £1,538.08 | Equium 3000 | C 333MHz | 32MB | 3.2GB | 32X | 95/98 | | | CP9798 | £565.00 | £663.88 |
| Deskpro EN M6400 | PII 450MHz | 64MB | 6.4GB | 32X | 95 | | CP9442 | £1,249.00 | £1,467.58 | Equium 7100S | PII 350MHz | 64MB | 4.3GB | 32X | 95 | | | CP8677 | £709.00 | £833.08 |
| Deskpro EP M106 | PII 450MHz | 128MB | 10.0GB | 32X | 95 | | CP9434 | £1,259.00 | £1,479.33 | Equium 7100D | PII 350MHz | 64MB | 4.3GB | 32X | 95 | | | CP8685 | £749.00 | £880.08 |
| Deskpro EN M6400 | PII 450MHz | 64MB | 6.4GB | 32X | NT4 | | CP9443 | £1,295.00 | £1,521.63 | Equium 7100S | PII 350MHz | 64MB | 4.3GB | 32X | NT4 | | | CP8678 | £759.00 | £891.83 |
| Deskpro EN SFF M6400 | PII 450MHz | 64MB | 6.4GB | 24X | 95 | | CP9450 | £1,299.00 | £1,526.33 | Equium 7100D | PII 350MHz | 64MB | 4.3GB | 32X | 95 | | | CP8686 | £799.00 | £938.83 |
| Deskpro EP M106 | PII 450MHz | 128MB | 10.0GB | 32X | NT4 | | CP9435 | £1,305.00 | £1,533.38 | Equium 7100S | PII 400MHz | 64MB | 4.3GB | 32X | 95 | | | CP8679 | £825.00 | £969.38 |
| Deskpro EN SFF M6400 | PII 450MHz | 64MB | 6.4GB | 24X | NT4 | | CP9452 | £1,345.00 | £1,580.38 | Equium 7100D | PII 400MHz | 64MB | 4.3GB | 32X | 95 | | | CP8688 | £869.00 | £1,021.08 |
| Deskpro EN M9100 | PII 450MHz | 64MB | 9.1GB | 32X | NT4 | | CP9444 | £1,649.00 | £1,937.58 | Equium 7100S | PII 400MHz | 64MB | 4.3GB | 32X | NT4 | | | CP8680 | £879.00 | £1,032.83 |
| HEWLETT PACKARD | | | | | | | | | | | | | | | | | | | | |
| Brio Value | C 333MHz/15 | 32MB | 4.3GB | 32X | 98 | | NEW | £599.00 | £703.83 | Equium 7100D | PII 400MHz | 64MB | 4.3GB | 32X | 95 | | | CP8687 | £919.00 | £1,079.83 |
| Brio Corporate | PII 350MHz/17 | 64MB | 8GB | 32X | 98 | | NEW | £849.00 | £997.58 | | | | | | | | | | | |
| Brio Performance | PII 400MHz/17 | 64MB | 8GB | 32X | 98 | | NEW | £949.00 | £1,115.08 | | | | | | | | | | | |
| Brio Power | PII 450MHz/17 | 64MB | 8GB | 32X | 98 | | NEW | £1,059.00 | £1,244.33 | | | | | | | | | | | |



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- Up to 16ppm black, 4ppm colour
- 600 x 600 dpi, image Ret 2400
- 110 scalable TrueType fonts
- MET for colour PCL and HP Postscript

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| PR14280 | HP LaserJet 4500 | £1597 | (£1876.48) |
| PR14168 | HP LaserJet 4500N | £1875 | (£2203.13) |
| PR14162 | HP LaserJet 4500DN | £2422 | (£2845.85) |

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Print, Copy, Scan and Communicate® All-in-One - all in colour



Print:

- 600 x 600 dpi resolution
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- 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

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| PR13444 | HP LaserJet 8000 | £1574 | (£1849.45) |
| PR13445 | HP LaserJet 8000N | £1762 | (£2070.35) |
| PR13447 | HP LaserJet 8000DN | £2062 | (£2422.85) |

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HP COLOUR LASERJET 8500

Great Colour Out of the Box!

Only **£3862** (£4537.85)



- Up to 24ppm black A4, 12ppm A3
- Up to 6ppm colour A4, 3ppm A3
- 600 x 600 dpi, Image Ret 2400

Extra options shown not included

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| PR14276 | HP LaserJet 8500 | £3862 | (£4537.85) |
| PR14275 | HP LaserJet 8500N | £4425 | (£5199.38) |
| PR14273 | HP LaserJet 8500DN | £5242 | (£6159.35) |

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*On selected Printers

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 HP LaserJet efficiency at your desk



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HP OfficeJet 700



NEW

OFFICEJET 700 **£323** (£379.53) Item # PR14502

- 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)

• Up to 64 page fax memory, 50 speed dials

• Print at 5ppm black, 2ppm colour

• Scan to email

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|-----------|--|------|-----------|
| PR14158 | HP LaserJet 1100 Printer | £232 | (£272.60) |
| PR14157 | HP LaserJet 1100A Printer . Copier . Scanner | £285 | (£334.88) |
| 553093 | HP Support Pack | £105 | (£123.38) |
| PR14502 | HP OfficeJet 700 | £323 | (£379.53) |
| EURWR1112 | HP Support Pack | £115 | (£135.13) |

HP LASERJET 2100

• 10ppm, first page out in 17 seconds

• True 1200 x 1200 dpi

• 600 dpi mode enhanced with RET

• HP PCL6 (45 scaleable typefaces built-in)

NEW



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|---------|--------------------|------|-----------|
| PR14648 | HP LaserJet 2100 | £423 | (£497.03) |
| PR14649 | HP LaserJet 2100M | £480 | (£564) |
| PR14650 | HP LaserJet 2100TN | £600 | (£705) |

From Only **£423** (£497.03)
 Item # PR14648

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 |
| EURWR1112 | SupportPack | £118.00 | £138.65 |

Only **£471** (£553.43)
 Item # PR13320

HP LASERJET 5000

• 16ppm print speed

• 100MHz RISC processor

• True 600x1200dpi FastRes (600x2400)

• 110 scalable TrueType Postscript Level II compatible Typefaces



| | | | |
|---------|--------------------|-------|------------|
| PR13442 | HP LaserJet 5000 | £929 | (£1091.58) |
| PR13443 | HP LaserJet 5000N | £1334 | (£1567.45) |
| PR13446 | HP LaserJet 5000GN | £1649 | (£1937.58) |
| 207471 | HP Support Pack | £235 | (£276.13) |

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 Item # PR13442

HP LASERJET 4000

HP's most advanced printer for business

• 16 page-per-minute

• 100-MHz RISC processor. First page out in less than 15 secs

• 600 dpi, FastRes 1200 (1200 dpi quality)

• 80 Scaleable TrueType® fonts built in



| | | | |
|---------|--------------------|-------|----------|
| PR12987 | HP LaserJet 4000 | £741 | £870.68 |
| PR12978 | HP LaserJet 4000T | £907 | £948.23 |
| PR12975 | HP LaserJet 4000N | £941 | £1105.68 |
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NEW

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- 1440dpi PhotoReal output
- iMAC Compatible as Standard

EPSON PRINTERS

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|-----------|-----------------------------|-----------|-----------|
| 201457 | EPSON DOT MATRIX LQ-300 | £97.00 | £113.98 |
| 234460 | EPSON DOT MATRIX LQ-300 | £115.00 | £135.13 |
| 96595 | EPSON DOT MATRIX LQ-670 | £230.00 | £270.25 |
| 97485 | EPSON DOT MATRIX LQ-1170 | £190.99 | £234.99 |
| PR14081 | EPSON DOT MATRIX DFX 8500 | £1,770.00 | £2,090.33 |
| EURPR1617 | EPSON DOT MATRIX LQ-2170 | £468.00 | £549.00 |
| PR14326 | EPSON DOT MATRIX FX-2180 | £980.00 | £1,164.13 |
| PR12408 | EPSON DOT MATRIX LQ-670 | £230.00 | £270.25 |
| PR4480 | EPSON DOT MATRIX LQ-570+ | £216.00 | £253.80 |
| PR12980 | EPSON DOT MATRIX DLQ-3000+ | £715.00 | £840.13 |
| PR13065 | EPSON DOT MATRIX FX-880 | £247.00 | £290.23 |
| PR12124 | EPSON STYLUS COLOUR 1520 | £461.00 | £528.93 |
| PR12407 | EPSON STYLUS COLOUR 3000 A2 | £1,118.00 | £1,213.65 |
| PR13450 | EPSON STYLUS PHOTO 700 | £145.00 | £170.38 |
| PR13449 | EPSON STYLUS COLOR 850 | £207.00 | £243.23 |
| PR13448 | EPSON STYLUS PHOTO EX | £300.00 | £361.90 |
| PR13644 | EPSON STYLUS PRO 5000 | £1,567.00 | £1,864.73 |
| PR13782 | EPSON LASER EPL-5700 | £304.00 | £357.20 |
| INP506 | EPSON GT-7000 Scanner | £146 | (171.55) |
| INP506 | EPSON GT-7000 Photo Scanner | CALL | |
| 201457 | EPSON Dot Matrix LQ-300 | £97 | (£113.98) |
| 234460 | EPSON Dot Matrix LQ-300 | £115 | (£135.13) |
| PR4480 | EPSON Dot Matrix LQ-570+ | £216 | (£253.80) |
| PR13448 | EPSON Stylus Photo EX | £305 | (£368.30) |

CANON

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|---------------|--------------------|-----------|-----------|
| LASER | | | |
| PR12944 | LBP-2460 | £1,450.00 | £1,714.33 |
| PR11982 | LBP-1260+ | £915.00 | £1,122.83 |
| PR12274 | LBP-300 | £186.00 | £222.08 |
| PR14060 | LBP-1700 | £665.00 | £790.83 |
| INKJET | | | |
| PR12101 | BJC-5500 | £408.00 | £490.58 |
| PR12936 | BJC-4300 | £90.00 | £104.50 |
| PR12838 | BJC-4650 | £197.00 | £231.40 |
| PR12865 | BJC-250 | £99.95 | £121.10 |
| PR12877 | BJC-30 | £142.00 | £166.35 |
| PR12890 | BJC-30 + Scanner | £186.00 | £221.98 |
| PR12825 | BJC-7000 | £165.00 | £193.88 |
| PR12867 | BJC-50 | £180.00 | £222.08 |
| PR14535 | BJC-5000 | £160.00 | £196.58 |
| PR13810 | BJC-4300 + Scanner | £122.00 | £143.35 |
| PR12887 | BJC-4650 + Scanner | £246.00 | £276.12 |

PANASONIC

| | | | |
|-------------------|-----------------|-----------|-----------|
| LASERS | | | |
| 226455 | KOP-6500 | £235.00 | £276.13 |
| 224028 | KOP-6150 | £270.00 | £322.83 |
| EURPR1689 | KOP-8500 | £172.00 | £202.10 |
| PR13258 | KC-P8410 COLOUR | £1,060.00 | £1,291.33 |
| DOT MATRIX | | | |
| EURPR1422 | KOP-3625 24 Pin | £255.00 | £298.83 |
| PR11964 | KC-P2124 24 Pin | £186.00 | £222.08 |
| PR4440 | KC-P2029 24 Pin | £186.00 | £221.98 |
| 224028 | KOP-5658 9 Pin | £255.00 | £298.83 |
| PR12165 | KC-P2320 9 Pin | £186.00 | £222.08 |
| EURPR1880 | KOP-1150 9 Pin | £87.00 | £102.23 |

EPSON PRINTER SUPPLIES

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|-------------------------|--|---------|--------|--------|
| EPSON Cartridges | | | | |
| PR1500 | EPSON STYLUS 440/640 BK | 5020187 | £11.65 | £16.64 |
| PR1501 | EPSON STYLUS 740 BK | 5020189 | £15.95 | £19.14 |
| PR1502 | EPSON STYLUS 440/640/740 Colour Cartr. | 5020191 | £17.95 | £21.19 |
| PR2021 | EPSON STYLUS 500/600/700 BK | 5020085 | £12.95 | £15.22 |
| PR2022 | EPSON STYLUS Colour 500/600/700/1520 | 5020086 | £14.75 | £17.33 |
| PR2023 | EPSON STYLUS Colour 800/1520 BK | 5020108 | £14.40 | £16.92 |
| 226072 | EPSON STYLUS Colour/Photo/Pro JXL | 5020034 | £9.35 | £10.59 |
| 226073 | EPSON STYLUS Colour/Photo/Pro JXL | 5020035 | £18.45 | £21.58 |
| AC2250 | EPSON A4 Paper 300gsm (100 Sheets) | S041069 | £8.95 | £10.52 |
| AC2251 | EPSON A4 Photo Paper 140gsm (100 Sheets) | S041081 | £8.95 | £10.52 |

FULL RANGE OF SUPPLIES AVAILABLE

* See page 32 for Terms & Conditions

PAGE 9 OF 32

EPSON STYLUS PHOTO 750

- EPSON Ultra Micro Dot
- EPSON PhotoEnhance 3 for Optimisation for Digital Images
- 1440dpi with Variable-sized Droplet Technology
- Highest Quality and Fastest Photo Printer in the market
- Parallel, USB, Mac Serial

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- Print up to 5ppm in black, up to 2.5ppm in colour
- Print 7ppm with high capacity cartridge
- 1200 x 600dpi photo-realistic printing

ONLY £95 (£111.63)

PR14556



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| PR14554 | Xerox DocuPrint P8e | £235 | (£276.13) |
| PR14555 | Xerox DocuPrint P12 | £415 | (£487.63) |
| PR14557 | Xerox DocuPrint XJ8C | £145 | (£170.38) |

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- 8ppm
- Windows dedicated printing
- 2MB standard memory
- 600 dpi resolution
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- Intelligent sleep mode



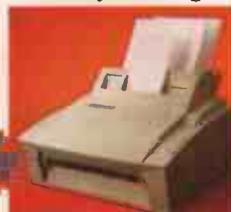
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High quality printing at a surprisingly low price.

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HL-P2000

- 10ppm printer
- Personal Desktop Copier
- 600dpi digital scanner with OCR
- 2MB memory
- Semi-automatic double-sided printing
- Auto POP3 email printing



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|---------|----------------|------|------------|
| PR13781 | HL-820 | £159 | (£188.83) |
| PR13843 | HL-1040 | £215 | (£252.63) |
| PR13842 | HL-1050 4MB | £239 | (£280.83) |
| PR14220 | HL-1050 8MB | £255 | (£299.63) |
| PR13772 | HL-1070 4MB | £299 | (£351.33) |
| PR14219 | HL-1070 16MB | £329 | (£386.58) |
| PR12459 | HL-P2000 | £239 | (£280.83) |
| PR13498 | HL-1660e 8MB | £609 | (£715.58) |
| PR13657 | HL-1660en 8MB | £819 | (£962.33) |
| PR13653 | HL-1660en 16MB | £835 | (£981.13) |
| PR14318 | HL-2060C 8MB | £669 | (£786.08) |
| PR14319 | HL-2060 16MB | £685 | (£804.88) |
| PR13362 | HL-2060 40MB | £899 | (£1056.33) |
| PR13492 | HL-2060N 80MB | £915 | (£1075.13) |



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HP DESKJET CARTRIDGES

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| 51626A | HP InkJet Cartridge, black for DJ, DJ+DJ400/500-560C/OfficeJet | £15.75 | (£18.51) |
| 51625A | HP InkJet Cartridge, colour for DJ 500C-560C, DJ Portable 310/320/340 | £16.45 | (19.33) |
| 51629A | HP InkJet Cartridge, black for DJ 600/660C/670C/690C/694C | £16.65 | (£19.56) |
| 51649A | HP InkJet Cartridge, colour for DJ 00/660C/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/OfficeJet Pro | £17.45 | (£20.50) |
| C1822A | HP InkJet Cartridge, colour for DJ 720C/850C/895C | £24.40 | (£28.67) |
| C4844AE | HP InkJet Cartridge large black for C2000C/C4750C | £30.95 | (£36.37) |
| C4841AE | HP InkJet Cartridge Cyan for C2000C/C4750C | £30.95 | (£36.37) |
| C4842AE | HP InkJet Cartridge Yellow for C2000C/C4750C | £30.95 | (£36.37) |
| C4843AE | HP InkJet Cartridge Magenta for C2000C/C4750C | £30.95 | (£36.37) |

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| C3831A | HP Premium Glossy Paper, A4, 10 sheets | £7.55 | (£8.87) |
| 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 Z-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 | £32.95 | (£38.72) |
| 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 / 20 envelopes | £5.60 | (£6.58) |

HP LASERJET TONER CARTRIDGES

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|--------|---|---------|-----------|
| C4129X | LJ5000 | £93.95 | (£110.38) |
| C4127A | Toner Cartridge for LJ4000 | £54.45 | (£63.98) |
| C4127X | High Capacity Cartridge for LJ4000 | £76.25 | (£89.58) |
| 92274A | Toner Cartridge for LJ 4L/4ML, 4P/4MP | £38.95 | (£46.77) |
| 92275A | Toner Cartridge for LJ 19/19+, HP | £47.70 | (£56.05) |
| 92291A | Toner Cartridge for LJ 83/4S, 4S/4MX | £63.95 | (£75.14) |
| 92295A | Toner Cartridge for LJ 840, 840D | £40.95 | (£48.11) |
| 92298X | High Capacity Toner Cartridge for long life LJ 4M+, 4+M+, 5M/5M | £64.45 | (£75.72) |
| 92298A | Toner Cartridge for LJ 4M+, 4+M+, 5M/5M | £51.95 | (£61.57) |
| C3900A | Toner Cartridge for LJ 4M/4M+ | £81.45 | (£95.70) |
| C3903A | Toner Cartridge for LJ 5P/5MP, 6P/6MP | £45.95 | (£53.98) |
| C3906A | Toner Cartridge for LJ 5L | £33.95 | (£39.88) |
| C3909A | Toner Cartridge for LJ 5S, 5S/5MX | £104.95 | (£123.32) |
| 92265A | Toner Cartridge for LJ Plus, LJ 500 Series | £65.95 | (£78.72) |
| C4082A | Toner Cartridge for LJ1100 & LJ100A | £30.95 | (£37.51) |
| C4128X | Toner Cartridge for LJ8100 | £230.95 | (£271.36) |
| C4191A | Toner Cartridge for LJ4500 | £71.95 | (£84.54) |

HP COLOUR LASERJET 5 TONER

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| 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 | £5.45 | (£6.40) |
| C3864A | Coating Kit | £37.95 | (£44.59) |
| C3865A | Black Developer | £128.95 | (£151.51) |
| C3866A | Colour Developer | £391.95 | (£460.54) |
| C3867A | Drums Unit | £236.00 | (£277.30) |
| C3868A | Transfer Belt | £128.95 | (£151.51) |
| C3869A | 220 Volt Fuser | £179.95 | (£211.44) |

HP 2000C/CN



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- Up to 600dpi
- Up to 10ppm black
- Up to 7ppm colour

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| PR13882 | HP 2000C Printer | £450.00 | (€528.75) |
| C4601A | 250 sheet accessory paper tray for 2000C | £139.00 | (€163.33) |
| PR14052 | HP 2000CN Printer (with JetDirect 300X & accessory paper tray) | £675.00 | (€793.13) |
| 201325 | HP Support Pack | £139.00 | (€163.33) |



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Professional Colour Printer

Fast high-impact colour documents at low cost per page

- From postcard to A3 oversize
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|---------|------------------|--------|-----------|
| PR14169 | HP 2500C Printer | £705 | (€828.38) |
| C4844AE | Black Cartridge | £30.95 | (€34.60) |
| 201325 | HP SupportPack | £139 | (€163.33) |



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- Up to 8ppm black, 5ppm colour
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HP DeskJet 895Cx

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HP DeskJet 420C

- Up to 3ppm black, 0.25ppm colour
- 600dpi black, 300dpi colour

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HP DeskJet 1120C

- 6.5 ppm black, 2ppm colour
- Up to 600 x 600 dpi black

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HP DESKJET 695C

HP DeskJet 695C

- Up to 5ppm black, 1.7ppm colour
- Optional photo quality printing
- Sharp black text

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HP DeskJet 710C

- PhotoRet II for photo-quality, Kodak image enhancement
- Up to 6ppm black, 3ppm colour

Only **£126** (€148.05) Item # PR13998



HP DeskJet 720C

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- Up to 600 dpi with black pigmented ink
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- 21" (20" viewable) colour display
- 0.28mm aperture grille pitch
- 1600 x 1200 max resolution
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- TCO 95

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- 15" (14" viewable) multimedia CRT Colour Display
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- 1024 x 768 @ 87Hz
- TCO 95

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- 14" (13.2" viewable) colour display
- 0.28mm dot pitch
- 800 x 600 @ 85Hz
- MPRII compliance

VIEWSONIC E655

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- 15" Colour TFT LCD Display
- 250 nits brightness
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- Full 14.5" viewable screen
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- XGA 75Hz
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 (£229.13)
 MT1726

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- 1024 x 768 @ 87Hz
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VIEWSONIC G653

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 (£146.88)
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- 15" (13.8" viewable) colour display
- 0.28mm dot pitch
- 1024 x 768 @ 87Hz
- TCO 95

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|-------|--------------------|--------|------|-----------|
| GA771 | 17" (16" Viewable) | MT1450 | £280 | (£329.00) |
| GS771 | 17" (16" Viewable) | MT1853 | £220 | (£258.50) |
| P655 | 15" (14" Viewable) | MT2124 | £135 | (£158.63) |
| P775 | 17" (16" Viewable) | MT1579 | £299 | (£351.33) |
| PT775 | 17" (16" Viewable) | MT1579 | £345 | (£405.38) |

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VIEWSONIC MONITORS



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Matrox Millennium G200 Graphics Card

- 8MB SGRAM upgradeable to 16MB
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No compromise graphics acceleration for your PC

- Explosive 2D & 3D 128-bit graphics with RIVA TNT™
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EX9480 Viper V550 16MB PCI £109.00 (£128.08)

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Only **£109** (£128.08)

- 15" colour monitor (13.7" diagonal viewable)
- 0.28mm dot pitch
- 1,024 x 768 maximum resolution



OPTIQUEST.

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TAXAN UK NO.1 MONITOR MANUFACTURER

ERGOVISION 975 TCO 95

- 19" FST (18" viewable)
- 0.26mm dot pitch
- ARASC face treatment
- 30-95 kHz (Multiscan)
- 1600 x 1200 up to 75Hz
- Fully TCO 95 Compliant
- Dual input



ERGOVISION 760 TCO 95

- 17" "ZenTan" FST
- 30-70 kHz (Multiscan)
- 1024 x 768 up to 86Hz
- Footprint equivalent to 14" monitor
- Easy one-touch control



CRYSTALVISION 640 TCO 95

- 14.1" Colour TFT LCD
- Up to 1024 x 768 resolution
- 16.7 million colours (24 bit)
- Includes headphone output, stereo speakers (rear facing)



Only **£645** (£757.88) EURMT0517

Using the Ergovision 760 TCO 95 you not only save money but also valuable desk space

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| MT1680 | Ergovision 550 TCO 95 15" | £132 | £155.10 |
| MT1681 | Ergovision 550 TCO 95-S 15" | £142 | £166.85 |
| MT1825 | Ergovision 760 TCO 95-S 17" | £262 | £307.85 |
| MT1317 | Ergovision 2160 TCO 95 | £759 | £891.83 |
| MT1887 | Ergovision 975 TCO 95 19" | £379 | £445.33 |
| MT1317 | Ergovision 750 TCO 95 17" | £379 | £445.33 |
| MT2516 | Ergovision 745 TCO 99 17" | £262 | £307.85 |

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| EURMT0517 | Crystalvision 640 TCO-95 14.1" TFT | £645 | £757.88 |
| MT2146 | Crystalvision 660 TCO-95S 15" TFT | £1139 | £1338.33 |
| MT2378 | Crystalvision 670 TCP-95S 15.1" TFT | £949 | £1115.08 |

ERGOVISION 735 TC099

- 17" FST (16" viewable)
- 0.27mm dot pitch
- 1024 x 768 @ 86Hz
- USB Hub (1 upstream, 4 downstream)
- Short Neck Tube (428mm deep)
- Fully TC099 Compliant



AS LOW AS **£225** (£264.38) Item # MT2515

ERGOVISION 745 TC099

- 17" FST (16" viewable)
- 0.26mm dot pitch
- 1600 x 1200 @ 75Hz
- USB Hub (1 upstream, 4 downstream)
- Short Neck Tube (428mm deep)
- Fully TC099 Compliant



AS LOW AS **£252** (£269.10) Item # MT2516

SONY MULTISCAN 15" 100ES

- 15" Trinitron monitor
- Super Fine Pitch: 0.25mm Aperture Grille
- Resolution of 1024 x 768 @ 85Hz
- Digital Multiscan for distortion-free images



ONLY **£169** (£204.85) Item # MT1896

SONY TRINITRON 17" 200ES

- 17" Trinitron CRT monitor
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- 1280 x 1024 resolution @ 60Hz



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- 0.27mm ultra fine / 0.25mm variable dot pitch
- 1600 x 1200 max resolution @ 75Hz
- Convenient USB monitor control utility

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(€511.13)
Item # MT2512



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| MT1290 | Diamond Scan 50 | £129.00 | (€151.58) |
| MT2149 | Diamond Scan 70 | £195.00 | (€229.13) |
| MT2140 | Diamond Plus 72 | £315.00 | (€370.13) |
| MON0583 | Diamond Pro 700 | £365.00 | (€428.88) |

DIAMOND SCAN 50

- 15" Colour Monitor (13.8" viewable)
- 1024 x 768 at 75Hz
- 0.28mm dot pitch
- 3 year warranty

ONLY
£129
(€151.58)
Item # MT2344



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| MT2439 | Diamond Plus 71 | £265.00 | (€311.38) |
| MON0442 | Diamond Pro 91TXM | £675.00 | (€793.13) |
| MT5649 | Diamond Pro 900u | £435.00 | (€511.13) |
| MT5578 | Diamond Scan 90 | £385.00 | (€452.38) |
| MON0659 | Diamond Plus 100 | £695.00 | (€816.63) |

DIAMOND SCAN 70

- 17" Colour Monitor (15.7" viewable)
- 0.28mm dot pitch
- Max resolution 1280 x 1024
- 30 ~ 70kHz horizontal frequency

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£179*
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*Only when sold with any monitor or notebook

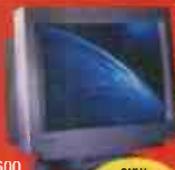


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Mitsubishi Diamond Scan 90

- 19" Colour Monitor (18" viewable)
- Ultra fine 0.25mm dot pitch
- Max Resolution 1600 x 1280 @ 75Hz
- 30 - 95kHz horizontal frequency

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OPTIQUEST Q71

- 17" colour monitor (16" diagonal viewable)
- Digital controlled monitor with on-screen programming
- 0.27mm dot pitch
- OnView® controls including ViewMatch®
- Anti-Static, anti-glare screen

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VISION MASTER PRO 450

- 19" DiamondTron NF (18" viewable)
- 0.25mm aperture grille
- 1600 x 1200 @ 90Hz refresh
- TCO-95 compliant



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S702GT

- 17" FST (15.7" viewable)
- 0.28mm dot pitch
- 1600 x 1200 @ 75Hz refresh

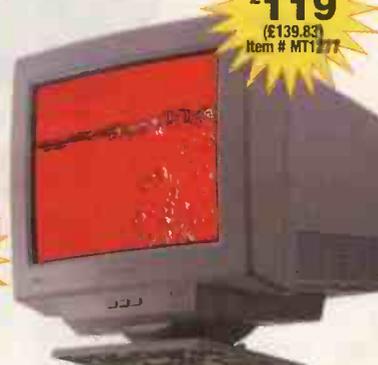


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Item # MT2429



VISION MASTER 350

- Up to 1280 x 1024 @ 65Hz
- 15" FST
- 0.28mm
- 27-69 KHz



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(€139.83)
Item # MT1177

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|--------|---|---------|-----------|
| MT1186 | Iiyama Monitor 17" VISION MASTER 17ES MF-8617ES | £349.00 | (€410.07) |
| MT1277 | Iiyama Monitor 15" VISION MASTER 350 MF-8515G | £119.00 | (€139.83) |
| MT1744 | Iiyama Monitor 19" VISION MASTER 450 S901GT | £399.00 | (€468.83) |
| MT2440 | Iiyama Monitor VISION MASTER PRO 450 A901GT | £435.00 | (€511.13) |
| MT2083 | Iiyama Monitor 21" VISION MASTER 501 S101GT | £645.00 | (€757.88) |

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|--------|---|---------|-----------|
| MT2084 | Iiyama Monitor 21" DIAMONDTRON PRO 501 A101GT | £645.00 | (€757.88) |
| MT2085 | Iiyama Monitor 21" VISION MASTER 502 S102GT | £669.00 | (€786.08) |
| MT2086 | Iiyama Monitor 21" DIAMONDTRON PRO 502 A102GT | £699.00 | (€821.33) |
| MT2174 | Iiyama Monitor 17" DIAMONDTRON A701GT | £299.00 | (€351.33) |
| MT2175 | Iiyama Monitor 17" VISION MASTER 400 S701GT | £285.00 | (€334.88) |

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|--------|---|---------|-----------|
| MT2357 | Iiyama Monitor 14.1" TFT PROLITE 36 TXA3602GT | £659.00 | (€774.32) |
| MT2358 | Iiyama Monitor 15" TFT PROLITE 38 TXA3811HT | £685.00 | (€804.87) |
| MT2123 | Iiyama Monitor LCD 14.1" TFT PROLITE 36 TXA3601GT | £495.00 | (€581.62) |
| MT2429 | Iiyama Monitor 17" FST S702GT | £229.00 | (€269.08) |
| MT2123 | Iiyama Monitor 14.1" TFT PROLITE 36 TXA11HT | £575.00 | (€675.63) |
| MT2329 | Iiyama Monitor 15" TFT PROLITE 38B TXA3821HT | £795.00 | (€934.13) |

Philips 17" Monitor 107S

AS LOW AS
£195
(€229.13)
MT1412

- 17" Flat Screen CRT (15.9" viewable size)
- 1280 x 1024 resolution @ 60Hz
- 24mm horizontal dot pitch



PHILIPS Brilliance 151AX

- 15" (13.8" viewable) LCD Monitor
- Small 17.6cm (7 inch) footprint
- 1024 x 768 max resolution @ 67Hz
- Fine 0.30 dot pitch

ONLY
£565
(€663.88)
MT2544



* See page 32 for Terms & Conditions

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Umax DC-F1 Digital Camera

Low cost digital photography from Umax!

- 800,000 pixels CMOS sensor
- JPEG compression
- High quality images (1820x1600x30bits/pixel)
- Integrated automatic electronic flash
- 2MB removable flash memory card included - stores up to 30 images
- Sound recording at 20 sec. Per image
- Includes: Adobe PhotoDeluxe, Adobe Pagemill & Presto! PhotoAlbum



Only **£259**
(£305.33)

Ask for item # IN7286

Umax Powerlook II

Drum Scanner quality at a flatbed price!!!

- True 36 bit colour
- Maximum interpolated resolution of 9600dpi
- Delivers 600dpi scans in less than one minute



Only **£749**
(£880.08)

Ask for item # INP1513

AGFA 1212U

- USB Scanner
- 36 Bit Colour
- 600 x 1200 ppi Optical Resolution
- 9600 x 9600 ppi Max resolution



Only **£129**
(£151.58)

Ask for item # INP1654

AGFA T1200

- 1200 x 600 ppi Optical resolution
- 36 Bit Colour
- 3600 dpi line art outline resolution
- 3.0 maximum density range



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(£654.08)

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UMAX ASTRA COLOUR SCANNERS

The Astra 1220 Series Colour Scanners from UMAX offer small office and home office users incredible, professional quality colour images. You will enjoy a maximum resolution of 600 x 1200 dpi for quality colour balance and the convenience of single pass scanning for speed. Plus the Astra 1220 Series offers three models for compatibility with a variety of system interfaces - the Astra 1220P (parallel port), the Astra 1220U (USB), and the Astra 1220S (SCSI).

Umax Astra 1220P, 1220S & 1220U

The Mainstream Business and Graphics Scanner!

- 30 bit ad/converter, 36 bit with Bit Enhanced Technology
- 600 x 1200dpi optical resolution
- 9600 dpi interpolated resolution
- 10 bit greyscale
- Bit enhanced Technology captures more colours and tones for smoother



FROM ONLY **£99**
(£116.33)
Item # IN6891

High Quality Scanners

| | | | |
|---------|------------------|------|-----------|
| IN6891 | Umax Astra 1220P | £99 | (£116.33) |
| IN9690 | Umax Astra 1220S | £129 | (£151.58) |
| INP1662 | Umax Astra 1220U | £139 | (£163.33) |

AGFA SNAPSCAN 1236S

- The SnapScan for todays professional
- 600 x 1200 dpi (SCSI)
- 36 Bit colour
- Optional Transparency Adapter and Automatic Document Feeder



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(£163.33)
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Image shown includes optional accessories

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- Fax and filing system
- 24 bit colour
- Scans business cards



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INP1185

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EPSON GT-7000 SCANNER

- Affordable, compact colour flatbed scanner
- High quality 600 x 2400 dpi optical resolution
- Can distinguish 68 billion different colours (36 bit)
- Start button for easy one touch scanning



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(£198.58)
ACC3487

EPSON

EPSON GT-7000 PHOTO SCANNER

- Film adapter for scanning negatives
- High speed Adaptec PCI SCSI interface
- Compatible with Windows 95™ and Windows 98™



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HP Scanners from £119 (£139.82)

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HP SCANNERS

Experience the excitement of success with HP's new scanners!

HP 4100C Scanner

- Automatic image and text optimisation
- Push button convenience
- Intuitive scanning software
- Scan only once for text and image data acquisition through Dual Image scanning
- Xenon bulb aimed to improve scanner life
- Universal Serial Bus (USB)

IN7207 HP 4100C Scanner £119 (£139.83)
WR1219 HP SupportPack £65 (£76.38)

HP 6200C Pro Scanner

- Drag and drop scanned text or photos into your application
- Optimises individual elements on the page through automatic complex page analysis
- Scan only once for text and image data acquisition through Dual Image scanning
- Scans black and white line art for editing or enlargement with no loss of quality through vectorisation
- Networkable through HP PrecisionScan Lan
- Xenon lamp eliminates warm up time and increases scanners life.

IN7208 HP 6200C Scanner £239 (£280.83)
EURWR0025 HP SupportPack £65 (£76.38)



ONLY £119
(£139.83)
Item # IN7207

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Item # IN7208

SCANNERS & PROJECTORS FOR PROFESSIONALS

HP ScanJet 6250C



- Integrated automatic document feeder
- Improves productivity up to four times
- Enhanced resolution for quality image capturing
- Networkable



ONLY £299
(£351.33)
IN7210

HP DC-20 Digital Camera

- 1 megapixel CCD resolution
- 24 bit colour
- Built-in flash with red eye reduction
- Mechanical shutter for sharp images



ONLY £229
(£269.08)
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EPSON GT-9600

EPSON®

- 800 x 3200dpi optical resolution with Micro Step drive
- 36 bit colour scanning
- Dynamic range of 3.3D
- High speed scanning
- One year RTB with optional 3 year extended warranty



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(£482.93)
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HP 5200 SCANNER

- HP Intelligent Scanning Technology
- USB/Parallel Interface
- 600 dpi optical resolution
- 36-bit depth
- Optional ADF
- Windows 95, Windows 98 & Windows NT 4.0 compatible



ONLY £199
(£233.83)
Item # IN9569

3M MP8610 PROJECTOR

- 500ANSI lumens
- Two 10w built in speakers
- Six remote controlled presentation tools
- Rugged and durable for maximum portability



ONLY £1995
(£2344.13)
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SANYO SU-15 PROJECTOR

- Ultra lightweight only 3.9kg
- 600 Ansi lumens
- Digital zoom and focus
- SVGA 800 x 600dpi



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MT2983

Linotype Jade II

- 600 x 1200dpi
- A4 flatbed scanner
- Contains Photoshop 4.0 LE
- 30 bit colour depth
- Interpolated res 3600x3600
- Built-in SCSI
- Includes ColorFactory Pro



FROM £329
(£386.58)
INP1411



CTX EzPro 550

ONLY £1499
(£1761.33)
MT2459

- 300 ANSI lumens
- Data and Video applications
- 400W halogen bulb
- Weighs only 4.2kg



* See page 32 for Terms & Conditions



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New Agfa Camera from £249 (€292.57)

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Basic Mouse



Great Value, Easy to Use
The Basic Mouse is great value, and is built to last. It is an ambidextrous two-button mouse that fits a range of hand sizes. The first time anyone has been able to purchase a Microsoft Mouse in this price range.

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- Includes ECU key
- Built in palm rest
- Adjustable keyboard legs
- Shortcuts to Windows 95™ & 98™

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Relax your hand and keep in neutral alignment!

Intellimouse Pro offers advanced zooming and scrolling capabilities with its incorporated rolling wheel. Work hands free with AutoScroll by simply pressing the wheel and watching your documents scroll down automatically!

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- Split, contoured key layout improves typing comfort
- Compact design fits the way you work
- Instantly launches applications and Web sites
- 3 year warranty

Ask for item # IN7489

OLYMPUS

OLYMPUS C-840L DIGITAL CAMERA

- 1.3 million pixels
- 1280 x 960 resolution
- Uncompressed image

FROM
£499
(£586.33)
IN7071



OLYMPUS C-1400XL TTL SLR

- 1.4 million CCD progressive (1280 x 1024)
- 3 x OPTICAL Zoom
- Through the lens viewing

ONLY
£849
(£997.58)
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PHILIPS SPEECH MIKE PRO

Combines dictation microphone, loudspeaker and trackball mouse. Designed for the latest multimedia software such as speech recognition



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£75
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AGFA e-PHOTO 1680

- Resolutions up to 1600 x 1200 dpi
- Contains an f/2.8 lens aperture
- 2" high-resolution LCD display
- 4MB of storage to enable you to save up to 48 pictures



FROM ONLY
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IN7202

KODAK DC-220 & DC-260 ZOOM DIGITAL CAMERAS

- 1152 x 864 resolution (DC220)
- 1536 x 1024 (DC260)
- Stores up to 12 pictures

IN7112 DC220 **£419** (€492.33)
IN7111 DC260 **£669** (€786.08)

AS LOW AS
£419
(£492.33)
Item # IN7112



AGFA CL-30 DIGITAL CAMERA

- 1024 x 768 dpi
- 24-bit colour
- 1.8" LCD display
- Stores up to 96 images
- 2MB memory card



NEW

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250MB ZIP DRIVE

Iomega introduce the new 250MB Zip drive, the new generation of Zip drive

The new high capacity Zip 250 drive and disks are now available from Inmac. The perfect answer for the growing file size demands that are being driven by the growth in the size of computer applications.

- Compatible with Zip 100 disks and drives
- Higher capacity - 175 times more capacity than a floppy disk
- Faster performance - up to 56 times faster than a floppy drive.
- Easy to use and portable.

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 (£151.58)
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ZIP USB DRIVE

Iomega introduce the new Zip USB drive, the perfect companion for iMac and PC's with Windows 98 works with new USB connection.

- Easy to connect - just plug it into your USB port
- Hot swappable - Switch with other USB devices without turning off your computer
- Reliable - use it like your hard drive and run your software
- Compatible with 100MB Zip disks
- Up to 60MB per minute transfer rate

ONLY £85
 (£99.88)
 Item # DR9464

ZIP 100MB STARTER KIT

- Here's what you get
- Parallel Port Zip Drive
 - 6-pack of Multicoloured disks
 - Recordit software
 - Iomega Tools on Zip Disk

ONLY £95
 (£111.63)
 Item # DR8960

REMOVEABLE STORAGE HIGHLIGHTS

NOVA 20X CD-DRIVE

Only £159
 (£186.83)
 DR9314

- Ultra slim & lightweight at only 450g
- powered via PCMCIA port
- Plug & Play
- 3 year warranty

Zip & Jaz Media

| | | | |
|---------------------------|---------|---------|-----------|
| ME7941 Zip disk | 6-pack | £39.00 | (£45.83) |
| ME7940 Zip disk | 20-pack | £121.00 | (£142.17) |
| ME7527 Jaz 2GB Cartridge | | £65.00 | (£76.38) |
| ME7529 Jaz 2GB | 3-pack | £159.00 | (£186.83) |
| ME7456 DittoMax 5GB tape | | £17.00 | (£19.97) |
| ME7458 DittoMax 7GB tape | | £17.95 | (£21.09) |
| ME7533 DittoMax 10GB tape | | £21.95 | (£25.79) |
| 236894 Jaz 1GB Single | | £55 | (£64.63) |

JAZ 2GB DRIVE

What you get!

- External 2GB Jaz Drive
- 3 Jaz 2GB cartridges
- 1 Jaz Tools Cartridge
- Large Carry Case

Only £369
 (£433.58)
 Item # BN5491



AMACOM PCMCIA ZIP DRIVE

- Ultra lightweight and compact
- Powered directly from your computer
- Uses standard Iomega® 100MB Zip Disks
- 16 bit transfer - up to 3.3MB/Sec
- Real Plug & Play

Only £165
 (£193.88)
 Item # DR9464



FREECOM EXTERNAL CD-RW

- 4x Write, 4x Rewrite, 20x Read
- CD-Rewriter for connection to parallel/PCMCIA/USB ports (cables not included)
- Create your own CD's on CD-R media
- Ideal for CD creation, backup, archiving, and exchanging data
- Includes software, manuals and media

Freecom

COMPUTER CONNECTIONS
 THE STORAGE COMPANY

ONLY £265
 (£311.38) Item # DR9339



| | | | |
|---------|-------------------|-----|----------|
| AC25319 | IO Parallel Cable | £24 | (£28.20) |
| AC25817 | IO PCMCIA Cable | £32 | (£37.60) |
| AC26279 | IO USB Cable | £32 | (£37.60) |

PANASONIC DVD-RAM DRIVE

- Internal SCSI rewritable DVD-RAM drive
 - Choice of 2.6GB or 5.2GB discs
 - Store 4 times the capacity of a PD or CD-R on a single side
- Read; CD-ROM/CD-R/CD-RW/DVD-ROM/DVD-RAM/DVD-Video* and PD discs
 - Write to PD and DVD-RAM discs
- Compatible with Windows 95/98 and NT

Panasonic

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 (£445.33)
 Item # DR9148

Store up to 5.2GB on a disc!



| | | | |
|--------|-------------------------------|--------|----------|
| ME7985 | Panasonic 2.6GB DVD-RAM Media | £14.95 | (£17.57) |
| ME7961 | Panasonic 5.2GB DVD-RAM Media | £22.95 | (£26.97) |

Nova PCMCIA Zip Drive

ONLY £165
 (£193.88)
 DR9315

- Utilises standard 100MB Zip disks
- Connects via PCMCIA slot
- 16-bit data transfer rate - up to 3.3MB/sec
- Compact and lightweight
- Includes 100MB Zip disk

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5X DVD Multimedia Kit for only £135 (€158.63)

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CD DRIVES SPECIALS!

Traxdata 2X/2X/6X CD-RW

- 2X Write, 2X Rewrite, 6X Read
- Record and Read 7 different formats
- Includes S/Ware, cables, screws and manuals
- Internal IDE connection

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Ask for item # DR7729

Amacom Bravo CD-ROM

As low as **£149**
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- 20X PCMCIA CD drive
- Up to 3MB/Sec
- Mobile audio CD player
- Fully hot swappable

Ask for item # DR7918

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Only **£85**
(£99.88)

- Internal SCSI 40X CD-ROM
- Data transfer rate between 2.5MB/s - 6MB/s
- Random Access time 85ms
- 512KB Buffer • Two Year Warranty

DR9612 UltraPlex 40X External Tray **£125** (€146.88)

Ask for item # DR9563

Freecom Traveller CD Drive

Only **£159**
(£186.83)

- Super lightweight and portable CD Drive
- 24X read speed
- Connects to PCMCIA Type II slot
- Built in rechargeable battery pack

AC25319 Freecom IO Parallel Cable **£24** (€28.20)
AC26279 Freecom IO USB Cable **£32** (€37.60)

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Hauppauge is a world leader in delivering the best TV and digital video boards for PC's. Win TV's are used for TV watching, video capture and for teletext all in a product range which is Totally Versatile.

Win TV Primio



- 122 channel cable and TV reception
- Teletext support
- Plug & Play for Windows 95/98
- PCI Bus Architecture
- Compatible with most cards supporting DirectDraw

ONLY **£49!**
(£57.58)
Item # EX9191

Win TV Nicam



- 122 channel cable and TV reception
- Professional Teletext support with print, save and DDE
- Nicam Stereo Sound
- Plug & Play for Windows 95/98
- PCI Bus Architecture
- Compatible with most cards supporting DirectDraw

AS LOW AS **£67!**
(£78.73)
Item # EX737

Win TV Radio



- Cable TV reception in 2 channel
- Nicam Stereo Sound
- Cable FM Stereo Radio Tuner
- Professional Teletext
- PCI Bus Architecture
- Windows Plug & Play

ONLY **£79!**
(£92.83)
Item # EX9192

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- 4X Write (600KB/s) / 12X Read (1800KB/s)
- Max 5MB/sec burst data transfer rate
 - Fast SCSI-2 Interface
 - MultiRead Compatible
 - Caddy loading Mechanism
- Supports Disk-At-Once, Track-At-Once, Multisession and Packet Writing Modes



DR7731 Plexwriter 4X/12X External SCSI **£269** (€316.08)
DR9613 Plexwriter 8X/20X Internal SCSI **£315** (€370.13)
DR9614 Plexwriter 8X/20X External SCSI **£365** (€428.88)

From only **£249!**
(€292.58) Internal SCSI Item # DR7730



YAMAHA CD-RW DRIVES

- 4X Write, 4X Rewrite, 16X Read
- 2MB Buffer for high-speed 4X recording
- Internal or external SCSI-2 connection
- Retail packaged with full instructions and manuals
- Software included; Adaptec Easy CD Creator, Direct CD software for W95/NT



From Only **£229**
(€269.08)

YAMAHA Internal Model Item # DR9378
DR9379 4X/4X/16X External SCSI **£275** (€323.13)

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SOYO is one of the world's leading motherboard manufacturers offering products which are produced to the highest quality using the latest technologies available



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| Code | Factor | Intel Chipset | Memory (DIMM) | PCI/ISA/AGP | Price | (Inc.VAT) |
|--------|---------|---------------|---------------|-------------|-------|-----------|
| EX9688 | Baby AT | 440LX | 2 | 3/3/1 | £59 | (€69.33) |
| EX9685 | ATX | 440LX | 3 | 4/3/1 | £65 | (€76.38) |
| EX9687 | Baby AT | 440BX | 3 | 3/3/1 | £79 | (€92.83) |
| EX9684 | ATX | 440BX | 4 | 5/2/1 | £85 | (€99.88) |
| EX9686 | ATX | Dual 440BX | 4 | 4/2/1 | £165 | (€193.88) |

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The PC-DVD Encore 5X Dxr2 Upgrade Kit features a third generation, high performance 5X PC-DVD drive, a MPEG-2/AC3 decoder card and DVD software.

- 5X DVD/32X CD-ROM
- Access up to 17GB of data
- Dolby digital (AC-3) output
- Dynamic Xtended Resolution (Dxr2) technology
- Bundled with games

As low as **£135**
(€158.63)
Item # DR9380



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Ultra ATA Hard Drives

Ultra SCSI Hard Drives



| Item | Model | Part Number | Capacity | Price | Inc VAT |
|----------------|--------------|-------------|----------|-------|-----------|
| SEAGATE | | | | | |
| DR8848 | Medalist | ST33221A | 3.2GB | £75 | (£88.13) |
| DR8077 | Medalist | ST34321A | 4.3GB | £79 | (£92.83) |
| DR8078 | Medalist | ST36531A | 6.5GB | £95 | (£111.63) |
| DR8605 | Medalist Pro | ST36330A | 6.5GB | £115 | (£135.13) |
| DR8079 | Medalist | ST38641A | 8.6GB | £115 | (£135.13) |
| DR8195 | Medalist Pro | ST39140A | 9.1GB | £139 | (£163.33) |



| Item | Model | Part Number | Capacity | Price | Inc VAT |
|----------------|------------------|-------------|----------|-------|-----------|
| SEAGATE | | | | | |
| DR8734 | Medalist Pro (W) | ST34520W | 4.5GB | £149 | (£175.08) |
| DR8573 | Barracuda | ST34573N | 4.5GB | £265 | (£311.38) |
| DR8750 | Medalist Pro | ST36530N | 6.5GB | £199 | (£233.83) |
| DR8748 | Medalist Pro (W) | ST36530W | 6.5GB | £199 | (£233.83) |
| DR8745 | Medalist Pro | ST39140N | 9.1GB | £279 | (£327.83) |
| DR8746 | Medalist Pro (W) | ST39140W | 9.1GB | £279 | (£327.83) |
| DR8188 | Barracuda | ST118273N | 18.0GB | £595 | (£699.13) |
| DR8755 | Cheetah (W) | ST118202LW | 18.2GB | £789 | (£927.08) |



| Item | Model | Part Number | Capacity | Price | Inc VAT |
|----------------|-------------|--------------|----------|-------|-----------|
| QUANTUM | | | | | |
| DR9154 | Fireball EX | QM303200EX-A | 3.2GB | £72 | (£84.60) |
| DR9244 | Fireball EX | QM306400EX-A | 6.4GB | £89 | (£104.58) |
| DR9493 | Bigfoot TS | QM506400TS-A | 6.4GB | £85 | (£99.88) |
| DR8777 | Fireball EL | QM307600EL-A | 7.6GB | £105 | (£123.38) |
| DR8778 | Fireball EL | QM310200EL-A | 10.2GB | £139 | (£163.33) |
| DR9492 | Bigfoot TS | QM519200TS-A | 19.2GB | £225 | (£264.38) |



| Item | Model | Part Number | Capacity | Price | Inc VAT |
|----------------|---------------|---------------------|----------|-------|-----------|
| QUANTUM | | | | | |
| DR8780 | Viking II (W) | QM304550PX-LW4.5GB | 4.5GB | £155 | (£182.13) |
| DR8489 | Viking II (W) | QM309100PX-LW9.1GB | 9.1GB | £275 | (£323.13) |
| DR8279 | Viking II (W) | QM309100PX-SW9.1GB | 9.1GB | £289 | (£339.58) |
| DR8457 | Atlas III | QM309100TDS | 9.1GB | £299 | (£351.33) |
| DR8609 | Atlas III | QM318200TDS18.2GB | 18.2GB | £589 | (£692.08) |
| DR8495 | Atlas III (W) | QM318200TD-LW18.2GB | 18.2GB | £589 | (£692.08) |



| Item | Model | Part Number | Capacity | Price | Inc VAT |
|------------------------|--------|-------------|----------|-------|-----------|
| WESTERN DIGITAL | | | | | |
| DR6335 | Caviar | AC13200 | 3.2GB | £75 | (£88.13) |
| DR8666 | Caviar | AC24300 | 4.3GB | £82 | (£96.35) |
| DR6912 | Caviar | AC25100 | 5.1GB | £89 | (£104.58) |
| DR7049 | Caviar | AC26400 | 6.4GB | £99 | (£116.33) |
| DR8631 | Caviar | AC38400 | 8.4GB | £115 | (£135.13) |
| DR9590 | Caviar | AC313000 | 13.0GB | £145 | (£170.38) |



| Item | Model | Part Number | Capacity | Price | Inc VAT |
|------------------------|----------------|---------------------|----------|-------|-----------|
| WESTERN DIGITAL | | | | | |
| DR6106 | Enterprise | WDE4360-0003 4.3GB | 4.3GB | £215 | (£252.63) |
| DR6110 | Enterprise (W) | WDE4360-00074.3GB | 4.3GB | £219 | (£257.33) |
| DR8020 | Enterprise | WDE9100-0003 9.1GB | 9.1GB | £285 | (£334.88) |
| DR7975 | Enterprise (W) | WDE9100-00079.1GB | 9.1GB | £285 | (£334.88) |
| DR9664 | Enterprise | WDE18300-004818.3GB | 18.3GB | £665 | (£781.38) |



| Item | Model | Part Number | Capacity | Price | Inc VAT |
|------------|--------------|-------------|----------|-------|-----------|
| IBM | | | | | |
| 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) |
| DR8663 | 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) |



| Item | Model | Part Number | Capacity | Price | Inc VAT |
|------------|--------------------|-------------|----------|-------|-----------|
| IBM | | | | | |
| DR6958 | 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) |

SYSTEM UPGRADE HIGHLIGHTS

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- Boost your PC to 200MHz
- Upgrades P75, 90, 100, 133, 150 and 166MHz
- 64K Write-back cache
- Includes high performance BIOS upgrade
- Lifetime Warranty

Doubles the performance of Windows® 98

EVERGREEN technologies

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ONLY **£139** (£163.33) EX7250

- 32-bit PCI-to-Ultra SCSI host adapter
- SCSI transfer rate up to 20MB/Sec
- Supports up to seven devices

Adaptec

EASY CD CREATOR 3.5

ONLY **£59** (£69.33) EX9434

- Create your own data, audio, video and multimedia CDs
- PhotoRelay for creation of CDs with digital content
- Enhanced Spin Doctor with Sound Morph technology
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Adaptec

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* See page 32 for Terms & Conditions

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| ME7419: Maxell DLT III TK85 | £23.95 (€28.14) |
| ME7591: Maxell DLT III XT TK87 | £25.95 (€30.49) |
| ME7954: Sony DLT III XT TK87 | £28.95 (€34.01) |
| ME7590: Quantum DLT III XT TK87 | £34.95 (€41.07) |
| ME7020: HP DLT III XT TK87 | £35.95 (€42.24) |
| ME7080: Fuji DLT IV TK88 | £60.95 (€71.61) |
| ME7823: Quantum DLT IV TK88 | £61.95 (€72.79) |
| ME7021: HP DLT IV | £67.95 (€79.84) |



HP STORAGE SOLUTIONS

HP Colorado 8GB

HP Surestore CD-Writer 8100i

Great software included
Adaptec Direct CD/Easy CD,
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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

- Store up to 8GB (compressed capacity)
- Includes Colorado Backup by Computer Associates for Windows 95, Windows and DOS

- 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

| | |
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| DR8149 Colorado 8GB Internal IDE | £149 (€175.08) |
| DR9739 Colorado 8GB External Parallel | £175 (€205.63) |
| DR9517 Colorado 5GB External Parallel | £145 (€170.38) |
| DR7763 Colorado T3000 3.2GB Internal | £99 (€116.33) |

* via compression * speeds may vary according to PC

HP SURESTORE T20 i/e



- Up to 20GB compressed capacity
- Uses TR-5 cartridge
- Includes Replica Backup (Win NT Server), Colorado Back Up II (Win NT W/Stn) and Back up and disaster recovery for W95, 98 and NT
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Whether your concern is backing up and restoring data for single users on a desktop or portable PCs, or thousands of users working off centralised servers, HP Surestore has a system that will meet your needs for protection against catastrophic data loss.

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| DR9514 2/4GB DAT External SCSI | £389 (€457.08) |
| DR9513 4/8GB DAT Internal SCSI | £479 (€562.83) |
| DR9512 4/8GB DAT External SCSI | £549 (€645.08) |
| DR9511 12/24GB DAT Internal SCSI | £675 (€793.13) |
| DR9510 12/24GB DAT External SCSI | £749 (€880.08) |

From **£389** (€1457.08) Item # DR9514

CDR & CDRW



| CDR | | | | | |
|---------|----------|-------|-------|----------------------|--|
| 220720 | Maxell | 74min | 650MB | £1.40 (€1.65) | |
| ME6399 | Sony | 74min | 650MB | £1.45 (€1.70) | |
| ME7399 | TDK | 74min | 650MB | £1.60 (€1.88) | |
| 6005043 | Verbatim | 74min | 650MB | £1.45 (€1.70) | |
| ME7889 | HP | 74min | 650MB | £1.85 (€2.17) | |

| CDRW | | | | | |
|--------|----------|-------|-------|------------------------|--|
| ME7724 | Maxell | 74min | 650MB | £11.45 (€13.45) | |
| ME7723 | Sony | 74min | 650MB | £11.45 (€13.45) | |
| ME7661 | TDK | 74min | 650MB | £10.95 (€12.86) | |
| ME7350 | Verbatim | 74min | 650MB | £10.95 (€12.86) | |
| ME7858 | HP | 74min | 650MB | £11.95 (€14.04) | |

DATA CARTRIDGES



| DATA CARTRIDGES | | | |
|-----------------|-------------------|--------------|------------------------|
| 236597 | Sony QTR1 | 8MB Travan | £10.75 (€12.63) |
| ME6601 | Sony QTR3 | 3.2GB Travan | £14.45 (€16.97) |
| ME6936 | Sony QTR4 | 8.0GB Travan | £19.25 (€22.62) |
| 99329 | Verbatim DC2120 | QIC80 | £4.50 (€5.29) |
| 54373 | Verbatim DC2120XL | QIC80 | £6.95 (€8.17) |
| EURME1357 | Verbatim MC3010XL | QIC3010 | £14.45 (€16.98) |
| 236684 | Verbatim ME3020XL | QIC3020 | £15.95 (€18.74) |
| 220920 | Imation | Travan TR1 | £12.45 (€14.63) |
| ME7701 | Imation | Travan 5GB | £19.95 (€23.44) |
| 62160 | Imation | Travan 1.0 | £22.95 (€26.97) |

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- Upgradeable to 10Base2
- GSM and ISDN ready via optional upgrades
- Globally approved
- Supports all common Ethernet standards and most common operating systems

Gold Card Global Series

- High speed global modem - 56kbps and 33.6 (V34) versions
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Gold Card GSM Upgrades

- Manufactured with the co-operation and support of the major phone manufacturers including: Nokia, Ericsson and Motorola
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|---------|--------------------------------------|---------|-----------|
| DEC3316 | Global Card NetGlobal 56k + 10Mb | £179.00 | (£210.33) |
| DEC3314 | Gold Card NetGlobal 10Mb | £67.99 | (£79.89) |
| DEC3315 | Gold Card NetGlobal 10/100Mb | £99.95 | (£117.45) |
| DEC3328 | Gold Card NetGlobal Cardbus 10/100Mb | £99.95 | (£117.45) |
| DMD2964 | Gold Card Global 56K+Fax | £149.00 | (£175.08) |
| DMD2578 | Gold Card Global V.34+Fax | £149.00 | (£175.08) |
| DMD2583 | GSM Nokia 2110 Upgrade | £89.00 | (£104.58) |
| DMD2585 | GSM Nokia 8110 Upgrade | £89.00 | (£104.58) |
| DMD3605 | GSM Nokia 6110 Upgrade | £89.00 | (£104.58) |
| DMD3706 | GSM Ericsson 300 Upgrade | £89.00 | (£104.58) |
| DMD3753 | GSM Ericsson 600/700 Upgrade | £89.00 | (£104.58) |
| DMD3995 | GSM Motorola Upgrade | £89.00 | (£104.58) |
| DMD3723 | Gold Card 56K + ISDN | £269.99 | (£317.99) |
| DMD3680 | ISDN Upgrade Kit | £139.99 | (£164.49) |

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(£233.83)
Based on Spk price
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|---------|--|---------|------------|
| DMD3563 | RealPort Ethernet 10/100 + modem 56 | £209.00 | (£245.58) |
| DMD3795 | RealPort Ethernet 10/100 5 pack | £966.00 | (£1169.13) |
| DMD3796 | RealPort Ethernet 10Mbps + Modem 56K | £179.00 | (£210.33) |
| DMD3797 | RealPort Ethernet 10/100Mbps | £99.00 | (£104.58) |
| DMD3798 | RealPort Modem 56K GlobalACCESS | £119.00 | (£139.83) |
| DCA4693 | RealPort GSM Connection Kit for Ericsson 688/788 | £99.00 | (£119.83) |
| DCA4694 | RealPort GSM Connection Kit for Nokia 3110/8110 | £99.00 | (£119.83) |

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ONLY
£169
(£198.58)
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Hayes ACCURA ISDN Terminal Adapter in association with BT

- BTHighway compatible - use your existing phone line for super fast digital Internet access and the use of your phone at the same time
- Multilink PPP for up to 128K bit/s throughput
- Standard EuroISDN interface
- Two analogue ports
- Rate adaptation support (V.110/V.120)
- AutoAnswer routes call to the highest possible connection

Hayes OPTIMA V.90 Global PC Card

- Fast Internet access for connections around the world
- GSM and ISDN ready
- Data/FAX discrimination
- Flash ROM upgradeable

Hayes Accura V.90 56K



ACCURA
V.90 56K FROM
£79
(£92.83)
Item # DMD2425

- 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



| | | | |
|---------|-----------------------------------|---------|-----------|
| DMD2424 | Accura V.90 56K Internal | £79.00 | (£92.83) |
| DMD3098 | MSN V.90 56K Internal | £89.00 | (£104.58) |
| DMD2425 | Accura V.90 56K External | £79.00 | (£92.83) |
| DMD3099 | MSN V.90 56K External | £94.99 | (£111.61) |
| DMD2531 | Accura 336 PC Card | £86.00 | (£101.05) |
| 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 | £149.00 | (£175.08) |
| MM4051 | Accura ISDN TA | £169.00 | (£198.58) |
| DMD3775 | Optima V.90 56k Business External | £169.00 | (£198.58) |
| DMD3989 | Hayes/BT V.90 Internet Kit | £99.00 | (£116.33) |

PAGE 56 VOICE MODEMS



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EXTERNAL VOICE
ONLY
£99
(£116.33)
DMD3556

- 56Kbps voice/fax/data external, internal or PC Card modem
- Award winning 56k V90 modems!
- Voicemail, fax mail & email
- Flash upgradeable to future standards
- Remote access for message collection

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|---------|-------------------------------|------|-----------|
| DMD3555 | Pace Modem 56K External Voice | £99 | (£116.33) |
| DMD3556 | Pace Modem 56K Internal Voice | £89 | (£104.58) |
| DMD3557 | Pace Modem 56K PC/MCIA | £99 | (£116.33) |
| DMD3681 | Pace 56K Solo External Modem | £135 | (£158.63) |

TDK GLOBAL FREEDOM 5660 56K FAX/MODEM PC CARD



ONLY
£159
(£198.58)
DMD3212

- 56K Global class modem
- Over 80 country approvals
- K56 flex technology flash upgradeable to v.90
- GSM ready

| | | | |
|---------|--------------------------------|------|-----------|
| DMD3212 | TDK 5660 Fax/Modem PC/MCIA | £159 | (£198.58) |
| DEC3023 | TDK Nokia 2110 GSM Upgrade Kit | £99 | (£116.33) |

* See page 32 for Terms & Conditions

MODEMS/NETWORKING



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Online Any Time, Any Place for Everyone
The 3Com U.S. Robotics 56K Fax-modem offers high-speed online access, for increased productivity and enhanced Internet experience

Ask for item # DMD4037

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Only **£109** (£128.08)

The New 3Com PC Card gives you reliable, hassle-free connections around the world with download speeds up to 56Kbps using x2™ technology. Approved for use in over 250 countries and regions.

Ask for item # DMD3832

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- Reliable, hassle-free, standards-based access and high-speed downloads anytime, anywhere
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- New 4 Port Kit
- Contains everything you need to connect 2 PCs plus room to connect 12 more

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FROM ONLY **£109⁹⁵** (£129.19)
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56K* Voice Faxmodem

56K* Faxmodem with Personal Voice Mail

The Voice Faxmodem provides fax, e-mail and personal voice mail facilities all in one compact unit with the feature of 56Kbps* V.90 ITU standard and x2™ technology. Multiple voice mailboxes (up to 1000) allow each person in your home or office to retrieve and listen to messages and even access them remotely.

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| DMD3587 | 56K* Professional Message Modem | £109.95 | (£129.19) |
| DMD3573 | 3Com 56K* Voice Faxmodem Ext | £69.95 | (£84.19) |
| DMD3442 | Speakerless Flash 56K* Internal | £67.95 | (£79.84) |
| DMD3832 | 3Com 56K* Message Modem | £67.95 | (£81.34) |
| DMD3151 | Speakerless 56K* PC Card 33.6 (V.90) | £69.95 | (£82.19) |
| DMD3611 | Speakerless 56K* Internal Winmodem | £54.95 | (£64.57) |
| DMD3129 | Speakerless ISDN TA External | £99.00 | (£116.53) |
| DF4937-S | Cremer V34 33.6 External | £185.00 | (£217.38) |
| DMD3116 | Cremer V34 33.6 Internal | £119.00 | (£139.83) |
| MM3894 | Cremer V34 V34 External | £239.00 | (£280.83) |
| MM3893 | Cremer V34 V34 Internal | £239.00 | (£280.83) |
| DMD3832 | 3Com Megahertz 56K* Global PCMCIA Modem | £109.00 | (£128.08) |



* All 56K products are capable of download speeds up to 56Kbps, however due to varying line conditions, the actual download speeds may be lower. Requires connection to an analogue telephone line which is compatible with 56K technology.

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| 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! | £159 | (£186.83) |
| DEH3227 | OfficeConnect Hub TP400 4 100BTX Ports | £59 | (£69.33) |

| 3Com Part # | 1 Single | 5 Pack | 20 Pack |
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| 3C5098TPO | DEC1473 | DEC1474 | DEC1475 |
| EtherLink III UTP only | £30.99 (36.41) | £145.99 (171.54) | £535.99 (629.79) |
| 3C5098TBP | DEC1470 | DEC1471 | DEC1472 |
| EtherLink III UTP/AUI | £57.99 (68.14) | £242.99 (285.51) | £869.99 (1022.24) |
| 3C5098 Combo | DEC1477 | DEC1478 | DEC1479 |
| EtherLink III Combo | £64.99 (76.36) | £284.99 (334.86) | £1049.00 (1232.58) |
| 3C5098TBC | DEC2425 | DEC2426 | DEC2427 |
| EtherLink III BNC/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) |
| 3C589D-TP | DEC1481 | DEC2858 | DEC3004 |
| EtherLink III LAN PC Card TP | £71.99 (84.59) | £353.99 (415.94) | £1359.00 (1596.83) |
| 3C589D-Combo | DEC1483 | DEC2522 | DEC2551 |
| EtherLink III LAN PC Card Combo | £97.99 (115.14) | £479.00 (562.83) | £1889.00 (2219.58) |

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- DEH4153 USB Hub with Ethernet £85 (£99.88)
- DEH4151 4 Port MultiFunction Hub £97 (£113.98)



NEW 4 PORT USB HUB ONLY £51 (£61.08) Item # DEH3994

- DAD1565 USB to Parallel Converter (printer only) £34 (£39.95)
- DAD1583 USB to Serial Converter (any serial) £51 (£61.08)
- DCA4740 0.5mm USB Cable A-B £5 (£5.88)
- DCA4739 1.0mm USB Cable A-B £6 (£7.05)
- DCA4738 2.0mm USB Cable A-B £7 (£8.23)
- DCA4737 5.0mm USB Cable A-B £9 (£10.58)

CABLES

| Description | Length | Order No. | Price | Inc Vat |
|---------------------------------------|--------|-----------|--------|----------|
| SCSI CABLES | | | | |
| SCSI I - I | | | | |
| Centronics 50 (M) - Centronics 50 (M) | 0.5m | ACC1298 | £6.95 | (£8.17) |
| Centronics 50 (M) - Centronics 50 (M) | 1.0m | EURAC3670 | £9.95 | (£11.69) |
| Centronics 50 (M) - Centronics 50 (M) | 2.0m | EURAC3697 | £10.95 | (£12.87) |
| Centronics 50 (M) - Centronics 50 (M) | 3.0m | EURAC3671 | £15.95 | (£18.75) |
| 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 | (£10.61) |
| Centronics 50 (M) - DB25 (M) | 2.0m | EURAC3674 | £19.95 | (£23.44) |

| | | | | |
|---|------|-----------|--------|----------|
| SCSI II - I | | | | |
| 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 | DCA2550 | £29.95 | (£35.19) |
| SCSI II - II | | | | |
| 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 | £29.95 | (£35.19) |
| Mini - 50 SCSI II (M) - Mini - 50 SCSI II (M) | 3.0m | DCA2648 | £35.95 | (£42.24) |

| Description | Order No. | Price | (Inc VAT) |
|--------------------------------------|-----------|--------|-----------|
| USB CABLES | | | |
| USB cable, plug A to plug B, 2 metre | DCA3746 | £5.79 | (£5.80) |
| USB cable, plug A to plug B, 3 metre | DCA3125 | £5.49 | (£7.63) |
| USB cable, plug A to plug B, 5 metre | DCA3745 | £7.59 | (£10.08) |
| USB cable, plug A to plug A, 2 metre | DCA3749 | £6.95 | (£9.17) |
| USB cable, plug A to plug A, 3 metre | DCA3130 | £7.95 | (£9.94) |
| USB cable, plug A to plug A, 5 metre | DCA3748 | £12.95 | (£15.21) |
| USB Hub (4 ports) | DEH3906 | £49.95 | (£58.69) |
| USB to Parallel Adapter | DAD1563 | £38.99 | (£46.99) |

| Length | Price Each | Order No. | Price 10+ | (Inc VAT) | Gray |
|-----------------------------------|------------|-----------|-----------|-----------|---------|
| CATS SHIELDED PATCH CABLES | | | | | |
| 0.5m | £3.89 | (£4.57) | £32.99 | (£38.76) | DCA4645 |
| 1m | £4.29 | (£5.04) | £36.49 | (£42.88) | DCA3956 |
| 2m | £4.69 | (£5.51) | £38.99 | (£46.99) | DCA4040 |
| 3m | £5.49 | (£6.43) | £46.99 | (£55.21) | DCA2240 |
| 5m | £5.99 | (£7.00) | £49.99 | (£58.74) | DCA4650 |
| 10m | £8.99 | (£10.56) | £78.99 | (£93.46) | 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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| IEEE BIDIRECTIONAL PRINTER CABLES | | | |
| A-B DB25-C36 Cable | | | |
| 2m | DCA3963 | £3.40 | (£4.10) |
| 3.0m | DCA3969 | £4.99 | (£5.86) |
| 5m | DCA3870 | £7.99 | (£9.39) |
| A-C DB25-Mini C36 Cable | | | |
| 2m | DCA3871 | £5.99 | (£7.09) |
| 3.0m | DCA3872 | £7.49 | (£8.80) |
| 5m | DCA3915 | £10.49 | (£12.32) |
| A-A DB25-DB25 Cable | | | |
| 2m | DCA3811 | £3.40 | (£4.10) |
| 3.0m | DCA3812 | £4.99 | (£5.86) |
| 5m | DCA3867 | £7.99 | (£9.39) |

| Cable connector | Length (m) | Order No. | Price | (Inc VAT) |
|-------------------------------------|------------|-----------|-------|-----------|
| SERIAL CABLE (FOIL-SHIELDED) | | | | |
| DB25F/DB25M | 2 | DCA0002 | £2.49 | (£2.93) |
| DB25M/DB25M | 2 | DCA0006 | £1.99 | (£2.39) |
| DB25M/DB25M | 3 | DCA0007 | £2.99 | (£3.51) |
| DB9F/DB25M | 2 | EURAC2256 | £2.45 | (£2.93) |
| DB9F/DB25M | 5 | EURAC2258 | £4.49 | (£5.28) |

| Order No. | Description | Price | (Inc VAT) |
|---------------------------|-----------------------|-------|-----------|
| PC TO MAINS CABLES | | | |
| DCA2205 | Cable for 3.5" Floppy | £1.29 | (£1.52) |
| DCA2184 | Power Supply Y Cable | £1.29 | (£1.52) |
| DCA2183 | Extension Cable | £1.29 | (£1.52) |

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| PC to Mains Cables | | | |
| DCA3823 | IEC-Mains Cable 2m | £2.09 | (£2.46) |
| DCA4082 | IEC-Mains Cable 3m | £3.29 | (£3.87) |
| DCA4084 | IEC-Mains Cable 6m | £5.59 | (£7.74) |

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| IEC M-F Mains Cables | | | |
| DCA2900 | IEC M-F 2m | £2.09 | (£2.46) |
| DCA4085 | IEC M-F 3m | £3.29 | (£3.87) |
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| DCA3914 | w/4 x IDC 50s-45cm | £2.75 | (£3.28) |
| DCA3918 | w/5 x IDC 50s-45cm | £3.95 | (£4.64) |
| DCA3971 | w/6 x IDC 50s-45cm | £4.99 | (£5.86) |

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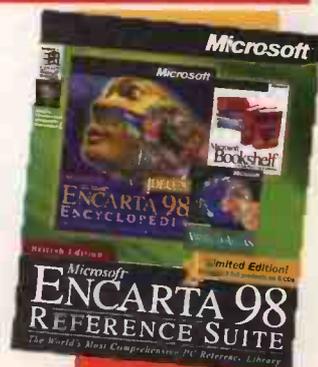
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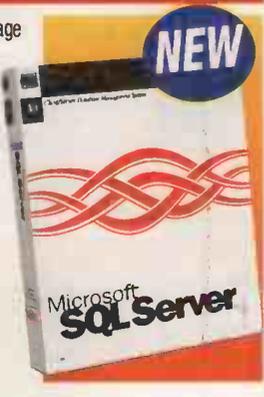
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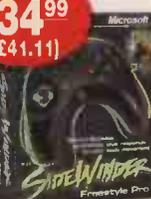


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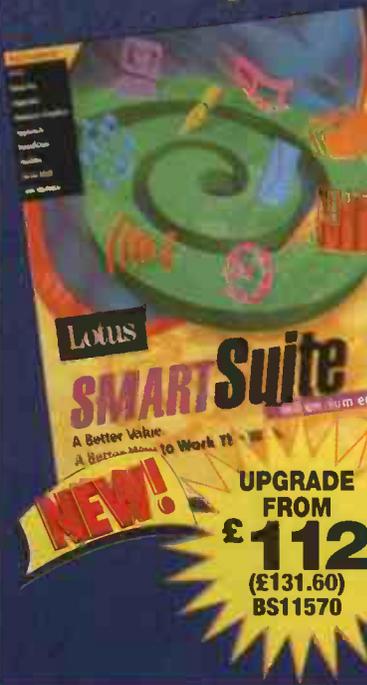
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1. Press "Record" button and speak into the recorder's built-in microphone.
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3. Select which recordings you want transferred to the PC.
4. Press "Transcribe" and your recorded speech appears as text on your screen and in your document.

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SOFTWARE HIGHLIGHTS

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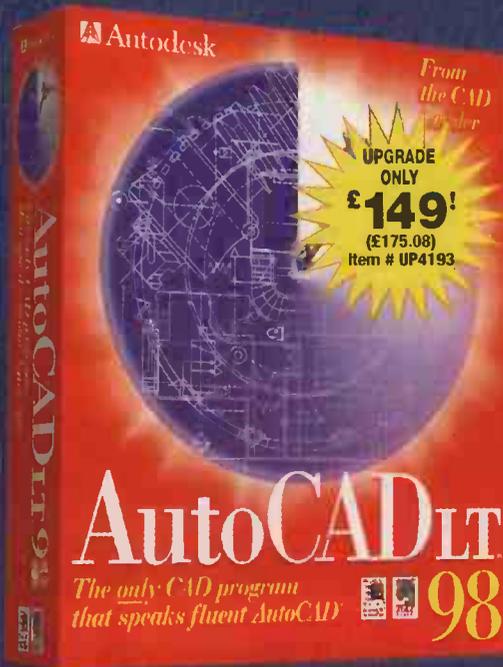


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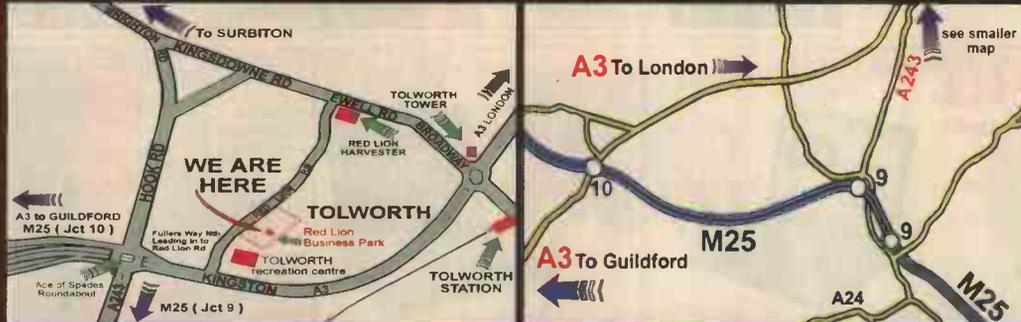
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| PalmPilot Personal | £108 | £126.90 |
| PalmPilot Professional | £137 | £160.97 |
| PalmPilot III | £199 | £233.82 |

Carry Cases

Trans

| | | |
|-----------------------|-----|--------|
| Air Universal | £59 | £69.32 |
| Digital Camera | £29 | £34.07 |
| FolioPac 3 | £31 | £36.42 |
| Leather Wallet | £18 | £21.15 |
| Leather Mini Notebook | £28 | £32.90 |
| Leather Notebook | £68 | £79.90 |
| Leather Organiser | £34 | £39.95 |
| Leather Portfolio | £48 | £56.40 |
| NotePac | £19 | £22.32 |
| NotePac Plus | £48 | £56.40 |
| Pilot | £84 | £98.70 |
| Universal Notebook | £48 | £56.40 |
| Universal Deluxe | £68 | £79.90 |

Accessories

Xircom

| | | |
|-----------------------------------|------|---------|
| RealPort 10/100 + Modem 56 PCCard | £195 | £226.32 |
| CEM56-100BTX | £185 | £216.32 |
| CE3-100BTX | £94 | £111.32 |
| CM56 | £135 | £156.32 |

The World Leader in Portable Computing



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- PII 266 MMX, 64 Mb
- 13.3" XGA TFT Colour Screen
- 4.8GB Hard Drive
- Floppy, CD and DVD Drive inc.
- 3 Year WorldWide warranty

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- P266 MMX, 32Mb
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- Fixed 20x CD & Floppy drives
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- 1 Year WorldWide warranty

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£1949.32 inc vat



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| | | | | | |
|----------------|-------|----------|-----------------|-------|----------|
| Sat 310CDS | £829 | £974.07 | Sat Pro 480CDT | £1239 | £1455.82 |
| Sat 310CDT | £995 | £1169.12 | Sat Pro 490CDT | £1329 | £1561.57 |
| Sat 4000CDS | £995 | £1169.12 | Sat Pro 490XCDT | £1489 | £1749.57 |
| Sat 4000CDT | £1159 | £1361.82 | Portege 7010CT | £1899 | £2231.32 |
| Portege 3010CT | £1329 | £1561.57 | Tecra 8000-A | £1329 | £1561.57 |
| Libretto 70CT | £829 | £974.07 | Tecra 8000-B | £1489 | £1749.57 |
| Libretto 110CT | £1239 | £1455.82 | Tecra 8000-C | £1989 | £2337.07 |
| Sat 4010CDS | £1159 | £1361.82 | Tecra 8000-D | £2245 | £2637.87 |
| Sat 4010CDT | £1329 | £1561.57 | Tecra 8000-E | £2659 | £3124.32 |

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.

- Pentium II 233 Model**
- PII 233MHz, 32Mb SDRAM, 4GB Hard drive
 - 12.1" GTFT XGA
 - 24x CD-ROM standard (optional DVD-ROM drive)
 - Optional 2nd Li-Ion battery
 - Optional 56K flex 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.

- Pentium II 300 Model**
- PII 300MHz, 64Mb SDRAM, 6.4GB Hard drive
 - 14.1" GTFT XGA
 - 24x CD-ROM standard
 - Integrated 56K modem
 - Network connection integrated 10/100Mb/s
 - MS Windows 95



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.

- Pentium III 266 Model**
- PII 266MHz, 64Mb SDRAM, 5GB Hard drive
 - 13.3" GTFT 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

Armada 56 Series

| | | |
|---------------------|-------|----------|
| P233MMX 4.0 32 13.3 | £1139 | £1338.32 |
|---------------------|-------|----------|

Armada 1700 Series

| | | |
|-----------------------|-------|----------|
| PII233MHz 4.0 32 12.1 | £1149 | £1350.07 |
| PII233MHz 4.0 32 12.1 | £1149 | £1350.07 |
| PII266MHz 4.0 32 13.3 | £1499 | £1761.32 |
| PII300MHz 5.0 32 14.1 | £1849 | £2172.57 |

Armada 2000 Series

| | | |
|-----------------------|-------|----------|
| PII266MHz 4.1 32 12.1 | £1629 | £1914.07 |
| PII266MHz with NT 4 | £1675 | £1968.12 |
| PII300MHz 6.4 64 13.3 | £2119 | £2489.82 |
| PII300MHz with NT 4 | £2159 | £2536.82 |

Armada 6500 Series

| | | |
|-----------------------|-------|----------|
| PII300MHz 6.4 64 14.1 | £2689 | £3159.57 |
| PII300MHz with NT 4 | £2739 | £3218.32 |

Armada 7400 Series

| | | |
|-----------------------|-------|----------|
| PII266MHz with NT 4 | £2119 | £2489.82 |
| PII300MHz 6.4 64 13.3 | £2475 | £2908.12 |
| PII300MHz with NT 4 | £2559 | £3006.82 |

Armada 7800 Series

| | | |
|------------------------|-------|----------|
| PII 266MHz 5.0 64 13.3 | £2029 | £2384.07 |
| PII 266MHz 5.0 64 13.3 | £2075 | £2438.12 |
| PII 266MHz 8.0 64 14.1 | £2385 | £2802.37 |
| PII 266MHz 8.0 64 14.1 | £2425 | £2849.37 |
| PII 300MHz 8.0 64 14.1 | £2649 | £3112.57 |
| PII 300MHz 8.0 64 14.1 | £2689 | £3159.57 |

UMAX NOTEBOOKS

UMAX have a strong background in the computer industry, and the new ActionBook series of notebooks have been designed specifically for power users in consumer, SOHO and mainstream corporate markets whilst maintaining UMAX's reputation for quality products at exceptional prices.

ActionBook 330T: is the most advanced "all-in-one" solution available for multimedia applications. Whether it's for business or pleasure, 330T gives you the performance you need to get your work done fast and play hard. Everything is built-in and ready to use. Just charge it up and go!

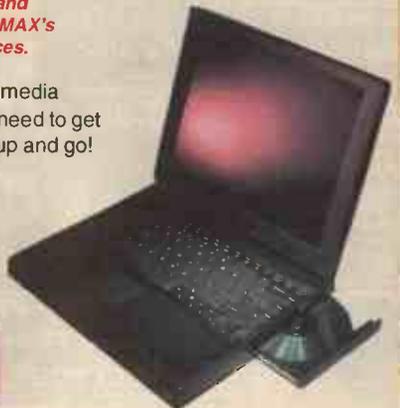
- 300MHz AMD-K6 2 Processor with 3D Now!
- 12.1" SVGA TFT Active Matrix Colour Display (800 x 600 resolution)
- 32Mb Memory, 2Mb Video RAM
- 4.0GB Hard Disk Drive
- 24X CD-ROM Drive
- Built-in 3D Audio with Microphone and Stereo Speakers
- Interface: USB Port, Serial Port, PS/2 Type Port, VGA Port, IR Port, Audio Out, Microphone In
- Ni-MH Battery pack
- Windows 98
- UMAX carrying Bag

UMAX ActionBook 330T
£899 ex vat
£1056.32 inc vat

Accessories:

| | | |
|----------------------|------|------|
| 32Mb upgrade | Call | Call |
| 64Mb upgrade | Call | Call |
| PCMCIA 56k Fax Modem | Call | Call |

ActionBook



Acer A fresh perspective.



TravelMate 310 from
£749 ex vat
£880.07 inc vat



Extensa 500 from
£899 ex vat
£1056.32 inc vat



Extensa 710 from
£1299 ex vat
£1526.32 inc vat

The TravelMate 310 series notebooks are under half the size and half the weight of conventional notebooks with all the features and 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

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

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 resolution (TE)

| | | | | | | | |
|-------|--|-------|----------|--------|--|-------|----------|
| 312T | P233MMX 32MB 3.2GB ext 24x max 8.4TFT 56K | £1149 | £1350.07 | 501T | P266MMX 32MB 3.2GB 20x max 12.1TFT 56K | £1099 | £1291.32 |
| 312D | P233MMX 32MB 3.2GB 8.0DSTN 56K | £749 | £880.07 | 710T | PII 233 32MB 3.2GB 24x max 12.1TFT 56K | £1299 | £1526.32 |
| 312DC | P233MMX 32MB 3.2GB ext 24x max 8.0DSN 56K | £849 | £997.57 | 710TE | PII 233 32MB 4.0GB 24x max 13.3TFT 56K | £1499 | £1761.32 |
| 313T | P266MMX 32MB 3.2GB ext 24x max 8.4TFT 56K | £1199 | £1408.82 | 711TE | PII 266 64MB 4.0GB 24x max 13.3TFT 56K | £1599 | £1878.82 |
| 500DX | P233MMX 32MB 2.1GB 20x max 12.1HPA DSN 56K | £899 | £1056.32 | 712TE | PII 300 64MB 6.0GB 24x max 13.3TFT 56K | £1975 | £2320.62 |
| 500T | P233MMX 32MB 3.2GB 20x max 12.1TFT 56K | £999 | £1173.82 | 712TEV | PII 300 64MB 6.0GB 2x DVD/MPEG11 13.3TFT 56K | £2199 | £2583.82 |



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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 98 Pre-loaded & on CD
- 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
- 80Mb SDRAM (Upgradeable)
- 512Kb Level 2 Cache
- 4.1GB 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 98 Pre-loaded & on CD
- Lotus Smartsuite Software bundle
- International AC Adapter
- Deluxe Carry Case
- 1 Year Worldwide Warranty (Courier Collect & Return)

PHOTON PII AGP

- Intel Mobile Module Processor with Pentium II
- Intel Triton 44313 X Chipset - PCI Bus
- 14.1" XGA (1024 x 768) TFT Display
- 64Mb SDRAM (Upgradeable to 96Mb)
- 512Kb Level 2 Cache
- 4.1GB Toshiba E-IDE Hard Drive (Upgradeable)
- 20 x CD-ROM & 1.44Mb Floppy Drive / 2x DVD
- Neomagic 2Mb AGP video card
- 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 98 Pre-loaded & on CD
- 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
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14 Day Money Back Guarantee

| | ex vat | inc vat | ex vat | inc vat |
|--------------------------|--------|----------|--------|----------|
| NEUTRON PII | | | | |
| P266 MMO | £1299 | £1526.32 | £1499 | £1761.32 |
| P300 MMO | £1399 | £1643.82 | £1549 | £1820.07 |
| NEUTRON MMO RANGE | | | | |
| P266 MMO | £1049 | £1232.57 | | |
| PHOTON PII RANGE | | | | |
| P266 MMO | £1699 | £1996.32 | | |
| P300 MMO | £1799 | £2113.82 | | |

Call now to find out about the new XENON PII 15.1" TFT

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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.
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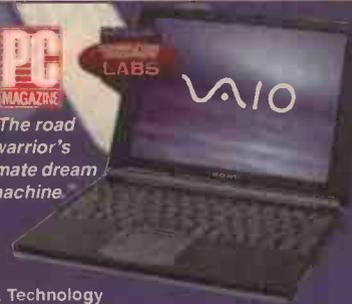
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The 700 Series

- Pentium 266 MHz with MMX Technology
- 32-128Mb SDRAM
- 3.2GB/4.3GB 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 505 Series - The World's Thinnest Notebook

- Pentium 266 MHz with MMX Technology
- 32-96Mb SDRAM
- 4.3GB Hard Drive
- 10.4" TFT Colour display (800 x 600 dpi)
- External CD-ROM drive / Floppy drive (505fx-tx only)
- Built-in 56K/ GSM ready/ ISDN ready/ Ethernet ready fax Modem
- Cables required for above: GSM £75 + vat, ISDN £89 + vat. (505fx-tx only)
- 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 745 | 266MHz P/MMX | 32/128Mb | 3.2GB | YES | 12.1" HPA | 56K | £1075 | £1263.12 |
| VAIO 747 | 266MHz P/MMX | 32/128Mb | 4.3GB | YES | 12.1" TFT | 56K | £1299 | £1526.32 |
| VAIO 505fx-tx | 266MHz P/MMX | 32/96Mb | 4.3GB | Ext | 10.4" TFT | 56K | £1825 | £2144.37 |
| VAIO 505fx-lite | 266MHz P/MMX | 32/96Mb | 4.3GB | NO | 10.4" TFT | NO | £1499 | £1761.32 |

Optional CD ROM Drive/Optional Purple Mouse/Optional 64Mb RAM Available Please Call for details.

SHARP

- Pentium 266MMX
- 64Mb RAM
- 4.3GB Hard Drive
- 11.3" active matrix LCD
- Dimensions: 259 x 206 x 21.2mm
- USB port, VGA monitor port, & an expansion Bus (Included) for a combined FDD, serial, printer and mouse/keyboard port.

SHARP ULTRALITE NOTEBOOKS

| | | |
|---|-------|----------|
| PCA 150 Ultra Lite Notebook excluding CD player | £1699 | £1996.32 |
| PCA 150 as above plus PCMCIA CD player | £1799 | £2113.82 |
| PCA 100 as above except P233 3.2HD no CD | £1599 | £1878.82 |
| PCA 100B as above except P233 3.2HD with CD | £1699 | £1996.32 |

The PC-A150 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 266MHz Pentium processor with MMX technology, give users a full-featured, mobile computing solution, in a very lightweight & compact package. The PC-A150 includes a revolutionary Sharp 11.3" SVGA TFT LCD screen. The screen, which shows more than 16.7 million 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 4.3GB 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, 3 year RTB Europe & 1 year RTB International.



HC-4600A

- 16Mb RAM
- 6.5" Colour screen
- 410g weight
- NiMH battery
- Touch screen with pen
- 1 Type II PCMCIA slot
- 32Mb Version £479 + vat



SHARP HC-4600A

£429ex vat
£504.07 inc vat



CE-AG404
PCMCIA Digital camera £275+vat

olivetti

COMPUTERS WORLDWIDE

TFT for just £849 ex vat

Olivetti have taken the initiative to engineer the floppy drive & CD ROM drive together into each notebook, eliminating the need to carry around additional bulky accessories. With TFT screens from just £849 ex vat and a TFT screen a comprehensive range you are sure to find a notebook to fulfil your every need.

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.

| | | |
|--|------|----------|
| 1200 200MMX 12.1" TFT 2.0GB 20X 32MB 2MBVRAM | £849 | £997.57 |
| P26S 266MMX 12.1" TFT 2.1GB 24X 32MB 2MBVRAM | £999 | £1173.82 |

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.



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.

| | | |
|--|-------|----------|
| 323S PII233 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 |

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 (upgradable to 16.2Gb with a second 8.1Gb hard disk drive), up to 128Mb standard high-speed SDRAM memory and more.

| Model | Processor | RAM | HD | CD-ROM | Display | Modem | EX VAT | INC VAT |
|-----------|---------------------------------|-------|----------|--------|---------|-------|--------|---------|
| TP380-HGO | PII233 32MB 4.0GB 13" TFT CD | £1549 | £1820.07 | | | | | |
| TP380-JGO | PII300 32MB 4.0GB 13" TFT CD | £1899 | £2231.32 | | | | | |
| TP380-FAO | PII266 32MB 6.0GB 12" TFT | £1799 | £2113.82 | | | | | |
| TP560-900 | PII233 32MB 4.0GB 12" TFT | £1499 | £1761.32 | | | | | |
| TP560-800 | PII300 64MB 6.4GB 12" TFT | £2049 | £2407.57 | | | | | |
| TP600-410 | PII233 32MB 3.2GB 13" TFT CD | £2249 | £2642.57 | | | | | |
| TP600-510 | PII266 32MB 4.0GB 13.3" TFT CD | £2499 | £2936.32 | | | | | |
| TP600-450 | PII300 64MB 5.0GB 13" TFT CD | £2649 | £3112.57 | | | | | |
| TP600-550 | PII300 64MB 6.4GB 13" TFT CD | £2849 | £3347.57 | | | | | |
| TP770-510 | PII266 2MB 5.1GB 14.1" TFT | £2449 | £2877.57 | | | | | |
| TP770-5AO | PII266 64MB 8.1GB 14.1" TFT DVD | £2999 | £3523.82 | | | | | |
| TP770-710 | PII300 64MB 8.0GB 13" TFT DVD | £3199 | £3758.82 | | | | | |
| TP770-7AO | PII300 128MB 8.0GB 13" TFT CD | £3375 | £3965.62 | | | | | |
| TP770-7BO | PII300 128MB 8.0GB 13" TFT DVD | £3349 | £3935.07 | | | | | |



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BABY ZIP

Portable Zip Drive



KEY FEATURES

- Powered directly from computer
- Uses standard Iomega 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

2.1 - 4.2GB ~~£299~~ £186.82
3.2 - 6.4GB ~~£325~~
4.0 - 8.0GB ~~£325~~
6.4 - 12.8GB ~~£325~~

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

Novadisk Software £280.82 | £234.44
Parallel/Power Cables £381.87 | £351.19

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)

£149 | £175.07

EZCD

Portable Drives Parallel Port & PCMCIA

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| EZCD Parallel X24 | £79 | £92.82 |
| EZCD Parallel X32 | £85 | £99.87 |
| EZCD Parallel Sound X24 | £126 | £151.57 |
| EZCD Parallel Sound X32 | £135 | £158.62 |
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| Leather case | £45 | £52.88 |
| Compact Flash 2Mb inc adapter | £59 | £69.33 |
| Compact Flash 4Mb inc adapter | £89 | £104.58 |
| HP 320LX Palmtop PC | £159 | £186.82 |
| HP 360LX Palmtop PC | £339 | £398.32 |
| HP 620LX Palmtop PC | £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!

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| intel | | |
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| Create & Share PCI | £138 | £162.15 |
| ProShare Video Conferencing 200 | £595 | £699.12 |
| ProShare Video System 200 | £839 | £985.82 |
| Kodak | | |
| DVC323 Desktop USB | £125 | £146.87 |
| pace | | |
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DLP LP425 Spec

A TEXAS INSTRUMENTS TECHNOLOGY

- 3.1Kg
- 700 ANSI Lumens
- SVGA (800 x 600)
- Plug & Project
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DLX 650 DPB 1200

- Weight: Lightweight 9.9 pounds
- Brightness: 650 ANSI lumens
- Resolution: XGA
- 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
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New 1200 ANSI lumens model call for details

DL450 Same as above except
 • 500 ANSI lumens
 • SVGA resolution

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HITACHI CP-S830
Multimedia LCD Projector



The CP-S830 is the only ultra compact projector that does not sacrifice the features necessary for use in wide-rangeing presentation situations.

- True resolution 800 x 600 SVGA
- 500 ANSI Lumens
- Remote control with mouse function
- 150W Ultra high brightness
- 2000hr lamp life
- Genesis chip for image resizing
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- Stereo Speakers

HITACHI CPL 850
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XG-NV2E

- 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

XG-NV3XE

- 650 ANSI Lumens (targeted)
- 1.3" Polysilicon active matrix LCD
- Dimensions: 261 x 136.5 x 329mm (main body only)
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FREE!! Demonstration CD ROM - available on request.

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NEW Projector Ultra Bright 1200 ANSI Lumens

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- XGA 1024 x 768 Resolution
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- 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
£6589 ex vat
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NEW EPSON EMP5500

Ultra portable, super slim, high bright, fully featured projector

- True SVGA, supports VGA, XGA
- 650 ANSI Lumens
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 £3700.07 inc vat

NEW EPSON EMP7100

Compact, Light & Ultra Bright

EPSON EMP 7100
£4239 ex vat
 £4980.82 inc vat



- XGA resolution with VGA, SVGA & SXGA support
- Weighs only 6.7kg
- 650 ANSI Lumens
- Advanced connectivity
- Auto Source recognition
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- Stereo speakers

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- SVGA resolution with XGA & VGA support
- Weighs only 6.6kg
- 750 ANSI Lumens
- Multi-connectivity
- Stereo speakers
- Remote control

NEW EPSON EMP5300

Compact, Light & Ultra Bright

EPSON EMP 5300
£3889 ex vat
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- True SVGA resolution with Advanced Image Realtime Resizing technology for high quality VGA, XGA & SXGA display
- Weighs only 6.2kg
- Ultra bright 1200 ANSI Lumens
- Bundled with ELP Link III software
- Ultra High Aperture 1.3" Polysilicon LCD panels with Metal Sandwich Structure

CTX



CTX - Can now offer a comprehensive range of Projectors - for every budget and every application.

| Model | Weight | ANSI | Resolution Lumens | Compression | Lamp Type | Image Size Keystone | LoudSpeaker | Lamp Changer | PC & Mac Compatible | PA/SECAM/NTSC/Composite Video, S-Video | UPS |
|------------|--------|------|-------------------|-------------|----------------------|--------------------------|-------------|--------------|---------------------|--|-----|
| EZ Pro 500 | 4.2Kg | 350 | 640x480 | 800x600 | 400watt halogen | Elevation 20 Keystone 25 | 40-160" | 3watts x 2 | ✓ | ✓ | ✓ |
| | 4.2Kg | 350 | 800x600 | | 400watt halogen | Elevation 20 Keystone 25 | 40-160" | 3watts x 2 | ✓ | ✓ | ✓ |
| | 4.3Kg | 350 | 800x600 | 1024x768 | 250watt metal halide | Elevation 20 Keystone 25 | 40-160" | 3watts x 2 | ✓ | ✓ | ✓ |
| | 5.4Kg | 550 | 800x600 | 1024x768 | | Elevation 20 Keystone 25 | 40-160" | 3watts x 2 | ✓ | ✓ | ✓ |
| | 5.4Kg | 450 | 1024x768 | 1280x1024 | | Elevation 20 Keystone 25 | 40-160" | 3watts x 2 | ✓ | ✓ | ✓ |
| EZ Pro 700 | 5.4Kg | 450 | 1024x768 | 1280x1024 | | Elevation 20 Keystone 25 | 40-160" | 3watts x 2 | ✓ | ✓ | ✓ |

EZPRO 550/585



CTX EZPRO 550
£1425 ex vat
 £1674.37 inc vat

CTX EZPRO 585
£1825 ex vat
 £2144.37 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
£995 ex vat
 £1169.12 inc vat

CTX EZPRO 600
£2249 ex vat
 £2630.82 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
£2689 ex vat
 £3159.57 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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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

SANYO PLC SV15B
£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 2000 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
£3700 ex vat
£4347.50 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.

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| 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.

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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.

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Pioneer

The Largest & Thinnest XGA 50" Plasma Display Panel



- 40" Full Colour Plasma Display
- 16.7 Million Colours
- 150:1 Contrast ratio
- 400 cd/m²
- Composite, RGB, VGA
- Hand-remote and RS-232 control

Pioneer PDR V50
£9495 ex vat
£11156.62 inc vat
Pioneer PDR V401
£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-V425PZW
£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.

OHP Futur 10 More than 11,000 lumens with LCD projection

SVGA LCD Panel
£999 ex vat
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ProScreen 4650
Portable Multimedia Projector

- 850 ANSI lumens
- Philips LIMESCO™ (Line Memory Scan Converter) for full automatic MultiScan data input handling, VGA up to SXGA resolutions without information loss
- Philips UHP Lamp; 120W up to 4000 hour lamp life with "virtually" constant light output for a perfect picture quality
- Full PC control via ergonomic trackball IR Remote Control supports 360 degree control of projector
- Intuitive Graphic User Interface offering: Display and Audio controls, colour point adjustment, 3 personal preference settings, front/rear screen projection (horizontal mirror function).
- Fully Plug and Play compatible (VESA standard DDC 1/2B)
- Line doubling technology for perfect video performance
- Built-in loudspeaker for Multi-Media presentations
- Immediate shut-off-and-go, no cooling down of the UHP lamp
- Total Assurance: Reliability, robust design, First choice 24 hr Global Swap service, Free technical support (freephone).

ProScreen 4750
Portable XGA Multimedia Projector

- 750 ANSI lumens
- Philips LIMESCO™ (Line Memory Scan Converter) for full automatic MultiScan data input handling, VGA (640 x 480) up to SXGA (1280 x 1024) resolutions without information loss
- Philips UHP Lamp; up to 4000 hour lamp life with "virtually" constant light output for a perfect picture quality
- Full PC control via ergonomic trackball IR Remote Control supports 360 degree control of projector, notebook and PC
- Intuitive Graphic User Interface offering: Display and Audio controls, colour point adjustment, 3 personal preference settings, front/rear screen projection (horizontal mirror function).
- Designed for both table top and ceiling mount installation with pre-keystone corrections.
- Fully Plug and Play compatible (VESA standard DDC 1/2B)
- Line doubling technology for perfect video performance
- Built-in loudspeaker for Multi-Media presentations
- Flippable image for rear projection and ceiling/wall mount applications
- Immediate shut-off-and-go, no cooling down of the UHP lamp
- Total Assurance: Reliability, robust design, First choice 24 hr Global Swap service, Free technical support (freephone).

Hopper SV10
Ultra Portable Projector

- 600 ANSI lumens
- Philips LIMESCO™ (Line Memory Scan Converter) for full automatic MultiScan data input handling, VGA up to SXGA resolutions without information loss
- Philips UHP Lamp; 120W up to 4000 hour lamp life with "virtually" constant light output for a perfect picture quality
- Quiet - a quarter of the noise of current projectors
- Manual zoom / focus
- Auto Voltage - automatic world wide compatibility
- Best picture performance - 600 Ansi Lumen, longest brightness over time, 85% picture homogeneity
- Total Assurance: Reliability, robust design, First choice 24 hr Global Swap service, Free technical support (freephone).

£2545 ex vat
£2990.37 inc vat



£3295 ex vat
£3871.62 inc vat



£2395 ex vat
£2814.12 inc vat



PROXIMA®
MULTIMEDIA PROJECTORS



PRO AV DP9310
power, flexibility, and control

Now there's a better way to equip your boardroom, auditorium, training centre, meeting facility, or lecture hall with latest multimedia display capability. It's Proxima's PRO AV DP9300. The DP9300 delivers the brightness and resolution your users will appreciate, with the versatility and affordability to make you and your installation a brilliant success.

- 2100 ANSI lumens makes it ideal for virtually any environment
- True XGA (1024 x 768) resolution with VGA (640 x 480) through SXGA (1280 x 1024) support provides compatibility with all popular workstations, PC's & Macs
- Motorized 1.6:1 zoom lens gives you a wide range of set-up options
- A wide selection of optional lenses offers the utmost flexibility for installation in small and large venues
- Integrated video line doubling means exceptional video quality
- Configurable input and output computer connectors let you customize your projector for seamless integration with your installed cabling
- Power lens shift system offers hassle free vertical image adjustment with automatic keystone correction
- Can be ceiling mounted, rear projected, or placed on a movable cart
- Can be stacked to double or triple the projected brightness for clear images in harsh lighting conditions

£6795 ex vat
£7984.12 inc vat

EIKI

Good contrast and uniformity with excellent video performance. Represents a tremendous improvement over previous plasma displays.

Eiki now offers an improved presentation unit in their new 42" diagonal, Plasma display panel. Designed to be quieter operating, this latest distortion free thin screen, also boasts a brighter picture with whiter whites, blacker blacks and more sophisticated colour.

- 42" diagonal screen size
- 852 x 480 = 408,960 pixel resolution
- 16.7 million colours
- Up to 160°, horizontally and vertically
- Full function remote control
- Digital SVGA compression
- 2 Built-in speakers & 2watts RMS audio amplifier
- Weight 87lbs. (39.5kg), 350 watts power consumption



£5495 ex vat
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Cameras

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| | ePhoto 780 | £245 | £287.87 |
| CASIO | 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 | £189 | £222.07 |
| EPSON | PhotoPC 600 | £286 | £336.05 |
| | PhotoPC 700 | £398 | £467.85 |
| Accessories | PhotoPC 600 AC Adaptor | £49 | £57.57 |
| | PhotoPC 600 4Mb Card | £99 | £116.32 |
| | PhotoPC 600 15Mb Card | £259 | £304.32 |
| FUJIFILM | | | |
| | DX-8 | £148 | £173.90 |
| | DX-9 | £239 | £280.82 |
| | MX-500 | £299 | £351.32 |
| | MX-700 | £398 | £467.85 |
| | DS 300 | £1245 | £1462.87 |
| HEWLETT PACKARD | PhotoSmart | £398 | £467.65 |
| HITACHI | MPEG Video camera | £1425 | £1674.37 |
| JVC | GC-S1 Still Camera | £299 | £351.32 |
| | GR-DVL 9000 Video | £1347 | £1582.72 |
| Konica | Q-M100 | Call | |
| | Q-Mini | Call | |
| | Q-EZ | Call | |
| LG | ArtShot LDC-F25P | Call | |
| MINOLTA | Dimage V | £315 | £370.12 |
| Nikon | CoolPix 100 | £245 | £287.87 |
| | CoolPix 300 | £328 | £385.40 |
| PENTAX | KXL600a | £199 | £233.82 |
| | NV-DCF2 | Call | |
| Panasonic | EI-C90 | Call | |
| Polaroid | PDC-2000 | Call | |
| PRAKTIKA | PD-100 | Call | |
| Premier | DC600 | Call | |
| RICOH | RDC-2E | £499 | £586.32 |
| | RDC-4300 | £399 | £468.82 |
| SANYO | DigCam 210 | £234 | £274.95 |
| | DigCam 250 | £248 | £282.57 |
| | DigCam 300 XGA | £315 | £370.12 |
| | VPC-X300 | £299 | £351.32 |
| | VPC-X350 | £375 | £440.62 |
| Accessories | 200 AC Adaptor | £49 | £57.57 |
| | 300 AC Adaptor | £49 | £57.57 |
| SHARP | VE-LC1 | Call | |
| SONY | DSC-F1 | £369 | £433.57 |
| | DKC-ID1 | £489 | £574.57 |
| Vivitar | VivCam 2500 | Call | |
| | VivCam 3100 | Call | |
| YASHICA | KC600L | Call | |

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

- Rechargeable NiMH battery
- Disposable 2CR5 Lithium battery
- Battery charger/mains adapter
- 8Mb CompactFlash card
- Connecting cables
- Adobe Photoshop Plug-in module

| |
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| Canon A5 |
| £365 ex vat £428.87 inc vat |



PowerShot 600

- Rechargeable NiCad battery
- Battery charger/mains adapter
- Sound recording facility with each image
- Connecting cables
- TWIN driver

| | | |
|---------------|------|---------|
| Powershot 600 | £499 | £586.33 |
| Powershot 350 | £239 | £280.82 |
| Powershot 30T | £199 | £233.82 |



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

| |
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| Canon CanoScan 320P |
| £75 ex vat £88.12 inc vat |



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

| |
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| Canon CanoScan 620P |
| £118 ex vat £139.82 inc vat |



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

| |
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| OLYMPUS C-1400XL |
| £849 ex vat £997.57 inc vat |

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

| |
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| OLYMPUS C-900 |
| £549 ex vat £645.07 inc vat |

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

| |
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| OLYMPUS C-840L |
| £419 ex vat £492.32 inc vat |

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

| |
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| OLYMPUS P330-E |
| £339 ex vat £398.32 inc vat |

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

| |
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| SONY MVC-FD5 |
| £325 ex vat £381.87 inc vat |

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| SONY MVC-FD7 |
| £425 ex vat £499.37 inc vat |

Kodak

The Award Winning DC210 Zoom camera



- True megapixel CCD with 1152 x 864 image resolution
- 4Mb picture card included stores 16 - 60 pictures
- 1.8" TFT colour LCD for picture preview & review
- 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

| |
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| Kodak DC210 |
| £375 ex vat £440.62 inc vat |

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| Kodak DC200 |
| £215 ex vat £252.62 inc vat |

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| DC220 | £345 | £405.37 |
| DC260 | £619 | £727.32 |
| DVC320 | £115 | £135.12 |
| FD 300 | £245 | £287.87 |

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

| | | |
|------|------|---------|
| 8MB | £39 | £45.82 |
| 15MB | £69 | £81.07 |
| 30MB | £99 | £116.32 |
| 45MB | £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 Photron



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 EI-C90
- Ricoh RDC-2, 2E
- Sony DKC-1D1

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| Adapter |
| £9 £10.57 |

External Parallel Port Memory Card Readers

| | | |
|-------------------------|-----|---------|
| Compact Flash/ATA Flash | £79 | £92.82 |
| Smart Media/ATA Flash | £89 | £104.57 |



Smart Media cards

| | | |
|------|-----|--------|
| 4Mb | £21 | £24.67 |
| 8Mb | £32 | £37.60 |
| 16Mb | £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, 1400L0
- Ricoh RDC-300Z, RDC4300
- Sanyo VPC X300, DSC-X1
- Toshiba PDR-2A

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AGFA *Agfa* **FREE technical support hotline: 0181 231 5511**

NEW - SnapScan 1212P - NEW

This 600 x 1200 ppi EPP scanner offers exceptional value for money.



- 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

AGFA SnapScan 1212P
£93.95 ex vat
£110.39 inc vat

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 Only!

AGFA SnapScan 1212U
£107.95 ex vat
£126.84 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 (1.2MB 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

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
£123.95 ex vat
£145.64 inc vat

AGFA 1236S Artline
£157.95 ex vat
£185.59 inc vat

| | | |
|---------------|----------------|----------------|
| ePhoto 1680 | £457.95 | £538.09 |
| ePhoto 1280 | £347.95 | £408.84 |
| Arcus II Solo | £575 | £675.62 |
| SnapScan 310P | £79 | £92.82 |

| | | |
|----------------------|--------------|-----------------|
| SnapScan 600 Artline | £199 | £233.82 |
| T1200 | £429 | £504.07 |
| T2500 | £2899 | £3406.32 |
| DuoScan solo | £1439 | £1690.82 |

Scanners

| | ex vat | inc vat |
|--------------------------|--------|----------|
| EPSON | | |
| GTx-5500 Wins | £125 | £146.87 |
| GTx-5500 SCSi | £125 | £146.87 |
| GTx-9500 Parallel | £445 | £522.87 |
| GTx-9500 SCSi | £468 | £549.90 |
| GTx-9500 Parallel | £537 | £630.97 |
| FilmScan 200 SCSi | £250 | £293.75 |
| Accessories | | |
| GT Automatic | | |
| Document Feeder | £308 | £361.90 |
| Transparency Unit | £358 | £420.65 |
| HEWLETT PACKARD | | |
| ScanJet 5s Parallel | £129 | £151.57 |
| ScanJet 5100c | £144 | £169.20 |
| ScanJet 6200C | £237 | £278.47 |
| ScanJet 5 Ethernet | £1604 | £1884.70 |
| Accessories | | |
| 6100 Automatic | | |
| Document feeder | £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 | £75 | £88.12 |
| ScanMaker 366 SCSi | £95 | £111.62 |
| ScanMaker 636 SCSi | £179 | £210.32 |
| ScanMaker X6 SCSi | £139 | £163.32 |
| 3ST Plus SCSi | £95 | £99.12 |
| ScanMaker 4 SCSi | £525 | £616.87 |
| ScanMaker 5 SCSi | £1499 | £1761.32 |
| ScanMaker 6400XL A3 SCSi | £899 | £1056.32 |
| ScanMaker 9600XL A3 SCSi | £1499 | £1761.32 |
| Accessories | | |
| 330630 Transparency Unit | £75 | £88.12 |
| Polaroid | | |
| SprintScan 35LE S | £418 | £491.15 |
| SprintScan Plus S | £1189 | £1397.07 |
| visioneer | | |
| PaperPort 3000 | £67 | £78.72 |
| PaperPort Strobe Colour | £129 | £151.57 |
| PaperPort 6000 | £89 | £104.57 |

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 was 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 comers 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.



- 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 PRO QUALITY
SPEED
VALUE FOR MONEY
OVERALL

UMAX Astra 1220S
£125 ex vat
£146.87 inc vat

| | | |
|---|--------------------|--------------------|
| Astra 1220S Flatbed Scanner With Transparency Adapter | Call £29.95 | Call £35.25 |
| 2nd year extended warranty for ASTRAS | £729 | £856.57 |
| Powerlook ColourStudio 2LE | £1965 | £2308.87 |
| Powerlook III | £4995 | £5869.12 |
| Mirage II Pro | | |

(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.

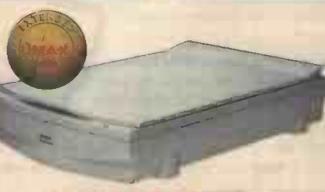
UMAX Astra 610P
£57 ex vat
£69.33 inc vat

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
£84 ex vat
£98.70 inc vat



UMAX Astra 1220U
£99 ex vat
£116.32 inc vat

CLAIM FREE SOFTWARE WITH EVERY ORDER

SEE FRONT COVER FOR FULL DETAILS.

CHOOSE FROM:

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- BODYWORKS 3.0
- MOBYS MEDICAL ENCYCLOPEDIA 1.0
- FAMILY TREE
- 30 WORLD ATLAS
- SCIENTIFIC PLANTARIUM
- COMPTONS BATTLES OF THE WORLD

ENTERTAINMENT PACK

- RALLY CHALLENGE
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- PINBALL MANIA
- WITCHAVEN
- ENEMIES FROM SPACE
- TRUMP CASTLE
- STRIKE BASE

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- BODYWORKS 6.0
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- THINK & TALK FRENCH
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- DESIGN CENTRE 3D
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SCIENTIFIC PLANTARIUM
COMPTONS BATTLES OF THE WORLD

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WITCHAVEN
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TRUMP CASTLE
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OXFORD INTERACTIVE ENCYCLOPEDIA
LETS START LEARNING
THINK & TALK FRENCH
KITCHEN GOURMET
DESIGN CENTRE 3D
TYPING TUTOR PRO

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 Standard | £365 | £428.87 |
| NEW!! CoolPix 600 Digital camera Premier | £399.15 | £469.00 |
| NEW!! CoolPix 900 Digital camera Standard | £594 | £697.95 |
| NEW!! CoolPix 900 Digital camera Premier | £645 | £757.87 |
| NEW!! LS1000 SuperCoolScan | £995 | £1169.12 |
| NEW!! Coolscan III with Nikon Scan 2.1 | £509 | £598.07 |
| NEW!! Coolscan III with Nikon Scan 2.1 (with Adapter 1505E SCSI Card) | £525 | £616.87 |
| NEW!! Coolscan II Ext (with SilverFast, Nikon Scan, PhotoShop LE & SCSI card) | £561 | £659.17 |
| NEW!! 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
 £147 ex vat £172.72 inc vat

Genius COLORPAGE VIVID PRO II

FANTASTIC NEW MODEL!!

- 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 | £89 | £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 Dabblor 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
 £57.57 inc vat

NetMouse PRO

Scrolling Mouse

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
 £10.57 inc vat

HP HEWLETT PACKARD

Expanding Possibilities

HP C20 Digital camera

- 1 megapixel (1152 x 872) resolution & 24 bit colour
- Supplied with AC adapter & 4Mb compact Flash card (stores up to 40 images) as standard
- Colour 1.8in LCD preview/postview display
- Offers very fast download to a PC or TV

| | | |
|-----------------|------|---------|
| HP Scanjet 3200 | £63 | £74.02 |
| HP Scanjet 4200 | £117 | £137.47 |
| HP Scanjet 5200 | £155 | £182.12 |
| HP Scanjet 6200 | £237 | £278.47 |
| PhotoScanner | £318 | £373.65 |

HEWLETT PACKARD C20 Digital camera
 £299 ex vat £351.32 inc vat

HP Scanjet 4100c

- Flatbed, colour 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

HEWLETT PACKARD 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

HEWLETT PACKARD 6250c
 £277 ex vat £325.47 inc vat

Kodak Advantix Film Drive FD300

Anyone using the latest APS cameras can now get the best of both worlds - prints and digital images. The FD300 scanner can turn your developed Advantix films into digital images in seconds. Its so simple and you don't even have to touch the negatives and risk fingerprints.

Safe Keeping
 Keep valuable pictures safe, stored on Advanced Photo System cassettes.

Fast Access
 Its easy to input pictures without scanning prints. Images load quickly, for use in letters, cards, email and so much more.

No Fussing with Cables
 Parallel interface cable with pass-through port lets you access your Film Drive FD300 and printer without swapping cables

Includes Adobe PhotoDeluxe

Kodak FD 300
 £225 ex vat
 £287.87 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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Rage Fury

- ▶ 32Mb of memory for realistic gameplay with massive textures & high resolution
- ▶ Explosive 128-bit 3D gaming action
- ▶ A new 128-bit graphics engine and 128-bit memory interface for incredibly fast 3D & 2D graphics performance
- ▶ Full OpenGL ICD, Direct 3D & DirectX 6.0 support for all your favourite applications & games
- ▶ Built-in hardware DVD for full-frame, full-screen DVD playback.

OEM products inc. Graphics card, driver CD & manual only.



£129 ex vat
£151.57 inc vat

Rage Magnum

- ▶ A new 128-bit graphics engine and 128-bit memory interface for incredibly fast 3D & 2D graphics performance
- ▶ Explosive 128-bit 3D gaming action
- ▶ 32Mb of memory for realistic gameplay with massive textures & high resolution
- ▶ Full OpenGL ICD, Direct 3D & DirectX 6.0 support for all your favourite applications & games
- ▶ Built-in hardware DVD for full-frame, full-screen DVD playback.

OEM products inc. Graphics card, driver CD & manual only.



£119 ex vat
£139.82 inc vat

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

OEM products inc. Graphics card, driver CD & manual only.



£79 ex vat
£92.82 inc vat

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|-------------------|-----|--------|-------------------------|-----|--------|-------------------------|-----|--------|---------------------------|------|---------|---------------------------|------|---------|---------------------------|-----|--------|---------------------------|-----|---------|---------------------------|-----|---------|---------------------------|------|---------|------------------------|-----|--------|
| 3DXpert98 AGP 8mb | £49 | £57.57 | 3DXpert@Work 4mb retail | £59 | £69.32 | 3DXpert@Work 8mb retail | £72 | £84.60 | 3DXpert@Work 4mb | £35 | £41.12 | 3DXpert@Work 8mb | £49 | £57.57 | 3DXpert@Work AGP 4mb | £39 | £45.82 | 3DXpert@Work AGP 8mb | £49 | £57.57 | 3DXpert@Play 4mb retail | £69 | £81.07 | 3DXpert@Play 8mb retail | £80 | £94.00 | 3DXpert@Play 4mb | £42 | £49.35 |
| 3DXpert@Work 8mb | £57 | £66.97 | 3DXpert@Work 4mb | £45 | £52.87 | 3DXpert@Work 8mb | £59 | £69.32 | All in Wonder Pro PCI 4mb | £105 | £123.37 | All in Wonder Pro PCI 8mb | £109 | £128.07 | All in Wonder Pro PCI 4mb | £85 | £99.87 | All in Wonder Pro PCI 8mb | £99 | £116.32 | All in Wonder Pro AGP 4mb | £89 | £104.57 | All in Wonder Pro AGP 8mb | £109 | £128.07 | Memory Upgrade Kit 4Mb | £15 | £17.62 |



MILLENNIUM G200

Superior acceleration for professional 2D/3D graphics

- ▶ High performance Video card with full AGP 2X support
- ▶ 8Mb graphics memory upgradeable to 16Mb
- ▶ Advanced 2D, 3D and software DVD Video acceleration
- ▶ New MGA-G200 1280-Bit DualBus graphics
- ▶ High quality 3D rendering engine
- ▶ High speed 250MHz RAMDAC

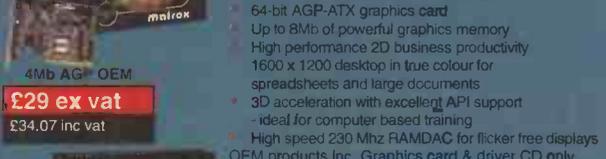
OEM products inc. Graphics card & driver CD only.

Productiva G200

Acceleration for demanding business graphics

- ▶ 64-bit AGP-ATX graphics card
- ▶ Up to 8Mb 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 - ideal for computer based training
- ▶ High speed 230 Mhz RAMDAC for flicker free displays

OEM products inc. Graphics card & driver CD only.

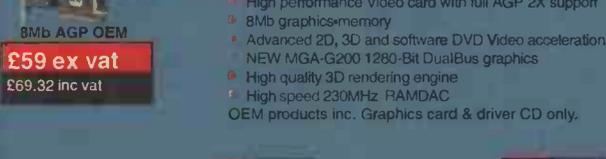


MATROX G200

The Complete Windows, 3D and Video Accelerator

- ▶ High performance Video card with full AGP 2X support
- ▶ 8Mb graphics memory
- ▶ Advanced 2D, 3D and software DVD Video acceleration
- ▶ NEW MGA-G200 1280-Bit DualBus graphics
- ▶ High quality 3D rendering engine
- ▶ High speed 230MHz RAMDAC

OEM products inc. Graphics card & driver CD only.



| | | | |
|--------------------------------|--------|---------------------------|---------|
| 8Mb Mystique G200 AGP OEM | £81.07 | 8Mb Productiva G100 AGP | £49.35 |
| 8Mb Mystique G200 AGP retail | £92.82 | 4Mb Mystique 220 OEM | £45.82 |
| 8Mb Millennium G200 AGP OEM | £81.07 | 4Mb Mystique 220 Business | £45.82 |
| 8Mb Millennium G200 AGP retail | £92.82 | Rainbow Runner TV | £75.20 |
| 4Mb Productiva G100 AGP OEM | £39.95 | Rainbow Runner Studio | £116.32 |



Monster Fusion

The first Monster board with 2D and 3D acceleration melted together. No further graphics boards required. Supports games via the Microsoft Direct3D™ API and 3Dfx Glide™ API. Available with up to 16 MB SxRAM with PCI or AGP.

DIAMOND PCI 16Mb £ ex vat
DIAMOND AGP 16Mb £ ex vat

8Mb & 12Mb versions available. Supports Direct 3D, Glide, Open GL. Easy installation alongside your existing video card. Double the speed with two boards. Optimised Diamond drivers.

| | |
|--------------------|---------------------|
| DIAMOND 8Mb | DIAMOND 12Mb |
| £89 ex vat | £109 ex vat |
| £104.57 inc vat | £128.07 inc vat |



VIPER V550

- ▶ Next generation nVIDIA TNT technology
- ▶ Full Screen DVD & MPEGII (AGP only)
- ▶ 16MB SDRAM 250MHz RAMDAC
- ▶ Full OpenGL and Direct3D support

OEM products inc. Graphics card & driver CD only.

DIAMOND V550 AGP £115 ex vat
DIAMOND V550 PCI £109 ex vat

NEW S90 version

- ▶ PC'98 and WHQL Compliant
- ▶ Accelerates Microsoft DirectSound & DirectSound 3D
- ▶ SoundBlaster Pro legacy compatibility
- ▶ 64-Voice Wavetable Synthesizer supporting DLS
- ▶ 3D Positional Audio
- ▶ CD-Quality Full-Duplex (playback and record)

DIAMOND S90 OEM £19 ex vat
£22.32 inc vat

OEM products inc. Graphics card & driver CD only.

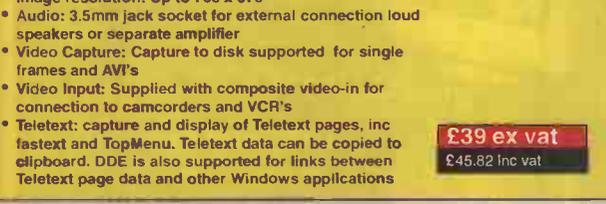
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|-----------------------|-----|--------|--------------------------|------|---------|
| Stealth II G460 AGP | £41 | £48.17 | Monster 3D II Games 8mb | £95 | £111.62 |
| Fire 1000 AGP | £85 | £99.87 | Monster 3D II Games 12Mb | £119 | £139.82 |
| Monster 3D | £48 | £56.40 | Monster 3D II Sport 8mb | £79 | £92.82 |
| Speed Star 3D | £29 | £34.07 | Monster 3D II Sport 12mb | £95 | £111.62 |
| Stealth II S220 PCI | £37 | £43.47 | Viper 550 PCI TV out | £105 | £123.37 |
| Fireport 40 PCI Ultra | £49 | £57.57 | Viper 560 AGP | £104 | £122.20 |
| Fireport 40 Dual | £85 | £99.87 | Viper 550 AGP TV out | £105 | £123.37 |



TV Tuner

- ▶ 181 Channel Cable ready
- ▶ Closed Caption
- ▶ Auto Scan Tuning of Broadcast Channels
- ▶ Resizable TV Window and full screen viewing
- ▶ Source selection: TV antenna or Composite video (under software control)
- ▶ PC Interface: PCI 2.01 bus master
- ▶ Image resolution: Up to 768 x 576
- ▶ Audio: 3.5mm jack socket for external connection loud speakers or separate amplifier
- ▶ Video Capture: Capture to disk supported for single frames and AVI's
- ▶ Video Input: Supplied with composite video-in for connection to camcorders and VCR's
- ▶ Teletext: capture and display of Teletext pages, inc fastext and TopMenu. Teletext data can be copied to clipboard. DDE is also supported for links between Teletext page data and other Windows applications

£39 ex vat
£45.82 inc vat



ASUS

AGP-V3400TNT

- ▶ nVIDIA RIVA TNT chipset
- ▶ 8Mb of 125MHz SDRAM
- ▶ Full OpenGL support
- ▶ Complete with drivers for Win 95/98/NT
- ▶ TV out connector

£99 ex vat
£116.32 inc vat

| | | |
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| AGP-V2740 (Intel 740) | £48 | £52.87 |
| AGP-V3000 (nVIDIA RIVA 128) | £95 | £111.62 |
| AGP-V5200 (3DLabs Dual Glint MX) | £119 | £139.82 |



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| CTX | ex vat | inc vat |
| 1451ELR 14" | £79 | £92.82 |
| 1555ELR 15" | £99 | £116.32 |
| 1569SE 15" | £105 | £123.37 |
| 1789SE 17" | £169 | £198.57 |
| 1722S 17" | £229 | £269.07 |
| 1795SL 17" | £259 | £304.32 |
| VL950T 19" | £329 | £386.57 |
| 2085XE 20" | £489 | £586.32 |
| 2195XE 21" | £689 | £809.57 |
| 1569MS 15" | £139 | £163.32 |
| 1769MS 17" | £229 | £269.07 |
| 1569UA 15" | £149 | £175.07 |
| 1792UA 17" | £299 | £351.32 |
| 1785XE 17" | £199 | £233.82 |
| 2185XE 21" | £625 | £734.37 |
| 1995UE 19" | £349 | £410.07 |
| PV540 10.4" | £449 | £527.57 |
| PV600 12.1" | £599 | £686.57 |

| | | |
|-------------------|--------|----------|
| Formac UK | ex vat | inc vat |
| ProNitron 17" FST | £159 | £198.57 |
| ProNitron 17" TT | £259 | £304.32 |
| ProNitron 19" TT | £449 | £527.57 |
| ProNitron 20" TT | £609 | £715.57 |
| ProNitron 21" TT | £679 | £797.82 |
| ProNitron 24" TT | £1159 | £1361.82 |

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| NEC | ex vat | inc vat |
| Multisync A500 15" | £154 | £180.95 |
| Multisync E500 15" | £185 | £217.37 |
| Multisync M500 15" | £205 | £240.87 |
| Multisync A700 17" | £289 | £339.57 |
| Multisync E700 17" | £365 | £428.87 |
| Multisync M700 17" | £389 | £457.07 |
| Multisync P750 17" | £368 | £432.40 |
| Multisync E1100 21" | £729 | £856.57 |

| | | |
|-----------------|--------|----------|
| NOKIA | ex vat | inc vat |
| 449X1 Plus 15" | £169 | £198.57 |
| 449Xa Plus 15" | £179 | £210.32 |
| 447z 17" | £249 | £292.57 |
| 447X Pro 17" | £319 | £374.82 |
| 447X Pro A 17" | £379 | £374.82 |
| 445X Pro 21" | £725 | £851.87 |
| 500Xa 15.1" TFT | £795 | £934.12 |
| 800Xa 18.1" TFT | £2295 | £2696.62 |

| | | |
|----------------|--------|---------|
| SAMSUNG | ex vat | inc vat |
| SM400B 14" | £72 | £84.60 |
| SM500S 15" | £95 | £111.62 |
| SM500B 15" | £119 | £139.82 |
| SM700S 17" | £169 | £198.57 |
| SM700P 17" | £259 | £304.32 |
| SM1000P 21" | £649 | £782.57 |

| | | |
|----------------------|--------|---------|
| TAXAN | ex vat | inc vat |
| Ergovision 430LR 14" | £109 | £128.07 |
| Ergovision 550 15" | £129 | £151.57 |
| Ergovision 550S 15" | £139 | £163.32 |
| Ergovision 730 17" | £245 | £287.87 |
| Ergovision 730S 17" | £255 | £299.82 |
| Ergovision 740 17" | £295 | £346.62 |
| Ergovision 740S 17" | £295 | £351.32 |
| Ergovision 780 17" | £249 | £292.57 |
| Ergovision 760S 17" | £259 | £304.32 |
| Ergovision 975 19" | £435 | £511.12 |
| Ergovision 2150 21" | £745 | £875.37 |

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|------------------|--------|---------|
| ViewSonic | ex vat | inc vat |
| E841 14" | £85 | £99.87 |
| E655 15" | £109 | £128.07 |
| G653 15" | £119 | £139.82 |
| P655 15" | £129 | £151.57 |
| E771 17" | £190 | £223.25 |
| GS771 17" | £210 | £246.75 |
| GA771 17" | £269 | £316.07 |
| GT771 17" | £229 | £269.07 |
| GT775 17" | £299 | £351.32 |
| G790 19" | £409 | £480.57 |
| G800 20" | £545 | £640.37 |
| PT775 17" | £295 | £346.62 |
| P810 21" | £349 | £410.07 |
| PT813 21" | £669 | £786.07 |
| PT813 21" | £665 | £781.37 |
| P815 21" | £729 | £856.57 |
| VPA138 13.8" LCD | £529 | £621.57 |
| VPA145 14.5" LCD | £639 | £750.82 |
| VPA150 15" LCD | £745 | £875.37 |

Video Cards

| | | |
|--------------------|--------|---------|
| HERCULES | ex vat | inc vat |
| Terminator 3D 4Mb | £38 | £44.65 |
| Terminator 2X1 8Mb | £64 | £75.20 |
| Terminator 128 4Mb | £48 | £56.40 |
| Dynatrac 3DGL 8Mb | £75 | £88.12 |
| Singray II 12Mb | Call | £95 |
| | | £111.62 |

| | | |
|--------------------|--------|---------|
| NUMBER NINE | ex vat | inc vat |
| Revolution 3D 4Mb | Call | |
| Revolution 3D 8Mb | Call | |

| | | |
|------------------|--------|---------|
| STB | ex vat | inc vat |
| Nitro 3D OEM 2Mb | £31 | £36.42 |
| Nitro 3D OEM 4Mb | £49 | £57.57 |
| Velocity 128 4Mb | £84 | £98.70 |
| BlackMagic 3D | | |
| Voodoo 2 12Mb | £155 | £182.12 |
| Nitro DVD 4Mb | £74 | £86.95 |

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Multimedia Cards

Hauppauge!

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|---------------------------|------|---------|
| WinTV Prio PCI | £48 | £56.40 |
| WinTV PCI | £65 | £76.37 |
| WinTV Radio PCI | £75 | £88.12 |
| WinTV Cinema Pro | £189 | £222.07 |
| WinTV Cinema Pro MPEG UG | £74 | £86.95 |
| WinTV Video Output Module | £89 | £104.57 |
| Video Wizard 60 | £115 | £135.12 |
| | £295 | £346.62 |

miro

| | | |
|---------------------------|------|---------|
| MiroMEDIA PCTV PCI | £45 | £52.87 |
| Video Director Studio 200 | £155 | £182.12 |
| miroVIDEO DC10 | £169 | £198.57 |
| miroVIDEO DC30 | £379 | £445.32 |
| miroVIDEO DV300 | £489 | £574.57 |
| miroVIDEO DC30 Plus | £489 | £574.57 |

MODULAR

| | | |
|------------------|-----|--------|
| QuantSight Kit | £49 | £57.57 |
| PC TV Tuner Int. | £45 | £52.87 |
| Voodoo 3D | £49 | £57.57 |

LG Monitors

500LC
15.1" (15.1" viewable) screen
Bright active matrix TFT display
Genesis chip/low level SVGA
Wide viewing angle, 60° left and right
Bright 200cd/m² display
1.5µs sync support up to 1024 x 768

£675 ex vat £793.12 inc vat

SW216SC
21" (20" viewable) screen
30-99KHz FST
Flicker free 1600 x 1200 @ 75Hz
Digital control on-screen display
0.28mm Dot Pitch with Double Focus Circuitry

£589 ex vat £692.07 inc vat

SW77TS
17" (15.8" viewable) screen
Ultra contrast tube for greater levels of contrast & colour purity
Flatten free up to 1024 x 768 NI
(Non-flatten) @ 88Hz
0.28mm Dot Pitch
Digital control on-screen display

£175 ex vat £205.62 inc vat

SW77M
17" (15.7" viewable) screen
Integrated stereo amplifier with DOME stereo speakers
Built-in mic plus earphone/lock
Flicker free up to 1024 x 768 NI @ 88Hz
0.28mm Dot Pitch

£19 ex vat £257.32 inc vat

SW57i
15" (13.8" viewable) screen
Multi-sync support from 640 x 480 up to 1600 x 1200 @ 86Hz
Maximum VESA
Digital controls with on-screen display

£94 ex vat £110.45 inc vat

Call for prices *TCO '95 on all models except SW57i monitor.

Speakers

CREATIVE

| | | |
|--------------------------|-------|---------|
| CSW-20 20W | £9.95 | £11.69 |
| CSW-50 50W | £23 | £27.02 |
| CSW-100 100W | £35 | £41.12 |
| PC Works Sound Works | £65 | £76.37 |
| CSW-350 350W Micro Works | £105 | £123.37 |

Genius

| | | |
|----------------------------------|--------|--------|
| SP-306 6WRMS 72W PMPD | £14.50 | £17.03 |
| SP-710 10WRMS 120W PMPD | £19.50 | £22.91 |
| SP-715 18WRMS 200W PMPD | £27.50 | £32.31 |
| SP-718 36WRMS 320W PMPD | £39 | £45.82 |
| 10W Subwoofer 3W+3WRMS 280W PMPD | £49 | £57.57 |

Labtec

| | | |
|-----------------|-----|---------|
| LCS-1016 4W | £19 | £22.32 |
| LCS-1030 10W | £29 | £34.07 |
| LCS-1040 10W 3D | £49 | £57.57 |
| LCS-2420 20W 3D | £49 | £57.57 |
| LCS-2632 32W 3D | £79 | £92.82 |
| APX 4620 70W 3D | £99 | £116.32 |

HITACHI *Masters of Monitor Technology*

CM641ET
£299 ex vat £351.32 inc vat

CM641ET 17"

- 17" Colour display monitor
- 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
- 0.23mm horizontal mask pitch
- Flicker free screen
- Up to 1152 x 870 resolution
- PC, Mac and Workstation compatible
- TCO '92 compliance

| | | | | | |
|---------------------------|------|---------|-------------------|------|---------|
| FST 15" ES (inc speakers) | £129 | £151.57 | CM812 ET 21" | £669 | £786.07 |
| CM640 ET 17" | £219 | £257.32 | CM813 ET 21" | £749 | £880.07 |
| CM751 ET 19" | £399 | £468.82 | CM814 ET 21" | £849 | £997.57 |
| CM752 ET 19" | £425 | £499.37 | DT3131 E LCD13.3" | £749 | £880.07 |
| CM811 ET 21" | £589 | £692.07 | DT3140 E LCD14.1" | £849 | £997.57 |
| | | | CML150X 15" | £649 | £762.57 |

| | | |
|--------------------------------|-----|--------|
| 50w mains powered | £7 | £8.22 |
| 80w mains powered | £10 | £11.75 |
| 200w mains powered | £15 | £17.62 |
| 300w mains powered | £25 | £29.37 |
| 500w mains powered & Subwoofer | £40 | £47.00 |

Logic

| | | |
|---------------------------------------|-----|--------|
| Maxim 30 30W | £9 | £10.57 |
| Maxim 60 60W | £20 | £23.50 |
| Maxim 120 120W Headphone & Microphone | £6 | £7.05 |

PHILIPS

| | | |
|-----------------------------|------|---------|
| DDS-350 360W Digital USB 3D | £89 | £104.57 |
| DDS-370 720W Digital USB 3D | £115 | £135.12 |

YAMAHA

| | | |
|--------------------------------|-----|--------|
| YST-M15 10W | £39 | £45.82 |
| YST-M20DSP 10W | £45 | £52.87 |
| YST-M25DSP 10W + 15W Subwoofer | £55 | £64.62 |
| YST-MSW10 25W | £69 | £81.07 |

MITSUBISHI COLOUR DISPLAY MONITOR

Diamond Pro 900

- 19" Colour monitor
- Features Mitsubishi's 100% Flat DiamondTron CRT technology
- 0.25mm grille pitch
- 1600 x 1280 @ 75Hz resolution
- On screen menu guides

£415 ex vat £487.62 inc vat

Diamond Scan 50

- 15" FST
- 13.8" viewable screen
- 0.28mm dot pitch
- 1280 x 1024 @ 60Hz max resolution
- Meets the latest industry environment and safety standards

£119 ex vat £139.82 inc vat

PCW GOOD POINTS: Excellent picture quality. Easy to access controls. Anti glare filter.

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 FAX: **0181 286 0200**
 EMAIL: **ts@techdirect.co.uk**

| | | | | | |
|----------------|------|---------|------------------|-------|----------|
| LCD 40 | £649 | £762.57 | DiamondPlus 72 | £285 | £334.87 |
| LCD 50 | £739 | £868.32 | DiamondPlus 100 | £689 | £809.57 |
| DiamondScan 70 | £185 | £217.37 | DiamondPro 91TXM | £659 | £774.32 |
| DiamondScan 90 | £365 | £428.87 | DiamondPro 700 | £379 | £445.32 |
| DiamondPlus 71 | £259 | £304.32 | DiamondPro 1010 | £1125 | £1321.87 |

Turn on your imagination

The Nokia Advantage

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£269 (£316.08)

- 17" High Contrast 0.27mm FST
- Up to 1024 x 768 @ 90Hz
- Built-in 5 watt stereo speakers
- Built-in Hi-directional microphone

447XS
£299 (£351.32)

- 17" High Contrast 0.25mm FST
- New Shortneck Technology
- Up to 1280 x 1024 @ 80 Hz

447Xpro
£349 (£410.08)

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- On-Screen Menu with Navi™ key
- Up to 1600 x 1200 @ 76 Hz

446XS
£419 (£492.33)

- 19" High Contrast 0.25mm FST
- New Shortneck Technology
- Up to 1600 x 1200 @ 75 Hz

446XPro
£449 (£527.58)

- 19" High Contrast 0.26mm FST
- Up to 1600 x 1200 @ 85 Hz
- On-Screen Menu with Navi™ key

445Xi Plus
£679 (£797.83)

- 21" High Contrast 0.28mm FST
- Up to 1600 x 1200 @ 88 Hz
- On-Screen Menu with Navi™ key

PC Advisor Recommended **NOKIA** www.nokia.com

15 inch

MICROSCAN 4P 15"

- 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
- ProColor colour adjustment
- Energy Star, MPRII, TCO 95 compliant

ADI Microscan 4P
£109 ex vat £128.07 inc vat

17 inch

MICROSCAN 5P 17"

- 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

ADI Microscan 5P
£179 ex vat £210.32 inc vat

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

ADI Microscan 6P
£349 ex vat £410.07 inc vat

ADI **ADI** **ADI** **ADI**

| | | | | | |
|------------------|------|---------|------------------|------|---------|
| 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 | £265 | £311.37 | MicroScan 5T 14" | £599 | £703.82 |

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- 17" Monitor
- Viewable screen 15.6"
- Anti-static coating, Anti-reflective coating
- Max resolution 1280 x 1024 @ 60Hz
- Recommended resolution 1024 x 768 @ 85Hz
- Plug & Play, Win 95 compatible
- 3 year On Site warranty



- 15" Monitor
- Viewable screen 13.7"
- Anti-static coating
- Max resolution 1280 x 1024 @ 60Hz
- Recommended resolution 1024 x 768 @ 85Hz
- Plug & Play, Win 95 compatible
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viewpoint® 15" Monitor £85 ex vat £99.87 inc vat
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- Viewable screen 18"
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- Max resolution 1600 x 1200 @ 60Hz
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PHILIPS Let's make things better



Philips Brilliance 109A

- 15.1" monitor (viewable size 13.8")
- Up to 1024 x 768 @ 75Hz
- Non glare polarizer display surface
- On Screen display
- Digital Control
- Built in stereo & Microphone
- Comparable to a 17" CRT monitor

£489 ex vat
£575.57 inc vat

Philips 109S

- 19" FST monitor
- Up to 1600 x 1200 @ 85Hz
- Fine 0.22mm dot pitch

£449 ex vat
£527.57 inc vat



Philips 107S

- 19" monitor (viewable size 17.9")
- Anti-glare, Anti-reflection, high contrast screen coating
- Auto power saving function (NUTEK) & low emission compliance
- 1600 x 1200 @ 75Hz
- High bandwidth at 203MHz

£365 ex vat
£428.87 inc vat



Philips 105S

- 17" monitor (viewable size 15.9")
- Up to 1280 x 1024
- Autoscan & Tilt correction
- On Screen display
- Digital Control
- Black Matrix CRT screen

£159 ex vat
£186.82 inc vat



Philips Brilliance 201P 21"

- 15" monitor (viewable size 13.8")
- Up to 1024 x 768
- Autoscan
- On-Screen display
- Digital Control
- Black Matrix CRT screen

£98 ex vat
£115.15 inc vat

| | | | | | |
|------------------------------|-------|----------|-----------------------------|------|---------|
| Philips 151AX 15.1" | £489 | £574.57 | Philips Brilliance 201P 21" | £759 | £891.82 |
| Philips Brilliance 109A 19" | £449 | £527.57 | Philips Business 201B 21" | £649 | £762.57 |
| Philips Brilliance 107 17" | £299 | £351.32 | Philips Business 104B 14" | £74 | £86.95 |
| Philips Brilliance 105 15" | £157 | £184.47 | Philips Business 104S 14" | £67 | £78.72 |
| Philips Brilliance 201CS 21" | £1125 | £1321.87 | Philips Business 107MB 17" | £239 | £280.82 |

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VISIONMASTER MONITORS THE IMAGE OF PERFECTION

VM 350

- 15" FST 0.28mm Dot pitch
- Up to 1280x1024 @ 65Hz refresh
- On-Screen Display Menu
- Colour Balance Control
- Complies with MPRII requirements

iiyama VM 350
£114 ex vat £133.95 inc vat

VM 400

- 17" FST 0.26mm Dot pitch
- Up to 1280x1024 @ 90Hz
- On-Screen Display Menu
- Colour Balance Control
- TCO 95 and MPRII compliant

iiyama VM 400
£239 ex vat £280.82 inc vat

VM Pro 400

- 17" DiamondTron
- Up to 1280x1024 @ 90Hz
- On-Screen Display Menu
- Colour Balance Control
- TCO 95 and MPRII compliant

iiyama VM Pro 400
£285 ex vat £334.87 inc vat

VM 450

- 19" FST 0.26mm Dot pitch
- Up to 1280x1024 @ 100Hz
- On-Screen Display Menu
- Colour Balance Control
- TCO 95 and MPRII compliant

iiyama VM 450
£369 ex vat £433.57 inc vat

VM Pro 502

- 21" DiamondTron
- Up to 1600x1200 @ 85Hz
- On-Screen Display Menu
- Colour Balance Control
- TCO 95 and MPRII compliant

iiyama VM Pro 502
£715.57 inc vat

| | | |
|----------------|------|---------|
| S702GT 17" | £215 | £252.62 |
| VM 17ES 17" | £335 | £393.62 |
| VM Pro 450 19" | £399 | £468.82 |
| VM 501 21" | £599 | £703.82 |
| VM 501 Pro | £599 | £703.82 |
| VM 502 21" | £609 | £715.57 |

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The luxury of a SONY Triniton tube at affordable prices!

ProNitron 17/500

ProNitron 17/500 - offering excellent picture quality and features.

- 17" Multisync SONY triniton tube
- PC, MAC & UNIX comp.
- Max res: 1280 x 1024
- 0.25 mm dot pitch
- Power Save function

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ProNitron 19/500 - for users who demand the highest quality.

- 19" Multisync SONY triniton tube
- Max res: 1600 x 1200 @ 80Hz
- 0.25 - 0.27mm pitch
- PC and MAC comp.
- On-Screen Display

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ProNitron 21/700

ProNitron 21/700, a professional monitor for professional users.

- 21" Multisync SONY triniton tube
- Max res: 1600 x 1200 @ 85Hz
- 0.25 - 0.27mm pitch
- PC and MAC comp.
- On-Screen Display

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Belinea MONITORS
Open Your Eyes

FREE DELIVERY ON ALL BELINEA MONITORS

FANTASTIC VALUE NEW 19" MONITOR

- 19" Flat Screen Monitor
- 0.26mm dot pitch
- Up to 1600 x 1200 @ 75Hz
- 1280 x 1024 @ 85Hz
- Digital on-screen display
- Conforms to TCO 95



Belinea 10 60 20
£295 ex vat £346.62 inc vat

Model: 10 60 20

GENUINE 17" DIAMONDTRON FOR JUST £259 + vat

- 17" DiamondTron Tube
- 0.25mm dot pitch
- Up to 1600 x 1200 @ 75Hz
- 1024 x 768 @ 100Hz
- Digital on-screen display
- Conforms to TCO 95



Belinea 10 70 50
£242 ex vat £284.35 inc vat

Model: 10 70 50

THE RANGE OF BELINEA MONITORS

| MODEL | SIZE | PITCH | EX VAT | INC VAT | MODEL | SIZE | PITCH | EX VAT | INC VAT |
|----------|------|-------|--------|---------|----------|------|-------|--------|---------|
| 10 20 10 | 15" | 0.28 | £85 | £99.87 | 10 70 35 | 17" | 0.25 | £219 | £257.32 |
| 10 40 10 | 14" | 0.28 | £78 | £91.65 | 10 70 65 | 17" | 0.26 | £230 | £270.25 |
| 10 50 35 | 15" | 0.28 | £90 | £105.75 | 10 70 50 | 17" | 0.25 | £242 | £284.35 |
| 10 50 46 | 15" | 0.28 | £104 | £122.20 | 10 60 20 | 19" | 0.26 | £285 | £334.87 |
| 10 50 80 | 15" | 0.27 | £118 | £138.65 | 10 80 15 | 21" | 0.25 | £592 | £695.60 |
| 10 70 20 | 17" | 0.28 | £148 | £173.90 | 10 80 50 | 21" | 0.26 | £506 | £594.55 |
| 10 70 25 | 17" | 0.27 | £188 | £220.90 | 10 70 25 | 17" | 0.27 | £181 | £212.67 |
| 10 70 40 | 17" | 0.26 | £175 | £205.62 | 10 15 10 | 15" | TFT | £399 | £468.82 |
| 10 70 60 | 17" | 0.27 | £16 | £219.72 | | | | | |



CA6929SL 19" Monitor

Ultra fine dot pitch for razor sharp picture quality, & professional controls including Colour Temperature & Dynamic Focus

- 19" Non-glare FST/Viewable 18"
- Easy-to-use On Screen Display
- Ultra High resolution to 1600 x 1200 @ 75 Hz
- Recommended resolution 1280 x 1024 @ 85Hz
- Professional 0.26mm dot pitch
- Windows 95 Plug & Play Compatibility
- Energy Star, MPR II, TCO 95 Compliant



Smile CA6929SL
£330 ex vat £387.75 inc vat

CA6729SL 17" Monitor

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

- 17" Non-glare FST/Viewable 16"
- Easy-to-use On Screen Display
- Ultra High resolution to 1600 x 1200 @ 75Hz
- 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

CA6748SL 17" Monitor

Hailed by PC Pro as managing a stable and crisp image, even in the far reaches of the screen.

- 17" Non-glare Flat Square Tube
- Easy-to-use On Screen Display
- Maximum 1600 x 1200 @ 60 Hz resolution
- Recommended resolution 1280 x 1024 @ 85Hz
- 0.28mm dot Pitch
- 17 Display Modes



Smile CA6748SL
£160 ex vat £188.00 inc vat

CA6546SL 15" Monitor

Smile CA6546SL
£127 ex vat £149.22 inc vat

All Monitors Come With a 3 Year On-Site Warranty As Standard

SONY TRINITRON MONITORS

GDM-F500

- 21" Trinitron Monitor
- 0.22mm Slot Pitch
- View: 388 x 291mm
- Max res. 1800 x 1440
- On-Screen Display
- Inc: USB connectivity
- TCO 95 compliance



SONY GDM-F500
£144 ex vat £146.70 inc vat

300sf

- 20" Trinitron Monitor
- 0.30mm Grille Pitch
- View : 388 x 292mm
- Max res. 1280 x 1024
- On-Screen Display
- Plug & Play for Win95
- TCO 95 compliance



SONY 300sf
£699 ex vat £821.32 inc vat

200est

- 17" Trinitron Monitor
- 0.25mm Grille Pitch
- View area: 327 x 241mm
- Max res. 1280 x 1024 @ 75Hz
- On-Screen Display
- Plug & Play for Win95
- TCO '92 Compliance



SONY 200est
£289 ex vat £399.57 inc vat

| | | | | | |
|------------|------|---------|------------|------|---------|
| CPD-100es | £139 | £163.32 | CPD-220as | £319 | £374.82 |
| CPD-100gst | £189 | £222.07 | CPD-200pst | £469 | £551.07 |
| CPD-120as | £229 | £269.07 | CPD-300sf | £699 | £821.32 |
| CPD-200est | £259 | £304.32 | CPD-500pst | £739 | £868.32 |
| CPD-200gst | £285 | £334.87 | SON 20SE | £679 | £797.82 |
| CPD-200pst | £369 | £433.57 | 520gst 21" | £695 | £816.62 |



Futura L 4031

Your Integrated OEM Partner

- 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 @ 60
- 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
£149 ex vat £175.07 inc vat





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.

MONITORS

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.

Handheld PC network

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, 60° left and right
- Bright 200cd/m² display
- Multi-synch support up to 1024x768 @ 75Hz

£675 ex vat £793.12 inc vat



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

£175 ex vat £205.62 inc vat



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

£889 ex vat £692.07 inc vat



SW77M

17" (15.7" viewable) screen

- Integrated stereo amplifier with DDMC stereo speakers
- Built-in mic plus earphone jack
- Flicker-free up to 1024x768 NI (non-interlaced) @ 85Hz
- 0.28mm Dot Pitch

£219 ex vat £257.32 inc vat



SW795SC

17" (16" viewable) screen

- 100kHz ultra high resolution model
- 0.26mm Dot Pitch
- Maximum Flicker-free resolution of 1600x1200 @ 90Hz
- Digital controls with on-screen display
- TCO '95 approval
- Made in the UK

£269 ex vat £316.07 inc vat



SW57i

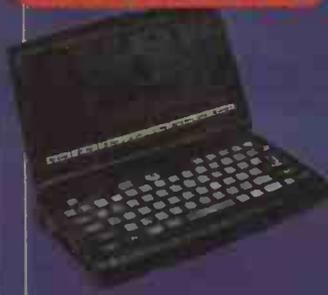
15" (13.8" viewable) screen

- Multi-synch 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

£104 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



Handheld PC

- Windows CE 2.0 operating system inc. Pocket Word, Excel, PowerPoint Views, Explorer & Schedule
- Extra wide LCD screen & large keyboard
- In-built VGA for full colour PowerPoint presentations
- 3MB RAM & 16MB ROM inc. Pre-installed software
- Type II PCMCIA & compact flash expansion slots

£398.32 ex 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

£109 ex vat £128.07 inc vat

DVD & CD ROMS



DVD-2718

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)

£69 ex vat £81.07 inc vat



CRD-8270E

32X MAX CD-ROM Drive

- Magnetised ball balance mechanism
- E-IDE/ATAPI Interface
- 4000KB/sec Max Data Transfer Rate
- CD-RW & CD-R compatible
- 90ms Access Time
- MPC III Compliant

£29.95 ex vat £35.19 inc vat



Website <http://www.lge.co.kr> Helpline No. 01753 500470 (Press 1 on answer)

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.

Customer Satisfaction td

Once you've bought from us, we want you to keep coming back to us. That's why we place great emphasis on after sales customer care - You can depend on Tech Direct.

Collections Welcome td

Simply call our sales team to check product availability & price. We will then reserve your order for you to collect for up to 48 hours.

Next day delivery td

Place your order today & we'll ship your order for next working day delivery. Only £9.95 + vat. (£14.95 + vat to Eire & N.Ireland).

Expertise td

Trained product specialists are always on hand to discuss your needs. All Tech Direct staff are friendly knowledgeable & polite. Call us & see for yourself.

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Our Corporate Team are the best in the business. If you are an IT Manager with a budget in excess of £50K per annum we will provide you with your own dedicated account manager. Tech Direct have the focus, resource & expertise to meet your demands. Our Corporate account managers will understand your specific needs, providing the quality service you require. Just call 0181 286 2277 to speak directly to an experienced Corporate account manager.

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.

PRICE MATCH

We will usually match or beat any price lower than our own!

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FREE DELIVERY ON ALL PRINTERS

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SEE FRONT COVER FOR FULL DETAILS.

EIRE & N.IRELAND ORDERS WELCOME - CALL OUR DUBLIN REGIONAL LINE ON 01-475 4560.

Faxes Copiers

InkJet Printers

| | | |
|-----------------------|------|---------|
| Canon BJC 5500 A3 Cir | £399 | £468.82 |
| Canon BJC 4300 A3 Cir | £87 | £102.22 |
| Canon BJC 4650 | £193 | £226.77 |
| Canon BJC 5000 | £164 | £192.70 |

LEXMARK

| | | |
|------|------|---------|
| 1100 | £74 | £86.95 |
| 3200 | £129 | £151.57 |
| 5700 | £165 | £193.87 |
| 7200 | £189 | £222.07 |

Laser Printers

| | | |
|----------------|-------|----------|
| brother HL-820 | £154 | £180.95 |
| HL-1040 | £205 | £240.87 |
| HL-1050 | £225 | £264.37 |
| HL-1050 BMB | £245 | £287.87 |
| HL-1070 | £289 | £339.57 |
| HL-1070 BMB | £299 | £349.57 |
| HL-1630E | £569 | £668.57 |
| HL-1660EN | £769 | £903.57 |
| HL-1660EN 16Mb | £785 | £922.37 |
| HL-2060 | £629 | £739.07 |
| HL-2060 16Mb | £649 | £762.57 |
| HL-2060N | £849 | £997.57 |
| HL-2060N 16Mb | £859 | £1009.32 |
| HL-2400C | £1949 | £2290.07 |
| HL-2400CN | £2299 | £2701.32 |

Canon

| | | |
|-----------------|-------|----------|
| LBP 1760 16ppm | £625 | £734.37 |
| LBP 2460+ 24ppm | £1425 | £1674.37 |

Panasonic

| | | |
|----------|-------|----------|
| KX-P6300 | £169 | £198.57 |
| KX-P6500 | £235 | £276.12 |
| KX-P8410 | £1099 | £1291.32 |

QMS

| | | |
|--------------------|-------|----------|
| DeskLaser 600 | £155 | £182.12 |
| DeskLaser 1400P | £649 | £762.57 |
| DeskLaser 2000Net | £879 | £1032.82 |
| A3 Ethernet | | |
| DeskLaser 2000Net | £1299 | £1526.32 |
| A3 Duplex Ethernet | £1049 | £1232.57 |
| 2060WX | £1299 | £1526.32 |
| 2060X | £1549 | £1820.07 |
| 2060S | £1975 | £2320.62 |
| 2400EX | £2649 | £3112.57 |
| 2425PS | £2849 | £3347.57 |
| 2425EX | £4099 | £4816.12 |

MagColor II

| | | |
|--------------------------|-------|----------|
| MagColor II | £1115 | £1310.12 |
| MagColor II CX 24MB | £1755 | £2062.12 |
| MagColor II CX Exec 80Mb | £2455 | £2884.62 |

SHARP

| | | |
|-------------------------|------|----------|
| JX-9680 Twin Cassette | £539 | £633.32 |
| JX-9685 Duplex | £789 | £927.07 |
| JX-965N Duplex Ethernet | £889 | £1044.57 |

Tally

| | | |
|--------------|-------|----------|
| T9006 | £167 | £196.22 |
| T9208 | £215 | £252.62 |
| T9012 | £448 | £526.40 |
| T8104 colour | £2259 | £2654.32 |

Faxes / Multifunction

Canon

| | | |
|----------------------|------|---------|
| MPC-20 Colour Inkjet | £288 | £338.40 |
| MPL-90 Laser | £715 | £840.12 |

Panasonic

| | | |
|--------------------|------|----------|
| UF-S2 | £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 | £678 | £796.65 |
| UF-770 Laser | £999 | £1173.82 |

SAMSUNG

| | | |
|-----------------------|------|---------|
| SF-150 | £114 | £133.95 |
| F-150 | £144 | £169.20 |
| SF-910 TAM | £158 | £185.85 |
| 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 |

SHARP

| | | |
|----------------|-------|----------|
| UX-108 | £98 | £115.15 |
| UX-178 | £114 | £133.95 |
| UX-258 | £148 | £173.90 |
| FO-1460 | £184 | £216.20 |
| FO-4500W laser | £1148 | £1348.90 |
| FO-1660M | £224 | £263.20 |
| F-3600M laser | £428 | £502.90 |

TOSHIBA

| | | |
|---------------|------|---------|
| TF-461 Colour | £438 | £514.65 |
| TF-601 Laser | £638 | £749.65 |
| TF-605 Laser | £748 | £878.90 |

HEWLETT PACKARD

Expanding Possibilities

HP InkJet Printers

NEW!

DeskJet 710c

£126 ex vat
£148.05 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

£460 ex vat
£540.50 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

Other InkJet Printers

| | | |
|---------------------|------|---------|
| HP DESKJET 340 | £135 | £158.62 |
| HP DESKJET 340 CBI | £159 | £186.82 |
| HP DESKJET 420 | £66 | £77.55 |
| HP DESKJET 695 | £96 | £112.80 |
| HP DESKJET 710C | £126 | £148.05 |
| HP DESKJET 720C | £141 | £165.67 |
| HP DESKJET 880C | £164 | £192.70 |
| HP DESKJET 895xi | £186 | £218.55 |
| HP DESKJET II 1120C | £285 | £334.87 |
| HP DESKJET 2000C | £450 | £528.75 |
| HP DESKJET 2000CN | £675 | £793.12 |
| HP DESKJET 2500C | £705 | £828.37 |

FREE DELIVERY ON HEWLETT PACKARD PRINTERS

Guaranteed Lowest U.K. Prices on HP Printers. JUST CALL US!!

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

£741 ex vat
£870.67 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 LaserJet Printers

| | | |
|----------------|-------|----------|
| LaserJet 1100 | £232 | £272.60 |
| LaserJet 1100A | £265 | £334.87 |
| LaserJet 6P | £461 | £541.67 |
| LaserJet 6MP | £562 | £660.35 |
| LaserJet 3100 | £423 | £497.02 |
| LaserJet 2100 | £489 | £574.57 |
| Col LJ 4500 | £159 | £187.64 |
| LJ 4500N | £187 | £2203.12 |
| LJ 4500DN | £242 | £2845.85 |
| Col LJ 8500 | £386 | £4537.85 |
| LJ 8500N | £442 | £5199.37 |
| LJ 8500DN | £524 | £6159.35 |
| Laser 4000 | £711 | £835.42 |
| Laser 4000T | £807 | £948.22 |
| Laser 4000TN | £941 | £1105.67 |
| Laser 5000 | £929 | £1091.67 |
| Laser 5000N | £1334 | £1567.45 |
| Laser 5000GN | £1649 | £1937.57 |
| Laser 8000 | £1477 | £1735.47 |
| Laser 8000N | £1642 | £1929.35 |
| Laser 8000DN | £1935 | £2273.62 |
| Laser 8100 | £1687 | £1982.22 |
| Laser 8100N | £1875 | £2203.12 |
| Laser 8100DN | £2145 | £2520.37 |

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
 Single-Point installer
 Fax: 6 secs up (with scan ahead to memory)
 150 page memory
 175 number speed dial
 1 year Warranty
 Bi-directional parallel interface/connection

OfficeJet 635

£296 ex vat
£347.80 inc vat

Print: 600 dpi Black/600 dpi Colour with HP ColourSmart
 Copy: 5 ppm black/2 ppm colour
 black 1.2 cpm
 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 700 | £323 | £374.52 |
| HP OFFICEJET 1170 | £469 | £554.37 |
| 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!!

Canon BJC - 50 **Canon BJC - 80** **Canon LBP - 660** **Canon BJC - 250** **Canon BJC - 4300** **Canon BJC - 7000**

(This offer applies to other printers in the range please ask your sales person for details.)

Canon BJC-50 £185 ex vat £217.37 inc vat

- A4 portable Colour printer
- 720 x 360dpi
- 5.5ppm mono, 2.1ppm colour
- Image Optimiser technology
- Manual feed single sheet
- Built-in IRDA infra-red sensor (Win 95 and higher)
- 1 year return to Canon warranty
- Standard lithium ion battery
- Weights only 900g
- BJC 50 Scan head £87+vat

Canon BJC-80 £138 ex vat £162.15 inc vat

- A4 portable Colour printer - Allows printing anywhere
- 720 x 360dpi
- 4.5ppm mono, 1.9ppm colour
- Image Optimiser technology
- 30 sheet auto sheet feeder
- Built-in IRDA infra-red sensor (Win 95 only)
- 1 year return to Canon warranty
- Optional battery packs available
- BJC 80+Scan head £181+vat

Canon LBP-660 £158 ex vat £185.65 inc vat

- Personal mono laser printer
- 600dpi resolution
- 6ppm print speed
- 100 sheet auto sheet feeder
- Uses Microsoft Windows printing system
- 1 year on site warranty

Canon BJC-250 £68 ex vat £79.90 inc vat

- A4 Colour printer - ideal for home use
- 720 x 360dpi (mono)
- 360 x 360dpi colour
- Optional PhotoRealist cartridge
- 1 year return to canon warranty

Canon BJC-4300 £87 ex vat £102.22 inc vat

- A4 Colour printer - ideal for both home & business use
- 720 x 360dpi
- Up to 4.5ppm mono, 2ppm colour
- Image Optimiser technology
- optional colour image scanner cartridge
- 1 year return to canon warranty

Canon BJC-7000 £159 ex vat £186.82 inc vat

- A4 Colour printer - ideal for high quality DTP & Graphics
- 1200 x 600dpi
- New P-POP printing technology
- Unrivaled plain paper output
- Prints on card up to 550gsm
- Image Optimiser technology
- New large capacity cartridges
- A4+ size paper support gives full A4 bleed

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

- 8 ppm, PCL 6e
- 600 x 600 dpi resolution
- 150 sheet standard paper capacity
- 500 sheet second cassette option
- Ideal Desktop Laser printer with PCL 6 emulation for multi platform use; dedicated for small office and home environments.

MINOLTA PagePro 8L £194 ex vat £227.95 inc vat

- 12 ppm / 100 MHz RISC
- PCL 5e / Adobe PS option
- Ethernet / envelope cassette option
- 1250 sheets paper input

MINOLTA PagePro 8E £315 ex vat £370.12 inc vat

- 20 ppm A4 / 100 MHz RISC
- PCL 5e / Adobe PS option
- Ethernet / internal HD drive option
- 1150 sheets paper input

MINOLTA PagePro 12 £539 ex vat £633.32 inc vat

- 3 ppm full colour 12 ppm black
- Intel 33MHz RISC processor
- 4MB standard memory
- 150 sheet multipurpose tray & 250 sheet A4 cassette
- Optional 2nd 250 sheet cassette
- Upgradeable to Postscript Level 2
- True 600 dpi colour resolution

MINOLTA Colour PagePro £1525 ex vat £1791.87 inc vat

Guaranteed Lowest Prices at tech direct!!

Tech Direct Exclusive Offer!!

Limited availability First come first served.

LOOK... FREE !!

GET COREL GALLERY MAGIC 65,000 FREE WITH ANY OF THE EPSON INKJET PRINTERS FEATURED HERE !!

EPSON



Go further™



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 900

Fastest Colour Inkjet Printer

- Fastest colour inkjet printer - Black text 12.6ppm in mono - 12.2ppm black and colour text
- EPSON Ultra MicroDot - The worlds smallest ink droplet in black and colour
- High capacity dual ink cartridges for volume printing
- 1440dpi with variable sized droplet technology
- 1440dpi printing on plain paper
- PhotoEnhance3 for instant image Enhancer
- Parallel, USB, Mac serial, Ethernet Interface
- Win 3.1/95/98, NT 4.0, DOS & MAC
- 1 year RTB warranty
- EPSON CoverPlus 3 yr warranty option



£261 ex vat
£306.67 inc vat

THE NEW EPSON STYLUS PHOTO 750

Highest Quality Photo Printer for Everyday Needs

- EPSON Ultra MicroDot technology
- 1440dpi with variable-sized Droplet Technology
- EPSON PhotoEnhance 3 for Optimisation of Digital Images
- Enhanced print speeds for Photo's, graphics and text
- Optimised for photo quality
- 1440dpi printing on plain paper
- Parallel, USB, MAC serial, Type B
- Built in Parallel and USB ports
- Win 95/98, NT 4.0, DOS & MAC
- 1 year RTB warranty as standard
- EPSON CoverPlus 3 yr warranty option



£177 ex vat
£207.97 inc vat

THE EPSON STYLUS COLOR 740

Ultra MicroDot - The world's smallest ink droplet!

- 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



£147 ex vat
£172.72 inc vat

THE EPSON STYLUS COLOR 640

A perfect introduction to colour printing at home

- 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



£118 ex vat
£138.65 inc vat

EPSON STYLUS COLOR 440

- 720dpi PhotoReal colour & black printing
- Designed for ease of use - ideal for first time buyers
- New Printer Driver Enhancements
- High quality on all media including plain paper
- Advanced Dual-Cartridge Ink System
- New Full Function Status Monitor



£96 ex vat **£112.80 inc vat**

EPSON GT-9600 Scanner

- Optical Resolution 800 x 3200dpi with Micro Step Drive
- 36bit colour scanning and output
- Dynamic range of 3.3D
- EPSON Advanced Scanning Technology
- High speed scanning - a leader in it's class
- 1 year RTB with optional 3 year extended warranty



From **£411 ex vat** **£482.92 inc vat**

EPSON STYLUS PHOTO 700

- 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



£133 ex vat **£156.27 inc vat**

| | ex vat | inc vat | | NEW | Call |
|------------------|--------|----------|-------------|-------|----------|
| FilmScan 200 | £303 | £356.03 | EPL-N1200 | £593 | £696.77 |
| StylusColor 300 | £76 | £89.30 | EPL-N1200EN | £791 | £929.42 |
| StylusColor 800 | £207 | £243.22 | EPL-N1200PS | £986 | £1158.55 |
| StylusColor 850 | £207 | £243.22 | EPL-N2000 | £1278 | £1501.65 |
| StylusColor 1000 | £292 | £343.10 | EPL-N2000PS | £1582 | £1858.85 |
| StylusColor 1520 | £451 | £529.92 | EPL-5700 | £304 | £357.20 |
| StylusColor 3000 | £1118 | £1313.65 | EPL-5700EN | NEW | Call |
| StylusPhoto | £147 | £172.72 | EPL-5700PS | NEW | Call |

| Original Toners | | |
|------------------------|--------|---------|
| Other | 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/IIIP | £51 | £59.92 |
| LaserJet I/III | £43 | £50.52 |
| LaserJet 4/4+/5 | £41 | £48.17 |
| LaserJet 4L/4P | £42 | £49.35 |
| LaserJet 4V | £42 | £49.35 |
| LaserJet 5P/5P | £49 | £57.57 |
| LaserJet 5L | £38 | £44.65 |
| LaserJet 55/8000 | £94 | £110.45 |
| LaserJet 4000 | £54 | £63.45 |
| LaserJet 5000 | £92 | £108.10 |
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| 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 |
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| 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 |
| Fluorescent | | |
| BJ-300/330 Black | £7 | £8.22 |
| BJC-800 Black | £10 | £11.75 |
| BJC-800 Colour | £14 | £16.45 |
| BJC-800/610/620/Bk | £4 | £4.70 |
| BJC-800/610/620/Ci | £4 | £4.70 |
| BJ-3070 Black | £19 | £22.32 |
| BJ-3070 Colour | £8 | £9.40 |
| Tank 3 pack | £22 | £25.85 |
| BJC-70 Colour | £8 | £9.40 |
| BJC-70 Black Tank 3 Pack | £6 | £7.05 |
| BJC-70 Colour Tank 3 Pack | £10 | £11.75 |
| BJC-4000/5500 Bk | £17 | £19.97 |
| BJC-4200/4300 Colour | £23 | £27.02 |
| BJC-4000/5500 Black Tank | £4 | £4.70 |
| BJC-4000/5500 Colour Tank | £10 | £11.75 |
| BJC-7000 Black | £18 | £21.15 |
| BJC-7000 Colour | £20 | £23.50 |
| BJC-7000 Photo Colour | £28 | £32.90 |
| BJC-7000 Photo Ink Tank | £18 | £21.15 |

| EPSON | | |
|------------------------|--------|---------|
| | ex vat | inc vat |
| Stylus 800/1000 Bk | £6 | £7.05 |
| Stylus 300 Black | £14 | £16.45 |
| Stylus Colour/Pro Bk | £9 | £9.40 |
| Stylus Colour/Pro Ci | £16 | £18.80 |
| Stylus 200/820/0i Bk | £11 | £12.92 |
| Stylus 200/500 Ci | £17 | £19.97 |
| Stylus 1500 Black | £26 | £30.55 |
| Stylus Pro XL+ Ci | £17 | £19.97 |
| Colour | | |
| Stylus 4/5/600 P/Bk | £13 | £15.27 |
| Stylus 200/500 Ci | £17 | £19.97 |
| Stylus 800/1520 Bk | £13 | £15.27 |
| Stylus Photo 5 Ci | £11 | £12.92 |
| Stylus 3000 B/Ci | £31 | £36.42 |
| Stylus 300 Colour | £12 | £14.10 |
| HEWLETT PACKARD | | |
| DJ 400/50x Black | £17 | £19.97 |
| DJ 400/50x Colour | £18 | £21.15 |
| DJ 600/70/890 Bk | £17 | £19.97 |
| DJ 720/800/1100 Bk | £17 | £19.97 |
| DJ 820/870/890 | £17 | £19.97 |
| DJ 690 PhotoRealist | £19 | £22.32 |
| DJ 720/890 Colour | £21 | £24.67 |
| DJ Port310/320/340 | £14 | £16.45 |
| DJ 1600 B/Ci | £17 | £19.97 |
| PJ XL300 Black | £20 | £23.50 |
| PJ XL300 Colour | £21 | £24.67 |
| LEXMARK | | |
| 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 | £18 | £21.15 |
| ColourJet 1020 Bk | £23 | £27.02 |
| ColourJet 2070 Bk | £26 | £30.55 |
| ColourJet 2070 Ci | £23 | £27.02 |
| ColourJet 2050 Bk | £18 | £21.15 |

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| 16PS | £899 | £821.32 | 20ENPS | £1099 | £1220.82 | ML3320 | £349 | £410.07 | ML3390 | £349 | £410.07 | OKIFAX 5200+ | £789 | £927.07 |
| 16EN | £899 | £1126.82 | 20ENDX | £1099 | £1256.07 | ML3321 | £416 | £488.80 | ML3391 | £416 | £488.80 | OKIFAX 5500+ | £899 | £1162.07 |
| 16ENPS | £899 | £1021.07 | 8CEN | £2199 | £2501.57 | ML520 | £399 | £430.05 | ML590 | £466 | £547.55 | OKIFAX 2600 | £1499 | £1749.57 |
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| 20NPS | £899 | £1056.32 | ML320 | £333 | £391.27 | ML3410 | £699 | £1056.32 | OKIFAX 4100 | £399 | £468.82 | OKIFAX 740MF | £329 | £386.57 |
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*using the optional Photo Print Cartridge

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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 cartridges

XEROX 4512 £699 ex vat £821.32 inc vat
XEROX 4512N £779 ex vat £915.32 inc vat
XEROX 4512MP £989 ex vat £1162.07 inc vat

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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
- Up to 12 pages per minute performance
- 30Mb standard memory - upgradable
- Multiple media versatility
- PCL 5C emulation, Adobe PostScript L2

XEROX C55 £1499 ex vat £1761.32 inc vat
XEROX C55MP £1999 ex vat £2348.82 inc vat
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- High quality colour and monochrome output
- Copying up to 99 pages
- Up to 6ppm mono
- Up to 1ppm colour

XEROX HomeCentre £149 ex vat £175.07 inc vat
XEROX WorkCentre £249 ex vat £292.57 inc vat

DOCUPRINT XJ4C/6C/8C

- 4 ink print head system
• Prints 6ppm Mono, 1.5 ppm Colour
• Suitable for both DOS and Win Printers
• Free image software enhancement
- 600x600 dpi (1200x600 dpi High res)
• Prints 5 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 quality print cartridge

XEROX XJ4C £89 ex vat £104.57 inc vat
XEROX XJ6C £94.95 ex vat £111.56 inc vat
XEROX XJ8C £138.95 ex vat £163.26 inc vat

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|-------|---------|----------|-------|-------|----------|
| 4508 | £269 | £316.07 | N32 | £1649 | £1937.57 |
| N17B | £649 | £762.57 | N32CN | £2599 | £3053.82 |
| N17BN | £699 | £821.32 | N32FM | £3999 | £4698.82 |
| N24 | £1499 | £1761.32 | N40 | £1899 | £2231.32 |
| C20 | £499 | £586.32 | NC20 | £765 | £898.87 |
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| EZCD x24 | £79 | £92.82 |
| EZCD x32 | £85 | £99.87 |
| EZCD Sound x24 | £129 | £151.57 |
| EZCD Sound x32 | £135 | £158.62 |
| EZCD Card x24 | £95 | £111.62 |
| EZCD Card x32 | £99 | £116.32 |
| EZCD Plus x10 | £144 | £169.20 |
| EZCD Plus x20 | £145 | £170.37 |
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| CREATIVE LABS | | |
| CR-585B | £27 | £31.72 |
| Blaster 24x retail | £35 | £41.12 |
| Blaster 32x retail | £42 | £49.35 |
| Discovery 24x kit | £79 | £92.82 |
| Blaster DVD 5x | £85 | £99.87 |
| PC-DVD Encore DXR2 | £149 | £175.07 |
| DRIVE | | |
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| 26X CD-ROM | £27.99 | £32.88 |
| MITSUMI | | |
| FX-320 retail | £31.99 | £37.58 |
| FX-320 OEM | £27.50 | £32.31 |
| PHILIPS | | |
| PCA 32x | £30 | £35.25 |
| PCA 36x | £29.99 | £35.23 |
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| DRD 5320 DVD | £120 | £141.00 |
| PLEXTOR | | |
| UltraPlex PX32T5I | £65 | £76.37 |
| UltraPlex PX32CSI | £99 | £116.32 |
| UltraPlex PX32TSE | £109 | £128.07 |
| TOSHIBA | | |
| XM6302B 32x | £34 | £39.95 |
| SDM1202B DVD | £89 | £104.57 |

CDR & CD-RW

| | | |
|----------------|------|---------|
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| PlexWriter | | |
| PX-R4120i SCSI | £185 | £217.37 |
| PX-R4120e SCSI | £139 | £168.82 |

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| Product | ex vat | inc vat |
|---------------------------|--------|---------|
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| Jumangi | £19.95 | £23.44 |
| Fly Away Home | £19.95 | £23.44 |
| A Few Good Men | £19.95 | £23.44 |
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CRW4261T

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- Includes: Mounting hardware, audio cable, user guide
- Direct CD & Easy CD Creator software

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- Supports fixed & variable packet writing
- Supports Adaptec Direct CD™
- Complete kit includes PnP SCSI Card, Manual & Software

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Pioneer, world famous for in-car sound systems and one of the leaders in CD-Rom technology, bring you a range of superb quality CD-Rom drives with the slot loading mechanism which not only looks great but prevents damage to your software too!

OEM products inc. Drive unit, installation guide, & CD Audio cable only.

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| DR-704S ATAPI OEM £33.99 ex vat £39.93 inc vat | DR-706S SCSI OEM £49.99 ex vat £58.73 inc vat | DR-744 IDE TRAY £29.99 ex vat £35.23 inc vat |
| DVD 108S IDE 6x32x £85.00 ex vat £99.87 inc vat | DVD 308S SCSI 6x32x £109 ex vat £128.07 inc vat | |

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CD-RW 74 - Compatibility and the highest possible reliability characterise the new MAXELL CD-RW. A particular feature of the CD-RW is it can be re-written more than a thousand times.

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- Complies with Orange Book Part II Specifications.

DVD-R 39 £34.94 ex vat £41.06 inc vat

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- Printable CD-R with white disc surface (identical quality as CD-R 74XL).
- Suited to link-jet and thermal printing
- CD-R with your own personal appearance.

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| LaCie DVD-RAM | £449 | £527.57 |
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| LaCie CDRW 4x2x6 | £245 | £287.87 |
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| LaCie CDROM (parallel) 24x | £79.99 | £93.98 |



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Expanding Possibilities

No1. IN CD - WRITER SOLUTIONS

HP CD-Writer Plus 7200i / 7200e



Inc. £200 of Software

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, Adobe Photo Deluxe, DocuMagix PaperMaster Live, Adaptec Easy CD Creator.

- Stores up to 650Mb of data or up to 74 mins audio.
- 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.
- One-year standard exchange warranty

| | | |
|-------|----------------|-----------------|
| 7200i | £134.99 ex vat | £158.61 inc vat |
| 7200e | £218.99 ex vat | £257.31 inc vat |

HP CD-Writer Plus 8100i

NEW Product!! 24x4x2



| | | |
|--|----------------|-----------------|
| | £209.95 ex vat | £246.69 inc vat |
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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. Creates CDs compatible with most future DVD ROM and DVD-RW players. Drag and Drop files onto CD or write direct to disc from applications (Windows 95,98 & Win NT v4.0).

Inc Software (please ask) "HP Branded" ReWritable CD £19 "HP Branded" ReWritable CD x 3 £39

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NEW!! 4x8 Recorder Out Now!!



MITSUMI AUDIO CDs SELF-MADE

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
£143.99 ex vat £169.18 inc vat

2x8 CD-R

MITSUMI CR 2801TE
£112.99 ex vat £132.76 inc vat



Let's make things better.

CDD3610 EIDE Full Kit

(inc. 2x2x6 CD-RW, EZ CD Creator, Cables, 1 x CDR & Manuals)



Amazing Value CD-RW only

Parallel port Internal Kit

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|------------------------|----------------|-----------------|
| PHILIPS CDD3610 | £193.00 ex vat | £226.77 inc vat |
|------------------------|----------------|-----------------|

SCSI Internal Kit

| | | |
|------------------------|----------------|-----------------|
| PHILIPS CDD3600 | £167.99 ex vat | £197.38 inc vat |
| PHILIPS | £147.99 ex vat | £173.88 inc vat |

CD-ROM, CD-RECORDABLE, CD-REWRITABLE. ALL IN ONE.

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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"The future for desktop removable storage". "The combination of CD-R and CD-RW in one drive is simply too useful to ignore".

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Hard Drives

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| IDE | | |
| MPB3021 2.1GB | £68 | £79.90 |
| MPB3032 3.2GB | £72 | £84.60 |
| MPB3043 4.3GB | £79 | £92.82 |
| MPB3054 5.4GB | £89 | £116.32 |
| MPB3084 8.4GB | £119 | £139.82 |
| MPB3102 10.2GB | £144 | £169.20 |
| WESTERN DIGITAL | | |
| IDE | | |
| WDAC22500 2.5GB | £74 | £86.95 |
| WDAC33200 3.2GB | £79 | £92.82 |
| WDAC34300 4.3GB | £85 | £99.87 |
| WDAC35600 5.1GB | £94 | £110.45 |
| WDAC36400 6.4GB | £99 | £116.32 |
| WDAC38400 8.4GB | £119 | £139.82 |
| WDAC31010 10GB | £139 | £163.32 |

Back-Up Devices

| | | |
|---------------------|-------|----------|
| Panasonic | | |
| PD Drive 650Mb IDE | £179 | £210.32 |
| PD Drive 650Mb P | £224 | £263.20 |
| PD Drive 650Mb S | £199 | £233.82 |
| Quantum | | |
| DLT 4000 SCSI | £159 | £1878.82 |
| DLT 7000 SCSI | £359 | £4228.82 |
| Seagate | | |
| Tapestor 8000 IDE | £153 | £179.77 |
| Tapestor 8000S SCSI | £159 | £186.82 |
| Tapestor 8000S Ext | £225 | £264.37 |
| Seagate DAT | | |
| STD2400N 4GB | £329 | £386.52 |
| STD2800N 8GB | £419 | £492.37 |
| SONY | | |
| SDT-5200 SCSI | Call | |
| SDT-7000 SCSI | £429 | £504.07 |
| SDT-9000 SCSI | £559 | £656.82 |
| Autoloader SCSI | £1159 | £1361.82 |

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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 | £89.95 | £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 |
| Zip Drive USB | £79.99 | £93.98 | Zip Disk 6 Pack | £35 | £41.12 |

The Buz MultiMedia

The easiest way to get multimedia into your PC, personalise it, and share it with others!

- Ultra SCSI technology
- Data transfer rate of up to 20MB/sec
- Motion JPEG video capture and Play back
- Onboard hardware compression up to 80:1
- 768x 576 @ 25 frames per second
- In/Out connectors for S-Video, composite video & Stereo Audio
- VideoWave SE Plus, HotShots, RecordIt



Buz MultiMedia £109.95 £129.19

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 £59 £64.62

The 250Mb ZIP Drive

The Iomega® Zip® drive solution is the preferred way to save, backup and collect your important files.

In keeping with Iomega's commitment to respond to our customers needs, we are proud to announce the newest extension to the Zip® family - the Iomega® Zip® 250 drive and disks.



| | | |
|---------------------------|------|---------|
| 250Mb SCSI External | £109 | £128.07 |
| 250Mb Parallel Port Drive | £108 | £128.07 |

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 |
| Ditto Max Pro Int (10Gb) | £119 | £139.82 |

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 Jaz cartridge
- Fast - 7.35Mb/s average transfer rate
- 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 |
| 2Gb Disk x 3 | £144 | £169.20 |

hp HEWLETT PACKARD

Expanding Possibilities

No.1. In Back-Up Solutions

HP Colorado 5GB/8GB

Capacity up to 5GB compressed (8GB on 8GB model)
Sustained transfer rate of 40-55Mb/min (30-50 Mb/min on 8GB model)
Includes Colorado Backup V2 by Computer Associates for Win 95, Windows & DOS
Disaster recovery for Windows 95
Lowest HP Colorado 5GB/8GB media
Install Assistant software for easy installation

| | | |
|------------------|-------------|-----------------|
| Colorado 5GB Int | £99 ex vat | £116.32 inc vat |
| Colorado 8GB Int | £134 ex vat | £157.45 inc vat |

HP SureStore T20 In/Ext

Easy to use backup for Entry Level Servers
Capacity 20GB compressed
Includes Site Replica for Win NT & Novell Network
Up to 120 Mb/minute compressed
HP TapeAssure and TapeAlert for industry-leading reliability
Compatible with NT and Network operating systems

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|--------------|----------------|-----------------|
| T20 Internal | £243.95 ex vat | £286.64 inc vat |
| T20 External | £294.95 ex vat | £346.56 inc vat |

HP SureStore DAT 8/24

Capacity of 8GB and transfer rate of 1Mb/s (24GB capacity, transfer rate of 2Mb/s on DAT24 model)
TapeAlert and HP TapeAssure for greater reliability
Read-After-Write data verification
Compatible with all major operating systems
HP DDS-2 media for max quality and reliability

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| SureStore DAT8i | £463 ex vat | £551.07 inc vat |
| SureStore DAT24i | £669 ex vat | £786.07 inc vat |

HP SureStore DLT 40/70

40GB of unattended backup (70GB on DLT 70 model)
3.0 Mb/s sustained transfer rate (10Mb/s on DLT 70 model)
TapeAlert and HP TapeAssure for greater reliability
Advanced error detection and correction techniques
Reliable DLT Technology
HP DLT media for max quality and reliability

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|------------------|--------------|------------------|
| SureStore DLT40e | £1749 ex vat | £2055.07 inc vat |
| SureStore DLT70e | £3649 ex vat | £4287.57 inc vat |

| | | | | | |
|-----------------|---------|---------|---------|-------|----------|
| DAT 24e | £739 | £868.32 | DLT 40i | £1589 | £1867.07 |
| SureStore T20Xi | £294.95 | £346.56 | DLT 70i | £3288 | £3864.57 |
| SureStore T20Xe | £349.95 | £411.19 | DAT 8e | £549 | £645.07 |

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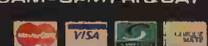
Only £59.95 ex vat (£70.44 inc vat)
Inc. 4 LS-120 Disks.

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| MITSUBISHI | | |
| LS 120 Disk | £9 ex vat | £10.57 inc vat |
| LS 120 Internal OEM | £49 ex vat | £57.57 inc vat |

• Provides 120MB storage in a format compatible with conventional 3.5" HD and DD diskettes.



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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 | £69.99 | £82.23 |
| 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 | £93.99 | £110.43 |
| Fireball EX series | 10.2Gb | EIDE/Ultra DMA | 9.5ms | 5400 | £139 | £163.32 |
| Fireball EL series | 12.7Gb | EIDE/Ultra DMA | 9.5ms | 5400 | £147.99 | £173.88 |

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 | £84.99 | £99.66 |
| Fireball EL series | 7.6Gb | EIDE/Ultra DMA | 9.5ms | 5400 | £105.99 | £124.53 |
| Fireball EL series | 10.2Gb | EIDE/Ultra DMA | 9.5ms | 5400 | £127.99 | £151.38 |

Atlas III - Ideal for workstation and high-end Users!

| Models | Capacity | Interface | Access time | Speed | ex vat | inc vat |
|-----------|----------|----------------|-------------|-------|--------|---------|
| Atlas III | 9.1Gb | SCAUSCSI | 8ms | 7200 | £299 | £351.32 |
| Atlas III | 9.1Gb | UltraWide SCSI | 8ms | 7200 | £299 | £351.32 |
| Atlas III | 18.2Gb | SCAUSCSI | 8ms | 7200 | £559 | £666.82 |
| Atlas III | 18.2Gb | UltraWide SCSI | 8ms | 7200 | £559 | £666.82 |

Viking II - For Maximum Storage Potential!

| Models | Capacity | Interface | Access time | Speed | ex vat | inc vat |
|-----------|----------|----------------|-------------|-------|--------|---------|
| Viking II | 4.5Gb | SCAUSCSI II | 7.5ms | 7200 | £159 | £186.82 |
| Viking II | 4.5Gb | UESCSI | 7.5ms | 7200 | £159 | £186.82 |
| Viking II | 9.1Gb | SCAUSCSI II | 7.5ms | 7200 | £269 | £316.07 |
| Viking II | 9.1Gb | UltraWide SCSI | 7.5ms | 7200 | £269 | £316.07 |

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 | £84.99 | £99.86 |
| BFTsunami 512K cache | 8.4Gb | EIDE/Ultra DMA 33 | 10.5ms | 4000 | £124.99 | £146.86 |
| BFTsunami 512K cache | 12.7Gb | EIDE/Ultra DMA 33 | 10.5ms | 4000 | £139.99 | £164.48 |
| BFTsunami 512K cache | 19.2Gb | EIDE/Ultra DMA 33 | 10.5ms | 4000 | £199.99 | £234.98 |

FUJITSU

Fujitsu's latest MR head and PRML technology make capacities up to 10.2GB affordable for desktop PCs whilst maintaining performance and reliability.

- The latest generation of MR heads provide even higher areal density.
- High data transfer rates up to 19.8MB/sec
- Ultra DMA 33 33MB/s
- S.M.A.R.T (self monitoring analysis & reporting technology)
- Support Security Command

| Model | Capacity | Buffer | Time | Speed | ex vat | inc vat |
|-----------|----------|--------|------|-------|--------|---------|
| MPC3032AT | 3.24GB | 256KB | 10ms | 5,400 | £75 | £88.12 |
| MPC3043AT | 4.32GB | 256KB | 10ms | 5,400 | £85 | £99.87 |
| MPC3064AT | 6.48GB | 256KB | 10ms | 5,400 | £99 | £116.32 |
| MPC3084AT | 8.45GB | 256KB | 10ms | 5,400 | £119 | £139.82 |
| MPC3096AT | 9.74GB | 256KB | 10ms | 5,400 | £129 | £151.57 |
| MPC3102AT | 10.2GB | 256KB | 10ms | 5,400 | £139 | £163.32 |

Hard disk drives



As a pioneer in the disk drive industry, IBM continues to provide advanced-technology drives with the unmatched performance and reliability needed to handle today's data-intensive applications.

| Models | Capacity | Interface | Access time | Speed | ex vat | inc vat |
|--------------------|----------|-------------------|-------------|-------|--------|---------|
| Titan 14GXP | | | | | | |
| 03L5261 | 10.1Gb | EIDE/Ultra DMA/33 | 9.5ms | 7200 | £159 | £186.82 |
| 00K4071 | 14.4Gb | EIDE/Ultra DMA/33 | 9.5ms | 7200 | £219 | £257.32 |
| 25L2659 | 18.0Gb | EIDE/Ultra DMA/33 | 9.5ms | 7200 | £279 | £327.82 |
| 25L2661 | 22.0Gb | EIDE/Ultra DMA/33 | 9.5ms | 7200 | £345 | £405.37 |
| Titan 16GP | | | | | | |
| 00K4115 | 6.4Gb | EIDE/Ultra DMA/33 | 9.5ms | 5400 | £105 | £123.37 |
| 00K4101 | 8.4Gb | EIDE/Ultra DMA/33 | 9.5ms | 5400 | £109 | £128.07 |
| 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 |
| 25L2650 | 20.3Gb | EIDE/Ultra DMA/33 | 9.5ms | 5400 | £295 | £346.82 |
| 25L2652 | 25.0Gb | EIDE/Ultra DMA/33 | 9.5ms | 5400 | £349 | £410.07 |
| UltraStar | | | | | | |
| 9ES 1" | 9.1Gb | UltraSCSI | 7.5ms | 7200 | £309 | £363.07 |
| 9ES 1" | 9.1Gb | UltraWide SCSI | 7.5ms | 7200 | £325 | £381.87 |
| 9ZX 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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Medalist EIDE Range

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| Models | Capacity | Interface | Access time | Speed | ex vat | inc vat |
|-------------------|----------|-----------------|-------------|-------|---------|---------|
| Medalist ST32122A | 2.1Gb | EIDE/Ultra ATA3 | 10.5ms | 5400 | £55.9 | £65.78 |
| Medalist ST33210A | 3.2Gb | EIDE/Ultra ATA3 | 9.5ms | 5400 | £67.9 | £79.88 |
| Medalist ST34321A | 4.3Gb | EIDE/Ultra ATA3 | 10.5ms | 5400 | £74.99 | £88.11 |
| Medalist ST36531A | 6.5Gb | EIDE/Ultra ATA3 | 10.5ms | 5400 | £89.99 | £105.73 |
| Medalist ST36841A | 8.6Gb | EIDE/Ultra ATA3 | 10.5ms | 5400 | £109.99 | £129.76 |
| Medalist ST39140A | 9.1Gb | EIDE/Ultra ATA3 | 9.5ms | 7200 | £129.99 | £152.73 |

Barracuda SCSI Range

| Models | Capacity | Interface | Access time | Speed | ex vat | inc vat |
|----------------------|----------|-------------------|-------------|-------|--------|---------|
| Barracuda ST34573LW | 4.5Gb | LVD | 8ms | 7200 | £301 | £353.67 |
| Barracuda ST34573LC | 4.5Gb | LVD SCA | 8ms | 7200 | £304 | £357.20 |
| Barracuda ST34573FC | 4.5Gb | Fibre Channel | 8ms | 7200 | £361 | £424.17 |
| Barracuda ST39173N | 9.1Gb | UltraSCSI | 8ms | 7200 | £348 | £408.90 |
| Barracuda ST39173W | 9.1Gb | UltraWideSCSI | 8ms | 7200 | £348 | £408.90 |
| Barracuda ST39173WC | 9.1Gb | UltraWideSCSI SCA | 8ms | 7200 | £368 | £432.40 |
| Barracuda ST39173WD | 9.1Gb | Wide Differential | 8ms | 7200 | £454 | £533.45 |
| Barracuda ST39173LW | 9.1Gb | LVD | 8ms | 7200 | £384 | £451.20 |
| Barracuda ST39173LC | 9.1Gb | LVD SCA | 8ms | 7200 | £384 | £451.20 |
| Barracuda ST39173FC | 9.1Gb | Fibre Channel | 8ms | 7200 | £354 | £415.95 |
| Barracuda ST118273N | 18.2Gb | UltraSCSI | 8.3ms | 7200 | £644 | £756.70 |
| Barracuda ST118273W | 18.2Gb | UltraWideSCSI | 8.3ms | 7200 | £648 | £761.40 |
| Barracuda ST118273WC | 18.2Gb | UltraWideSCSI SCA | 8.3ms | 7200 | £648 | £761.40 |
| Barracuda ST118273WD | 18.2Gb | Wide Differential | 8.3ms | 7200 | £704 | £827.20 |
| Barracuda ST118273LW | 18.2Gb | LVD | 8.3ms | 7200 | £655 | £769.62 |
| Barracuda ST118273LC | 18.2Gb | LVD SCA | 8.3ms | 7200 | £655 | £769.62 |
| Barracuda ST118273FC | 18.2Gb | Fibre Channel | 8.3ms | 7200 | £661 | £776.67 |

Cheetah Range

| Models | Capacity | Interface | Access time | Speed | ex vat | inc vat |
|--------------------|----------|---------------|-------------|-------|--------|---------|
| Cheetah ST39102LC | 9.1Gb | LVD SCA | 6ms | 10000 | £435 | £511.12 |
| Cheetah ST39102FC | 9.1Gb | Fibre Channel | 6ms | 10000 | £444 | £521.70 |
| Cheetah ST118202LW | 18.2Gb | LVD | 6.5ms | 10000 | £804 | £944.70 |
| Cheetah ST118202LC | 18.2Gb | LVD SCA | 6.5ms | 10000 | £806 | £947.05 |
| Cheetah ST118202FC | 18.2Gb | Fibre Channel | 6.5ms | 10000 | £828 | £972.90 |

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- Phone technicians availability Monday-Friday

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- On-the-fly ECC maintains maximum performance while correcting multiple error bursts
- <9ms average seek
- 512K MaxCache manager algorithms
- >= 500,000 hours MTBF
- Zone density recording
- 1 inch high
- Automatic actuator lock
- Low power consumption
- ATA power saving commands
- Supports EPA Energy Star standards (Green PC friendly)
- S.M.A.R.T. System Compliant

DiamondMax 4320 Series ULTRA DMA33

| Capacity | Interface | Access time | Speed | ex vat | inc vat |
|----------|-----------|-------------|-------|--------|---------|
| 4.3Gb | ULTRA DMA | <9ms | 5400 | £78 | £91.65 |
| 6.4Gb | ULTRA DMA | <9ms | 5400 | £95 | £111.62 |
| 8.4Gb | ULTRA DMA | <9ms | 5400 | £107 | £125.72 |
| 10.8Gb | ULTRA DMA | <9ms | 5400 | £124 | £145.70 |
| 13Gb | ULTRA DMA | <9ms | 5400 | £154 | £180.95 |
| 17.2Gb | ULTRA DMA | <9ms | 5400 | £199 | £233.82 |

DiamondMax 3400 Series ULTRA DMA33

| Capacity | Interface | Access time | Speed | ex vat | inc vat |
|----------|-----------|-------------|-------|--------|---------|
| 3.4Gb | ULTRA DMA | 9ms | 5400 | £73 | £85.77 |
| 6.8Gb | ULTRA DMA | 9ms | 5400 | £94 | £110.45 |
| 8.4Gb | ULTRA DMA | 9ms | 5400 | £108 | £126.90 |
| 10.2Gb | ULTRA DMA | 9ms | 5400 | £125 | £146.87 |
| 13.6Gb | ULTRA DMA | 9ms | 5400 | £154 | £180.95 |

DiamondMax Pros 2500 Series ULTRA DMA33

| Capacity | Interface | Access time | Speed | ex vat | inc vat |
|----------|-----------|-------------|-------|---------|---------|
| 5.0Gb | ULTRA DMA | 9ms | 7200 | £99 | £116.32 |
| 7.5Gb | ULTRA DMA | 9ms | 7200 | £124.99 | £146.86 |
| 10.0Gb | ULTRA DMA | 9ms | 7200 | £149.99 | £176.23 |

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Motherboards

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|--------------------|--------|---------|
| ASUSTEK | ex val | inc vat |
| PSA-B Aladdin5 100 | £59 | £69.32 |
| PSA Aladdin 5 100 | £59 | £69.32 |
| P2E-B 440EX | £68 | £79.90 |
| P2E-M 440EX | £72 | £84.60 |
| P2E-VN 440EX | £125 | £146.87 |
| P2L97 440LX | £75 | £88.12 |
| P2L97-S 440LX | £126 | £151.57 |
| P2L97-D 440LX | £209 | £245.57 |
| P2L97-A 440LX | £119 | £139.82 |
| P2B 440BX | £99 | £116.32 |
| P2B-S 440BX | £179 | £210.32 |
| P2B-Dual 440BX | £279 | £327.82 |
| P2B-LS Dual 440BX | £219 | £257.32 |
| GIGABYTE | | |
| GA5AX 100MHz | £55 | £64.62 |
| GA6EX 440EX | £74 | £86.95 |
| GA6EM 440EX | £69 | £81.07 |
| GA6EMM 440EX | £105 | £123.37 |
| GA66Lx4 440LX | £71 | £83.42 |
| GA66Bx 440BX | £89 | £104.57 |
| GA6BA 440BX | £99 | £116.32 |
| GA6BX 440BX | £169 | £198.57 |
| GA6BXDS 440BX | £199 | £233.82 |
| intel | | |
| Atlanta AL440LX | £79 | £92.82 |
| SE440BX | £89 | £104.57 |
| SE440 with sound | £99 | £116.32 |
| MU440EX | £88 | £103.40 |

Keyboards

| | | |
|-----------------------------|-------|---------|
| CHERRY | | |
| 105 Key Win 95 Soft Touch | £16 | £18.80 |
| 105 Key W 95 PS/2 SoftTouch | £16 | £18.80 |
| 105 Key W 95 Non-Click | £21 | £24.67 |
| 105 Key W 95 PS/2 Non-Click | £21 | £24.67 |
| 105 Key W 95 Click | £33 | £38.77 |
| Genius | | |
| 105 Key Win 95 | £9.95 | £11.69 |
| Microsoft | | |
| Natural Win 95 | £98 | £132.90 |
| MITSUMI | | |
| 105 Key Win 95 | £8 | £9.40 |
| 105 Key Win 95 PS/2 | £9 | £10.57 |

Mice

| | | |
|--------------------------------|-----|--------|
| Genius | | |
| NetMouse Pro (scroll mouse) | £9 | £10.57 |
| Logitech | | |
| Pilot (Serial or PS/2) | £11 | £12.95 |
| Pilot mouse+ (scrolling mouse) | £14 | £16.45 |
| MouseMan + (scrolling mouse) | £24 | £28.20 |
| Trackman Portable | £32 | £37.60 |
| Trackman Marble | £34 | £39.95 |
| SurfMan Cordless | £44 | £51.70 |
| MouseMan 96 Combo | £26 | £30.55 |
| MouseMan Cordless Pro | £34 | £39.95 |
| Microsoft | | |
| Home | £14 | £16.45 |
| Easyball Trackball | £18 | £21.15 |
| Intellipoint | £22 | £25.85 |
| IntelliMouse | £24 | £28.20 |
| Intellipoint Trackball | £31 | £36.42 |
| MITSUMI | | |
| 2button Serial | £5 | £5.87 |

Joysticks

| | | |
|-------------------------------|-------|--------|
| PRODUCTS | | |
| Flight Stick | £26 | £30.55 |
| Flight Stick Pro | £43 | £50.52 |
| F-16 Flight Stick | £34 | £39.95 |
| F-16 Combat Stick | £64 | £63.45 |
| Virtual Pilot Flight Throttle | £95 | £64.62 |
| Pro Pedals | £55 | £64.92 |
| Genius | | |
| F-20 Flight 2000 with SU-27 | £19.5 | £22.91 |
| Microsoft | | |
| Sidewinder | £19 | £22.33 |
| GamePad | £23 | £27.03 |
| Sidewinder 3D Pro | £35 | £41.13 |
| Precision Pro | £35 | £41.13 |
| Force Feed Pro | £78 | £91.65 |

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CREATIVE LABS

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|---|------|---------|
| SB PCI 128 | £32 | £37.60 |
| SB Live! | £99 | £116.32 |
| SB Live! Value | £47 | £55.22 |
| SB16 NON IDE | £17 | £19.97 |
| PC-DVD Encore Kit II (5X DVD / DXR2 card) | £129 | £151.57 |
| Blaster DVD 5X | £85 | £99.87 |
| Blaster 32X | £42 | £49.35 |
| TV Coder external | £105 | £123.37 |
| WebCam II USB | £50 | £58.75 |
| PC Works FourPointSurround Speaker System | £55 | £64.62 |
| PCI 128 & FourPointSurround Speakers | £69 | £81.07 |

adaptec

AHA-2920 kit PCI

- Easy Plug-and-Play installation of up to 7 SCSI drives, scanners, CD-ROMs and other devices
- Fast PCI data transfer for desktop applications
- Complete with Adaptec EZ-SCSI software

AHA-2940AU / 2940UW kit PCI

- RISC processor, Fast SCSI and bus master DMA support transfer rates of up to 133MB/second
- Supports up to 7 SCSI devices including bootable Hard drives
- Supports Ultra SCSI (AHA-2940AU) & Ultra Wide SCSI (AHA-2940UW)
- Complete with Adaptec EZ-SCSI software

Other SCSI adapters

| | | | | | |
|-------------------------|------|---------|-----------------------------|------|---------|
| AVA-1505 kit ISA | £31 | £36.42 | AHA-2910 kit PCI | £55 | £64.62 |
| AHA-1542CP PnP bare ISA | £107 | £125.72 | AHA-3940U kit PCI | £239 | £280.82 |
| AHA-1542CP PnP ISA | £149 | £175.07 | AHA-3940UW kit PCI | £279 | £327.82 |
| AVA-2825 kit VLB | £74 | £86.95 | AAA-131 Ultra SCSI Array | £268 | £314.90 |
| AHA-2742 kit EISA | £209 | £245.57 | AAA-133 Ultra Wide RAID kit | £265 | £311.37 |
| AHA-2742W kit EISA | £229 | £269.07 | Adaptec SlimSCSI 1480 kit | £119 | £139.82 |

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|--------------------------|---------------|-----------------|
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|--------------------|---------------|----------------|
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Entrega has the simplest, least expensive way to get PC's ready for USB. Our 2 Port and 4 Port USB Upgrades add USB to virtually any PC. And if the PC already has USB, these half-cards double the bandwidth, providing 12Mb per second performance and 500mA of power per port.

Networking

| | | |
|---------------------------|---------------|----------------|
| USB Hub-Built-In Ether | £84.00 ex vat | £98.70 inc vat |
| USB to Ethernet Converter | £50.00 ex vat | £58.75 inc vat |

intel CPU's

| | | |
|---------------------------|--------|---------|
| Celeron A 300MHz slot-1 | £46.98 | £55.16 |
| Celeron A 333MHz slot-1 | £57.95 | £68.09 |
| Celeron 300MHz socket 370 | £47.95 | £56.34 |
| Celeron 333MHz socket 370 | £59 | £69.32 |
| Celeron 366MHz socket 370 | £88.95 | £104.51 |
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| 3C-509B Combo ISA bare card | £35 £41.12 |
| 3C-900TPO RJ45 PCI bare card | £31 £36.42 |
| 3C-900 Combo PCI bare card | £55 £64.62 |
| 3C-905 10/100 PCI bare card | £44 £51.70 |
| 3C-509B RJ45 ISA | £32 £37.60 |
| 3C-509B Combo ISA | £66 £77.55 |
| 3C-509B RJ45 PCI | £46 £54.05 |
| 3C-900 Combo PCI | £64 £75.20 |
| 3C-905 10/100 PCI | £50 £58.75 |
| 3C-575TX 10/100 PCMCIA cardbus | £88 £103.40 |
| 3C-569 RJ45 PCMCIA | £76 £89.30 |
| 3C-589 Combo PCMCIA | £89 £104.57 |
| 3C-592 Combo EISA | £129 £151.57 |
| 3C-597TX 10/100 EISA | £149 £175.07 |
| 3C-563 RJ45 & 336 Modem PCMCIA | £165 £193.87 |
| 3C-563 Combo 336 Modem PCMCIA | £184 £216.20 |
| D-Link DE-220PCT Combo ISA PnP | £13 £15.27 |
| DE-530CT Combo PCI | £19 £22.32 |
| DPE-500TX 100M DE-660CT Combo PCMCIA | £25 £29.37 |
| DE-620CT Combo Parallel | £38 £44.65 |
| £65 £76.37 | |
| Genius GE2000 III-2 Combo ISA | £14.50 £17.03 |
| GE2500 III Combo PCI | £16.50 £19.38 |
| ME3000 II-2 Combo PCMCIA | £39 £45.82 |
| E3000 II-2 Combo Parallel | £39 £45.82 |
| GF100 TXR 10/100 PCI | £19 £22.32 |

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Network Hubs

| | |
|---|---------------|
| 3Com Office connect 3C16700 8TP0 8port | £44 £51.70 |
| 3C16701 8TPC 8port | £60 £70.50 |
| 3C16710 8TPM 8port | £180 £211.50 |
| 3C16720 8TP100 8port 100TX | £209 £245.57 |
| 3C16702 16TPC 16port | £109 £128.07 |
| SuperStack II 3C16590 Dual Speed 12port | £226 £265.55 |
| 3C16591 Dual Speed 24port | £371 £435.92 |
| 3C16670A 12port | £315 £370.12 |
| 3C16671A 24port | £555 £652.12 |
| 3C250TX 12port 100TX | £495 £581.62 |
| D-Link DE805TP 5port | £25 £29.37 |
| DE905 2 User starter kit | £39 £45.82 |
| DE809TC 8port & BNC | £35 £41.12 |
| DE809TP 8port | £45 £52.87 |
| DE812TP+ 12port | £71 £83.42 |
| DE816TP16port | £75 £88.12 |
| DE824TP 24port | £119 £139.82 |
| DE1812 12port | £74 £86.95 |
| DE1824 24port | £119 £139.82 |
| DFE808TX 8port 100TX | £139 £163.32 |
| DFE812TX 12port 100TX | £199 £233.82 |
| DFE816 16port 100TX | £299 £351.32 |
| Genius GH4080 8port 10Mb | £35 £41.12 |
| GH4160 16port 10Mb | £79 £92.82 |
| GH4160R 16port | £99 £116.32 |
| GF4080 8port 100Mb | £189 £222.07 |
| GF4080R 8port | £219 £257.32 |
| GF4120R 12 port | £359 £421.82 |
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| entrega 1/2m USB Cable | £3.82 £4.49 |
| 1m USB Cable | £4.25 £4.99 |
| 2m USB Cable | £5.10 £5.99 |
| 5m USB Cable | £8.00 £9.59 |
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| entrega USB to Parallel | £33.00 £38.78 |
| USB to Serial Kit | £50.00 £58.75 |

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ASUS P5A
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PC health monitoring
ATX Form factor
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ASUS P2B
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PC health monitoring
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QDI

Excellent I Motherboard
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Intel Celeron processor up to 350MHz
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DMI compliance and built-in NCR 53C810 BIOS support
SpeedEasy for jumperless CPU upgrade or jumper emulation mode

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

Brilliant 1 Motherboard
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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
SpeedEasy for jumperless CPU upgrade or jumper emulation mode
Supports Win 95/98 software Power-Down

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P61440BX Brilliant I (PII) £89 £104.57
P61440BX/DP Brilliant IV (Dual PII) £289 £339.57
P61440LX Legend V (PII) £67 £78.72
P61440EX Excellent I (Celeron) £59 £69.32
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DIAMOND

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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
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Micronics C200
Supports K6-2 up to 400MHz, Crix MII up to 333MHz
ALI Aladdin 5 AGP chipset
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| <p>Proxy Router and DHCP Server</p> <ul style="list-style-type: none"> Enables many people to share one internet connection. DHCP Server up to 252 users. Supports HTTP, FTP and Proxy ARP. NAT (Network Address Translation). Extremely low power consumption (3 watts). Can be managed remotely with PeripheralVision® software. <p>RINGDALE Ex VAT - £275 Inc VAT - £323.12</p>  | <p>IP Router</p> <ul style="list-style-type: none"> Supports multiple IP addresses on the same network. IP filters allow control of users and protocols. Options to disable or route. Will allow TCP/IP to run even if the file server crashes. Low power consumption (3 watts). <p>RINGDALE Ex VAT - £275 Inc VAT - £323.12</p>  | <p>FX-TX Media Converter</p> <ul style="list-style-type: none"> Converts 100baseFX fibre optic to 100baseTX copper cable connection. Low cost and efficient LAN interconnectivity. Network status at a glance with high visibility LEDs. Allows longer cable runs within one collision domain. Compact design for easy installation. <p>RINGDALE Ex VAT - £425 Inc VAT - £499.37</p>  |
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Panasonic



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Compatible Memory

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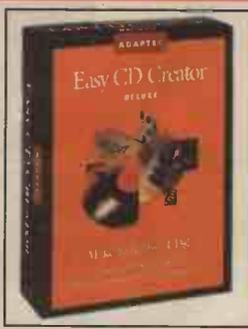
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COREL

| | | |
|--|------|---------|
| Corel WordPerfect Suite 8 (with Dragon Naturally Speaking) | £179 | £210.32 |
| Corel WordPerfect Suite 8 (Upgrade) | £74 | £86.95 |
| Corel WordPerfect Suite 8 Professional | £169 | £198.57 |
| Corel WordPerfect Suite 8 Professional (Upgrade) | £88 | £103.40 |

SYMANTEC

| | | |
|----------------------------------|------|---------|
| Act! V4.0 on CD | £125 | £146.87 |
| WinFax Pro V8.0 Win 95 CD | £69 | £81.08 |
| WinFax Pro V8.0 Win 95 5-user CD | £295 | £346.63 |

DTP

| | | |
|--------------------------------------|------|---------|
| ADOBE | | |
| Pagemaker V6.5 on CD | £355 | £417.13 |
| Pagemaker V6.5 Upgrade on CD | £89 | £104.58 |
| Illustrator V7 on CD | £224 | £263.20 |
| Illustrator V7 Upgrade from V4 on CD | £75 | £88.12 |
| Pagemill V2 Windows 95 on CD | £58 | £68.15 |

MICROSOFT

| | | |
|----------------------------|-----|--------|
| Publisher 97 on CD | £65 | £76.38 |
| Publisher 97 Upgrade on CD | £29 | £34.07 |
| Publisher 98 on CD | £67 | £78.72 |
| Publisher 98 Upgrade on CD | £32 | £37.60 |

QUARK

| | | |
|------------------------|------|---------|
| Quark Express V4 on CD | £679 | £797.82 |
|------------------------|------|---------|

GRAPHICS - DESIGN

| | | |
|---|------|---------|
| ADOBE | | |
| Photoshop V5 on CD | £394 | £451.20 |
| Photoshop V5 Upgrade on CD | £148 | £173.90 |
| Premier Software V4.2 on CD & 3.5 | £287 | £337.22 |
| Photo Deluxe 1.0 for Win 95 on CD | £35 | £41.12 |
| Texturemaker for Win 95 on 3.5 | £92 | £108.10 |
| Publishing Collection for Win 95 on CD | £639 | £750.82 |
| Acrobat V3 for Windows 3.1 & 95 on CD | £125 | £146.87 |
| Acrobat Capture V2 for Windows 95 on CD | £379 | £445.32 |
| Type Manager WP V3 on 3.5 | £25 | £29.38 |
| After Effects for Windows 95 on 3.5 | £408 | £479.40 |
| After Effects Pro for Windows 95 on 3.5 | £814 | £956.45 |

OPERATING SYSTEMS

| | | |
|--|------|---------|
| NEW!! Windows 98 Full Version on CD | £109 | £128.07 |
| NEW!! Windows 98 Upgrade on CD | £58 | £68.15 |
| NEW!! Plus! 98 for Windows 98 on CD | £26 | £30.55 |
| Windows NT Server V4 with 5 Client Licences on CD | £539 | £633.32 |
| Windows NT Server V4 Ver Upg + 5 Client Licences CD | £276 | £326.65 |
| Windows NT Server V4 Comp Upg + 5 Client Licences CD | £279 | £327.82 |
| Windows NT Server V4 with 10 Client Licences on CD | £759 | £891.82 |
| Windows NT Server V4 Upgrade + 10 Client Licences CD | £372 | £437.10 |
| Windows NT Workstation V4 on CD | £211 | £247.92 |
| Windows NT Workstation V4 Upgrade from Prev VNT CD | £99 | £116.33 |

PROGRAMMING

| | | |
|--------------------------------------|------|---------|
| BORLAND | | |
| Delphi V4 Standard on CD | £69 | £81.08 |
| Delphi V4 Professional on CD | £325 | £381.88 |
| Delphi V4 Professional Upgrade on CD | £199 | £233.83 |
| Borland C++ Professional | £325 | £381.87 |

MICROSOFT

| | | |
|--|------|---------|
| Visual Basic V5 Standard on CD | £60 | £70.50 |
| Visual Basic V5 Standard Upgrade on CD | £34 | £39.95 |
| Visual Basic V5 Professional on CD | £317 | £372.47 |
| Visual Basic V5 Professional Upgrade on CD | £163 | £191.52 |
| Visual Basic Enterprise V5 on CD | £777 | £912.97 |
| Visual Basic Enterprise V5 Upgrade on CD | £454 | £533.45 |
| Visual C++ V5 Professional on CD | £313 | £367.77 |

REFERENCE

| | | |
|---------------------------------|-----|--------|
| MS Encarta 98 on CD | £31 | £36.42 |
| MS Encarta 98 Deluxe on CD | £47 | £55.22 |
| MS Encarta 98 World Atlas on CD | £32 | £37.60 |
| MS AutoRoute Express 98 GB | £37 | £43.47 |
| MS AutoRoute Express 98 Europe | £37 | £43.47 |

VOICE RECOGNITION

| | | |
|---|------|---------|
| IBM | | |
| ViaVoice for Windows 95 on CD | £54 | £63.45 |
| ViaVoice Gold for Windows 95 on CD | £84 | £98.70 |
| ViaVoice Gold Upgrade for Windows 95 on CD | £38 | £44.65 |
| ViaVoice Type Simply Speaking V3.0 for Windows 95 CD | £32 | £37.60 |
| ViaVoice Type Simply Speaking Gold V3.5 for Windows 95 CD | £29 | £34.07 |
| ViaVoice Type Dictation V3.0 for Windows 95 on CD | £459 | £539.33 |
| DRAGON DICTATE | | |
| Dragon Dictate Solo for Windows 95 on CD | £19 | £22.32 |
| Dragon Dictate Solo Pro Classic for Windows 95 on CD | £64 | £75.20 |
| Dragon Dictate Naturally Speaking on CD | £79 | £92.83 |
| Dragon Dictate Naturally Speaking Personal on CD | £125 | £146.88 |
| Dragon Dictate Naturally Speaking Preferred on CD | £109 | £128.07 |
| Dragon Dictate Naturally Speaking Deluxe on CD | £439 | £515.83 |

Office 97



£204 ex vat
£239.70 inc vat

Microsoft

FrontPage 98



£86 ex vat
£101.05 inc vat

Microsoft

| | | |
|----------------------------|--------|----------|
| Microsoft Microsoft | ex vat | inc vat |
| Word 97 | £222 | £260.85 |
| Excel 97 | £222 | £260.85 |
| Access 97 | £222 | £260.85 |
| Power Point 97 | £222 | £260.85 |
| Office Std 97 | £317 | £372.48 |
| Office Deval 97 | £415 | £487.62 |
| Office 97 SBE | £514 | £603.95 |
| Office 98 SBE | £324 | £380.70 |
| Publisher 97 | £65 | £76.37 |
| Publisher 98 | £67 | £78.72 |
| Home Essent 98 | £74 | £86.95 |
| Project 98 | £297 | £348.98 |
| UPGRADE | | |
| Word 97 | £87 | £102.22 |
| Excel 97 | £87 | £102.22 |
| Access 97 | £87 | £102.22 |
| Power Point 97 | £87 | £102.22 |
| Office Std 97 | £147 | £172.73 |
| Office Deval 97 | £204 | £239.70 |
| Office 97 SBE | £194 | £227.95 |
| Office 98 SBE | £147 | £172.73 |
| Publisher 97 | £34 | £39.95 |
| Publisher 98 | £32 | £37.60 |
| Home Essent 98 | £32 | £37.60 |
| Project 98 | £114 | £133.95 |
| FULL | | |
| Visual Basic 5 | £60 | £70.50 |
| Visual Basic Pro 5 | £318 | £373.65 |
| Visual Basic Ent 5 | £769 | £903.57 |
| Visual C++ 5 | £59 | £69.32 |
| Visual C++ Pro 5 | £133 | £156.77 |
| Visual C++ Ent 5 | £772 | £907.10 |
| Visual InterDev 97 | £324 | £380.70 |
| Visual J++ 1.1 | £59 | £69.32 |
| Vis. Studio Pro 97 | £639 | £750.82 |
| Vis. Studio Ent 97 | £899 | £1056.32 |
| Vis. Foxpro Pro 5 | £318 | £373.65 |
| UPGRADE | | |
| Visual Basic 5 | £33 | £38.77 |
| Visual Basic Pro 5 | £162 | £190.35 |
| Visual Basic Ent 5 | £454 | £533.45 |
| Visual C++ 5 | £33 | £38.77 |
| Visual C++ Pro 5 | £163 | £191.52 |
| Visual C++ Ent 5 | £454 | £533.45 |
| Visual InterDev 97 | £178 | £209.15 |
| Visual J++ 1.1 | £33 | £38.77 |
| Vis. Studio Pro 97 | £320 | £376.00 |
| Vis. Studio Ent 97 | £635 | £746.12 |
| Vis. Foxpro Pro 5 | £162 | £190.35 |

Software

| | | |
|-------------------------------|--------|----------|
| COREL | ex vat | inc vat |
| Draw Select Edition | £59 | £69.32 |
| CorelDraw | £249 | £292.58 |
| CorelDraw Upgrade | £129 | £151.58 |
| Corel Ventura 8 | £299 | £351.32 |
| Ventura 8 Upgrade | £149 | £175.07 |
| Print House Magic 3 | £19 | £22.32 |
| Print House3 | | |
| Magic Deluxe | £29 | £34.07 |
| PrintOffice | £29 | £34.07 |
| Gallery 1,000,000 | £49 | £57.57 |
| Gallery 200,000 | £29 | £34.07 |
| Gallery 65,000 | £12 | £14.10 |
| Word Perfect Suite 8 | | |
| with Dragon NS | £179 | £210.32 |
| Word Perfect Suite 8 | | |
| with Dragon NS/IT | £69 | £81.07 |
| PLANIT | | |
| Health & Safety | £99 | £116.32 |
| Job Descriptions | £79 | £92.82 |
| Marketing Plan | £79 | £92.82 |
| Sales Letters | £19.95 | £23.44 |
| Employer's Guide | £79 | £92.82 |
| Contracts & Agreements | £99 | £116.32 |
| Business Suite | £269 | £316.07 |
| Limited Company Formation | £29 | £34.07 |
| Start-Up Business Plan | £29 | £34.07 |
| Business Letters | £19.95 | £23.44 |
| Personal Manager | £66 | £77.55 |
| Legal Letters | £24.99 | £29.36 |
| CV Kit | £14.95 | £17.59 |
| Financial Adviser | £17.50 | £20.56 |
| Microsoft | | |
| All NEW Products!! | | |
| Encarta Reference Suite 99 | £76 | £89.30 |
| Encyclopedia Deluxe 99 | £55 | £64.62 |
| Encyclopedia 99 | £34 | £39.95 |
| Encarta World Atlas 99 | £34 | £39.95 |
| Visual Basic 6.0 | £64 | £75.20 |
| Visual Basic 6.0 up | £36 | £42.30 |
| Visual Basic 6.0 Pro | £364 | £427.70 |
| VBasic 6.0 Pro up | £179 | £210.32 |
| VBasic 6 Enterprise | £854 | £1003.45 |
| J++ 6.0 | £54 | £75.20 |
| J++ 6.0 up | £36 | £42.30 |
| J++ 6.0 | £359 | £421.82 |
| J++ 6.0 Pro up | £141 | £165.67 |
| C++ 6.0 | £64 | £75.20 |
| C++ 6.0 up | £36 | £42.30 |
| C++ 6.0 | £358 | £420.65 |
| C++ 6.0 Pro up | £179 | £210.32 |
| Visual Studio 6 Pro | £714 | £838.95 |
| VStudio 6 Pro up | £348 | £408.90 |
| VStudio 6 Enterprise | £1039 | £1220.82 |
| VStudio 6 Ent up | £699 | £821.32 |
| LOUIS | | |
| SmartSuite Millennium Edition | Call | |
| Millennium Ed. up | £125 | £146.87 |
| BORLAND | | |
| Delphi 4.0 | £74 | £86.95 |
| Delphi 4.0 Pro up | £229 | £269.06 |
| JBuilder 2 | £74 | £86.95 |
| JBuilder 2 | £379 | £445.32 |
| JBuilder 2 | £219 | £257.32 |
| Turbo C++ Suite | £69 | £81.07 |
| C++ Builder 3 | £73 | £85.77 |
| C++ Builder Pro | £335 | £393.62 |
| Visual dBASE 7 Pro | £235 | £276.12 |
| Visual dBASE 7 Pro up | £139 | £163.32 |
| JASC SOFTWARE | | |
| Paint Shop Pro 5 | £69 | £81.07 |
| Paint Shop Pro 5 up | £29 | £34.07 |
| SYMANTEC | | |
| CrashGuard Deluxe | £29 | £34.07 |
| Uninstall Deluxe | £19 | £22.32 |
| Utilities 3.0 | £59 | £69.32 |
| AntiVirus 5.0 | £35 | £41.12 |
| PC Anywhere 32 | | |
| V8 CD | £91 | £106.93 |
| PC Anywhere 32 | | |
| V8 Host | £58 | £68.15 |
| PC Anywhere 32 | | |
| V8 Rem | £65 | £76.38 |
| PC Anywhere V2 | £29 | £34.07 |
| PC Anywhere V2 | £29 | £34.07 |
| QUARTERDECK | | |
| CleanSweep | | |
| Deluxe 4.0 | £31 | £36.42 |
| Partition-IT | | |

All models now include a "7 Day No Quibble Money Back Guarantee"

D L 4 5 0

- **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
- **TV Tuner:** Includes built-in TV tuner



PC Direct Dec 98
"With some clever touches such as the easy-to-use remote control handset and an aerial socket for either TV or video projection, the Davis DL 450 LiteBeam is recommended for users wanting an inexpensive, light, yet powerful projector."

£2239 ex vat
£2630.82 inc vat

D L X 6 5 0

- **Weight:** Lightweight 9.9 pounds
- **Brightness:** 650 ANSI lumens
- **Resolution:** XGA resolution
- **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
- **TV Tuner:** Includes built-in TV tuner

PC Magazine Jan 1999
"If you require a sub 5kg projector with XGA resolution, this is currently your only choice."



PC Magazine Jan 1999
"The Davis DLX 650 is a relatively expensive ultra-portable DLP projector, but its the first with native XGA resolution and the asking price is well worth paying if thats what you need."
Price as reviewed (ex vat) £4995

£3499 ex vat
£4111.32 inc vat

D P B 1 2 0 0

- **Brightness:** 1200 ANSI lumens
- **Resolution:** 1024 x 768
- **Colour Palette:** 16.7 million colours
- **Display:** 1.3" Polysilicon Panel x 3
- **Projection Lamp:** 330-watt Metal Halide
- **Zoom/Focus:** Electrically controlled (zoom ratio 1.3:1)
- **Image Size:** 20" to 300" (diag)
- **Audio System:** 2-watt stereo
- **Warranty:** 2 Year, 24 hour swap out warranty

£5250 ex vat
£6168.75 inc vat



Call Now for details:

0181 286 2222

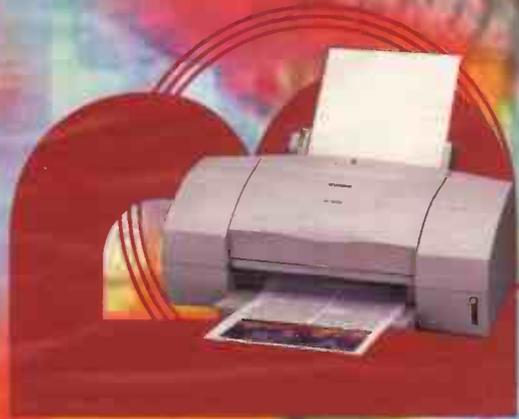
MARCH 1999 EDITION

ISSUE 45

DIRECT

focus

DABS DIRECT PRODUCT NEWS & PRICE GUIDE



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pages 34 to 43*

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CUSTOMER SERVICES 0870 129 3220 cs@dabs.com

We would like to remind you of the contact numbers you may require if you have a problem. We also list our email addresses (Customer Services cs@dabs.com or Technical Support ts@dabs.com) which should ensure you a speedy response. Can I also remind you that to please check your products on receipt. If you have a faulty or incorrect item the follow our procedures below. Remember we replace faulty goods with in 28 days of purchase.

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 | ✓ | ✓ | ✓ |
| Beineq | 0118 936 2906 | ✓ | ✓ | ✓ |
| Canon | 0990 143723 | ✓ | ✓ | ✓ |
| Casio | 0181 450 9131 | ✓ | ✓ | ✓ |
| Compaq | 0541 541555 | ✓ | ✓ | ✓ |
| Creative | 01734 344744 | ✓ | ✓ | ✓ |
| CTX | 01923 810801 | ✓ | ✓ | ✓ |
| Daewoo | 01543 504888 | ✓ | ✓ | ✓ |
| Diamond | 01189 444444 | ✓ | ✓ | ✓ |
| Epson | 01442 227277 | ✓ | ✓ | ✓ |
| Evergreen | 07000 808586 | ✓ | ✓ | ✓ |
| Fujitsu | 01925 433533 | ✓ | ✓ | ✓ |
| Hauptpage | 0171 378 0202 | ✓ | ✓ | ✓ |
| Hayes | 01252 775533 | ✓ | ✓ | ✓ |
| HP | 0171 512 5202 | ✓ | ✓ | ✓ |
| Hitachi | 0181 849 2092 | ✓ | ✓ | ✓ |
| IBM | 0990 500900 | ✓ | ✓ | ✓ |
| 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 830725 | ✓ | ✓ | ✓ |
| 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 (Sharpserve) | 01623 413800 | ✓ | ✓ | ✓ |
| Sony (Monitors Only) | 0990 168648 | ✓ | ✓ | ✓ |
| Tally | 01734 771688 | ✓ | ✓ | ✓ |
| Taxan | 01344 484646 | ✓ | ✓ | ✓ |
| Twinhead | 01256 300300 | ✓ | ✓ | ✓ |
| US Robotics | 01734 441000 | ✓ | ✓ | ✓ |
| Videologic | 01923 271300 | ✓ | ✓ | ✓ |
| Visloneer | 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/IOM 1-3 working days | £10.00 (£11.75) | SMALL/LOW COST ITEMS | |
| 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 BOX. 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.

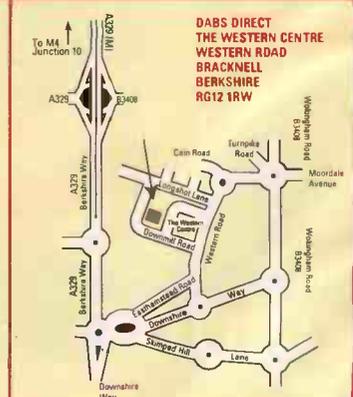
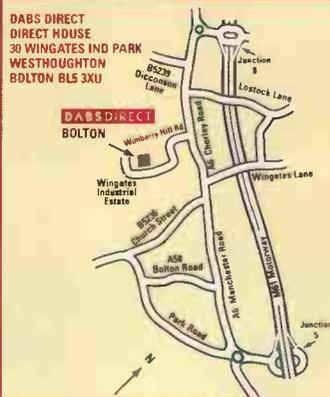
NEW ACCOUNT OPENING - Please call our sales team to arrange to open a credit account now (subject to status)

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





- ✓ 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

INTRODUCTION



Welcome to the March edition of Direct Focus. This month sees the launch of a host of new processors from Intel including the Celeron 366 and 400 models allowing us to offer faster Dabs PCs at lower prices. As usual we are one of the first PC manufacturers to market with these models with the Navigator including the 400 Celeron for £749 + VAT highlighting again one of the advantages of buying a PC from Dabs.

Our Free Internet Service, launched on January 1st 1999, saw over 5,000 new users in the first couple of days and continues to grow at a phenomenal rate. So if you are fed up with paying £10 per month for the Internet or not being able to get through to another Free Service, try Dabsol. Check out www.dabs.com/free or email free@dabs.com, or telephone 0870 129 3983 and we will send you full details of how to get on the Net without paying a penny.

David Atherton

David Atherton, Managing Director, Dabs Direct PLC

da@dabs.com

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WHAT'S NEW

WHAT'S NEW IN THIS ISSUE...

free net access

Completely free Internet Access from Dabs Direct available now

for details see www.dabs.com/free or email free@dabs.com or call 0870 129 3983

• Internet music in the palm of your hand

New Diamond Rio available now, with palm size portability and stores upto 60 minutes of MP3 music, see page 23 for details.

• New 1999 colour printers launched

Epson, Canon, and Tally have launched new models for 1999. These exciting releases can be seen in the printers section starting on page 34.

• Intel processor price reductions and new speeds launched

Intel have announced massive price cuts on Celeron processors and have released 366MHz and 400MHz versions. All Celeron processors are now available in a new PPGA packaging which, along with Socket 370 motherboards, will bring down the total cost, bringing you better power per £pound.

...and don't forget, for the latest Product Releases & Special Offers go to www.dabs.com



OPENING TIMES

| | GENERAL SALES | COUNTERS | OTHER DEPTS |
|--------------------|---------------|---------------|---------------|
| Monday to Thursday | 08.00 - 20.00 | 09.00 - 18.00 | 09.00 - 17.00 |
| Friday | 08.00 - 17.00 | 09.00 - 17.00 | 09.00 - 17.00 |
| Saturday | 09.00 - 15.00 | 09.00 - 15.00 | Closed |
| Sunday | 10.00 - 15.00 | Closed | Closed |

All prices exclude VAT and carriage (see page 2 for details). Full Terms and Conditions available on request. E&OE [06.01.99]. Prices valid from 1st to 28th February 1999. Calls may be monitored to ensure levels of service and for training purposes.

DIRECT focus

DABS DIRECT PRODUCT NEWS & PRICE GUIDE
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Dabs Direct PLC
Direct House
Wingates Industrial Park
Westhoughton
Bolton
BL5 3XD

| | |
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| Marketing Manager | Dave Wilson |

If you have any comments or suggestions about Professional Focus please write to me at the Bolton address or email me on:
dwilson@dabs.com

IMPORTANT NUMBERS

| | |
|------------------------------------|--|
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| Technical Support email | ts@dabs.com |

All 0870 calls charged at national rate (long distance rate)

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General Sales Hotline OPEN 8am - 8pm Mon to Thu . 8am - 5pm Fri . 9am - 3pm Sat . 10am - 3pm Sun

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custom build PC division

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Dabs PC Systems

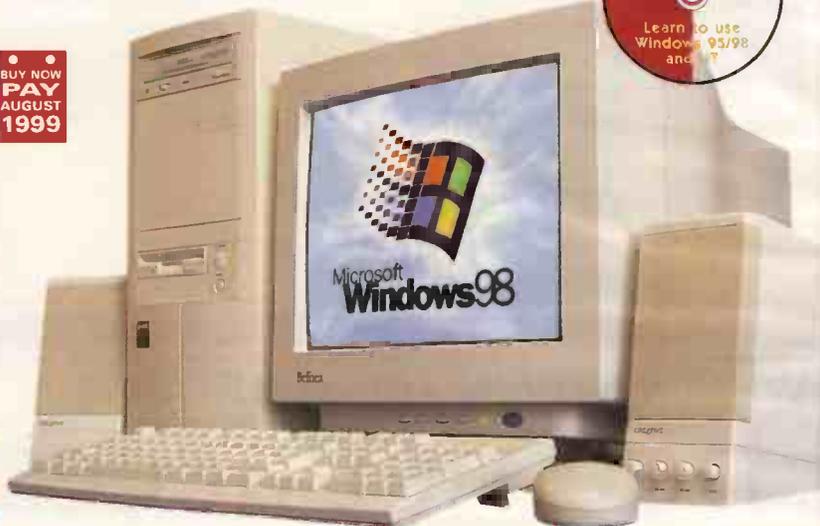
Atlantis Home Office



- Intel Celeron™ 333MHz Processor with MMX Technology with 128k on-chip cache
- 440BX 100MHz FSB Motherboard
- 64MB PC100 SDRAM Memory
- 6.4GB UltraDMA Hard Disk Drive
- Creative 36x CD ROM Drive
- 8MB AGP Graphics Card
- 15" Digital SVGA Monitor
- Creative Labs SoundBlaster PCI Sound Card
- Creative CSW-20 Speakers
- 56Kbps Internal Voice/Data/Fax Modem (inc free Dabsol 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 Colour Flatbed Scanner
- FREE Modular Technology TV / Teletext Tuner Card



BUY NOW PAY AUGUST 1999



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



FREE Colour Flatbed Scanner

- 30 bit colour scanning
- 300 x 600dpi optical resolution
- 9600dpi maximum interpolated



FREE Modular Technology TV / Teletext Tuner Card

Full Screen TV and Video from your PC

- 9 Channel Preview Function
- Nicam Stereo
- Teletext, instantly displayed
- Video Capture from VCR, Camcorder, etc.



Canon

MODULAR

Atlantis Home Office

with FREE Canon BJC-250 Printer
FREE Flatbed Scanner & FREE TV Card

only £ **799**
(£938.82)

Dabs PC Systems

BUY NOW PAY AUGUST 1999

Buy Now Pay August 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 28th February 1999.

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



Belinea



iomega.

CREATIVE



ADI Systems UK

Canon



PRICE MATCHING - We can usually match competitors prices, please call for details.

Dabs PC Systems

Atlantis Value

- Intel Celeron™ 300MHz Processor with MMX Technology with 128k on-chip cache
- 100MHz FSB Motherboard
- 32Mb PC100 SDRAM Memory
- 4.3Gb UltraDMA Hard Disk
- 32x CDROM Drive
- 4MB AGP video
- 14" Digital SVGA Monitor
- 56Kbps Internal Voice/Data/Fax Modem (inc free Dabsol Internet Access)
- 3D Sound
- Creative CSW-20 Speakers
- 105 Key Windows 95 PS/2 Keyboard & PS/2 Mouse
- Microsoft Windows 98
- Lotus SmartSuite 97
- 1 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)

£499
(£586.32)

with Intel® Celeron™ 333MHz Processor with 128k on-chip cache **£529** (£621.57)

with Intel® Celeron™ 366MHz Processor with 128k on-chip cache **£589** (£692.07)

Atlantis DVD

- Intel Celeron™ 300MHz Processor with MMX Technology with 128k on-chip cache
- 100MHz FSB Motherboard
- 32MB PC100 SDRAM Memory
- 4.3GB UltraDMA Hard Disk
- 5x DVD ROM Drive
- 4MB AGP Video
- 15" Digital SVGA Monitor
- 56Kbps Internal Voice/Data/Fax Modem (inc free Dabsol Internet Access)
- 3D Sound
- 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)

£599
(£703.82)

with Intel® Celeron™ 333MHz Processor with 128k on-chip cache **£629** (£739.07)

with Intel® Celeron™ 366MHz Processor with 128k on-chip cache **£689** (£809.57)



Atlantis Value
Entry Level PC



Atlantis DVD
Entry Level DVD Multimedia PC

Dabs Multimedia Software Bundle (13 titles)



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What the magazines say....

50 BEST
Atlantis Value
December 1998

"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 presale 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 succeeded!"

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'

PC Advisor
Power PC
July 1998

"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

Personal Computer World
Atlantis Home Office
April 1998

"qualifies as the Most Generous Package we received ... represents excellent value for money"
 Personal Computer World - Dabs Atlantis Home Office

50 BEST

"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

Branded from the inside out



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custom build PC division

0870 129 3002

Dabs PC Systems

Challenger

- AMD K6®-2 3D Now!™ Processor
- Aladdin 5 100MHz FSB motherboard
- 32MB PC100 SDRAM
- Seagate 4.3GB UltraDMA Hard Disk
- Creative 36x CDRom Drive
- 8MB AGP Graphics Card
- 15" Digital Monitor
- 56kbps Internal PCI Voice/Data/Fax Modem (inc free Dabsol Internet Access)
- Creative Labs SoundBlaster PCI Sound Card
- Creative CSW-20 Speakers
- 105 Key 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® Celeron Processor with MMX technology
- Abit 440BX 100MHz FSB motherboard
- 64MB PC100 SDRAM
- Seagate 6.5GB UltraDMA Hard Disk
- Creative 36x CDRom Drive
- ATI 3D Xpert 98 8MB AGP Graphics Card
- ADI E44 15" Digital Monitor
- 56kbps Internal PCI Voice/Data/Fax Modem (inc free Dabsol 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

Performance AMD K6®-2 3D Now!™ with MMX Technology



Navigator

Celeron Multimedia & Internet Ready PC

Dabs Multimedia Software Bundle (13 titles)



AMD-K6®-2 3D Now!™ 350MHz Processor
£599 (£703.82)

With Intel® Celeron 366MHz Processor
£729 (£856.57)

AMD-K6®-2 3D Now!™ 380MHz Processor with 64MB RAM
£659 (£774.32)

With Intel® Celeron 400MHz Processor
£749 (£880.07)

AMD-K6®-2 3D Now!™ 400MHz Processor with 64MB RAM
£689 (£809.57)

AMD, the AMD logo, K6, 3D Now!, are combinations thereof, are trademarks of Advanced Micro Devices, Inc.

Pentium is a registered trademark and MMX and Celeron are trademarks of Intel Corporation.



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Prices shown in brackets are inclusive of VAT

COMPLETE PEACE OF MIND! DABS PC SYSTEM 14-DAY NO-QUIBBLE GUARANTEE

If for any reason you are not completely satisfied with your Dabs PC, you may return it for a full refund up to 14 days after delivery. You do not have to give a reason for the return, simply call our customer service department (0870 129 3220) and ask for a returns number under the 14-day guarantee.

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 packing 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.

CUSTOM BUILT PC DIVISION

Everyone has different needs for their PC and we try to cater for as many as possible with our Atlantis & Professional range of PC's.

However if you have a specific specification and would like us to quote or help you find a PC solution for you call our Custom Built PC Division on 0870 129 3002 or fax your request to 0870 129 7002 for a quote.

(email pcsales@dabs.com)



Dabs PC Systems

Branded from the inside out



PRICE MATCHING - We can usually match competitors prices, please call for details.

Dabs PC Systems

Discovery DVD

- Intel Pentium II Processor with MMX technology
- Abit 440BX 100MHz FSB motherboard
- 64MB PC100 SDRAM
- Seagate 8.6GB UltraDMA Hard Disk
- Creative PC-DVD Encore 5x DVD ROM Drive
- ATI 3D Xpert 98 8MB AGP Graphics Card
- Creative DXR2 MPEG2 Decoder Card
- ADI 5P 17" Digital Monitor
- 56kbps Internal PCI Voice/Data/Fax Modem (inc free Dabsol 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 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)

Voyager DVD

- Intel Pentium II Processor with MMX technology
- Abit 440BX 100MHz FSB motherboard
- 128MB PC100 SDRAM
- IBM 10.1GB Ultra DMA 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 (inc free Dabsol Internet Access)
- Creative Labs SoundBlaster Live! Value PCI Sound Card
- Creative FourPoint Surround Speakers
- Cherry PS/2 Keyboard & Microsoft PS/2 Mouse
- 10/100 PCI RJ45 Network Card
- Microsoft Windows 98
- 1 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)



Discovery DVD
Pentium II Power PC



Voyager DVD
Ultimate Pentium II PC

With Intel® Pentium II 350MHz Processor
£999 (£1173.82)

With Intel® Pentium II 400MHz Processor
£1099 (£1291.32)

With Intel® Pentium II 450MHz Processor
£1249 (£1467.57)

With Intel® Pentium II 400MHz Processor
£1499 (£1761.32)

With Intel® Pentium II 450MHz Processor
£1649 (£1937.57)



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

Complete Peace Of Mind With Your DABS PC For Just **£149** plus VAT



Upgrade your DABS PC to a 3 year on-site warranty for just **£149 plus VAT** and we will supply to you **FREE OF CHARGE** these four top software titles.....

PC MEMBER
 Dabs Direct are a responsible member of the industry's trade association. We were a founder member of the "Personal Computer Association", and abide by their terms & conditions.

PC Cases may change design without prior notice. 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.



ADI Systems UK

Canon

freephone

0800 558866

PRICE MATCHING

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Web Site www.dabs.com

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All 0870 calls charged at national rate

"Value for money"



Satellite

The Satellite family offers excellent value for money without compromising performance. The new Satellite 4000 models set new standards for entry-level portable computing, include Pentium II® processors, 3.82GB hard drives and 32MB SDRAM.

FREE 32Mb UPGRADE

& Toshiba V.34 PCMCIA Modem while stocks last.

Satellite 4000CDS £995 (€1169.12)

- Intel Pentium II with 1.8v core 233MHz
- 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

Satellite 4000CDT £1159 (€1361.82)

- 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

Satellite 4010CDS £1159 (€1361.82)

- Intel Pentium II with 1.8v core 266MHz
- 32MB SDRAM expandable to 160MB
- 3.8GB Hard Drive
- 24xSpeed CD-ROM
- 12.1" DSTN Colour Display
- SoundBlaster Pro compatible sound system
- 2x 32bit CardBus PC Card slots with ZV port

Satellite 4010CDT £1339 (€1573.32)

- Intel Pentium II with 1.8v core 266MHz
- 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

Kingston
TECHNOLOGY

COMPUTING WITHOUT LIMITS

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 | £24 | £36 | £49 | £93 | £195 |
| (inc VAT) | (£28.20) | (£42.30) | (£57.57) | (£109.27) | (£229.12) |

Please check compatibility before ordering memory

"Power and portability"



PORTÉGÉ

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.

PORTÉGÉ 3010CT £1329 (€1561.57)

- Intel Pentium 266MHz MMX
- 32MB EDO RAM (expandable to 160MB)
- 3.82GB Hard Drive
- Optional CD-ROM
- 10.4" TFT Colour Display
- 800x600 resolution with up to 16.7 million colours

PORTÉGÉ 7010CT £1915 (€2250.12)

- Intel Pentium II 300MHz
- 32MB EDO RAM (expandable to 160MB)
- 3.82GB Hard Drive
- Optional CD-ROM/DVD
- 12.1" TFT Colour Display
- 800x600 resolution with up to 16.7 million colours

| Accessories | Satellite | PORTÉGÉ |
|------------------|----------------|------------------------------|
| Ext 2yr Warranty | £130 (€152.75) | Call for Portege Accessories |
| Spare Battery | £130 (€152.75) | |
| In-Car Adaptor | £65 (€76.37) | |

The world's smallest, lightest Windows 95 PC



Libretto

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.

Libretto 100CT £1087 (€1277.22)

- Intel Pentium 166MHz with MMX
- 32MB EDO RAM
- 2.0GB 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

Libretto 110CT £1247 (€1465.22)

- 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"



TECRA

The Tecra 8000 is a versatile, future-proof platform, available in a range of specifications to suit different users and applications. It is designed to support all anticipated major technology innovations, so you are never forced to move to a different platform.

TECRA 8000CDS £1329 (€1561.57)

- 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" DSTN Colour SVGA Display
- SoundBlaster Pro compatible sound system
- 2x 32bit CardBus PC Card slots
- Windows 95/98 Dual Boot

TECRA 8000CDT £1509 (€1773.07)

- 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
- Windows 95/98 Dual Boot

TECRA 8000CDT £1995 (€2344.12)

- 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
- Windows 95/98 Dual Boot
- Optional Windows NT

TECRA 8000CDT £2245 (€2637.87)

- 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
- Windows 95/98 Dual Boot
- Optional Windows NT

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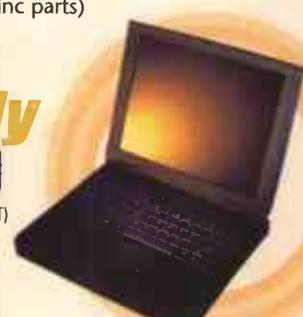
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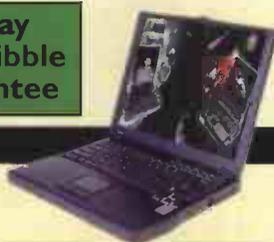
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- For 10BASE-T Ethernet networks
- 3 EtherLink® III ISA Network Interface Cards
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4 Port Starter Kit

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| 3C905B-TX | 10/100BASE-TX PCI | £55 | (£64.62 inc VAT) |
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| 3CCCFEM556 | 10/100BASE-TX & 56k Modem PC Card | £185 | (£217.37 inc VAT) |
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| 3CCFEM556T 10/100 CardBus XJack | 95 | 111.62 |
| 3CCFEM556 10/100 & 56K PCMCIA | 189 | 222.07 |
| 3CXEM556T RJ45 & 56K PCMCIA XJack | 179 | 210.32 |
| 3CXEM556C Combo & 56K PCMCIA XJack | 189 | 222.07 |

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| CardBus Ethernet 10/100 & 56K Modem | 189 | 222.07 |
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| Matrix 3000VA | 1529 | 1796.57 |
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| DP-300 2 parallel, 1 serial & 10/100 RJ45 | 99 | 116.32 |
| DP-602 10/100 Internet Server | 89 | 104.57 |
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| J2556B JetDirect 10/100 RJ45 MID | 264 | 310.20 |
| J3110A JetDirect RJ45 EIO | 181 | 212.67 |
| J3111A JetDirect Combo & LocalTalk EIO | 216 | 253.80 |
| J3113A JetDirect 10/100 RJ45 EIO | 232 | 272.60 |
| External | | |
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| J2591A JetDirect Plus Combo | 186 | 218.55 |
| J2538A JetDirect 170X | 96 | 112.80 |
| J3263A JetDirect 300X 10/100 | 186 | 218.55 |
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| Pro 100 2 parallel 1 serial 3 pack | 545 | 640.37 |

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| DE-852N AUI-AUI | 39 | 45.82 |
| DE-853 AUI-RJ45 | 15 | 17.62 |
| DE-854 AUI-Fibre | 69 | 81.07 |
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| CPA761 ISDN Data | 279 | 327.82 |
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| CPA801 ISDN Data | 449 | 527.57 |
| CPA803 ISDN Data/Voice & 4port Hub | 499 | 586.32 |
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| CPA1720 | 809 | 950.57 |
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| DI-300 10/100 IP | 199 | 233.82 |
| DI-300M 10/100 IP/IPX | 279 | 327.82 |
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| Hubs | | |
| 4port USB Stackable | 49 | 57.57 |
| 7port USB Stackable | 79 | 92.82 |
| 4port Multifunction USB Hub | 95 | 111.62 |
| 4port Ethernet USB Hub | 79 | 92.82 |
| Cards | | |
| 2port USB Card PCI | 24 | 28.20 |
| 4port USB Card PCI | 45 | 52.87 |
| Converters | | |
| USB-Parallel Converter Kit | 33 | 38.77 |
| USB-Serial Converter Kit | 49 | 57.57 |
| USB-Ethernet Converter Kit | 49 | 57.57 |

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|----------------------|------------------------------------|------------------------|
| LAN & WAN | | |
| REM 56G-10T | RealPort 10 + Modem 56 | £189 (€222.07 inc VAT) |
| REM 56G-100BTX | RealPort 10/100 + Modem 56 | £209 (€245.57 inc VAT) |
| RBEM 56-100BTX | RealPort CardBus 10/100 + Modem 56 | £219 (€257.32 inc VAT) |
| ETHERNET | | |
| RE-100BTX | RealPort 10/100 | £85 (€99.87 inc VAT) |
| RBE-100BTX | RealPort CardBus 10/100 | £89 (€104.57 inc VAT) |
| MODEM | | |
| RM56G | RealPort Modem 56 GlobalACCESS | £129 (€151.57 inc VAT) |

APC Back-UPS®, APC Back-UPS Pro®
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- Instantaneous battery backup
- An APC UPS tells you instantly if faulty building wiring could be endangering your UPS and valuable computer equipment
- User replaceable batteries give you a renewable UPS that keeps protecting your equipment year after year without factory service
- A push-button resettable circuit breaker allows quick and easy recovery if you accidentally overload the UPS

| Product | Typical Runtime | Price |
|--------------------|-----------------|----------------|
| Back-UPS 300Mi | 5-15 min. | £55 (€64.62) |
| Back-UPS Pro 280Si | 7-17 min. | £79 (€92.82) |
| Back-UPS 500Mi | 5-30 min. | £69 (€81.07) |
| Back-UPS 650Mi | 5-54 min. | £105 (€123.37) |
| Back-UPS Pro 420Si | 5-18 min. | £105 (€123.37) |
| Back-UPS Pro 650Si | 6-44 min. | £145 (€170.37) |

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- Enhanced protection against long duration brownouts and overvoltages with SmartBoost™ and SmartTrim™ automatic voltage regulation
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- User replaceable, hot-swappable batteries for 100% uptime
- Optional SmartSlot™ accessories customize functionality of models 700VA and up

| Runtime Product/VA | Capacity Half/Full Load | Price |
|--------------------|-------------------------|----------------|
| APC Smart-UPS | | |
| 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. | £265 (€311.37) |
| Smart-UPS 1400 | 18/7 min. | £329 (€386.57) |

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| Model | Manu Part Code | Capacity | Interface | Access | Cache | RPM | Warr | Exc Vat | Inc Vat |
|----------------|----------------|----------|-----------------|--------|-------|------|------|---------|---------|
| IBM | | | | | | | | | |
| Ultrastar 9ES | 00K3970 | 9.1Gb | UltraSCSI | 7.5ms | 512Kb | 7200 | 5Yrs | 290 | 340.75 |
| Ultrastar 9ES | 00K3990 | 9.1Gb | UW SCSI | 7.5ms | 512Kb | 7200 | 5Yrs | 290 | 340.75 |
| Ultrastar 9ES | 00K4010 | 9.1Gb | UW SCSI SCA | 7.5ms | 512Kb | 7200 | 5Yrs | 290 | 340.75 |
| Ultrastar 9ES | 22L0221 | 4.5Gb | UWSCSI LVD | 7.5ms | 512Kb | 7200 | 5Yrs | 149 | 175.07 |
| Ultrastar 9ES | 22L0211 | 9.1Gb | UW SCSI LVD | 7.5ms | 512Kb | 7200 | 5Yrs | 285 | 334.87 |
| Ultrastar 9ES | 22L0231 | 9.1Gb | UWSCSI SCA LVD | 7.5ms | 512Kb | 7200 | 5Yrs | 285 | 334.87 |
| Ultrastar 9LP | 59H6588 | 9.0Gb | UltraSCSI | 6.5ms | 7200 | 5Yrs | 305 | 358.37 | |
| Ultrastar 9LP | 59H6590 | 9.0Gb | UWSCSI | 6.5ms | 7200 | 5Yrs | 305 | 358.37 | |
| Ultrastar 9LP | 59H6594 | 9.0Gb | UWSCSI SCA | 6.5ms | 7200 | 5Yrs | 305 | 358.37 | |
| Ultrastar 9LP | 59H6818 | 9.0Gb | UW SCSI LVD | 6.5ms | 10020 | 5Yrs | 305 | 358.37 | |
| Ultrastar 9LP | 59H6819 | 9.0Gb | UWSCSI SCA LVD | 6.5ms | 10020 | 5Yrs | 305 | 358.37 | |
| Ultrastar 9LZX | 08L8260 | 9.0Gb | UWSCSI LVD | 6.3ms | 7200 | 5Yrs | 425 | 499.37 | |
| Ultrastar 9LZX | 08L8261 | 9.0Gb | SCA SCSI LVD | 6.3ms | 7200 | 5Yrs | 425 | 499.37 | |
| Ultrastar 9LZX | 08L8258 | 18GB | UWSCSI LVD | 6.3ms | 7200 | 5Yrs | Call | Call | |
| Ultrastar 9LZX | 08L8259 | 18GB | SCA SCSI LVD | 6.3ms | 7200 | 5Yrs | Call | Call | |
| Ultrastar 18XP | 59H6589 | 18Gb | UltraSCSI | 7.5ms | 7200 | 5Yrs | 540 | 634.50 | |
| Ultrastar 18XP | 59H6591 | 18Gb | UWSCSI | 7.5ms | 7200 | 5Yrs | 540 | 634.50 | |
| Ultrastar 18XP | 59H6595 | 18Gb | UW SCSI SCA | 7.5ms | 7200 | 5Yrs | 540 | 634.50 | |
| Ultrastar 18XP | 59H6822 | 18Gb | UW SCSI LVD | 7.5ms | 7200 | 5Yrs | 540 | 634.50 | |
| Ultrastar 18XP | 59H6821 | 18Gb | UW SCSI SCA LVD | 7.5ms | 7200 | 5Yrs | 540 | 634.50 | |
| Ultrastar 36XP | 36G6 | | UW LVD | 7.5ms | 7200 | 5Yrs | Call | Call | |
| Ultrastar 36XP | 36G6 | | UW SCSI SCA | 7.5ms | 7200 | 5Yrs | Call | Call | |

| | | | | | | | | | |
|----------------|----------------|--------|-----------------|-------|--------|------|------|-----|--------|
| QUANTUM | | | | | | | | | |
| Viking II | QM304550PX-SW | 4.5Gb | Wide Ultra SCSI | 7.5ms | 512Kb | 7200 | 5Yrs | 164 | 192.70 |
| Viking II | QM304550PX-LW | 4.5Gb | WU2 SCSI (LVD) | 7.5ms | 512Kb | 7200 | 5Yrs | 164 | 192.70 |
| Viking II | QM304550PX-SCA | 4.5Gb | WU2 SCSI (SCA) | 7.5ms | 512Kb | 7200 | 5Yrs | 164 | 192.70 |
| Viking II | QM309100PX-SW | 9.1Gb | Wide Ultra SCSI | 7.5ms | 512Kb | 7200 | 5Yrs | 265 | 311.37 |
| Viking II | QM309100PX-LW | 9.1Gb | WU2 SCSI (LVD) | 7.5ms | 512Kb | 7200 | 5Yrs | 265 | 311.37 |
| Viking II | QM309100PX-SCA | 9.1Gb | WU2 SCSI (SCA) | 7.5ms | 512Kb | 7200 | 5Yrs | 265 | 311.37 |
| Atlas III | QM309100TD-S | 9.1Gb | Ultra SCSI | 7.8ms | 1024Kb | 7200 | 5Yrs | 295 | 346.62 |
| Atlas III | QM309100TD-LW | 9.1Gb | WU2 SCSI (LVD) | 7.8ms | 1024Kb | 7200 | 5Yrs | 295 | 346.62 |
| Atlas III | QM309100TD-SCA | 9.1Gb | WU2 SCSI (SCA) | 7.8ms | 1024Kb | 7200 | 5Yrs | 295 | 346.62 |
| Atlas III | QM318200TD-S | 18.2Gb | Ultra SCSI | 7.8ms | 1024Kb | 7200 | 5Yrs | 555 | 652.12 |
| Atlas III | QM318200TD-LW | 18.2Gb | WU2 SCSI (LVD) | 7.8ms | 1024Kb | 7200 | 5Yrs | 555 | 652.12 |
| Atlas III | QM318200TD-SCA | 18.2Gb | WU2 SCSI (SCA) | 7.8ms | 1024Kb | 7200 | 5Yrs | 555 | 652.12 |

| | | | | | | | | | |
|----------------|------------|--------|-------------------|------------|--------|-------|------|------|--------|
| SEAGATE | | | | | | | | | |
| Medalist Pro | ST34520N | 4.5Gb | UltraSCSI | 9.5/10.5ms | 512Kb | 7200 | 3Yrs | 159 | 186.82 |
| Medalist Pro | ST34520W | 4.5Gb | UW SCSI | 9.5/10.5ms | 512Kb | 7200 | 3Yrs | 175 | 205.62 |
| Medalist Pro | ST34520LW | 4.5Gb | WU2 SCSI (LVD) | 9.5/10.5ms | 512Kb | 7200 | 3Yrs | Call | Call |
| Medalist Pro | ST36530LC | 6.5Gb | UltraSCSI | 9.5/10.5ms | 512Kb | 7200 | 3Yrs | 189 | 222.07 |
| Medalist Pro | ST36530W | 6.5Gb | UWSCSI | 9.5/10.5ms | 512Kb | 7200 | 3Yrs | 226 | 265.55 |
| Medalist Pro | ST36530WC | 6.5Gb | UWSCSI SCA | 9.5/10.5ms | 512Kb | 7200 | 3Yrs | 229 | 269.07 |
| Medalist Pro | ST39140N | 9.1Gb | UltraSCSI | 9.5/10.5ms | 512Kb | 7200 | 3Yrs | 298 | 350.15 |
| Medalist Pro | ST39140W | 9.1Gb | UWSCSI | 9.5/10.5ms | 512Kb | 7200 | 3Yrs | 313 | 367.77 |
| Medalist Pro | ST39140WC | 9.1Gb | UWSCSI SCA | 9.5/10.5ms | 512Kb | 7200 | 3Yrs | 327 | 384.22 |
| Barracuda 9LP | ST34573N | 4.5Gb | UltraSCSI | 7.1/7.8ms | 512Kb | 7200 | 5Yrs | 291 | 341.92 |
| Barracuda 9LP | ST34573W | 4.5Gb | UWSCSI | 7.1/7.8ms | 512Kb | 7200 | 5Yrs | 295 | 346.62 |
| Barracuda 9LP | ST34573LW | 4.5Gb | LVD | 7.1/7.8ms | 1024Kb | 7200 | 5Yrs | 302 | 354.85 |
| Barracuda 9LP | ST39173N | 9.1Gb | UltraSCSI | 7.1/7.8ms | 512Kb | 7200 | 5Yrs | 349 | 410.07 |
| Barracuda 9LP | ST39173W | 9.1Gb | UWSCSI | 7.1/7.8ms | 512Kb | 7200 | 5Yrs | 349 | 410.07 |
| Barracuda 9LP | ST39173WC | 9.1Gb | UWSCSI SCA | 7.1/7.8ms | 512Kb | 7200 | 5Yrs | 369 | 433.57 |
| Barracuda 9LP | ST39173WD | 9.1Gb | Wide Differential | 7.1/7.8ms | 512Kb | 7200 | 5Yrs | 455 | 534.62 |
| Barracuda 9LP | ST39173LW | 9.1Gb | LVD | 7.1/7.8ms | 1024Kb | 7200 | 5Yrs | 385 | 452.37 |
| Barracuda 9LP | ST39173LC | 9.1Gb | LVD SCA | 7.1/7.8ms | 1024Kb | 7200 | 5Yrs | 389 | 457.07 |
| Barracuda 18 | ST118273N | 18.2Gb | UltraSCSI | 7.6/8.3ms | 512Kb | 7200 | 5Yrs | 645 | 757.87 |
| Barracuda 18 | ST118273W | 18.2Gb | UWSCSI | 7.6/8.3ms | 512Kb | 7200 | 5Yrs | 649 | 762.57 |
| Barracuda 18 | ST118273WC | 18.2Gb | UWSCSI SCA | 7.6/8.3ms | 512Kb | 7200 | 5Yrs | 649 | 762.57 |
| Barracuda 18 | ST118273WD | 18.2Gb | Wide Differential | 7.6/8.3ms | 512Kb | 7200 | 5Yrs | 705 | 828.37 |
| Barracuda 18 | ST118273LW | 18.2Gb | LVD | 7.6/8.3ms | 1024Kb | 7200 | 5Yrs | 656 | 770.80 |
| Barracuda 18 | ST118273LC | 18.2Gb | LVD SCA | 7.6/8.3ms | 1024Kb | 7200 | 5Yrs | 656 | 770.80 |
| Barracuda 18 | ST118273FC | 18.2Gb | Fibre Channel | 7.6/8.3ms | 1024Kb | 7200 | 5Yrs | 662 | 777.85 |
| Cheetah 4LP | ST34501N | 4.5Gb | UltraSCSI | 5.7/6.5ms | 1024Kb | 10000 | 5Yrs | 316 | 371.30 |
| Cheetah 4LP | ST34501W | 4.5Gb | UWSCSI | 5.7/6.5ms | 1024Kb | 10000 | 5Yrs | 314 | 368.95 |
| Cheetah 9LP | ST39102LW | 9.1Gb | LVD | 5.2/6.0ms | 1024Kb | 10000 | 5Yrs | 476 | 559.30 |
| Cheetah 9LP | ST39102LC | 9.1Gb | LVD SCA | 5.2/6.0ms | 1024Kb | 10000 | 5Yrs | 436 | 512.30 |
| Cheetah 18 | ST118202LW | 18.2Gb | LVD | 5.7/6.5ms | 1024Kb | 10000 | 5Yrs | 805 | 945.87 |
| Cheetah 18 | ST118202LC | 18.2Gb | LVD SCA | 5.7/6.5ms | 1024Kb | 10000 | 5Yrs | 807 | 948.22 |

| | | | | | | | | | |
|------------------------|--------------|--------|--------------------|-------|--------|------|------|-----|--------|
| WESTERN DIGITAL | | | | | | | | | |
| Enterprise 4550 | 4550-003 | 4.5Gb | Ultra SCSI | 7.9ms | 512Kb | 7200 | 5Yrs | 245 | 287.87 |
| Enterprise 4550 | 4550-007 | 4.5Gb | UW SCSI | 7.9ms | 512Kb | 7200 | 5Yrs | 245 | 287.87 |
| Enterprise 4550 | 4550-008 | 4.5Gb | UW SCSI (SCA) | 7.9ms | 512Kb | 7200 | 5Yrs | 245 | 287.87 |
| Enterprise 4550 | 4550-0024 | 4.5Gb | WU2 SCSI (LVD) | 7.8ms | 512Kb | 7200 | 5Yrs | 257 | 301.97 |
| Enterprise 4550 | 4550-0025 | 4.5Gb | WU2 SCSI (LVD/SCA) | 7.8ms | 512Kb | 7200 | 5Yrs | 257 | 301.97 |
| Enterprise 4550 | 4550-AV0030 | 4.5Gb | WU2 SCSI (LVD) | 7.8ms | 4096Kb | 7200 | 5Yrs | 276 | 324.30 |
| Enterprise 4550 | 4550-AV0034 | 4.5Gb | WU2 SCSI (LVD/SCA) | 7.8ms | 4096Kb | 7200 | 5Yrs | 276 | 324.30 |
| Enterprise 9100 | 9100-0003 | 9.1Gb | Ultra SCSI | 7.9ms | 512Kb | 7200 | 5Yrs | 289 | 339.57 |
| Enterprise 9100 | 9100-0007 | 9.1Gb | UW SCSI | 7.9ms | 512Kb | 7200 | 5Yrs | 289 | 339.57 |
| Enterprise 9100 | 9100-0008 | 9.1Gb | UW SCSI (SCA) | 7.9ms | 512Kb | 7200 | 5Yrs | 289 | 339.57 |
| Enterprise 9100 | 9100-AV0016 | 9.1Gb | UW SCSI | 7.9ms | 1024Kb | 7200 | 5Yrs | 296 | 347.80 |
| Enterprise 9100 | 9100-AV0017 | 9.1Gb | UW SCSI (SCA) | 7.9ms | 1024Kb | 7200 | 5Yrs | 296 | 347.80 |
| Enterprise 9100 | 9100-0024 | 9.1Gb | WU2 SCSI (LVD) | 7.8ms | 512Kb | 7200 | 5Yrs | 310 | 364.25 |
| Enterprise 9100 | 9100-0025 | 9.1Gb | WU2 SCSI (LVD/SCA) | 7.8ms | 512Kb | 7200 | 5Yrs | 310 | 364.25 |
| Enterprise 9100 | 9100-AV0030 | 9.1Gb | WU2 SCSI (LVD) | 7.8ms | 4096Kb | 7200 | 5Yrs | 329 | 386.57 |
| Enterprise 9100 | 9100-AV0034 | 9.1Gb | WU2 SCSI (LVD/SCA) | 7.8ms | 4096Kb | 7200 | 5Yrs | 329 | 386.57 |
| Enterprise 18300 | 18300-0048 | 18.3Gb | WU2 SCSI (LVD) | 6.9ms | 2056Kb | 7200 | 5Yrs | 574 | 674.45 |
| Enterprise 18301 | 18300-0049 | 18.3Gb | WU2 SCSI (SCA) | 6.9ms | 2056Kb | 7200 | 5Yrs | 574 | 674.45 |
| Enterprise 18302 | 18300-AV0038 | 18.3Gb | WU2 SCSI (LVD) | 6.9ms | 4096Kb | 7200 | 5Yrs | 593 | 696.77 |
| Enterprise 18303 | 18300-AV0039 | 18.3Gb | WU2 SCSI (LVD/SCA) | 6.9ms | 4096Kb | 7200 | 5Yrs | 593 | 696.77 |

UW = Ultra Wide SCSI, WU2 = Wide Ultra 2 SCSI

HARD DISCS

EIDE HARD DISCS

| Model | Manu Part | Capacity | Interface | Access | Cache | RPM | Warr | Exc Vat | Inc Vat |
|----------------|-----------------|----------|-----------|--------|--------|------|------|---------|---------|
| FUJITSU | | | | | | | | | |
| PicoBird | MPB/C 3032AT-UD | 3.2Gb | UDMA33 | 10ms | 256Kb | 5400 | 3Yrs | 74 | 86.95 |
| PicoBird | MPB/C 3043AT-UD | 4.3Gb | UDMA33 | 10ms | 256Kb | 5400 | 3Yrs | 83 | 97.52 |
| PicoBird | MPB/C 3064AT-UD | 6.4Gb | UDMA33 | 10ms | 256Kb | 5400 | 3Yrs | 95 | 111.62 |
| PicoBird | MPB/C 3084AT-UD | 8.4Gb | UDMA33 | 10ms | 256Kb | 5400 | 3Yrs | 118 | 138.65 |
| PicoBird | MPB/C 3102AT-UD | 10.2Gb | UDMA33 | 10ms | 256Kb | 5400 | 3Yrs | 128 | 150.40 |
| IBM | | | | | | | | | |
| Deskstar 16GP | DTTA-350640 | 6.4Gb | UDMA33 | 9.5ms | 512Kb | 5400 | 3Yrs | 101 | 118.67 |
| Deskstar 16GP | DTTA-350840 | 8.4Gb | UDMA33 | 9.5ms | 512Kb | 5400 | 3Yrs | 108 | 126.90 |
| Deskstar 16GP | DTTA-351010 | 10.4Gb | UDMA33 | 9.5ms | 512Kb | 5400 | 3Yrs | 125 | 146.87 |
| Deskstar 16GP | DTTA-351290 | 12.9Gb | UDMA33 | 9.5ms | 512Kb | 5400 | 3Yrs | 163 | 191.52 |
| Deskstar 16GP | DTTA-351680 | 16.8Gb | UDMA33 | 9.5ms | 512Kb | 5400 | 3Yrs | 221 | 259.67 |
| Deskstar 14GXP | DTTA-371010 | 10.1Gb | UDMA33 | 9.5ms | 512Kb | 7200 | 3Yrs | 155 | 182.12 |
| Deskstar 14GXP | DTTA-371440 | 14.4Gb | UDMA33 | 9.5ms | 512Kb | 7200 | 3Yrs | 217 | 254.97 |
| Deskstar 22GXP | DJNA-371800 | 18.0Gb | UDMA66 | 9.0ms | 2048Kb | 7200 | 3Yrs | Call | Call |
| Deskstar 22GXP | DJNA-372200 | 22.0Gb | UDMA66 | 9.0ms | 2048Kb | 7200 | 3Yrs | Call | Call |

| | | | | | | | | | |
|----------------------|---------|---------|--------|-----|-------|------|------|-----|--------|
| MAXTOR | | | | | | | | | |
| DiamondMax 4320 | 9043202 | 4.3Gb | UDMA33 | 9ms | 256Kb | 5400 | 3Yrs | 81 | 95.17 |
| DiamondMax 4320 | 9064803 | 6.4Gb | UDMA33 | 9ms | 256Kb | 5400 | 3Yrs | 95 | 111.62 |
| DiamondMax 4320 | 9084504 | 8.4Gb | UDMA33 | 9ms | 256Kb | 5400 | 3Yrs | 109 | 128.07 |
| DiamondMax 4320 | 9108005 | 10.8Gb | UDMA33 | 9ms | 512Kb | 5400 | 3Yrs | 128 | 150.40 |
| DiamondMax 4320 | 9130306 | 13.0Gb | UDMA33 | 9ms | 512Kb | 5400 | 3Yrs | 165 | 193.87 |
| DiamondMax 4320 | 9172808 | 17.28Gb | UDMA33 | 9ms | 512Kb | 5400 | 3Yrs | 219 | 257.32 |
| DiamondMax Plus 2500 | 9050004 | 5.0Gb | UDMA33 | 9ms | 512Kb | 7200 | 3Yrs | 107 | 125.72 |
| DiamondMax Plus 2500 | 9075006 | 7.5Gb | UDMA33 | 9ms | 512Kb | 7200 | 3Yrs | 135 | 158.62 |
| DiamondMax Plus 2500 | 9100008 | 10.0Gb | UDMA33 | 9ms | 512Kb | 7200 | 3Yrs | 161 | 189.17 |

| | | | | | | | | | |
|----------------|--------------|-------|--------|-------|-------|------|------|----|-------|
| QUANTUM | | | | | | | | | |
| Fireball EX | QM303200EX-A | 3.2Gb | UDMA33 | 9.5ms | 512Kb | 5400 | 3Yrs | 73 | 85.77 |
| Fireball EX | QM305100EX-A | 5.1Gb | | | | | | | |

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| 650Mb CD Recordable x 100 each | 0.90 | 1.05 |
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| 650Mb CD ReWriteable x 100 each | 10.00 | 11.75 |

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| Travan TR-3 1.6/3.2Gb | 22 | 25.85 |
| Travan TR-4 4/8Gb | 25 | 29.37 |
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| 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 |

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| 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 SparQ 1.0Gb | 28 | 32.90 |
| SyQuest SparQ 1.0Gb 3 pack | 88 | 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 |

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| 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 |

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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 | £103 | (£121.02) |
| 00K4101 Titan 16GP | 8.4Gb | EIDE/Ultra DMA/33 | 9.5ms | 5400 | £115 | (£135.12) |
| 00K4091 Titan 14GP | 10.1Gb | EIDE/Ultra DMA/33 | 9.5ms | 5400 | £131 | (£153.92) |
| 00K4083 Titan 14GP | 12.9Gb | EIDE/Ultra DMA/33 | 9.5ms | 5400 | £175 | (£205.62) |
| 00K4073 Titan 14GP | 16.8Gb | EIDE/Ultra DMA/33 | 9.5ms | 5400 | £230 | (£270.25) |
| 03L5261 Titan | 10.1Gb | EIDE/Ultra DMA/33 | 9.5ms | 7200 | £160 | (£188.00) |
| 00K4071 Titan | 14.4Gb | EIDE/Ultra DMA/33 | 9.5ms | 7200 | £230 | (£270.25) |
| Ultrastar 9ES 1" | 4.5Gb | UltraWide SCSI SCA | 7.5ms | 7200 | £170 | (£199.75) |
| Ultrastar 9ES 1" | 9.1Gb | UltraWide SCSI SCA | 7.5ms | 7200 | £315 | (£370.12) |
| Ultrastar 9ES 1" | 9.1Gb | UltraWide SCSI SCA | 7.5ms | 7200 | £325 | (£381.87) |
| Ultrastar 9ES 1" | 9.1Gb | UltraWide SCSI SCA | 7.5ms | 7200 | £325 | (£381.87) |

Seagate

The Medalist family of drives

Seagate continues to lead the market with high-capacity, high-performance Ultra ATA disc drives for midrange and high-end desktop PCs.



| Model | Capacity | Interface | Access Time | Speed | Exc Vat | Inc Vat |
|-----------|----------|-----------|-------------|-------|---------|-----------------|
| ST33210A | 3.2Gb | UDMA3 | 12ms | 4500 | £72 | (£84.60) |
| ST34321A | 4.3Gb | UDMA3 | 10.5ms | 5400 | £81 | (£95.17) |
| ST34310A | 4.3Gb | UDMA3 | 9ms | 5400 | £Call | (£Call inc VAT) |
| ST36531A | 6.5Gb | UDMA3 | 10.5ms | 5400 | £97 | (£113.97) |
| ST36530A | 6.5Gb | UDMA3 | 9.5ms | 7200 | £99 | (£116.32) |
| ST36422A | 6.5Gb | UDMA3 | 9.5ms | 5400 | £Call | (£Call inc VAT) |
| ST38641A | 8.6Gb | UDMA3 | 10.5ms | 5400 | £119 | (£139.82) |
| ST39140A | 9.1Gb | UDMA3 | 9.5ms | 7200 | £135 | (£158.62) |
| ST310230A | 10.2Gb | UDMA3 | 9.5ms | 5400 | £Call | (£Call inc VAT) |

Prices shown in brackets are inclusive of VAT

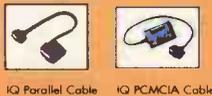
The Medalist family of drives are backed by a 3 year limited warranty

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- DVD Traveller, 20X read (140ms) / 2X DVD optional MPEG-2 Decoder PC Card for '95/'98 and NT to run DVD movies.
- Size 7" X 5.5" X 0.8"



| | Price | inc VAT |
|------------------------------------|-------|---------|
| T2689 Freecom Traveller CD-ROM 24X | £129 | £151.57 |
| T2805 PCMCIA Traveller DVD 2X/20X | £259 | £304.32 |
| T2647 PCMCIA MPEG II controller | £159 | £186.82 |
| T2545 Freecom IQ PCMCIA Cable | £30 | £35.25 |
| T2544 Freecom IQ Parallel Cable | £23 | £27.02 |
| T2775 Freecom IQ USB Cable | £32 | £37.60 |



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| | Price | inc VAT |
|----------------------------------|-------|---------|
| T2662 Freecom DDS-2 DAT 4-8 GB | £459 | £539.32 |
| T2663 Freecom DDS-3 DAT 12-24 GB | £639 | £750.82 |

The EXTERNAL DAT VALUE KIT includes: installation manual, 5 DAT tapes, cleaning cartridge and NOVASTOR backup software for DOS, Windows 3.x/95/98/NT4.0 and OS/2.

| | Price | inc VAT |
|--|-------|---------|
| T2675 Freecom DDS-3 DAT 12-24 GB SCSI | £499 | £586.32 |
| T2677 Freecom DDS-2 DAT 4-8 GB Parallel/SCSI | £679 | £797.82 |

* The DDS-3 12-24 GB includes 1 DAT tape

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- also available: CD-ROM 32X
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|---------------------------------|-------|---------|
| T2661 Freecom CD-RW 2X/2X/6X | £199 | £233.82 |
| T2659 Freecom CD-RW 4X/4X/20X | £265 | £311.37 |
| T2658 Freecom DVD-ROM 2X/24X | £149 | £175.07 |
| T2683 Freecom CD-ROM 32X | £79 | £92.82 |
| T2545 Freecom IQ PCMCIA Cable | £30 | £35.25 |
| T2544 Freecom IQ Parallel Cable | £23 | £27.02 |
| T2775 Freecom IQ USB Cable | £32 | £37.60 |



- Portable CD-ROM drive.
- Installs instantly - no controller cards needed.
- No changes to your config.sys. needed.
- Carrying handle for optimal portability.
- Comes complete with cables and drivers (Win3.x/95/98/DOS/Novell & OS/2).

CD-ROM

| | Price | inc VAT |
|--------------------------------------|-------|---------|
| T2565 36X, External, Parallel | £112 | £131.60 |
| T2566 36X, External, Parallel & SCSI | £135 | £158.62 |
| T2592 TOP CD 36X, External, Parallel | £89 | £104.57 |

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- Reads all different CD formats.
- Burns CD-Recordable disks.
- Rewrites CD-ReWritable disks.
- Create your own audio disks.
- Includes Adaptec Easy CD Creator/Direct CD and FREE software Tools for Windows 95/98/NT.
- Supplied with three media disks (two CD-R and one CD-RW).



CONNECT

| | Price | inc VAT |
|---------------------------------|-------|---------|
| T1626 2X/2X/6X Parallel | £199 | £233.82 |
| T2667 4X/4X/16X Parallel & SCSI | £335 | £393.62 |

SATELLITE

| | Price | inc VAT |
|----------------------|-------|---------|
| T2486 2X/2X/6X SCSI | £209 | £245.37 |
| T2550 4X/4X/16X SCSI | £309 | £363.07 |



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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 |
|-----------------------------|-----------------|----------------------------|-----------|---------|---------|
| AMACOM | | | | | |
| EZCD x24 | Parallel | Twenty Four | Ext | 125 | 146.87 |
| EZCD x32 | Parallel | Thirty Two | Ext | 135 | 158.62 |
| EZCD Sound x24 | Parallel | Twenty Four | Ext | 170 | 199.75 |
| EZCD Sound x32 | Parallel | Thirty Two | Ext | 180 | 211.50 |
| EZCD Bravo x20 | PCMCIA | Twenty | Ext | 165 | 193.87 |
| AOPEN | | | | | |
| CD936E 36 | IDE | Thirty Six | Int | 29 | 34.07 |
| CD940E 40 | IDE | Forty | Int | 34 | 39.95 |
| ASUSTEK | | | | | |
| CD-S340 34 | IDE | Thirty Four | Int | 35 | 41.12 |
| CD-S400 40 | IDE | Forty | Int | 45 | 52.87 |
| COMPUTER CONNECTIONS | | | | | |
| Connect 36 (12565) | Parallel/IDE | Thirty Six | Ext | 112 | 131.60 |
| Connect 36 (12566) | Parallel/SCSI | Thirty Six | Ext | 135 | 158.62 |
| Top CD 36 (12671) | Parallel/IDE | Thirty Six | Ext | 89 | 104.57 |
| FREECOM | | | | | |
| Freecom DVD-ROM (12658) | Parallel/PCMCIA | 24x/2x | Ext | 149 | 175.7 |
| Traveller CD-ROM (12689) | PCMCIA 2 | 24x | Ext | 129 | 151.57 |
| Traveller DVD (12692) | PCMCIA 2 | 20x 2x | Ext | 219 | 257.32 |
| MPEG 2 Decoder (12647) | PCMCIA 2 | n/a | for above | 159 | 186.82 |
| CREATIVE LABS | | | | | |
| CL 36x OEM | EIDE | Thirty Six | Int | 24 | 28.20 |
| DiscoveryPCI 128 Kit | IDE | 5x, 32x + SB128PCI + Spkrs | Int | 70 | 82.25 |
| PC-DVD Encore 5x DXR2 | IDE | 5x, 32x + MPEG Card | Int | 135 | 158.62 |
| LG | | | | | |
| CRD-8320D | IDE | Thirty Two | Int | 29 | 34.07 |
| CRN-8240E | PCMCIA | Twenty Four | Ext | 115 | 135.12 |
| DRD-820B DVD-ROM | IDE | 2x DVD, 24x CDROM | Int | 77 | 90.47 |
| MITSUMI | | | | | |
| FX-320 | IDE | Thirty Two | Int | 25 | 29.37 |
| PANASONIC | | | | | |
| CR588 | IDE | Thirty Two | Int | 25 | 29.37 |
| CR508 | SCSI | Twenty Four | Int | 55 | 64.62 |
| LFD101 DVD-RAM | SCSI | 1x DVD, 20x CDROM | Int | 385 | 452.37 |
| PHILLIPS | | | | | |
| PCA36XCD | IDE | Thirty Six | Int | 31 | 36.42 |
| PCA40XCD | IDE | Forty | Int | 37 | 43.47 |
| DVD-ROM | IDE | 5x, 32x+ H/WPlusMPEG card | Int | Call | Call |
| PIONEER | | | | | |
| DR744 | IDE | Thirty Six | Int | 34 | 39.95 |
| DR-706S Slot loading | SCSI | Thirty Six | Int | 47 | 55.22 |
| DR-704S Slot loading | IDE | Thirty Six | Int | 39 | 45.82 |
| PLEXTOR | | | | | |
| UltraPlex PX32TSI | SCSI | Thirty Two | Int | 70 | 82.25 |
| UltraPlex PX32CSI | SCSI | Thirty Two | Int | 113 | 132.77 |
| UltraPlex PX32TSE | SCSI | Thirty Two | Ext | 117 | 137.47 |
| UltraPlex PX40TSI | SCSI | Forty | Int | 84 | 98.70 |
| UltraPlex PX40TSE | SCSI | Forty | Ext | 131 | 153.92 |
| SAMSUNG | | | | | |
| SCR-3230 | IDE | Thirty Two | Int | 25 | 29.37 |
| TEAC | | | | | |
| CD-532E | IDE | Thirty Two | Int | 28 | 32.90 |
| CD-532S | SCSI | Thirty Two | Int | 55 | 64.62 |
| TOSHIBA | | | | | |
| XM6202B | IDE | Thirty Two | Int | 31 | 36.42 |
| XM6201B | SCSI | Thirty Two | Int | 60 | 70.50 |

CD RECORDABLE & CD REWRITEABLE

| Model | Interface | Read/Write Speed | Int/Ext | Software Included | SCSI Card Included | Media | Ex VAT | Inc VAT |
|-----------------------------|---------------|------------------|---------|-------------------|--------------------|---------------|--------|---------|
| COMPUTER CONNECTIONS | | | | | | | | |
| CDRW Satellite 12486 | SCSI | 6x 2 x 2x | Ext | Yes | No | 2 CDR, 1 CDRW | 209 | 245.57 |
| CDRW Satellite 12550 | SCSI | 16x 4 x 4x | Ext | Yes | No | 2 CDR, 1 CDRW | 309 | 363.07 |
| 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 | 199 | 233.82 |
| CDRW Connect 12718 | Parallel/SCSI | 4x 4x 16x | Int | Yes | No | 2 CDR, 1 CDRW | 269 | 316.07 |
| CDRW Connect 12667 | Parallel/SCSI | 4x 4x 16x | Ext | Yes | No | 2 CDR, 1 CDRW | 335 | 393.62 |
| FREECOM | | | | | | | | |
| Freecom CD-RW 12661 | Parallel/SCSI | 6x 2x 2x | Ext | Yes | No | 2 CDR, 1 CDRW | 199 | 233.82 |
| Freecom CD-RW 12659 | Parallel/SCSI | 20x 4x 4x | Ext | Yes | No | 2 CDR, 1 CDRW | 260 | 305.50 |
| HEWLETT PACKARD | | | | | | | | |
| Surestore 7200i CDRW | IDE | 6x 2x 2x | Int | Yes | N/a | 1 CDRW, 1 CDR | 145 | 170.37 |
| Surestore 7200e CDRW | Parallel | 6x 2x 2x | Ext | Yes | No | 1 CDRW, 1 CDR | 233 | 273.77 |
| Surestore 8100i CDRW | IDE | 24 4x 2x | Int | Yes | N/a | 1 CDRW, 1 CDR | 229 | 269.07 |
| LACIE | | | | | | | | |
| DCDYW6-GRL | SCSI | 4x 4x 16x | Ext | Yes | No | 1 CDRW | 279 | 327.82 |
| DCDCW2-Y2C | SCSI | 2x 2x 6x | Ext | Yes | No | 1 CDRW | 199 | 233.82 |
| DCDCR5-E2C | SCSI | 12x 4x | Ext | Yes | No | 1 CDR | 199 | 233.82 |
| MITSUMI | | | | | | | | |
| CR2801TE | IDE | 8x 2x | Int | Yes | N/a | 3 CDR | 120 | 141.00 |
| CR4801TE | IDE | 8x 4x | Int | Yes | N/a | 3 CDR | 141 | 165.67 |
| PHILIPS | | | | | | | | |
| PCA363RW | Parallel | | Ext | Yes | No | 1 CDRW, 1 CDR | 134 | 157.45 |
| PCA362RW | IDE | | Int | Yes | N/a | 1 CDRW, 1 CDR | 142 | 166.85 |
| PCA350RW | SCSI | | Int | Yes | No | 1 CDRW, 1 CDR | 181 | 212.67 |
| PLEXTOR | | | | | | | | |
| PlexWriter PX-R412Ci | SCSI | 12r4w | Int | Yes | No | 1 CDR | 185 | 217.37 |
| PlexWriter PX-R412Ce | SCSI | 12r4w | Ext | Yes | No | 1 CDR | 275 | 323.12 |
| RICOH | | | | | | | | |
| MP-6200S Bare | SCSI | 6x 2x 2x | Int | Yes (Data) | No | No | 175 | 205.62 |
| MP-6200S Soft/Media | SCSI | 6x 2x 2x | Int | Yes | No | 1 CDRW, 5 CDR | 185 | 217.37 |
| MP-6200S Kit | SCSI | 6x 2x 2x | Int | Yes | Yes | 1 CDRW, 5 CDR | 215 | 252.62 |
| MP-6200S Bare | SCSI | 6x 2x 2x | Ext | Yes (Data) | No | No | 215 | 252.62 |
| MP-6200S Soft/Media | SCSI | 6x 2x 2x | Ext | Yes | No | 1 CDRW, 5 CDR | 255 | 299.62 |
| MP-6200S Kit | SCSI | 6x 2x 2x | Ext | Yes | Yes | 1 CDRW, 1 CDR | 280 | 329.00 |
| MP7040A-DP Kit | IDE | 20x 4x 4x | Ext | Yes | Yes | 1 CDRW, 5 CDR | 275 | 323.12 |
| TEAC | | | | | | | | |
| CDR-55S | SCSI | 12r4w | Int | Yes (recording) | No | 1 CDR | 166 | 195.05 |
| CDR-55SK | SCSI | 12r4w | Int | Yes (recording) | No | 1 CDR | 180 | 211.50 |
| CDR-55SKC | SCSI | 12r4w | Int | Yes (recording) | PCI | 1 CDR | 239 | 280.82 |
| TRAXDATA | | | | | | | | |
| CDR4120ELPRO | SCSI | 12x 4x | Int | Yes (recording) | No | 2 x CDR | 178 | 209.15 |
| CDE4120ELPRO | SCSI | 12x 4x | Ext | Yes (recording) | No | 2 x CDR | 211 | 247.92 |
| CDRW2260PLUS | IDE | 6x 2x 2x | Int | Yes (recording) | n/a | 1 CDRW, 1 CDR | 160 | 188.00 |
| CDEW2260ELPLUS | IDE | 6x 2x 2x | Ext | Yes | n/a | 1 CDRW, 1 CDR | 186 | 218.55 |
| CDRW-2260ELPRD | SCSI | 6x 2x 2x | Int | Yes | No | No | 188 | 220.90 |
| CDEW-2260ELPRO | SCSI | 6x 2x 2x | Ext | Yes | No | No | 212 | 249.10 |
| CDRW 6240ELPRO | SCSI | 24x 6x | Int | Yes | No | No | 280 | 329.00 |
| YAMAHA | | | | | | | | |
| CDRW 4261T Kit | IDE | 6x 4x 2x | Int | Yes | n/a | 1 CDRW, 1 CDR | 190 | 223.25 |
| CDRW 4416S Bare | SCSI | 16x 4x 4x | Int | No | No | No | 217 | 254.97 |
| CDRW 4416S with S/W | SCSI | 16x 4x 4x | Int | Yes | No | No | 228 | 267.90 |
| CDRW 4416S Kit | SCSI | 16x 4x 4x | Int | Yes | Yes | No | 249 | 292.57 |
| 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 | 299 | 351.32 |

CD MEDIA

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| 650Mb CD Recordable x 10 each | 0.90 | 1.05 |
| 650Mb CD Recordable x 100 each | 0.80 | 0.94 |
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| 650Mb CD ReWriteable x 10 each | 8.50 | 9.98 |
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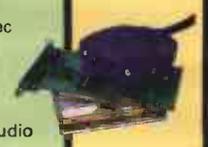
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Ditto 3.7GB Single **£14** (£16.45)
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| C1520H | HP Surestore Tape 2000e + media | £388 | (£455.90 inc VAT) |
| C1526H | HP Surestore Tape 5000i + media | £330 | (£387.75 inc VAT) |
| C1521H | HP Surestore Tape 5000e + media | £409 | (£480.57 inc VAT) |
| 92283B | Media 5 pack | £15 | (£17.62 inc VAT) |
| C1536A | HP 2/4Gb Internal DAT Internal SCSI OEM | £259 | (£304.32 inc VAT) |
| 92283B | Media 5 pack | £15 | (£17.62 inc VAT) |
| C1528H | HP Surestore DAT8i Internal 4/8Gb | £499 | (£586.32 inc VAT) |
| C1529H | HP Surestore DAT8e External 4/8Gb | £590 | (£693.25 inc VAT) |
| 92300A | Media 5 pack | £35 | (£41.12 inc VAT) |
| C1555B | HP Surestore DAT24i Internal 12/24Gb | £727 | (£854.22 inc VAT) |
| C1556B | HP Surestore DAT24e External 12/24Gb | £805 | (£945.87 inc VAT) |
| C1517A | Media 5 pack | £80 | (£94 inc VAT) |
| C5648A | HP DAT24x6e 144Gb External Autoloader | £1628 | (£1912.90 inc VAT) |
| C1559A | HP Surestore DAT 24x6e 144Gb External Autoloader + media | £1865 | (£2191.37 inc VAT) |

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 inc VAT) |
| C5645B | Surestore T4e External SCSI + media | £264 | (£310.20 inc VAT) |
| C4425A | Media TR4 Single | £24 | (£28.20 inc VAT) |

HP Surestore DLT

High-performance backup for high-end servers

| | | | |
|--------|--------------------------------------|-------|--------------------|
| C5647A | HP DLT 40i 40Gb DLT Internal + media | £1902 | (£2234.85 inc VAT) |
| C1579A | HP DLT 40e 40Gb DLT External + media | £2105 | (£2473.37 inc VAT) |
| C5658A | HP DLT 70e 70Gb DLT External + media | £4252 | (£4996.10 inc VAT) |
| C5141F | Media | £55 | (£64.62 inc VAT) |



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
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- 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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- 4 speed write for CD-R, 2 speed write for CD-RW
- Up to 650MB, 74 minutes audio
- Software included: Adaptec DirectCD, Adaptec Easy CD Creator, HP Simple Trax, HP Disaster Recovery, HP Fast Format, Multimedia Tutorial and Install Assistant

| | | | |
|------------------------------|---------------|------|-------------------|
| HP SureStore CD-Writer 8100i | Internal EIDE | £229 | (£269.07 inc VAT) |
|------------------------------|---------------|------|-------------------|

REMOVABLE DRIVES & STREAMERS



REMOVABLE DRIVES

| | Capacity | Interface | Internal | inc vat | External | inc vat |
|-----------------------|--------------|-----------|----------|---------|----------|---------|
| IOmega | | | | | | |
| Zip Red | 250Mb | SCSI | - | - | 139 | 163.32 |
| Zip Starter Kit | 100Mb | Parallel | - | - | 109 | 128.07 |
| Star Trek Starter Kit | 100Mb | Parallel | - | - | 109 | 128.07 |
| Zip | 100Mb | USB | - | - | 99 | 116.32 |
| Zip | 100Mb | EIDE | 69 | 81.07 | - | - |
| Zip | 100Mb | SCSI | 79 | 92.82 | 79 | 92.82 |
| Zip | 100Mb | Parallel | - | - | 79 | 92.82 |
| Jaz 2Gb | 2Gb | SCSI | 249 | 292.57 | 249 | 292.57 |
| AMACOM | | | | | | |
| Baby Zip | 100Mb | PCMCIA | - | - | 169 | 198.57 |
| FlipDisk | 2.1 - 4.2Gb | PCMCIA | - | - | 285 | 334.87 |
| FlipDisk | 4.0 - 8.0Gb | PCMCIA | - | - | 399 | 468.82 |
| FlipDisk | 6.4 - 12.8Gb | PCMCIA | - | - | 499 | 506.32 |
| PANASONIC | | | | | | |
| 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 JUB11T | 100Mb | IDE | 59 | 69.32 | - | - |

BACKUP DEVICES

| | Capacity | Interface | Internal | inc vat | External | inc vat | Parallel | inc vat |
|------------------------|-----------|-----------|----------|---------|----------|---------|----------|---------|
| HEWLETT PACKARD | | | | | | | | |
| 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 | - | - |
| IOmega | | | | | | | | |
| Ditto Max Pro | 3/10Gb | IDE | 139 | 162.32 | - | - | 169 | 198.57 |
| QUANTUM | | | | | | | | |
| DLT 4000 | 20/40Gb | SCSI | 1633 | 1918.77 | 1744 | 2049.20 | - | - |
| DLT 7000 | 35/70Gb | SCSI | 3622 | 4255.85 | 3733 | 4386.27 | - | - |
| SEAGATE | | | | | | | | |
| Tapestor 8000i | 4/8Gb | IDE | 154 | 180.95 | - | - | - | - |
| Tapestor 8000S | 4/8Gb | SCSI | 176 | 206.80 | 264 | 310.20 | - | - |
| SEAGATE DAT | | | | | | | | |
| 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 | | | | | | | | |
| 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 | - | - |

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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 |
|---|------------------|-------------------|-------------------|-------------|------------|----------|-----------|---------------------------|---------|---------|
| AH6 | Intel 440LX | 3D | 3/2/1 | ATX | No | No | No | No | 46 | 54.05 |
| LX6 | Intel 440LX | 4D | 4/3/1 | ATX | No | No | No | No | 48 | 56.40 |
| LM6 | Intel 440LX | 4D | 5/2/1 | ATX | No | No | No | No | 52 | 61.10 |
| BX6 | Intel 440BX | 4D | 4/3/1 | ATX | No | No | No | Yes | 76 | 89.30 |
| BH6 | Intel 440BX | 3D | 5/2/1 | ATX | No | No | No | Yes | 65 | 76.37 |
| BMG Socket 370 | Intel 440BX | 3D | 3/2/1 | ATX | No | No | No | Yes | 70 | 82.25 |
| AOPEN | | | | | | | | | | |
| AX59Pro 1Mb VIA MVP3 100MHz | 3D, 2S | 4/2/1 | ATX | No | 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 |
| ASUSTEK | | | | | | | | | | |
| P5A-B Aladdin 5 100MHz | 3D | 3/2/1 | AT | Yes | No | No | No | No | 61 | 71.67 |
| P5A Aladdin 5 100MHz | 3D | 3/2/1 | ATX | Yes | No | No | Yes | Yes | 68 | 79.90 |
| P2L97 | Intel 440LX | 3D | 5/2/1 | ATX | No | No | No | Yes | 76 | 89.30 |
| 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 | 199 | 233.82 |
| 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 | 226 | 265.55 |
| CHAINTECH All Motherboards include PC-Cillin Anti-Virus Software | | | | | | | | | | |
| 5SIM | SIS | 2D | 4/3/0 | AT | No | No | No | No | 47 | 55.22 |
| 5TDM2 | Intel 430TX | 2D | 4/4/0 | AT | No | No | No | No | 60 | 70.50 |
| 5TTL | Intel 430TX | 3D | 4/3/0 | AT | No | No | No | No | 60 | 70.50 |
| 6ESA | Intel 440EX | 2D | 2/2/1 | MicroATX | Yes | No | No | No | Call | Call |
| 6LTM2 | Intel 440 LX | 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 | 85 | 99.87 |
| ELITE | | | | | | | | | | |
| P5SD-B+ Supersocket 7 112MHz | 4S, 2D | 4/2/1 | AT | No | No | No | No | No | 60 | 70.50 |
| P5SD-A+ | SIS | 4D | 3/3/1 | ATX | No | No | No | No | 63 | 74.02 |
| P6LX-A | Intel 440LX | 4D | 4/3/1 | ATX | No | No | No | No | 82 | 96.35 |
| P6LX-A+ | Intel 440LX | 3D | 4/3/1 | ATX | No | No | No | Yes | 76 | 89.30 |
| P6LX-A SCSI | Intel 440LX | 4D | 4/3/1 | ATX | No | No | No | Yes | 176 | 206.80 |

MOTHERBOARDS

| 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 |
|-------------------------------|---------|-------------------|-------------------|-------------|------------|----------|-----------|---------------------------|---------|---------|
| P6LX2-A SCSI Dual Intel 440LX | 4D | 5/2/1 + raid | ATX | No | No | No | No | Yes | 235 | 276.12 |
| P6BX-A+ VIA BX PRO | 3D | 5/2/1 | ATX | No | No | No | No | No | 95 | 111.62 |
| GIGABYTE | | | | | | | | | | |
| GA5AX 100MHz ALI M1541 | 3D | 4/3/1 | ATX | No | No | No | No | No | 57 | 66.97 |
| GAGEX Intel 440EX | 3D | 4/3/1 | ATX | No | No | No | No | Yes | 75 | 88.12 |
| GAGEM Intel 440EX | 2D | 2/2/1 | MicroATX | No | No | No | No | No | 71 | 83.42 |
| GAGEMM Intel 440EX | 2D | 2/2/1 | MicroATX | Yes | Yes | No | No | No | 109 | 128.07 |
| GAG68LX4 Intel 440LX | 4D | 4/2/1 | ATX | No | No | No | No | Yes | 72 | 84.60 |
| GAG68BX Intel 440BX | 4D | 4/3/1 | ATX | No | No | No | No | Yes | 94 | 110.45 |
| GAG6A Intel 440BX | 4D | 4/2/1 | AT | No | No | No | No | Yes | 104 | 122.20 |
| GAG6XS Intel 440BX | 4D | 4/3/1 | ATX | No | No | No | Yes | Yes | 171 | 200.92 |
| GAG6XDS Dual Intel 440BX | 4D | 4/3/1 | ATX | Yes | No | Yes | Yes | Yes | 206 | 242.05 |
| INTEL | | | | | | | | | | |
| SE440BX-2NA Intel 440BX | 3D | 4/2/1 | ATX | No | No | No | No | Yes | 93 | 109.27 |
| SE440BX-2 Intel 440BX | 3D | 4/2/1 | ATX | Yes | No | No | No | Yes | 105 | 123.37 |
| MU440EX-2X Intel 440EX | 2D | 2/2/0 | ATX | Yes | Yes | No | Yes | Yes | 89 | 104.57 |
| MICROSTAR | | | | | | | | | | |
| MS-5169 100MHz Ali M1531 | 3D | 4/3/1 | ATX | No | No | No | No | No | 56 | 65.80 |
| QDI | | | | | | | | | | |
| Excellent I Intel 440EX | 2D | 3/3/1 | ATX | No | No | No | No | No | 62 | 72.85 |
| Legend V Intel 440LX | 3D | 4/3/1 | ATX | No | No | No | No | No | 68 | 79.90 |
| Brilliant I Intel 440BX | 3D | 4/3/1 | ATX | No | No | No | No | No | 91 | 106.92 |
| Brilliant IV Dual Intel 440BX | 4D | 4/2/1 | ATX | No | No | Yes | No | No | 312 | 366.60 |
| SMICRO | | | | | | | | | | |
| P5MMA98 Intel 430TX | 2D | 4/4/0 | AT | No | No | No | No | Yes | 68 | 79.90 |
| P5MMS98 Intel 430TX | 2D | 4/4/0 | AT | No | No | No | No | Yes | 68 | 79.90 |
| P6SLA Intel 440LX | 3D | 4/3/1 | ATX | No | No | No | No | Yes | 71 | 83.42 |
| P6SBA Intel 440BX | 3D | 4/3/1 | ATX | No | No | No | No | Yes | 75 | 88.12 |
| P6SBU Intel 440BX | 3D | 4/3/1 | ATX | No | No | Yes | Yes | Yes | 200 | 235.00 |
| P6DBE Dual Intel 440BX | 4D | 4/3/1 | ATX | No | No | No | No | Yes | 159 | 186.82 |
| P6DBS Dual Intel 440BX | 4D | 4/3/1 | ATX | No | No | No | Yes | Yes | 293 | 344.27 |
| P6GUDual Intel 440GX Slot I | 4D | 5/2/1 | ATX | No | No | Yes | Yes | Yes | 474 | 556.95 |
| S2DGRDual Intel 440GX Slot II | 4D | 4/2/1 | ATX | No | No | Yes | Yes | Yes | 598 | 702.65 |

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

| INTEL | Bus Speed | ex VAT | inc VAT |
|---|-----------|--------|---------|
| Celeron™ 300A (128k cache) Slot 1 | 66MHz | 44 | 51.70 |
| Celeron™ 333 (128k cache) Slot 1 | 66MHz | 57 | 66.97 |
| Celeron™ 366 (128k cache) Slot 1 | 66MHz | 92 | 108.10 |
| Celeron™ 400 (128k cache) Slot 1 | 66MHz | 115 | 135.12 |
| Celeron™ 300A (128k cache) Slot 370 | 66MHz | 44 | 51.70 |
| Celeron™ 333 (128k cache) Slot 370 | 66MHz | 57 | 66.97 |
| Celeron™ 366 (128k cache) Slot 370 | 66MHz | 84 | 98.70 |
| Celeron™ 400 (128k cache) Slot 370 | 66MHz | 108 | 126.90 |
| Pentium® III 350MHz (512k cache) | 100MHz | 144 | 169.20 |
| Pentium® III 350MHz SECC 2 (512k cache) | 100MHz | 143 | 168.02 |
| Pentium® III 400MHz (512k cache) | 100MHz | 240 | 282.00 |
| Pentium® III 450MHz (512k cache) | 100MHz | 378 | 444.15 |
| Pentium® III Xeon 400MHz (512Kb) 2 Way | 100MHz | 625 | 734.37 |
| Pentium® III Xeon 400MHz (512Kb) 2/4 Way | 100MHz | 625 | 734.37 |
| Pentium® III Xeon 400MHz (1024Kb) 2 Way | 100MHz | 1500 | 1762.50 |
| Pentium® III Xeon 400MHz (1024Kb) 2/4 Way | 100MHz | 1500 | 1762.50 |
| Pentium® III Xeon 450MHz (512Kb) 2 Way | 100MHz | 625 | 734.37 |
| Pentium® III Xeon 450MHz (512Kb) 2/4 Way | 100MHz | 625 | 734.37 |
| Pentium® III Xeon 450MHz (1024Kb) 2/4 Way | 100MHz | 1500 | 1762.50 |
| Pentium® III Xeon 450MHz (2056Kb) 2/4 Way | 100MHz | 2800 | 3290.00 |

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| AMD BOXED | Bus Speed | ex VAT | inc VAT |
|----------------------------|-----------|--------|---------|
| K6-2® With 3D Now!™ 350MHz | 100MHz | 75 | 88.12 |
| K6-2® With 3D Now!™ 380MHz | 95MHz | Call | Call |
| K6-2® With 3D Now!™ 400MHz | 100MHz | Call | Call |

PROCESSORS

| AMD OEM | Bus Speed | ex VAT | inc VAT |
|--------------------------------|-----------|--------|---------|
| K6-2® With 3D Now!™ 300MHz | 66MHz | 52 | 61.10 |
| K6-2® With 3D Now!™ 300MHz | 100MHz | 52 | 61.10 |
| K6-2® With 3D Now!™ 333MHz | 66MHz | 58 | 68.15 |
| K6-2® With 3D Now!™ 333MHz | 95MHz | 58 | 68.15 |
| K6-2® With 3D Now!™ 350MHz | 100MHz | 66 | 77.55 |
| K6-2® With 3D Now!™ 366MHz | 66MHz | 82 | 96.35 |
| K6-2® With 3D Now!™ 380MHz* | 95MHz | 90 | 105.75 |
| K6-2® With 3D Now!™ 400MHz | 100MHz | 108 | 126.90 |
| CYRIX | | | |
| MII 300™* | 66MHz | 41 | 48.17 |
| MII 333™* | 83MHz | 56 | 65.80 |
| EVERGREEN | | | |
| 242 Single | - | 69 | 81.07 |
| 242 Five Pack | - | 320 | 376.00 |
| MXPRO 200 Single | - | 89 | 104.57 |
| MXPRO 200 Five Pack | - | 380 | 446.50 |
| MXPRO 240 Single | - | 109 | 128.07 |
| MXPRO 333 Single | - | 169 | 198.57 |
| IDT OEM | | | |
| Whinchip 200MHz* MMX | 66MHz | 25 | 29.37 |
| Whinchip 225MHz* MMX | 75MHz | 29 | 34.07 |
| Whinchip 240MHz* MMX | 60MHz | 32 | 37.60 |
| Whinchip 2 With 3D Now! 200MHz | 66MHz | 29 | 34.07 |
| Whinchip 2 With 3D Now! 225MHz | 75MHz | 33 | 38.77 |
| Whinchip 2 With 3D Now! 240MHz | 60MHz | 36 | 42.30 |

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- Supports SDRAM up to 384MB
- Two USB ports on board
- Supports 60/66/100 MHz system clock speeds
- Supports SB-Link header for Creative PCI audio

CT-6BTM **£85** (£99.87)

- Intel 440BX Chipset
- 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 60/66/100/120/133/133/133/133MHz system clock speeds for CPU over-clocking possibility
- Supports SB-Link header for Creative PCI audio

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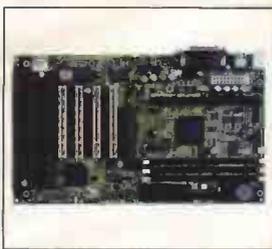
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P6 SBU Pentium II 440BX with
Adaptec Ultra 2 SCSI £200 (£235.00 inc VAT)

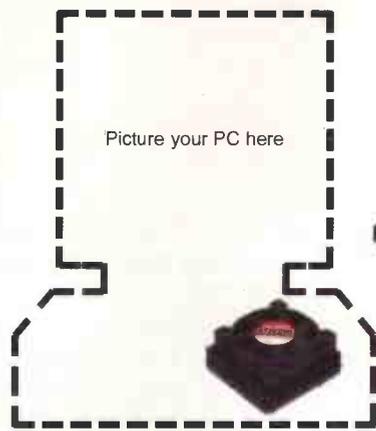
P6 DBE Pentium II 440BX £159
 (£186.82 inc VAT)
P6 DBS Pentium II 440BX with
Adaptec Dual Channel UWSCSI £293 (£344.27 inc VAT)

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- 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

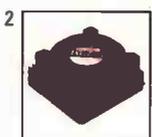
- Intel 440BX Chipset
- Dual Pentium II 233-400MHz (66/100MHz CPU & DRAM Buses), (works with one or two CPUs)
- 4 DIMM Sockets
- 5 PCI/2 ISA/1 AGP slots
- 2Mb flash BIOS, Plug and Play, APM 1.2, DMI 2.01
- 2 Ultra DMA Bus Master with 33Mb/s burst data transfer rate, supports PI Mode 4, DMA Mode 2 and 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

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- Video inputs to connect to a DVD player, camcorder or VCR
- Access Teletext on your PC with enhanced FASTEXT facilities
- Capture & store clips from your home videos or TV on your PC
- Digital camera ready for local PC video capture, video conferencing and video e-mail



Pace 3D Edge

- High speed 3D/2D graphics card
- Based on the new 3Dfx Voodoo Banshee™ chip
- 3D gaming & high-end 2D performance on one card
- Enhanced AGP connection
- Incorporates 16MB of SGRAM memory (rather than slower SDRAM)
- Connect your TV for big screen gaming
- DVD movie playback
- FREE games software - Wargasm - the brand new title from DID
- SPECIAL OFFER: 3 LEADING GAMES FOR ONLY £13.95 inc VAT

3D Edge £79 (£92.82 inc VAT)



Pace products are supplied with a full 5 year guarantee and unlimited help desk support

AVerMedia®

Bridging PC/MAC & Video

Affordable products from AVerMedia

AVerMedia TVPhone98

only £74 (£86.95 inc VAT)

- 181 Channels cable-ready TV and Stereo FM tuner
- Remote control unit and teletext function included.
- NiCam Stereo Sound.
- Microphone included for video phone application.
- 16 Channels preview and user friendly control panel
- EasyAxxess videoconference & EasyXpress video mail s/w inc.



AVerMedia JoyTV

only £79 (£92.82 inc VAT)

- Plug-N-play external TV tuner Box
- Watch TV on your computer monitor without turning on the PC.
- Remote control unit and teletext function included
- Play video game on your PC.
- Composite video & S-video input & Composite video output





- ✓ Serving you since 1987
- ✓ Over £50m annual turnover
- ✓ Over 200,000 satisfied customers
- ✓ Highly trained specialist staff
- ✓ Repair & upgrade services

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DIAMOND MULTIMEDIA

Viper V550

NEW

- 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 **£92** (£108.10) 16 Mb PCI TV-OUT **£92** (£108.10)

Rio PMP300

NEW

- Palm size for easy portability.
- Supports MP3, the most popular music format on the internet.
- 32Mb internal memory store up to 60 minutes of music.
- Upgradeable with SmartMedia Flash memory cards (16/32Mb).
- Skip and flutter resistant - no moving parts.

RIO PMP300 **£139** (£163.32)

Monster Sound MX300

- Powered by Aureal's Vortex-2 Audio Accelerator.
- Mantrous positional 3D Audio - A3D 2.0 & DirectSound 3D.
- Studio-Quality 320-Voice DLS Waveable Synthesiser.
- Up to 4 speakers for phenomenal Gaming Experience.
- Includes DVD with complete Dolby Digital (AC-3) support.
- Features MP-3 Tools for revolutionary Digital Internet Audio.

MX300 **£45** (£52.87)

Stealth II G460 8 Mb **£42** (£49.35) Monster 3D II 12Mb **£85** (£99.87)

Sonic Impact S90 **£25** (£29.37)

Prices shown in brackets are inclusive of VAT. Retail boxes shown for illustrative purposes only.

NEW SonicStorm PRO

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
- PC98 compliant
- Includes JetAudio (complete PC audio control centre) plus Yamaha SoftSynth for high quality Midi

£35
(£41.12 inc VAT)

NEW DVD Player

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

£85
(£98.87 inc VAT)

NEW SIROCCO

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)
- Three way fully active design (tweeter, mid-range and sub)
- Two satellite speakers, with bass/midrange & separate tweeter, a sub-woofer & active filter/power amps
- Complete reproduction of audio frequency range & ultra low distortion
- For use with PC, game consoles, CD, MiniDisc, TVs or DVD Players

£169
(£198.57 inc VAT)

AWARD-WINNING 3D SOUND AND VISION

VideoLogic

| ATI | Memory/Type | Chipset | RAMDAC | Ex VAT | | Inc VAT | |
|---------------------------|-------------|---------------------|---------|--------|--------|---------|--------|
| | | | | PCI | AGP | PCI | AGP |
| 3Dxpert@Work DEM | 4mb SGRAM | Rage Pro | 230Mhz | 39 | 45.82 | 39 | 45.82 |
| 3Dxpert@Work OEM | 8mb SGRAM | Rage Pro | 230Mhz | 49 | 57.57 | 49 | 57.57 |
| 3Dxpert@Play OEM | 4mb SGRAM | Rage Pro | 230Mhz | 49 | 57.57 | 49 | 57.57 |
| 3Dxpert@Play OEM | 8mb SGRAM | Rage Pro | 230Mhz | 59 | 69.32 | 59 | 69.32 |
| All In Wonder Pro OEM | 8mb SGRAM | Rage Pro | 230Mhz | 89 | 104.57 | 89 | 104.57 |
| XPert98 AGP OEM | 8MBSDRAM | Rage Pro | 250mMhz | - | - | 39 | 45.82 |
| 3Dxpert@Work | 4mb SGRAM | Rage Pro | 230Mhz | 54 | 63.45 | 65 | 76.37 |
| 3Dxpert@Work | 8mb SGRAM | Rage Pro | 230Mhz | 72 | 84.60 | 72 | 84.60 |
| All In Wonder Pro | 8mb SGRAM | Rage Pro | 230Mhz | 109 | 128.07 | 109 | 128.07 |
| CREATIVE LABS | | | | | | | |
| Graphics Blaster Extreme | SGRAM | 3D Labs Peramedia 2 | 230Mhz | 59 | 69.32 | - | - |
| 3D Blaster Voodoo II | 12MB EDO | 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 |
| DIAMOND | | | | | | | |
| Stealth G460 OEM | 8MB SDRAM | Intel 740 | 203Mhz | 42 | 49.35 | - | - |
| Viper V550 TV Out | 16MB | Riva TNT | 250Mhz | 92 | 108.10 | 92 | 108.10 |
| Monster 3D II | 12MB EDO | 3DFX Voodoo 2 | 250Mhz | 85 | 99.87 | - | - |
| Monster Fusion | 16MB SDRAM | 3DFX Banshee | 250Mhz | - | - | 78 | 91.65 |
| Speedstar A70 TV Out | 8MB SDRAM | SIS | 200Mhz | - | - | 33 | 38.77 |
| GUILÉMOT | | | | | | | |
| Maxigramer Phoenix | 16MB | Voodoo Banshee | - | 79 | 98.82 | 79 | 98.82 |
| LEAF | | | | | | | |
| 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 | 81.07 | - | - |
| MATROX | | | | | | | |
| Productiva G100 | 8MB SDRAM | G100 | 230Mhz | - | - | 48 | 56.40 |
| Productiva G100 OEM | 8MB SDRAM | G100 | 230Mhz | - | - | 40 | 47.00 |
| Millennium G200 | 8MB SGRAM | G200 | 250Mhz | 65 | 76.37 | 79 | 92.82 |
| Millennium G200 OEM | 8MB SGRAM | G200 | 250Mhz | - | - | 66 | 77.55 |
| Mystique G200 OEM | 8MB | G200 | 230Mhz | - | - | 73 | 85.77 |
| Mystique G200 | 8MB | G200 | 230Mhz | - | - | 69 | 81.07 |
| Marvel G200 | 8MB | G200 | 230Mhz | 130 | 152.75 | 135 | 158.62 |
| PACE | | | | | | | |
| Pace 3D Eyde | 16MB | Voodoo Banshee | - | 79 | 98.82 | - | - |
| STB | | | | | | | |
| Velocity 128 | 4MB SGRAM | Nvidia Riva 128 | 230Mhz | 85 | 99.87 | - | - |
| Blackmagic Voodoo 2 | 12MB EDO | 3DFX Voodoo 2 | 135Mhz | 169 | 198.57 | - | - |
| TECHWORKS | | | | | | | |
| Power 3DII | 12MB SGRAM | 3DFX Voodoo 2 | - | 79 | 92.82 | - | - |

| VIDEOLOGIC | Memory/Type | Chipset | RAMDAC | Ex VAT | | Inc VAT | |
|---------------------------|-------------|---------------------------|--------|--------|-------|---------|-----|
| | | | | PCI | AGP | PCI | AGP |
| Grafixstar 410 | 2MB EDO | 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 | - | - |
| Apocalypse 3Dx Value Pack | 4MB SDRAM | NEC Power VR2 | - | 34 | 39.95 | - | - |
| Apocalypse 3Dx | 4MB SDRAM | NEC Power VR2 | - | 50 | 58.75 | - | - |
| Apocalypse 5D | 6MB | ET6100 + Power VR2 | - | 54 | 63.45 | - | - |
| Apocalypse 5D | 8MB | ET6100 + Power VR2 | - | 77 | 90.47 | - | - |
| Apocalypse 5D Sonic | 6MB | ET6100 + Power VR2 +Sound | - | 57 | 66.97 | - | - |
| Apocalypse 5D Sonic | 8MB | ET6100 + Power VR2 +Sound | - | 81 | 95.17 | - | - |

| ATI | Memory/Type | Chipset | RAMDAC | Ex VAT | | Inc VAT | |
|----------------------------------|-------------|---------|--------|--------|-----|---------|-----|
| | | | | PCI | AGP | PCI | AGP |
| ATI TV Tuner | - | - | - | 49 | - | 57 | 57 |
| DABS | | | | | | | |
| TV/Tuner Teletext PCI | - | - | - | 49 | - | 57 | 57 |
| HAUPPAGE | | | | | | | |
| Win TV Primio PCI | - | - | - | 50 | - | 58.75 | - |
| Win TV PCI Nicam | - | - | - | 67 | - | 78.72 | - |
| Win TV Radio PCI Nicam | - | - | - | 84 | - | 98.70 | - |
| Win TV Cinema Pro | - | - | - | 199 | - | 233.82 | - |
| Video Wizard | - | - | - | 115 | - | 135.12 | - |
| MIRO | | | | | | | |
| 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 | - |
| MODULAR TECHNOLOGY | | | | | | | |
| TV Tuner Teletext PCI | - | - | - | 49 | - | 57.57 | - |
| Super PCTV With Video Camera | - | - | - | 89 | - | 104.57 | - |
| PACE | | | | | | | |
| TV Card | - | - | - | 62 | - | 72.85 | - |
| TV and Radio Card | - | - | - | 69 | - | 81.07 | - |
| SIGMA | | | | | | | |
| Hollywood Plus | - | - | - | 110 | - | 129.25 | - |
| VIDEOLOGIC | | | | | | | |
| Captivator PCI | - | - | - | 48 | - | 56.40 | - |
| Captivator PCI/VC | - | - | - | 145 | - | 170.37 | - |
| Captivator PCI/VC camera u/grade | - | - | - | 100 | - | 117.50 | - |
| DVD Player | - | - | - | 79 | - | 92.82 | - |

Video Cards - Multimedia Cards

General Sales Hotline OPEN 8am - 8pm Mon to Thu . 8am - 5pm Fri . 9am - 3pm Sat . 10am - 3pm Sun

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All 0870 calls charged at national rate

HITACHI

All Hitachi Monitors have a 3 year on site replacement warranty, and are TCO'95 compliant



CM640ET £199 (€233.82)

- Hitachi's 17" monitor*
- Flicker free at up to 1102 x 870 @ 75Hz
 - 0.21mm horizontal mask pitch



CM641ET £329 (€386.57)

- Hitachi's 17" monitor*
- Flicker free at up to 1600 x 1200 @75Hz
 - 0.21mm horizontal mask pitch



CM751ET £459 (€539.32)

- 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)

CM752ET £499 (€586.32)

- Flicker free at up to 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 (€1013.82)

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)

DT3141ET £999 (€1173.82)

- 41" Super TFT*
- Ultra wide viewing angle of 160° horizontal & vertical
 - Ultra low power consumption
 - 16.19 million colours
 - Resolution up to 1024 x 768



All prices in brackets are inclusive of VAT

Masters of Monitor Technology

HITACHI

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)



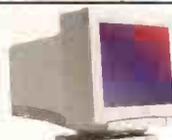
445Xi Plus
• 21" High Contrast 0.28mm FST
• Up to 1600 x 1200 @ 88Hz
• On-Screen Menu with Navi™ key
£679 (€797.82 inc VAT)



Monitors

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.



MicroScan 5G
• 17" FST, 0.26mm
• 1600 x 1200 @ 75Hz
• TCO'95 approval
£255 (€299.62)

MicroScan 5GT
• 17" Sony Trinitron CRT, 0.25mm
• 1600 x 1200 @ 75Hz
• TCO'95 approval
£279 (€327.82)

MicroScan 6G
• 21" FST, 0.28mm
• 1600 x 1200 @ 75Hz
• TCO'95 approval
£549 (€645.07)

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.



MicroScan 4P
• 15" FST, 0.28mm
• 1280 x 1024 @ 60Hz
• Integral Mic., Speaker option
£119 (€139.82)

MicroScan 5P+
• 17" FST, 0.26mm
• 1280 x 1024 @ 60Hz
• Integral Mic., Speaker option
• MPR II approval
£189 (€222.07)

MicroScan 6P
• 19" FST, 0.26mm
• 1600 x 1200 @ 75Hz
• TCO'95 approval
• Integral Mic. and USB Hub, Speaker option
£369 (€433.57)

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.



ProVista E33
• 14" conv. 0.28mm
• 1024 x 768 @ 60Hz
• Digital Image Controls
£95 (€111.62)

ProVista E44
• 15" FST, 0.28mm
• 1280 X 1024 @ 60Hz
• Digital Image Controls
£105 (€123.37)

Prices in brackets are inclusive of VAT





- ✓ 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

Belnea



- Belnea 10 40 10**
- 14" 0.28mm
 - up to 1024 x 768 NI
 - 640 x 480 @ 85Hz
 - Digital Front Panel
 - MPRII Compliant

£85 (€99.87)



- Belnea 10 50 35**
- 15" FST 0.28mm
 - up to 1280 x 1024 NI
 - 800 x 600 @ 85Hz
 - Digital Electronics
 - MPRII Compliant

£99 (€116.32)



- Belnea 10 70 20**
- 17" FST 0.28mm
 - up to 1280 x 1024 NI
 - 1024 x 768 @ 85Hz
 - On-Screen Display
 - TCO 95

£159 (€186.82)



- Belnea 10 70 50**
- 17" FST 0.25mm
 - DiamondTron CRT
 - up to 1600 x 1200 NI
 - 1024 x 768 @ 100Hz
 - On-Screen Display
 - TCO 95

£259 (€304.32)



- Belnea 10 60 20**
- 19" FST 0.26mm
 - up to 1600 x 1200 NI
 - 1280 x 1024 @ 88Hz
 - Professional On-Screen Display
 - TCO 95

£329 (€386.57)



- Belnea 10 80 50**
- 21" FST 0.26mm
 - up to 1600 x 1200 NI
 - 1600 x 1200 @ 75Hz
 - On-Screen Display
 - TCO 95

£539 (€633.32)

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

CTX



1555E/VL510

£99

- CRT Size/Viewable **15"/13.8"** (€116.32 inc VAT)
 Dot Pitch (mm) **0.28mm**
 CRT Type **FST**
 Max. Resolution **1024 x 768 @ 70Hz**
 Rec. Resolution **800 x 600 @ 90Hz**
 Special Features **CE, MPRII**

CTX



1769SE/VL700

£169

- CRT Size/Viewable **17"/15.7"** (€198.57 inc VAT)
 Dot Pitch (mm) **0.28mm**
 CRT Type **FST**
 Max. Resolution **1280 x 1024 @ 65Hz**
 Rec. Resolution **1024 x 768 @ 90Hz**
 Special Features **CE, MPRII**

CTX



1792UA/PR710T

£309

- CRT Size/Viewable **17"/16"** (€363.07 inc VAT)
 Dot Pitch (mm) **0.25mm**
 CRT Type **Trinitron***
 Max. Resolution **1600 x 1200 @ 75Hz**
 Rec. Resolution **1280 x 1024 @ 85Hz**
 Special Features **MPRII, CE, TCO 95**

CTX



1995UE/ML950T

£345

- CRT Size/Viewable **19"/18"** (€405.37 inc VAT)
 Dot Pitch (mm) **0.26mm**
 CRT Type **High Contrast FST**
 Max. Resolution **1600 x 1200 @ 75Hz**
 Rec. Resolution **1280 x 1024 @ 90Hz**
 Special Features **MPRII, CE, TCO 95**

CTX Executive Exchange Service



A 3 year on site warranty for all CTX CRT monitors.

Monitors • Notebooks • LCD Displays • Systems

Unwrap the New Philips Supermodel for just **£549.00**

EXCLUDING VAT (€645.07 INCL.)

The New Philips Brilliance 151AX

The Supermodel with the tiny footprint At **£549.00** EXCLUDING VAT (€645.07 INCL.)

For more details check the Philips web site at www.monitors.philips.com
 Or call **0800 558866** and place your order now



"remarkable even before you take it out of the box"
 PC Magazine Sept '98

"sharp and clear display with strong colour and well defined images"
 PC Magazine Sept '98



- Ultrathin design with minimal footprint
- 'Best in Class' brightness characteristics
- High contrast colour display – flicker & reflection free
- Built in speakers for full Multimedia capability
- Full tilt & swivel with detachable stand
- Optional protective cover available
- TCO 95
- 3 Year Warranty (1st year on site replacement)

BRILLIANCE
 HIGH RESOLUTION MONITORS

Plug and Play



PHILIPS

Let's make things better

Monitors

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- ✓ Over £50m annual turnover
- ✓ Over 200,000 satisfied customers
- ✓ Highly trained specialist staff
- ✓ Repair & upgrade services

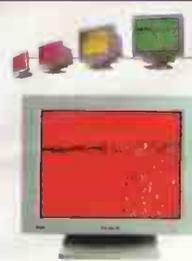
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a visible difference



NEW TXA3611HT only **£575** (£675.62)

36cm (14.1") TFT Colour LCD Monitor

- High Brightness, High Contrast Flat Panel Liquid Crystal Display
- 1024 x 768 @ 75Hz display resolution
- No geometric display distortion, misfocus or misconvergence
- Space saving, lightweight design
- No radiation, unaffected by external magnetic fields



S702GT **£229** (£269.07)

- Award winning 17" 0.28mm FST
- Up to 1600x1200 NI@75Hz
- All CE ergonomic safety and environmental approvals



VM-Pro400 **£299** (£351.32)

- 17" 0.25mm DiamondTron
- Up to 1600x1200 NI@75Hz
- On-Screen Display Menu
- All CE Ergonomic, safety and environmental approvals



VM-502 **£669** (£786.07)

- 21" 0.27mm Enhanced dp FST
- 1800x1440 @ 75Hz
- On-Screen Display Menu
- All CE Ergonomic, safety and environmental approvals



VM-350 **£119** (£139.82)

- 15" 0.28mm FST
- Up to 1024x768@85Hz
- Digital Control and On-Screen Display Menu
- Microfilter™ Technology



VM-Pro502 **£669** (£786.07)

- 21" 0.28mm AG DiamondTron
- 1800x1440 @ 75Hz
- On-Screen Display Menu
- All CE Ergonomic, safety and environmental approvals



VM-Pro450 **£435** (£511.12)

- 19" 0.25mm DiamondTron NF
- Up to 1800 x 1440 @75Hz
- 27-115Khz horizontal frequency
- All CE Ergonomic, safety and environmental approvals
- Plug & play compatible

All iiyama monitors are with a 3yr warranty. 1st yr On-Site, 2nd, 3rd RTB or upgrade to our VisionCare warranty, 3 yr On-Site

Prices shown in brackets are inclusive of VAT



Display Products

WHY MITSUBISHI?

Mitsubishi offers a 3 year warranty (1st year on-site, 2nd & 3rd year return-to-base)

Buy a Mitsubishi DIAMONDTRON monitor for guaranteed 100% pure DIAMONDTRON

The DIAMONDTRON CRT takes Aperture Grille technology to new levels of excellence delivering more accurate, sharper images.



The **Diamond Plus 71** 17" monitor has higher refresh rates with horizontal scanning frequencies of up to 70kHz (1024 x 768 @ 75Hz) and new DIAMONDTRON™ tube with upgraded focus and convergence performance for sharp, clean images with minimal eye-strain.

£265 (£311.37 inc VAT)



The **Diamond Scan 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.

£365 (£428.87 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

£385 (£452.37 inc VAT)



NEW The **Diamond Pro 900u** 19" DIAMONDTRON NF CRT gives you accurate, pixel-perfect image reproduction with none of the distortion inherent in typical flat CRT screens. When compared to conventional shadow-mask and aperture grille tubes, DIAMONDTRON™ NF brings you the following three dramatic improvements: distortion-free image*, glare reduction and wider viewing angle.

£435 (£511.12 inc VAT)

**Distortion caused by screen shape*

Turn on your imagination

Monitors



ProNiton

ProNiton Multisync 17/500

17" Trinitron monitor ideal for the professional user who wants quality at a competitive price.

- Low Emission TC092
- 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

£239
(£280.82)

ProNiton Multisync 19/500

New 19" Sony Trinitron monitor ideal for multimedia and high-end graphics.

- TC095 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

£435
(£511.12)

ProNiton Multisync 21/700

New 21" Sony Trinitron monitor for the serious professional user.

- TC095 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

£665
(£781.37)

Prices in brackets are inclusive of VAT

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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.0*

In the unlikely event of a manufacturing or material defect you will receive a similar product in exchange.



FREE 3 YEAR 24-HOUR EXPRESS EXCHANGE™ WARRANTY.



PT813 5/96



GT175 1/96



GT775 12/97

Widest range of products in Europe from any single manufacturer

| | | Viewable Area | Dot Pitch | Maximum Resolution | Price | inc VAT |
|--------|---------------|---------------|-----------|--------------------|-------|---------|
| E641 | CRT | 14"/13.2" | 0.28 | 1024 x 768 @ 67Hz | £85 | £99.87 |
| E655 | CRT | 15"/13.8" | 0.28 | 1280 x 1024 @ 66Hz | £110 | £129.25 |
| E771 | CRT/TCO 95 | 17"/16" | 0.27 | 1280 x 1024 @ 66Hz | £195 | £229.12 |
| GA655 | CRT/TCO 95 | 15"/14" | 0.27 | 1280 x 1024 @ 66Hz | £155 | £182.12 |
| GS771* | CRT/TCO 95 | 17"/16" | 0.27 | 1280 x 1024 @ 66Hz | £220 | £258.50 |
| VPA145 | LCD Viewpanel | 14.5" | n/a | XGA @ 75Hz | £685 | £804.87 |

*short depth with SuperClear™ Screen

*** 3 Year "Express Exchange" warranty available on all new ViewSonic monitors, excluding presentation and LCD ranges. Limited to the UK mainland, the 24 hour service is available in most areas.**



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Imaging made clear with **UMAX** Scanners



Astra 1220U (USB) **FROM £99**
(£116.32)

- 36 bit colour scanning with B.E.T
- 600 x 1200 dpi
- Maximum resolution: 9600 x 9600 dpi
- Bundled software: PhotoDeluxe and PageManager

Astra 1220P **FROM £85**
(£99.87)

- 36 bit colour scanning with B.E.T
- 600 x 1200 dpi
- Maximum resolution: 9600 x 9600 dpi
- Bundled software: PhotoDeluxe and PageManager
- EPP/SPP Parallel Port

Astra 1220S (SCSI) **FROM £125**
(£146.87)

- 36 bit colour scanning with B.E.T
- 600 x 1200 dpi
- Maximum resolution: 9600 x 9600 dpi
- Bundled software: PhotoDeluxe and PageManager

Also available:
Powerlook II **FROM £699**
(£821.32)

WITH TRANSPARENCY ADAPTOR - while stocks last

GENUINE UK UNITS

All UMAX scanners supplied by Dabs Direct are genuine UK units and come with 1 yr RTB

Call for details of CoverPlus Extended Warranty

| Model | Standard | LE | Pro |
|---------------------------|----------------------------------|----------------------------------|----------------------------------|
| Astra 1220 USB | £99 <small>(£116.32)</small> | £139 <small>(£128.07)</small> | £229 <small>(£269.07)</small> |
| Astra 1220 SCSI | £125 <small>(£146.87)</small> | £165 <small>(£193.87)</small> | £255 <small>(£299.62)</small> |
| Astra 1220 Parallel | £85 <small>(£99.87)</small> | £125 <small>(£146.87)</small> | £215 <small>(£252.62)</small> |
| Powerlook ColourStudio II | - | - | £699 <small>(£821.32)</small> |

Pro = Transparency Adaptor, Photoshop LE available £30 LE = Photoshop LE



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



HP ScanJet



HP ScanJet 6200c
 Professional Series

£237
(£278.47 inc VAT)

HP ScanJet 4100c

£116
(£136.30 inc VAT)

HP ScanJet 6250c
 Professional Series

£277
(£325.47 inc VAT)

The smart friend who makes it easy to scan.

- Excellent image quality (600 dpi HSS)
- Quick results with colour copy and scan buttons
- Easy step up and fast operation (universal serial bus)

With 3 Years OSM Warranty **£182** (£213.85 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)
- Drag and drop scanned images into your application
- Networkable scanner (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 5200c

£156
(£183.30 inc VAT)

Quality results every time - internet ready.

- 600dpi optical (1200 dpi HSS)
- Unique e-mail and web task guides
- Flexible OCR (recognises other languages)
- Parallel / USB interface

With 3 Years OSM Warranty **£215** (£252.62 inc VAT)

EPSON GT-9600 Flatbed Colour Scanner

GT-9600

from **£411** (£482.92 inc VAT)

The most Advanced A4 flatbed scanner for professional & Business use.

- Optical Resolution 800x3200dpi with Micro Step Drive
- 36bit colour scanning and output
- Dynamic range of 3.3D
- EPSON Advanced Scanning Technology
- High speed scanning - a leader in it's class
- Professional Quality and Reliability
- Optional Auto Document Feeder & Transparency Unit
- 1 Year RTB with Optional 3Year extended Warranty



GT-7000

Flatbed Colour Scanner

- 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 & 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 **£147** (£172.72 inc VAT)

EPSON FilmScan 200

35mm Film Scanner **£190** (£223.25 inc VAT)



EPSON GT-9500 Flatbed colour image scanner
 from **£324** (£380.70 inc VAT)

EPSON PhotoPC 700 Megapixel Auto Focus Digital Camera

- 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
- Both Windows and Macintosh compatible as standard
- Extensive range of software inc • Up to 10 exposure continuous-shot mode
- Direct Printing to the Epson Stylus Photo range & Stylus COLOR 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



PhotoPC 700

only £303
(£356.02 inc VAT)



PhotoPC 600

only £249
(£292.57 inc VAT)

EPSON PhotoPC 600 XGA Colour digital camera (£292.57 inc VAT)

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| VuegoScan S310S SCSI | 65 | 76.37 |
| VuegoScan S310 USB | 59 | 69.32 |
| VuegoScan 610PT Parallel & Tranny Unit | 129 | 151.57 |
| VuegoScan 620P Parallel | 69 | 81.07 |
| VuegoScan 620S SCSI | 99 | 116.32 |
| VuegoScan 620ST SCSI inc Tranny Unit | 149 | 175.07 |
| Falcon C310P | 59 | 69.32 |
| Falcon C310U USB | 65 | 76.37 |
| VuegoScan 620U USB | 79 | 92.82 |
| VuegoScan 620UT USB inc Tranny Unit | Call | Call |
| AGFA | | |
| 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 |
| Accessories | | |
| SnapScan Automatic Document Feeder | 159 | 186.82 |
| CANON | | |
| Canoscan FB320 Parallel | 75 | 88.12 |
| Canoscan 300S | 155 | 182.12 |
| Canoscan FB610 Parallel | 189 | 222.07 |
| Canoscan FB620 Parallel | 139 | 163.32 |
| DR3020 Document Management SCSI | 3499 | 4111.32 |
| EPSON | | |
| GTx-5500 SCSI | 161 | 189.17 |
| GT-7000 SCSI | 147 | 172.72 |
| GT-7000 Photo SCSI | 197 | 231.47 |
| GTx-9500 Parallel/SCSI Bare | 324 | 380.70 |
| GTx-9500 Parallel | 368 | 432.40 |
| GTx-9500 SCSI | 324 | 380.70 |
| GT-9600 | 411 | 482.92 |
| GTx-9600 | 454 | 533.45 |
| FilmScan 200 SCSI | 190 | 223.25 |
| Accessories | | |
| GT Automatic Document Feeder | 309 | 363.07 |
| GT Transparency Unit | 359 | 421.82 |
| HEWLETT PACKARD | | |
| ScanJet 4100 Parallel | 116 | 136.30 |
| ScanJet 5100c USB/Parallel | 156 | 183.30 |

AGFA

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SnapScan 1212P



NEW

£99 (£116.32)

NEW SnapScan 1212P

- Enhanced Parallel port (PC only)
- 36 bit colour depth
- 600 x 1200 ppi 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

SnapScan 1212U



NEW

£115 (£135.12)

NEW SnapScan 1212U

- USB (PC)
- 36 bit colour depth
- 600 x 1200 ppi resolution (enhancement to 9600 x 9600 ppi)
- 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

SnapScan 1236s



NEW

£125 (£146.87)

NEW SnapScan 1236s

- SCSI interface scanner (PC and Mac)
- 36 bit colour depth
- 600 x 1200 ppi resolution (enhancement to 9600 x 9600 ppi)
- 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

Prices shown in brackets include VAT

SCANNERS

HEWLETT PACKARD continued

| | | |
|----------------------------|------|---------|
| 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 |

LOGITECH

| | ex VAT | inc VAT |
|--------------|--------|---------|
| PageScan USB | 99 | 116.32 |

MICROTEK

| | | |
|----------------------------------|------|---------|
| Phantom 336CX USB | 75 | 88.12 |
| ScanMaker 336 SCSI | 99 | 116.32 |
| Phantom 636 EPP | 115 | 135.12 |
| ScanMaker X6 SCSI | 139 | 163.32 |
| ScanMaker 4 SCSI | 525 | 616.87 |
| ScanMaker 6400XL A3 SCSI inc TMA | 799 | 938.82 |
| ScanMaker 5 SCSI | 1599 | 1878.82 |
| ScanMaker 9600XL A3 SCSI inc TMA | 1599 | 1878.82 |

MUSTEK

| | | |
|------------------------------|-----|--------|
| ScanExpress 6000P Parallel | 39 | 45.82 |
| ScanExpress 600 USB | 59 | 69.32 |
| ScanExpress 12000P Parallel | 69 | 81.07 |
| ScanExpress 6000SP Pro SCSI | 69 | 81.07 |
| ScanExpress 12000SP Pro SCSI | 99 | 116.32 |
| ScanExpress A3 | 129 | 151.75 |

NIKON

| | | |
|------------------------------------|------|---------|
| Super Coolscan SCSI | 995 | 1169.12 |
| Super Coolscan SCSI & Photoshop LE | 1114 | 1308.95 |

POLAROID

| | | |
|----------------------|------|---------|
| SprintScan 35LE SCSI | 419 | 492.32 |
| SprintScan Plus SCSI | 1199 | 1408.82 |

UMAX

| | | |
|------------------------------------|------|---------|
| Astra 1220P Parallel | 85 | 99.87 |
| Astra 1220S SCSI | 125 | 146.87 |
| Astra 1220U USB | 99 | 116.32 |
| Photoshop LE add | 40 | 47.00 |
| Powerlook ColourStudio II Pro SCSI | 749 | 880.07 |
| Powerlook III SCSI | 1995 | 2344.12 |
| Mirage II SE SCSI | 1495 | 1756.62 |
| Mirage II Pro SCSI | 5999 | 7048.82 |
| Accessories | | |
| Astra Transparency Unit | 149 | 175.07 |

VISIONEER

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|-------------------------|------|------|
| PaperPort 3100 | Call | Call |
| PaperPort 6000 | Call | Call |
| PaperPort OneTouch | Call | Call |
| PaperPort Strobe Colour | Call | Call |
| PaperPort 5300 | Call | Call |

All Microtek scanners come with **Microtek Total Care**...if within the 12 month warranty period, hardware fails, then you receive a new scanner.

MICROTEK

Phantom 336cxUSB/636EPP

The Phantom 336cx USB is an ultra streamlined and compact design, measuring only 416 mm x 264 mm x 43 mm, small enough to fit in a briefcase.

- Resolution: 336cxUSB: 300 x 600 dpi, Interpolated 9600 dpi
636EPP: 600 x 1200 dpi, Interpolated 9600 dpi
- Colour: 36 bit
- Interface: USB or Enhanced Parallel
- Software: Scan Wizard (PC), Caere OmniPage LE (OCR) (PC), iPhotoExpress, Microtek ScanSuite, Recognita OCR 636EPP only, PhotoAssistant 636EPP only

Phantom 336cxUSB **Hurry - Limited stock** £75 (£88.12 inc VAT)

Phantom 636EPP £99 (£116.32 inc VAT)

ScanMaker 336/X6

Place photos, drawings, logos or text pages into your computer applications

- Resolution: 336: 4800 dpi maximum resolution
X6: 9600 x 9600 dpi maximum resolution
- Colour: 36-bit
- Interface: SCSI
- Software: Scan Wizard (PC/Mac), Caere OmniPage LE (PC/Mac), Ulead PhotoImpact LE (PC), Kai's PhotoSoap (PC/Mac), DocuMagix PageMaster (PC), ImagePals2Go! (PC, Win 3.X), ColorIt! (Mac),

ScanMaker 336 £99 (£116.32 inc VAT)

ScanMaker X6 £139 (£163.32 inc VAT)

ScanMaker 6400XL/9600XL (A3 Scanners)

The ScanMaker 6400XL & 9600XL are ideal for a corporate production environment.

- Resolution: 6400XL: 400 x 800 dpi, Interpolated 6400 dpi
9600XL: 600 x 1200 dpi, Interpolated 9600 dpi
- Colour: 36 bit
- Scan Area: 304 mm x 430 mm (A3)
- Interface: SCSI
- Software: Scan Wizard (PC/Mac), Caere OmniPage LE (PC/Mac), Ulead PhotoImpact Full (PC), ImagePals2Go! (PC, Win 3.X), ColorIt! (Mac), Fractal Design Painter, Colour Management Software (PC/Mac) Silverfast

INCLUDES FREE Transparency Unit TMA
Offer valid until 31.03.99

ScanMaker 6400XL £799 (£938.82 inc VAT)

ScanMaker 9600XL £1599 (£1878.82 inc VAT)

ScanMaker 4 £499 (£586.32 inc VAT)

ScanMaker 4 is a 32-bit all-in-one dual media scanner. This design eliminates the need for a separate film adaptor.

ScanMaker 5 £1599 (£1878.82 inc VAT)

INCREDIBLE PICTURES. INCREDIBLY EASY!

Kodak **digital science™**

DC210 PLUS

JUST POINT AND SHOOT!

The most advanced, most affordable and easiest-to-use digital camera in its class

- 1152 x 864 Megapixel image quality
- 2 x zoom lens with close-up mode
- Award winning design and user interface
- Plug into your TV to view your pictures!
- LCD review and preview display for instant results



£339 (£398.32 inc VAT)

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A WORLD OF PICTURE-TAKING POWER IN THE PALM OF YOUR HAND

Intelligent cameras with a host of advanced features, yet still so simple to use - you won't believe it!

- Up to 1.6 million pixels resolution
- Combined optical and digital zooms
- Burst, time lapse and scripting capability
- Large 2" LCD preview and review display plus record and playback voice annotations
- Fully USB compatible



DC220 £419 (£492.32 inc VAT)

DC260 £669 (£786.07 inc VAT)

AND WHAT'S MORE...all cameras shown include:

- Reusable 8MB CompactFlash memory card for tons of storage
- Free AC adapter
- Superb software bundle - Adobe Photodeluxe, PageMill and Kodak Picture Easy 3.0 for easy image manipulation

DC260 ONLY - Now includes **FREE CompactFlash Card Reader** for quick and easy download of images to your PC

DVC323

USB DIGITAL VIDEO CAMERA

The fast, easy way to capture and share pictures and videos

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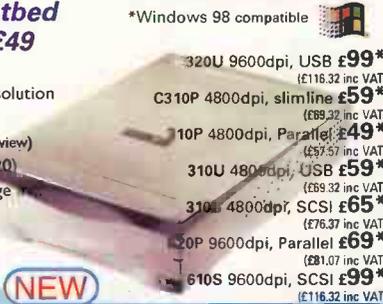
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Acer SCANNERS

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 (310/610), 36bit (320/620)
- Ulead iPhoto Plus & Xerox textbridge
- USB for Windows 98 (310/610)
- Parallel (310P/620P) or SCSI II (310S/610S) interface (SCSI card included)



CAN YOU SCAN SLIDES OR NEGATIVES?

610PT 9600dpi, Parallel £129 (£151.57 inc VAT)

NEW

620ST 9600dpi, SCSI

with built in transparency adaptor.

£159 (£186.82 inc VAT)

visioneer Scanners

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

PAPERPORT Touch 5300

£79 (£92.82)

Scan, Copy, Fax or Email* - with one touch of a button!



- 300 x 600 dpi optical resolution; 2400 dpi enhanced
- 36-bit photorealistic colour
- 5 'One Touch' buttons
- Supports Windows 95/98 and NT4.0

Prices shown in brackets are inclusive of VAT

* printer & modem required to print, fax & email

Mustek

All Mustek products are fully TWAIN compliant
All Mustek scanners are single pass
All Mustek scanners include image editing and OCR software

Flatbed A4 Colour Scanners

ScanExpress 600 USB £59 (£69.32 inc VAT)

- Resolution: 300x600 dpi (9600 x 9600 Interpolated)
- 30bit Colour Depth (1.1 billion colours)

ScanExpress 600CP (Parallel) £39 (£45.82 inc VAT)

- Resolution: 300x600 dpi (9600 Interpolated)
- 30bit Colour Depth (1.1 billion colours)

ScanExpress 12000P (Parallel) £69 (£81.07 inc VAT)

- Resolution: 600x1200 dpi (9600 Interpolated)
- 36bit Colour Depth (68.7 billion colours)

ScanExpress 6000SP Pro £69 (£81.07 inc VAT)

- Resolution: 300x600 dpi (4800 Interpolated)
- 30bit Colour Depth (1.1 billion colours)
- Includes a SCSI interface

ScanExpress 12000SP Pro £99 (£116.32 inc VAT)

- Resolution: 600x1200 dpi (9600 Interpolated)
- 36bit Colour Depth (68.7 billion colours)
- Includes a SCSI interface



VDC-300 Digital Camera

- Connects by USB or RS-232
- Up to 640x480 res (470k CCD)
- 2MB Memory (Up to 50 frames)
- 45mm TFT LCD preview/menu
- Flash & self timer
- View images on TV (PAL)
- Inc: editing software, batteries

£169 (£198.57 inc 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
- Its pivoting and rotating lens allows you to easily adjust, point and focus
- 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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All Agfa cameras are compatible with Mac and PC

AGFA

The complete picture.

ePhoto 1680 Digital Camera

£549 (£645.07)

- True 1.3 megapixel sensor for producing photo quality images
- 6x zoom (3x optical plus 2x digital)
- Picture resolution up to 1600 x 1200 (1.9 million) pixels in 1680 mode
- SSFDC SmartMedia 4MB memory card
- Four flash modes: F/2.8 (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)



ePhoto 780 Digital Camera

£275 (£323.12)

- 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

Ultracompact, High-Resolution Digital Camera

COOLPIX600

Nikon



Features

- 1024 x 768 resolution
- 800,000 (effective) - pixel CCD
- Auto exposure and autofocus
- Two macro positions
- Five image quality modes (Fine/Normal/Zoom/Multi/Wide)
- Selectable shutter speed up to 1/2,000 sec
- Manual exposure compensation
- 2-in. high-resolution LCD panel
- Digital 2x zoom
- Digital Camera Station
- Nikon View 600 image transfer software
- Adobe® PhotoDeluxe®

STANDARD BUNDLE - includes Coolpix 600 Digital Camera with 8MB compact flash card and Adobe PhotoDeluxe software. £375 (£440.62 inc VAT)

PREMIERE BUNDLE - includes Coolpix 600 Digital Camera with power supply, 8MB compact flash card and Adobe PhotoDeluxe software. £379 (£445.32 inc VAT)

from only **£375** (£440.62 inc VAT)

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Built in the UK by Europe's leading PCTV card manufacturer

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- Automatic channel tuning
- Picture size adjustable from icon to full screen
- Multi-page instant access Teletext, there's no waiting!
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In addition, **THE SUPER PCTV WITH VIDEO CAMERA** includes:-

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- Nicam Stereo sound
- Channel preview, displaying all channels at once
- Wide screen
- Video-phone (modem required)



£89 (£104.57 inc VAT)

Scanners - Digital Cameras



HP PhotoSmart C20 Digital Camera

...everything you need to take great digital photographs

- 4MB CompactFlash card stores photos at three resolutions: Normal: 40 photos, Fine: 20 photos, Superfine: 8 photos
- Auto flash with flash fill and red-eye reduction options.
- Auto focus, plus macro mode for quality closeups.
- Colour 1.8-inch LCD for viewing
- AC Adapter which extends battery life.
- 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)





- ✓ Serving you since 1987
- ✓ Over £50m annual turnover
- ✓ Over 200,000 satisfied customers
- ✓ Highly trained specialist staff
- ✓ Repair & upgrade services

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DIGITAL CAMERAS

| | ex VAT | inc VAT |
|-----------------------------------|--------|---------|
| AGFA | | |
| ePhoto 1280 | 399 | 468.82 |
| ePhoto 1680 | 525 | 616.87 |
| CANON | | |
| PowerShot A5 | 389 | 457.07 |
| PowerShot 600 | 529 | 621.57 |
| PowerShot Pro 70 | 899 | 1056.32 |
| CASIO | | |
| QV-700 | 239 | 280.82 |
| QV-5000SX | 349 | 410.07 |
| QV-7000 | 399 | 468.82 |
| EPSON | | |
| PhotoPC 600 | 249 | 292.57 |
| PhotoPC 700 | 308 | 361.90 |
| Accessories | | |
| PhotoPC 600 AC Adaptor | 49 | 57.57 |
| PhotoPC 600 4Mb Card | 99 | 116.32 |
| PhotoPC 600 15 Mb Card | 259 | 304.32 |
| FUJII | | |
| MX-500 | 365 | 428.87 |
| MX-700 | 399 | 468.82 |
| Accessories | | |
| Mains Adaptor | 25 | 29.37 |
| HEWLETT PACKARD | | |
| HPC 20 | 299 | 351.32 |
| HITACHI | | |
| MPEG Video Camera | 1449 | 1702.57 |
| KODAK | | |
| DC210 Plus | 339 | 398.32 |
| DC220 Serial/USB | 419 | 492.32 |
| DC260 Serial/USB | 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 |
| MUSTEK | | |
| VDC-300 | 169 | 198.57 |
| NIKON | | |
| CoolPix 600 | 375 | 440.62 |
| CoolPix 900 | 594 | 697.95 |
| CoolPix 900 Premiere | 646 | 759.05 |
| OLYMPUS | | |
| C-830L | 459 | 539.32 |
| C-900 | 499 | 586.32 |
| C-1400XL | 799 | 938.82 |
| Accessories | | |
| MA-1E SmartMedia PCMCIA Adaptor | 79 | 92.82 |
| C-1400L AC Adaptor | 55 | 64.62 |
| PHILIPS | | |
| PCA-635VC Parallel | 65 | 76.37 |
| PCA-645VC USB | 65 | 76.37 |
| SANYO | | |
| digiCAM 200 | 179 | 210.32 |
| digiCAM 210 | 199 | 233.82 |
| digiCAM 250 | 249 | 292.57 |
| digiCAM 300 XGA | 299 | 351.32 |
| digiCAM 350 XGA | 235 | 276.12 |
| digiCAM 400 | 499 | 586.32 |
| Accessories | | |
| digiCAM 200/210/300 AC Adaptor | 49 | 57.57 |
| digiCAM 250/350 AC Adaptor | 49 | 57.57 |
| SONY | | |
| 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 |
| DSC-F1 Battery | 35 | 41.12 |
| DSC-F1 Fast Charger | 49 | 57.57 |
| UMAX | | |
| DC - F1 | 279 | 327.82 |

PLEASE CALL FOR DETAILS & PRICES ON ANY DIGITAL CAMERA OR ACCESSORY NOT LISTED ABOVE

TERMINALS

| | ex VAT | inc VAT |
|------------------------|--------|---------|
| WYSE | | |
| WY-35 with keyboard | 239 | 280.82 |
| WY-55ES | 199 | 233.82 |
| WY-65ES | 275 | 323.12 |
| WY-120ES | 255 | 299.62 |
| WY-180ES | 299 | 351.32 |
| WY-185ES with keyboard | 275 | 323.12 |
| WY-325ES | 379 | 445.32 |
| WY-520ES | 215 | 252.82 |

NEW QV-7000SX Digital Camera

- Removable Flash Cards (8Mb included)
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- 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

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QV-5000SX Digital Camera

- 960 x 1280 dpi Mega Pixel
- 8MB built in flash
- 1.3million Pixel
- 1.8 TFT Display - MINI MOVIE FEATURE
- Auto focus
- Stores 102 VGA images
- 4x digital zoom
- Optical viewfinder

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QV-7000SX

Also DP8000 Digital Photo Printer

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QV-700 Digital Camera (Mac or PC)

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NEW 1998 Sanyo digiCAM'S



As seen on TV!

SOLAR POWERED!

The world's first digital camera with solar powered LCD display.

digiCAM 400, Megapi, et, Optical Zoom

IN STOCK NOW! £499 (£586.32)

Mains Adaptor £45 (£52.87) 4MB/8MB Smart Media £39 (£45.82/£65 (£76.37)

| Models | digiCAM VGA 200/210 | digiCAM VGA 250/XGA 350 | digiCAM XGA 300 |
|--------------------------|-------------------------|-------------------------|-----------------------|
| Resolution | 640 x 480 | 640 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/60 seconds | No |
| Zoom | No | x2 | x3 |
| Memory | 4MB/8MB removable (210) | 4MB or 8MB removable | 4MB or 8MB removable |
| TFT display & viewfinder | Yes | Yes | Yes |
| Price (Inc VAT) | £179 (£210.32) | £199 (£233.82) | £249 (£292.57) |
| | | | £335 (£393.62) |
| | | | £299 (£351.32) |



Pace Colour Video Camera USB

- Digital colour camera that connects directly to a USB ready PC
- Send 'Video Emails' to family and friends
- Capture and store still or live video images
- Video-conference over phone lines, ISDN, the Internet or LANs
- Software extras include Gotcha, Photowallet and Face-it
- 24-bit colour and frame rates of up to 30 per second
- Plug & play for easy installation



£65 (£76.37 inc VAT)

Pace Colour Video Camera PCI

- Digital colour camera supplied with PCI video capture card
- Input images from a camcorder or VCR
- Send 'Video Emails' to family and friends
- Capture and store still or live video images
- Video-conference over phone lines, ISDN, the Internet or LANs
- Software extras include Gotcha, Photowallet and Face-it
- 24-bitcolour and frame rates of up to 30 per second



£65 (£76.37 inc VAT)

UMAX DC-F1 Digital Camera

only £259

(£304.32 inc VAT)

The DC-F1 establishes a new criteria for low cost, high quality digital capture. Images and accompanying sound can be stored either in the cameras internal memory or in a 2MB removable memory card that can hold up to 30 images. A 4 element coated glass lens provides focus free operation from 1m to infinity and sound records can be acquired with the built-in microphone.

- 800,000 pixel CMOS sensor
- High Quality Images (1920 x 1600 x 30 bits/pixel)
- JPEG Compression
- Integrated Automatic Electronic Flash
- 2MB Removable Flash Memory, included - stores up to 30 images
- Sound Recording at 20 sec. Per image
- Includes Software: Adobe PhotoDeluxe, Adobe PageMill, Presto! PhotoAlbum



MEMORY CARDS

| | ex VAT | inc VAT |
|-----------------------------------|--------|---------|
| SMARTMEDIA CARDS | | |
| 4MB | 29 | 34.07 |
| 8MB | 39 | 45.82 |
| COMPACT FLASH/PCMCIA CARDS | | |
| 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 |
|--|--------|---------|
| CHASE | | |
| 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 |
|---|--------|---------|
| BARAKA | | |
| VidCall32 Parallel Video Conferencing Kit | 169 | 198.57 |
| Cinemail software | 59 | 69.32 |
| CREATIVE LABS | | |
| VideoBlaster WebCam II | 55 | 64.62 |
| INTEL | | |
| 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 |
| KODAK | | |
| DVC323 Desktop USB | 129 | 151.57 |
| LOGITECH | | |
| 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 |
| MODULAR TECHNOLOGY | | |
| QuartzSight Video Camera / TV Tuner Kit | 89 | 104.57 |
| PACE | | |
| Desktop Colour Camera PCI | 65 | 76.37 |
| Desktop Colour Camera Kit USB | 65 | 76.37 |
| VIDEOLOGIC | | |
| Captivator PCI/VC | 149 | 175.07 |
| ZOOM | | |
| Desktop Colour Camera | 68 | 79.90 |

PROJECTORS

| | ex VAT | inc VAT |
|---------------------------|--------|---------|
| CTX | | |
| E2500 VGA 240Lm | 1289 | 1514.57 |
| E2550 SVGA 300Lm | 1399 | 1643.82 |
| E2600 SVGA 550Lm | 2459 | 2889.32 |
| EPSON | | |
| EMP-5100 SVGA 750Lm | 3995 | 4694.12 |
| EMP-7100 XGA 650Lm | 4995 | 5869.12 |
| EMP-7300 | 8349 | 9810.07 |
| PHILIPS | | |
| ProScreen 4100 300Lm | 1999 | 2348.82 |
| Endurance 4600 SVGA 500Lm | 2499 | 2936.32 |
| Impact 4600 SVGA 650Lm | 2669 | 3136.07 |
| PROXIMA | | |
| 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 |
| SANYO | | |
| PLC-5605 SVGA 700Lm | 3499 | 4111.32 |
| PLC-8815 XGA 550Lm | 4695 | 5116.62 |
| PLC-9005 XGA 1500Lm | 7699 | 9046.32 |
| PLC-SU15 | 3499 | 4111.32 |
| SONY | | |
| VPL-5600 SVGA 650Lm | 3799 | 4463.82 |
| VPL-X600 XGA 600Lm | 4499 | 5286.32 |

GRAPHICS TABLETS

| | ex VAT | inc VAT |
|------------------------------------|--------|---------|
| CALCOMP | | |
| 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 |
| WACOM | | |
| Pen Partner | 59 | 69.32 |
| Pen Partner & Soap | 69 | 81.07 |
| ArtPad II | 96 | 112.80 |
| Intuos A6 | 119 | 139.82 |
| Intuos A5 | 209 | 245.57 |
| Intuos A4 | 305 | 358.37 |

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MODEMS

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|---|--------|---------|
| 3COM | | |
| Sportster WinModem 56K Internal | 54 | 63.45 |
| Sportster WinModem 33k6 PCMCIA | 69 | 81.07 |
| Megahertz 56K Global PCMCIA | 105 | 123.37 |
| 56K V90 Faxmodem External | 59 | 69.32 |
| 56K V90 Voice Faxmodem Internal | 68 | 79.90 |
| 56K V90 Voice Faxmodem External | 75 | 88.12 |
| 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 | | |
| 56K V90 Voice Internal | 39 | 45.82 |
| 56K V90 Voice Internal PCI | 39 | 45.82 |
| 56K V90 Voice External | 55 | 64.62 |
| 56K PCMCIA | 69 | 81.07 |
| DIAMOND | | |
| Supra Express 56K Pro Internal | 39 | 45.82 |
| Supra Express 56K Pro External | 59 | 69.32 |
| HAYES | | |
| 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 |
| MODULAR TECHNOLOGY | | |
| 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 | | |
| MT5634ZPX 56K Voice Internal | 85 | 99.87 |
| MT5634ZPX 56K Voice Internal/PCI | 85 | 99.87 |
| MT5600ZDX 56K External | 75 | 88.12 |
| MT5600ZDXV 56K Voice External | 99 | 116.32 |
| MT2384LTI 33k6 PCMCIA | 129 | 151.57 |
| MT5634ZBA-USB 56K Voice External USB | 115 | 135.12 |
| MT5634ZLXI 56K PCMCIA | 135 | 158.62 |
| PACE | | |
| 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 | 158.62 |



Pace 56 Solo

- 56Kbps self-memory messaging system
- V90, 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
 - 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 (V90)
 - Voice mail, fax mail & email
 - UK Calling Line Identification
 - Flash upgradeable to future standards
 - Full duplex, hands free, speaker phone capability
 - Private mailboxes for multiple users
 - Remote access for message collection

INTERNAL
£65
(£76.37)

EXTERNAL
£83
(£97.52)



Pace NB 56 Voice

- 56Kbps voice/fax/data PC Card modem
- Super fast 56,000bps internet downloads (V90)
 - Voice mail, fax mail & email
 - Enhanced throughput up to 230.4Kbps
 - UK Calling Line Identification
 - Flash upgradeable to future standards
 - Ultra low power operation & standby mode
 - True hardware implementation, unlike winmodem solutions

PC CARD
£95
(£111.62)



Pace ISDN Terminal Adaptor

- Complete package for high speed digital communications
- Basic Rate ISDN interface (2 x 64k)
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MODEMS CONTINUED

| | ex VAT | inc VAT |
|-----------------------------------|--------|---------|
| PSION DACOM | | |
| Gold Card V34+ Global PCMCIA | 115 | 135.12 |
| Gold Card 56K Global PCMCIA | 145 | 170.37 |
| Accessories | | |
| Gold Card ISDN Upgrade | 125 | 146.87 |
| Nokia 2110/ 6110/ 8110 GSM Kit | 79 | 92.82 |
| Panasonic GSM Kit | 79 | 92.82 |
| XIRCOM | | |
| Credit card 56K PCMCIA | 119 | 139.82 |
| RealPort 56K GlobalAccess PCMCIA | 129 | 151.57 |
| Ericsson Global Access GSM PCMCIA | 109 | 128.07 |
| Siemens S3/S4 Global GSM PCMCIA | 109 | 128.07 |
| Philips Global Access GSM PCMCIA | 109 | 128.07 |
| Nokia 2110/8110 Global GSM PCMCIA | 109 | 128.07 |

ISDN TERMINAL ADAPTORS

| | ex VAT | inc VAT |
|---|--------|---------|
| 3COM | | |
| Sportster ISDN External | 99 | 116.32 |
| Courier-1 ISDN & 33k6 Modem Int/Ext | 239 | 280.82 |
| DYNALINK | | |
| ISDN Terminal Adaptor internal with Voice | 59 | 69.32 |
| ISDN Terminal Adaptor Internal PCI | 39 | 45.82 |
| EICON | | |
| Divia 2.0 ISA | 75 | 88.12 |
| Divia Mobile PCMCIA | 235 | 276.12 |
| Divia Pro 2.0 PCI | 199 | 233.82 |
| Divia Pro 2.0 PCMCIA | 195 | 229.12 |
| Divia Server BRI-2M ISA | 329 | 386.57 |
| Divia Server BRI-2M PCI | 319 | 374.82 |
| Divia Terminal Adaptor External | 155 | 182.12 |
| HAYES | | |
| Accura 128k External | 174 | 204.45 |
| MULTITECH | | |
| MT128ISA-SD 128K Internal | 39 | 45.82 |
| MT128ISA-SV 128K Internal & Voice | 75 | 88.12 |
| MT128PCI-SD 128K Internal PCI | 39 | 45.82 |
| MT56128ZLX 128K & 56K PCMCIA | 189 | 222.07 |
| PACE | | |
| UltraLink External | 175 | 205.62 |
| VIRTUAL ACCESS | | |
| LinXpeed 10 External | 129 | 151.57 |
| LinXpeed 20 External with Voice | 169 | 198.57 |
| XIRCOM | | |
| CreditCard ISDN PCMCIA | 159 | 186.82 |

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56K* Voice Faxmodem & 56K* Faxmodem

Includes V.90 56K* standard and x2™ technology

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- compatible at 33,600bps & other modem speeds
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- Single/multiple mailboxes with security (only Voice Faxmodem)
- Call discrimination: Voice/Fax/Data (only Voice Faxmodem)



| | | | |
|---------------------|----------|-----|------------------|
| 56K* Voice Faxmodem | Internal | £69 | (£81.07 inc VAT) |
| 56K* Voice Faxmodem | External | £75 | (£88.12 inc VAT) |
| 56K* Faxmodem | | £59 | (£69.32 inc VAT) |



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| International Modem adaptor kit | 39 | 45.82 |
| BROTHER | | |
| Fax-510 | 127 | 149.22 |
| Fax-520 TAM | 170 | 199.75 |
| Fax-920 | 170 | 199.75 |
| Fax-930 | 238 | 279.65 |
| CANON | | |
| T-21 | 185 | 217.37 |
| T-31 | 215 | 252.62 |
| T-30 Inkjet | 249 | 292.57 |
| B-110 Inkjet TAM | 329 | 386.57 |
| B-150 Inkjet | 239 | 280.82 |
| L-250 Laser | 529 | 621.57 |
| L-300 Laser | 719 | 844.82 |
| L-800 Laser | 1079 | 1267.82 |
| L-900 Laser | 1235 | 1451.12 |
| OKI | | |
| Okifax 460 TAM | 209 | 245.57 |
| Okifax 610 | 199 | 233.82 |
| Okifax 660 | 229 | 269.07 |
| Okifax 740 | 279 | 327.82 |
| Okifax 4100 | 419 | 492.32 |
| Okifax 5200 | 729 | 856.57 |
| Okifax 5500 | 899 | 1056.32 |
| PANASONIC | | |
| KX-F2680 | 185 | 217.37 |
| KX-F2780 | 209 | 257.32 |
| UF-S1 TAM | 235 | 245.57 |
| KX-F1810 Plain Paper | 245 | 299.62 |
| UF-S10 TAM | 259 | 292.57 |
| KX-F1830 Plain Paper | 275 | 323.12 |
| UF-332 Plain Paper TAM | 399 | 486.82 |
| UF-550 Laser | 639 | 739.07 |
| UF-560 Laser | 689 | 797.82 |
| SAMSUNG | | |
| SF-150 | 115 | 135.12 |
| F-150T | 145 | 170.37 |
| SF-3000T Inkjet TAM | 209 | 245.57 |
| SF-4500 Inkjet | 225 | 264.37 |
| SF-5500 Laser | 329 | 386.57 |
| SF-5600 Laser | 509 | 598.07 |
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- Personal copy mode

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FAX-1030 £255 (£296.62 inc VAT)
Plain Paper Fax with TAM

brother

FAX CONTINUED

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|------------------|--------|---------|
| SHARP | | |
| 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 |
| TOSHIBA | | |
| TFP-55 | 239 | 280.82 |
| TFP-100 Inkjet | 315 | 370.12 |

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| BROTHER | | |
| HL-P2000 Laser | 239 | 280.82 |
| MC-3000 Colour Inkjet | 449 | 527.57 |
| MFC-9050 Laser | 425 | 499.37 |
| MFC Pro 700c Colour Inkjet | 595 | 699.12 |
| CANON | | |
| MultiPASS C20 Colour Inkjet | 269 | 316.07 |
| MultiPASS C50 Colour Inkjet | 259 | 304.32 |
| MultiPASS L60 Laser | 675 | 793.12 |
| MultiPASS L90 Laser | 835 | 981.12 |
| HEWLETT PACKARD | | |
| OfficeJet 635 Inkjet Colour Fax | 296 | 347.80 |
| OfficeJet 700 Inkjet Colour Fax | 323 | 379.52 |
| LaserJet 3100 Laser | 489 | 574.57 |
| OfficeJet Pro 1170C Inkjet | 489 | 574.57 |
| OfficeJet Pro 1175C Inkjet | 614 | 721.45 |
| OKI | | |
| Okifax 740MF Colour Inkjet | 329 | 386.57 |
| PANASONIC | | |
| UF-342 Inkjet | 669 | 786.07 |
| UF-344 Inkjet | 949 | 1115.07 |
| UF-770 Laser | 1029 | 1209.07 |
| UF-770 Laser | 1169 | 1373.57 |
| SHARP | | |
| FO-2150CM Inkjet | 214 | 251.45 |
| FO-1660M Ink Film | 235 | 276.12 |
| F-3600M Laser | 459 | 539.32 |
| TOSHIBA | | |
| TF-601 Laser | 729 | 856.57 |
| XEROX | | |
| Work Centre 450C Colour Inkjet | 265 | 311.37 |

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See page 30 for TV Tuner!
See page 30 for Video Card!
See page 45 for Modems!

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HP OfficeJet 700

The HP All-in-one product that makes it easy to do your work & communicate in colour

- Print, Copy, Scan in Colour
- Colour fax (PC assisted)

£323 (£379.52 inc VAT)
With HP SupportPack **£394** (£462.95 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

£489 (£574.57 inc VAT)
With HP SupportPack **£607** (£713.22 inc VAT)

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

£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

£489 (£574.57 inc VAT)
With HP SupportPack **£607** (£713.22 inc VAT)

Features...

- 600x600 dpi Black Text
- 600x300 dpi Colour Printing with PhotoRET
- 5ppm black 2ppm colour
- 50 speed dials and 50 page memory
- 1200 dpi enhanced colour scanning
- Windows®95, 98 and NT compatible
- Software: Caere OmniPage LE OCR, Adobe PhotoDeluxe
- One-year warranty with on-site exchange

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

Features...

- 600x600 dpi Black Text
- 600x300 dpi (with CREt W) Colour Printing
- 9ppm black 5ppm colour
- 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

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

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Web Site www.dabs.com

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Three new page printers from OKI

Take a look at the three new Oki page printers, all offering the superb performance and reliability you can expect from Oki. Fast print speeds, excellent quality and flexible paper handling, as well as Oki's LED print technology, ensure that you get the most out of whichever Oki page printer you choose.

NEW

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

£184 (£216.20 inc VAT)



NEW

OKIPAGE 10ex

- LED 10 ppm page printer with PCL6
- 600 x 1200 dpi resolution
- 2Mb RAM, upgradeable to 35Mb
- DOS, Win 3.1/95/98 & Windows NT
- 250 sheet input tray

£235 (£276.12 inc VAT)



NEW

OKIPAGE 12i/n

- PCL6 and Adobe PostScript Level II
- LED 12 ppm page printer
- 600 x 1200 dpi resolution
- 4Mb RAM, upgradeable to 36Mb
- Ethernet 10 Base T as standard
- DOS, Windows 3.1/95/98 & Windows NT

£410 (£481.75 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 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 8c

The OKIPAGE 8c enables fast 8 ppm colour printing. With a choice of four colour management systems & 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
- Ethernet option with the OKIPAGE 8cen at £2129

NEW PRICE £1949 (£2290.07 inc VAT)



OKIPAGE 4w plus

- LED 4 ppm page printer
- 600 dpi resolution
- Near-silent printing
- Windows 3.1, 3.11, Windows NT 3.51, Windows NT 4.0 & Windows 95

£135 (£158.62 inc VAT)

OKI

People to People Technology

Lasers



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DOT MATRIX PRINTERS

| | ex VAT | inc VAT |
|------------------|--------|---------|
| EPSON | | |
| LX-300 | 97 | 113.97 |
| FX-880 | 247 | 290.22 |
| FX-1170 | 200 | 235.00 |
| 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 | | |
| 2380 | 285 | 334.87 |
| 2390 | 285 | 334.87 |
| 2381 | 349 | 410.07 |
| 2391 | 349 | 410.07 |
| OKI | | |
| 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 | 385 | 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 | 985.82 |
| PANASONIC | | |
| 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 |

Tektronix



Phaser 740L

- Colour capable laser
- 16MB, 16ppm, 1200x1200dpi
- Adobe Postscript 3, PCL5c emulation
- Optional automatic duplexing
- Ethernet & parallel interface
- 1 year RTB warranty



£995
(£1169.12)

Phaser 740N

- 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 yr Tekcolor™ on-site warranty

£1395
(£1639.12)

Phaser 740P & 740DX

- 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 yr Tekcolor™ on-site warranty

Phaser740P
£1995 (£2344.12)

Phaser740DX
£3395 (£3989.12)

Consumables

| | | | | | |
|-----------------------------|------|-----------|--|------|-----------|
| Colour upgrade kit for 740L | £415 | (£487.62) | Magenta toner cartridge | £107 | (£125.72) |
| Black toner cartridge | £48 | (£56.40) | Yellow toner cartridge | £107 | (£125.72) |
| Cyan toner cartridge | £107 | (£125.72) | 4 toner cartridges, 50 trays, 100 sh paper | £481 | (£565.17) |

PRICES IN BRACKETS ARE INCLUSIVE OF VAT

See line listing for Phaser 840 & 780

DOT MATRIX PRINTERS

| | ex VAT | inc VAT |
|--------------|--------|---------|
| TALLY | | |
| 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

| | ex VAT | inc VAT |
|--------------|------------------|----------|
| EPSON | | |
| 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 |



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-1040 **£179**
(£210.32 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

HL-1050 **£209**
(£245.57 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 £224 (£263.20 inc VAT)

Also available:

HL-2400cn **£1849**
(£2172.57 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

HL-1070 **£275**
(£323.13 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
- 1200dpi resolution
- 4Mb standard memory expandable to 36Mb
- PCL6 & PostScript 2 language emulation as standard
- In-built barcode font
- 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
- Network connectivity option
- One year on-site warranty

HL1070-8MB £290 (£340.75 inc VAT)

*POP3 required

HL-2060 **£639**
(£750.82 inc VAT)

High volume 20ppm network laser printer.

FEATURES

- 20 page per minute
- 100MHz RISC processor
- 8Mb standard memory upgradable to 72Mb
- 1200dpi resolution
- PCL6 & PostScript 2 language emulation as standard
- In-built barcode font
- 500 sheet paper input
- Optional duplex
- Job reprint function
- IEEE 1284 & Universal Serial Bus interfaces
- Optional ethernet interface
- One year on-site warranty

HL2060-16MB £655 (£769.62 inc VAT)

HL2060n £859 (£1009.32 inc VAT)

HL2060n-16MB £875 (£1028.12 inc VAT)



For illustration purposes document originals are shown face-up



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PRICE MATCHING
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Web Site **www.dabs.com**

LASER PRINTERS

| BROTHER | ex VAT | inc VAT |
|------------------------------------|--------|---------|
| HL-820 | 159 | 186.82 |
| HL-1040 | 179 | 210.32 |
| HL-1050 | 209 | 245.57 |
| HL-1050 8Mb | 224 | 263.20 |
| HL-1070 PostScript | 275 | 323.12 |
| HL-1070 PostScript 8Mjr | 290 | 340.75 |
| HL-1660e | 579 | 680.32 |
| HL-1660en Ethernet 8Mb | 779 | 915.32 |
| HL-1660en Ethernet 16Mb | 795 | 934.12 |
| HL-2060 | 639 | 750.82 |
| HL-2060 16Mb | 655 | 769.62 |
| HL-2060n Ethernet | 859 | 1009.32 |
| HL-2060n Ethernet 16Mb | 875 | 1028.12 |
| HL-2400c Colour | 1549 | 1820.07 |
| HL-2400cn Colour Ethernet | 1849 | 2172.57 |
| Accessories | | |
| RS-100M HL-730/760/10x0 Serial | 75 | 88.12 |
| NC-600X HL-730/760/1060 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 | | |
| HL-820/1050 1yr DSM | 39 | 45.82 |
| HL-820/1050 2yr DSM | 89 | 104.57 |
| HL-1660 2yr DSM | 149 | 175.07 |
| HL-2400c 2yr DSM | 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 | | |
| 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 | 175 | 205.62 |
| Type B LocalTalk Interface | 89 | 104.57 |
| Type B Serial Interface | 69 | 81.07 |
| Warranty | | |
| 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 2100 | 423 | 497.02 |
| LaserJet 2100M | 480 | 564.00 |
| LaserJet 2100TN | 600 | 705.00 |
| LaserJet 4000 | 741 | 870.67 |
| LaserJet 4000T Twin Cassette | 807 | 948.22 |
| LaserJet 4000N Ethernet | 941 | 1105.67 |
| LaserJet 4000TN Twin Cassette Ethernet | 1011 | 1187.92 |
| 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 A3 | 3862 | 4537.85 |
| LaserJet Colour 8500N A3 Ethernet | 4425 | 5199.37 |
| Ljet Colour 8500DN A3 Ethernet Duplex | 5242 | 6159.35 |
| Accessories | | |
| LaserJet Companion | 85 | 99.87 |
| LaserJet 4000 500sht Tray | 79 | 92.82 |
| LaserJet 4000 500sht Universal Tray | 85 | 99.87 |
| LaserJet 4000 500sht Feeder | 189 | 222.07 |
| LaserJet 4000 75sht Envelope Feeder | 189 | 222.07 |
| LaserJet 4000 Duplex Unit | 209 | 245.57 |
| LaserJet 5000 250sht Tray | 95 | 111.62 |

LASER PRINTERS continued

| HEWLETT PACKARD cont | ex VAT | inc VAT |
|--|--------|---------|
| LaserJet 5000 500sht Tray | 125 | 146.87 |
| LaserJet 5000 250sht Feeder | 155 | 182.12 |
| LaserJet 5000 500sht Feeder | 219 | 257.32 |
| LaserJet 5000 Duplex Unit | 309 | 363.07 |
| LaserJet 8000 Envelope Feeder | 285 | 334.87 |
| LaserJet 8000 2000sht Feeder | 585 | 687.37 |
| LaserJet 8000 2 x 500sht Feeder | 585 | 687.37 |
| LaserJet 8000 7bin Tabletop Mailbox | 519 | 609.82 |
| LaserJet 8000 Multi-bin Mailbox | 779 | 915.32 |
| LaserJet 8000 5bin Mailbox & Stapler | 1099 | 1291.32 |
| Internal EIO | | |
| J3110A JetDirect 600N RJ45 | 181 | 212.67 |
| J3111A JetDirect 600N Combo/LocalTalk | 216 | 253.80 |
| J3113A JetDirect 600N 10/100 External | 232 | 272.60 |
| J2590A JetDirect Plus3 10/100 | 351 | 412.42 |
| J2591A JetDirect Plus Combo | 186 | 218.55 |
| J2538A JetDirect 170X | 96 | 112.80 |
| J3253A JetDirect 300X 10/100 | 186 | 218.55 |
| J3265A JetDirect 500X 10/100 3 parallel Memory | 220 | 258.50 |
| LJ1100/2100/4000 8Mb EDO DIMM | 55 | 64.62 |
| LJ1100/2100/4000 16Mb EDO DIMM | 99 | 116.32 |
| LJ4000/5000/8000 4Mb SDRAM | 35 | 41.12 |
| LJ4000/5000/8000 8Mb SDRAM | 65 | 76.37 |
| LJ4000/5000/8000 16Mb SDRAM | 109 | 128.07 |
| LJ4000/5000/8000 32Mb SDRAM | 219 | 257.32 |
| LJ4000/5000/8000 2Mb Flash RAM | 169 | 198.57 |
| LJ4000/5000/8000 4Mb Flash RAM | 229 | 269.07 |
| Warranty | | |
| 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 LJ4500 3yr Support Pack | 515 | 605.12 |

| KYOCERA | ex VAT | inc VAT |
|-------------------------------------|--------|---------|
| FS-600 | 229 | 269.07 |
| FS-800 | 339 | 398.32 |
| FS-800N | 520 | 611.00 |
| FS-1700+ | 519 | 609.82 |
| FS-1700T+ Twin Cassette | 629 | 739.07 |
| FS-1700N+ Ethernet | 729 | 856.57 |
| FS-1700TN+ Twin Cassette Ethernet | 799 | 938.82 |
| FS-3700+ PostScript | 699 | 821.32 |
| FS-3700T+ Twin Cassette PostScript | 779 | 915.32 |
| FS-3700N+ Ethernet PostScript | 899 | 1056.32 |
| FS-3700TN+ PostScript Twin Cas Enet | 989 | 1162.07 |
| FS-6700 A3 PostScript | 929 | 1091.57 |
| FS-7000 A3 Twin Cassette | 1699 | 1996.32 |
| FS-7000NX A3 Twin Cassette Ethernet | 1799 | 2113.82 |
| FS-1700/FS-3700 Accessories | | |
| 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 | 26 | 30.55 |
| PF-20 Universal Paper Cassette | 189 | 222.07 |
| DU-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 |
| FS-7000 Accessories | | |
| PF-30 2x500sht Cassette | 379 | 445.32 |
| DU-30 Duplex Unit | 389 | 457.07 |
| ST-30 Face Up/Face Down Stacker | 1469 | 1726.07 |
| Memory | | |
| 4MB SIMM | 59 | 69.32 |
| 8MB SIMM | 109 | 128.07 |
| Warranty | | |
| 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 | 299 | 351.32 |

| 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 | 1968.12 |
| 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 | | |
| 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 |

Tally
Professional Printing Solutions



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)



Tally T9112 laser printer

- 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.
Cashback directly from manufacturer only

T8004
colour laser printer

- 600 x 600 dpi resolution
- 24MB RAM (expandable to 64MB)
- Up to 8 ppm colour, 16 ppm mono
- Parallel and Ethernet interfaces
- Windows 95/98/NT only

T8004 £1049 (€1232.57)



Tally T8004 colour laser printer

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 £1469 (€1726.07)

T8104 plus £1879 (€2207.82)



Tally T8104 colour laser printer

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| 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 |
| 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 | | |
| 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 | 319 | 374.82 |
| PagePro 12 | 559 | 656.82 |
| PagePro 20 | 709 | 833.07 |
| Colour PagePro | 1549 | 1820.07 |
| Colour PagePro PS | 1929 | 2266.57 |
| OKI | | |
| Okipage 4w plus | 135 | 158.62 |
| Okipage 8p | 184 | 216.20 |
| Okipage 6e | 189 | 222.07 |
| Okipage 6ex | 219 | 257.32 |
| Okipage 10ex | 235 | 276.12 |
| Okipage 10exs | 269 | 316.07 |
| Okipage 12i/Ethernet | 410 | 481.75 |
| Okipage 16n | 579 | 680.32 |
| Okipage 16nps PostScript | 699 | 821.32 |
| Okipage 16en Ethernet | 749 | 880.07 |
| Okipage 16enps Ethernet PostScript | 729 | 856.57 |
| Okipage 20en Ethernet | 889 | 1044.57 |
| Okipage 20nps PostScript | 899 | 1056.32 |
| Okipage 20ndx Duplex | 909 | 1068.07 |
| Okipage 20enps Ethernet PostScript | 1039 | 1220.82 |
| Okipage 20endx Ethernet Duplex | 1069 | 1256.07 |
| Okipage 8c Colour | 1949 | 2290.07 |
| Okipage 8cn Colour Ethernet | 2379 | 2795.32 |
| Accessories | | |
| 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 | | |
| KX-P6300 | 185 | 217.37 |
| KX-P6500 | 249 | 292.57 |
| QMS | | |
| 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 |
| 2060S | 1999 | 2348.82 |
| 2060EX | 2669 | 3136.07 |
| 2425PS | 2869 | 3371.07 |
| 2425EX | 4149 | 4875.07 |
| MagiColor 2 DeskLaser | 1109 | 1303.07 |
| MagiColor 2 CX 24Mb | 1595 | 1874.12 |
| MagiColor 2 CX Exc 80Mb | 2039 | 2395.82 |
| Accessories | | |
| 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 |
| TALLY | | |
| T9006 | 169 | 198.57 |
| T9208 | 219 | 257.32 |



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**HP JetDirect 170x
HP JetDirect 300x**

The Small Business Print Server

- Supports all printers with a parallel port
- 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)

HP JetDirect 500x

For Fast Ethernet and Ethernet Networks.

- Automatic network protocol switching
- Connects 3 parallel printers using only one network address
- 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
- Auto negotiation between 10Mbps and 100Mbps
- Internet Printing Protocol - Print to a printer with a Web address

Replace intranet faxing: cheaper and higher quality, supports colour

Replace Email attachments like orgcharts or slides to review

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HP 9100c Digital Sender

The easiest way to send paper - in colour or black & white - at the speed of a fax and the quality of an original for the cost of an e-mail.

- Full-colour images arrive at near-original quality
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- HP Smart Compression technology decreases file size while optimizing quality
- Up to 15ppm feeding speed (for black & white)
- Automatic document feeder holds up to 50 pages
- Supports a variety of paper sizes and odd shapes on the glass surface
- Supports PDF, TIFF, and PCL5 file formats
- Address Book holds up to 200,000 public e-mail addresses and over 1,000 fax numbers
- Configurations support 10Base-T, 10Base-2, 100Base-T, and Token Ring environments
- A software package including HP JetAdmin, HP Address Book Manager, Adobe Acrobat Reader, Administrative Guide, and more

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| TALLY continued | | |
| T9112 | 449 | 527.57 |
| T9116D | 615 | 722.62 |
| T8004 | 1049 | 1232.57 |
| T8104 Colour | 1459 | 1714.32 |
| T8104 Plus Colour | 1879 | 2207.82 |
| TEKTRONIX | | |
| 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 | | |
| 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 | | |
| P8e | 229 | 269.07 |
| P12e | 429 | 504.07 |
| 4508 | 265 | 311.37 |
| 4512 Duplex | 709 | 833.07 |
| 4512N Duplex Ethernet | 789 | 927.07 |
| 4512MP PostScript | 995 | 1169.12 |
| N17B | 699 | 821.32 |
| N17 Ethernet | 779 | 915.32 |
| N24 Ethernet | 1629 | 1914.07 |
| N32 Ethernet | 1815 | 2132.62 |
| N32CN Ethernet Duplex | 2849 | 3347.57 |
| N32FN Duplex Finisher Stapler | 4499 | 5286.32 |
| N40 Ethernet | 2229 | 2384.07 |
| N40CN Ethernet Duplex | 3079 | 3617.82 |
| N40FN Duplex Finisher Stapler | 4639 | 5450.82 |
| DocuPrint C55 | 1645 | 1932.87 |
| DocuPrint C55MP PostScript | 2199 | 2583.82 |
| DocuPrint C55MPV PostScript | 3085 | 3624.87 |
| Accessories | | |
| 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 | 1643.62 |
| 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 | | |
| Phaser 840N Ethernet | 1895 | 2226.62 |
| Phaser 840DP Duplex Ethernet | 2695 | 3166.62 |
| Phaser 840DX Duplex HD Ethernet | 3395 | 3989.12 |
| Consumables | | |
| 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 |
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| HEWLETT PACKARD | | |
| 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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- Resolution: 600 dpi black, 300 dpi colour
- 50 sheet input tray
- DOS, Win 3.1x, Win 95 compatible
- 1 year unit exchange warranty

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The smart friend who knows how to deliver.

- Up to 5 ppm mono, 1.7 ppm colour
- Resolution: 600 dpi black, 600 x 300 dpi colour
- Includes optional photo cartridge
- DOS, Win 3.1x, Win 95/98 & Win NT 4 compatible
- 1 year unit exchange warranty

695C **£96** (€112.80 inc VAT)
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HP DeskJet 880C

The dynamic partner that handles every job, from business documents to photo printing.

- Up to 8 ppm mono, 5 ppm colour
- 600 dpi resolution
- Photo RE II for photo-quality colour
- Parallel and USB interface
- DOS, Win 3x/9x/NT 5 compatible
- 1 year unit exchange warranty

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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 RE 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 **£126** (€148.05 inc VAT)
With HP SupportPack £173 (€203.27 inc VAT)

720C **£141** (€165.67 inc VAT)
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HP DeskJet 895Cxi

The business partner that does wonders for office productivity and handles multiple-users with ease.

- Print Speed: 9 ppm mono, 6 ppm colour
- 3 ppm full page business graphics
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- Photo RE II for photo-quality colour
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- 100 sheet input tray
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- Parallel and USB interface
- DOS, Win 3x/9x/NT 5 compatible
- 1 year unit exchange warranty

895Cxi **£186** (€218.55 inc VAT)
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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)
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- Photo RE II for photo-quality colour
- HP ColorSmart II
- 150 sheet input tray
- 2MB RAM
- DOS, Win 3.1x, Win 95 & Win NT 4 compatible
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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)
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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 £Call (£Call inc VAT)



HP LaserJet 2100

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 10 ppm print speed
- 1200 dpi resolution
- PCL6 and PostScript Level 2 emulation (M/TN only)
- 250 sheet input tray, 100 sheet multi-purpose tray
- Win 3.1x/95/NT 4.0/Mac (M/TN only) compatible
- 1 year return to HP warranty

2100 £423 (£497.02 inc VAT)
 With HP SupportPack £Call (£Call inc VAT)

2100M £480 (£564.00 inc VAT)
 With HP SupportPack £Call (£Call inc VAT)

2100TN £600 (£705.00 inc VAT)
 With HP SupportPack £Call (£Call 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 (£931.12 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)
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4000 £741 (£870.67 inc VAT)
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4000T £807 (£948.22 inc VAT)
 With HP SupportPack £987 (£1159.72 inc VAT)

4000N £941 (£1105.67 inc VAT)
 With HP SupportPack £1124 (£1320.70 inc VAT)

4000TN £1011 (£1187.92 inc VAT)
 With HP SupportPack £1191 (£1399.42 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 £1164 (£1367.70 inc VAT)

5000N £1334 (£1567.45 inc VAT)
 With HP SupportPack £1569 (£1843.57 inc VAT)

5000GN £1649 (£1937.57 inc VAT)
 With HP SupportPack £1884 (£2213.70 inc VAT)



HP Colour LaserJet 4500

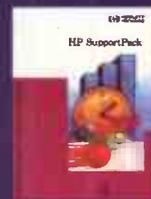
The affordable colour laser printer for corporate workgroups.

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- 600 dpi resolution with Image Ret 2400
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4500N £1875 (£2203.12 inc VAT)
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| 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 |
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| 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 |
| 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 HP/HP Toner | 52 | 61.10 |
| 92291A | LJ INSI/4Si Toner | 69 | 81.07 |
| 92295A | LJ II/III Toner | 44 | 51.70 |
| 92298A | LJ 4/4-5 Toner | 42 | 49.35 |
| C3900A | LJ 4V/4M Toner | 85 | 99.87 |
| C3903A | LJ 5P/5MP/6P/6MP Toner | 50 | 58.75 |
| C3906A | LJ 5L/6L Toner | 39 | 45.82 |
| C3909A | LJ 5Si/8000/Mopier 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 |
| C4092A | LJ 1100 Toner | 33 | 38.77 |
| C4127A | LJ 4000 6K Toner | 55 | 64.62 |
| C4127X | LJ 4000 10K Toner | 77 | 90.47 |
| C4129X | LJ 5000 Toner | 93 | 109.27 |
| C4182X | LJ 8100 Toner | 117 | 137.47 |
| C4191A | LJ 4500 Black | 53 | 62.27 |
| C4192A | LJ 4500 Cyan | 67 | 78.72 |
| C4193A | LJ 4500 Magenta | 67 | 78.72 |
| C4194A | LJ 4500 Yellow | 67 | 78.72 |
| C4195A | LJ 4500 Drum | 50 | 58.75 |
| C4196A | LJ 4500 Transfer Kit | 119 | 139.82 |
| C4198A | LJ 4500 Fuser | 138 | 162.15 |

| 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 | 131.60 |
| 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 | 455 | 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 | 105.70 |
| 113R00184 | N24/N32 Toner | 204 | 237.75 |
| 113R265 | 450B Toner | 75 | 88.12 |
| 6R856 | C55 Black Toner | 13 | 15.27 |
| 8R7724 | C55 Fuser Oil | 35 | 41.12 |
| 9R7759 | 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-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 | | 146 | 171.55 |

| EPSON | | ex VAT | inc VAT |
|--------------------------|--|--------|---------|
| Stylus Colour 440 | | 118 | 138.65 |
| Stylus Colour 640 | | 133 | 156.27 |
| Stylus Photo 700 | | 147 | 172.72 |
| Stylus Photo 740 | | 177 | 207.97 |
| Stylus Photo 750 | | 207 | 243.22 |
| Stylus Colour 850 | | 308 | 361.90 |
| Stylus Photo EX | | 451 | 529.92 |
| Stylus Colour 1520 | | 910 | 1069.25 |
| Stylus Colour 3000 | | 1591 | 1869.42 |
| Stylus Colour Pro 5000 | | 89 | 104.57 |
| 800/850 PostScript RIP | | 189 | 222.07 |
| 3000/5000 PostScript RIP | | | |

| HEWLETT PACKARD | | ex VAT | inc VAT |
|-----------------|--|--------|---------|
| Deskjet 340C | | 135 | 158.62 |
| Deskjet 340CBI | | 166 | 195.05 |
| Deskjet 420C | | 66 | 77.55 |
| Deskjet 695C | | 96 | 112.80 |
| Deskjet 710C | | 126 | 148.05 |
| Deskjet 720C | | 141 | 165.67 |
| Deskjet 880C | | 164 | 192.70 |
| Deskjet 895Cxi | | 186 | 218.55 |
| Deskjet 1120C | | 285 | 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 | | 112 | 131.60 |
| Colour JetPrinter 5700 | | 139 | 163.32 |
| Colour JetPrinter 5700 Photo | | 155 | 182.12 |
| 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 | | 95 | 111.62 |
| XJ8C | | 149 | 175.07 |

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| 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-201BK | 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 |

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| 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 | | | |
|---------|-----------------------------------|----|-------|
| 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 | 14 | 16.45 |
| S020093 | Stylus 400/500/600/Photo Black 13 | 15 | 17.62 |
| S020097 | Stylus 200/500 Colour | 18 | 21.15 |
| S020108 | Stylus 800/850/1520 Black | 14 | 16.45 |
| S020110 | Stylus Photo 5colour | 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 |

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|-----------------|------------------------------|----|-------|
| 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 | | | |
|---------|-----------------------------|----|-------|
| 12A1970 | ColourJet 7000/7200 Black | 19 | 22.32 |
| 12A1980 | ColourJet 7000/7200 Colour | 22 | 25.85 |
| 12A1990 | ColourJet 5700 Photo | 27 | 31.72 |
| 13400HC | ColJet 1000/1020/2050 Black | 19 | 22.32 |
| 1380490 | 4079 Black | 15 | 17.62 |



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| MM Backstage Enterprise Studio v2.0 | 649 | 762.57 |
| Macromedia DreamWeaver v2.0 | 229 | 269.07 |
| Macromedia Flash v3.0 | 199 | 233.82 |
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| Macromedia Generator Dev Stud | 379 | 445.32 |
| MS FrontPage 98 | 89 | 104.57 |
| Micrographx Webtricity v2.0 | 127 | 149.22 |
| NetObjects Fusion v2.0 | 189 | 222.07 |
| SoftQuad HotMetal Pro v4.0 | 69 | 81.07 |
| Spectacular 3D Web Workshop | 285 | 334.87 |
| Symantec Internet Fast Find | 33 | 38.77 |

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| Caere OmniForm v2.0 | 89 | 104.57 |
| Caere Omnipage v8.0 | 305 | 358.37 |
| Caere Omnipage Pro v9.0 | 299 | 351.32 |
| Caere PageKeeper v2.0 | 55 | 64.62 |
| Caere Wordscan Plus v4.0 | 285 | 334.87 |
| Visioneer PaperPort Deluxe | 59 | 69.32 |
| Visioneer Pro OCR 100 | 59 | 69.32 |
| Visioneer PaperPort WebSuite | 59 | 69.32 |
| Visioneer Paper Management Deluxe | 65 | 76.37 |
| Xerox Pagis Pro 97 | 69 | 81.07 |
| Xerox TextBridge Pro 98 | 69 | 81.07 |

OPERATING SYSTEMS

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| IBM OS/2 Warp v3.0 & Win | 125 | 146.87 |
| IBM OS/2 v4.0 | 145 | 170.37 |
| MS BackOffice Server v4.0 | 1515 | 1780.12 |
| MS BackOffice Small Business Server 5u | 879 | 1032.82 |
| MS BackOffice Small Business Server 25u/1459 | 1714.32 | |
| MS Plus98! Pack | 26 | 30.55 |
| MS Windows 98 Full | 109 | 128.07 |
| MS Windows 98 Upgrade | 59 | 69.32 |
| MS Windows NT v4.0 Workstation | 212 | 249.10 |
| MS Windows NT v4.0 Server & 5 Client | 542 | 636.85 |
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| Novell Netware 3.2 5 user | 520 | 611.00 |
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| Novell IntranetWare 50 user | 2374 | 2789.45 |

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| Borland C++ Builder Client/Server v3.0 | 1279 | 1502.82 |
| Borland C++, Learn to program with... | 35 | 41.12 |
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| MS Project 98 | 305 | 358.37 |

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| MS AutoRoute UK & Ireland Win | 239 | 280.82 |
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| Dragon Dictate Naturally Speaking | 149 | 175.07 |
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| IBM ViaVoice Executive | 99 | 116.32 |
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| MS Excel 97 | 229 | 269.07 |

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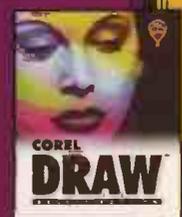
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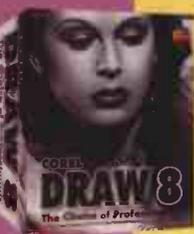
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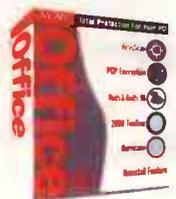
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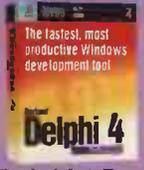
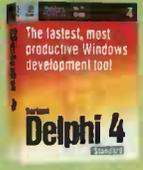
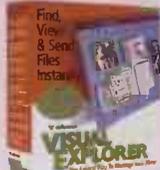
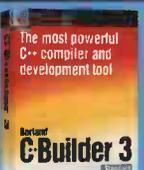
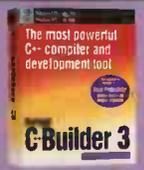
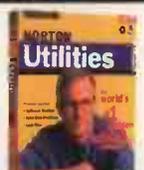
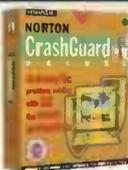
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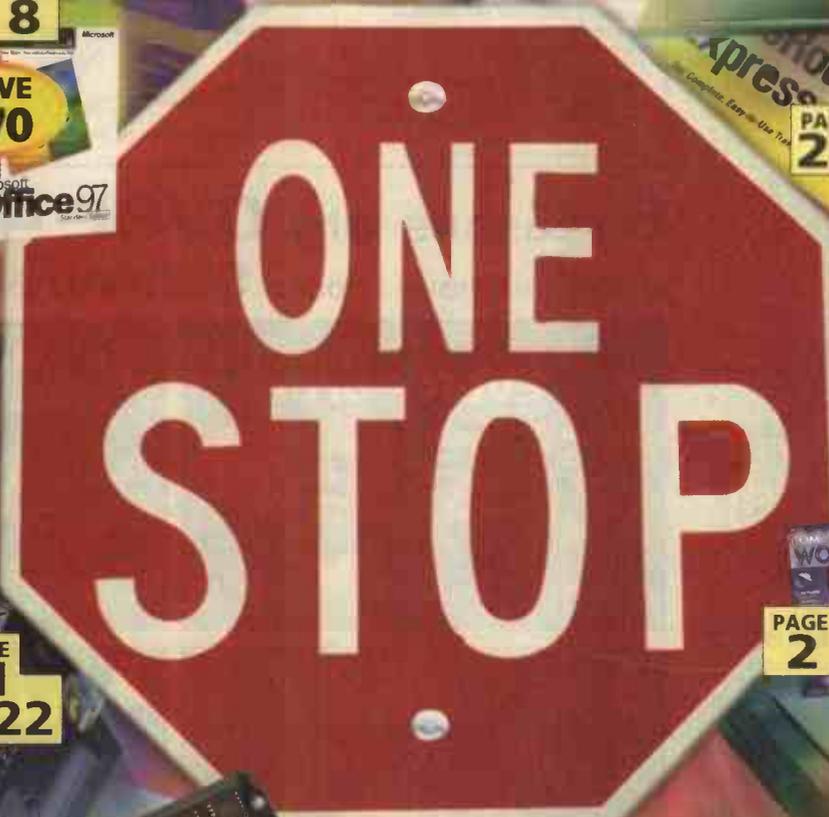
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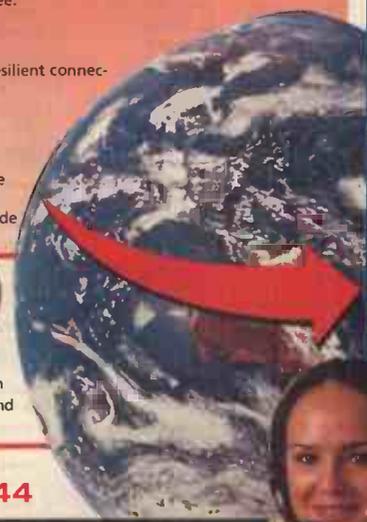
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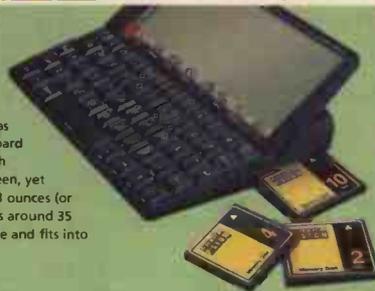
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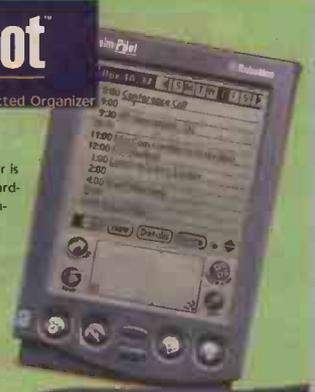
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350AAA HP Brio 350 Inc VAT £997⁸⁰ Ex VAT £849

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- Intel® Pentium™ II Processor 400MHz
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- Matrox® MGA-G100 3D AGP Graphics Accelerator with 4MB SGRAM Video Memory
- 16-Bit Stereo Digital Audio Recording & Playback
- Full Duplex Audio
- SoundBlaster® Pro Compatible
- HP 32X Max-Speed Multiread IDE CD-ROM Drive
- Microsoft® Windows® 98, McAfee® VirusScan™
- HP Standard Keyboard, HP Mouse
- Minitower
- HP 17" Display Colour Monitor (0.28 dot pitch; 15.7" viewable)
- 3 year warranty with first 90 days on-site (next-business-day service for parts and labour)

PAY NOTHING UNTIL MAY THEN PAY ONLY
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Per Month
APR 23.9%

400AAA HP Brio 400 Inc VAT £1115⁰⁸ Ex VAT £949

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- Intel® 440EX AGPset
- 64MB High Performance 100MHz SDRAM
- 8GB Ultra ATA/33 Hard Drive
- ATI 3D Rage Pro Turbo AGP 2X on Board with 4MB SGRAM Video Memory
- 16-Bit Stereo Digital Audio Recording & Playback
- Full Duplex Audio
- SoundBlaster® Pro Compatible
- HP 32X Max-Speed Multiread IDE CD-ROM Drive
- Microsoft® Windows® 98, McAfee® VirusScan™
- HP Enhanced Keyboard (with customisable keys) HP Mouse
- Minitower
- HP 17" Display Colour Monitor (0.28 dot pitch; 15.7" viewable)
- 3 year warranty with first 90 days on-site (next-business-day service for parts and labour)

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HP PC delivery £25. E&OE. All prices exclude delivery, see page 31 for terms and conditions

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Prices shown above are available from 1st February 1999

TOSHIBA NOTEBOOKS

| Toshiba | EX VAT | INC VAT |
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| TOS029 Satellite 4010CDS | 1179.00 | 1385.32 |
| TOS025 Satellite 4010CDT | 1429.00 | 1679.08 |
| TOS146 Tecra 7800DVD | 2359.00 | 2771.83 |
| TOS162 Tecra 8000 PII/233/STN | 1349.00 | 1148.08 |
| TOS163 Tecra 8000 PII/233/TFT | 1519.00 | 1878.82 |
| TOS164 Tecra 8000 PII/266/TFT | 2029.00 | 2384.07 |
| TOS165 Tecra 8000 PII/300/TFT | 2279.00 | 2677.82 |
| TOS166 Tecra 8000 PII/233/TFT/DVD | 2699.00 | 3171.32 |
| TOS026 Protege 3010 CT | 1348.00 | 1583.90 |
| TOS168 Protege 7010 CT | 1940.00 | 2279.50 |
| TOS137 Libretto 1100CT | 1095.00 | 1286.63 |
| TOS019 Libretto 1100CT | 1269.00 | 1491.08 |

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| IBM163 | 15" Colour Stealth Grey | IncVAT £253 ⁸⁰ | ExVAT £216 |
| IBM164 | 17" Colour Pearl White | IncVAT £391 ²⁸ | ExVAT £333 |
| IBM165 | 17" Colour Stealth Grey | IncVAT £423 | ExVAT £360 |
| IBM166 | 19" Colour Pearl White | IncVAT £551 ⁰⁸ | ExVAT £469 |
| IBM167 | 19" Colour Stealth Grey | IncVAT £569 ⁰⁸ | ExVAT £485 |

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- 24 x CD-ROM
- 12.1" STN or TFT 800 x 600 Display
- 2 x type II PC Card (PCMCIA) slots
- One year international warranty



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| TOS160 | Satellite 4000CDS | IncVAT £1173 ⁸² | ExVAT £999 |
| TOS161 | Satellite 4000CDT | IncVAT £1385 ³² | ExVAT £1179 |
| TOS029 | Satellite 4010CDS | IncVAT £1385 ³² | ExVAT £1179 |
| TOS025 | Satellite 4010CDT | IncVAT £1679 ⁰⁷ | ExVAT £1429 |

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Prices exclude monitor see left for options

| Stock Code | Processor | RAM (Std/Max) | Hard Disk | Price |
|------------|--------------------|---------------|---------------------------------|------------------------------------|
| IBM309 | Pentium II/ 350MHz | 32Mb/ 384Mb | 3.2Gb/Ultra ATA with S.M.A.R.T. | £809.58 Inc. VAT £689 ex. VAT |
| IBM307 | Pentium II/ 400MHz | 32Mb/ 384Mb | 3.2Gb/Ultra ATA with S.M.A.R.T. | £1180.88 Inc. VAT £1005 ex. VAT |
| IBM308 | Pentium II/ 450MHz | 64Mb/ 384Mb | 6.4Gb/Ultra ATA with S.M.A.R.T. | £1432.33 Inc. VAT £1219 ex. VAT |

PC-A150



- Weighs just 1.4Kg
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- B5 size format
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- Laplink 7.5 bundle

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| SHA016 | Sharp PC-A150 | IncVAT £2109 ¹³ | ExVAT £1795 |
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HC-4600

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| SHA017 | Sharp GC-4600 | IncVAT £515 ⁸³ | ExVAT £439 |
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- 2 x type II PC Card (PCMCIA) slots
- Three year international warranty



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|--------|----------------------------------|----------------------------|-------------|
| TOS162 | Tecra 8000 PII / 233 / STN | IncVAT £1148 ⁰⁸ | ExVAT £1349 |
| TOS163 | Tecra 8000 PII / 233 / TFT | IncVAT £1784 ⁸³ | ExVAT £1519 |
| TOS164 | Tecra 8000 PII / 266 / TFT | IncVAT £2384 ⁰⁷ | ExVAT £2029 |
| TOS165 | Tecra 8000 PII / 300 / TFT | IncVAT £2677 ⁸² | ExVAT £2279 |
| TOS166 | Tecra 8000 PII / 233 / TFT / DVD | IncVAT £3171 ³² | ExVAT £2699 |

FOR MORE INFORMATION SEE OUR WEB SITE AT:
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- Multimedia features: NeoMagic® MagicGraph256av(TM) 256-bit video, 24X-10X CD-ROM, MPEG-1 video playback, Altec Lansing stereo speakers
- Windows 98

| Stock Code | Processor | RAM (Std/Max) | Hard Disk | Display | Price |
|------------|------------------------------------|---------------|-----------|------------------------------------|---------------------------------------|
| IBM262 | Pentium with MMX technology/233MHz | 32Mb/256Mb | 3.2Gb | 12.1" 800x600 TFT - active matrix | £1173.83 Inc. VAT £999 ex. VAT |
| IBM280 | Mobile Pentium II/ 233MHz | 32Mb/256Mb | 3.2Gb | 12.1" 800x600 TFT - active matrix | £1351.19 Inc. VAT £1149.95 ex. VAT |
| IBM281 | Mobile Pentium II/ 266MHz | 64Mb/256Mb | 4.3Gb | 14.1" 1024x768 TFT - active matrix | £2090.33 Inc. VAT £1779 ex. VAT |

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| UMA044 | ActionBook 330T | IncVAT £1056 ³³ | ExVAT £899 |
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TravelMate 312T - Under half the size of conventional notebooks, and is a revolution in its amazing computing power, packed into an ultra lightweight and compact design.



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| Code | Model | Processor | Memory (Std/Max) | Hard Disk | CD-ROM | Display | Inc VAT | Ex VAT |
|--------|-------------|------------|------------------|-----------|----------|---------|----------|--------|
| ACE045 | TrvMat 312T | P233MHz | 32MB | 3.2MB | Ext. 24x | 8.4" | £1291.33 | |
| ACE029 | Ext 501 DX | P266MHz | 32MB | 3.2GB | 20x Max | 12.1" | £1115.08 | £949 |
| ACE048 | Ext 501T | P266MHz | 32MB | 3.2GB | 20x Max | 12.1" | £1173.83 | £999 |
| ACE050 | Ext 712 TEV | PII 300MHz | 64MB | 5.0GB | 2 x DVD | 13.3" | £2525.08 | £2149 |
| ACE036 | Ext 711TE | PII 266MHz | 64MB | 4.0GB | 24x Max | 13.3" | £1855.33 | |

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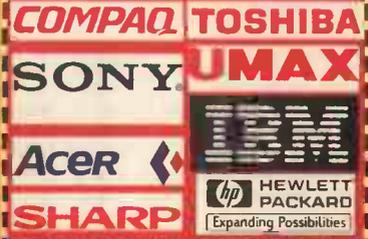
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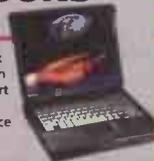
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| Stock Code | FUJ053 | FUJ054 | FUJ059 | FUJ0460 | FUJ061 |
|------------------|----------------|-------------------|-------------------|-------------------|-------------------|
| Processor | Celeron 333LX | Pentium II 350 | Pentium II 350 | Pentium II 400 | Pentium II 450 |
| Intel Chipset | LX | BX | BX | BX | BX |
| RAM | 32MB SDRAM | 32MB SDRAM | 64MB SDRAM | 64MB SDRAM | 64MB SDRAM |
| Hard Disk (UDMA) | 4.3GB | 4.3GB | 6.4GB | 6.4GB | 6.4GB |
| CD-ROM | none | 32 speed | 32 speed | 32 speed | 32 speed |
| Display adapter | ATI 3D Charger | ATI 3D Xpert98 x2 |
| Video Memory | 4MB AGP | 8MB AGP | 8MB AGP | 8MB AGP | 8MB AGP |
| Bundled Software | 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 |
| Bundled Software | MS Works 4.0 | MS Works 4.0 | MS Works 4.0 | MS Works 4.0 | MS Works 4.0 |
| Price Ex. VAT | £449.00 | £599.00 | £699.00 | £799.00 | £899.00 |
| Inc. VAT | £527.58 | £703.83 | £821.33 | £938.83 | £1056.33 |

COMPAQ NOTEBOOKS

ARMADA 1700

The Armada 1700 Family is the first Compaq value notebook to utilise Intel Mobile Pentium II processors and, building on the outstanding legacy of the Armada 1500, features support for simultaneous CD-ROM, floppy, hard drive AND also an internal AC Adapter. The new Armada1700 has an abundance of features designed to deliver solid performance for mainstream mobile users.



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| COM066 Armada 1700, 233MHz, 512Kb, 32MB, 4.0GB 12.1" | INC VAT £1408⁸³ | EVAT £1199 |
| COM082 Armada 1700, 266MHz, 512Kb, 32 MB, 4.0GB, 13.1" | INC VAT £1820⁸³ | EVAT £1549 |
| COM083 Armada 1700, 300MHz, 512Kb, 32 MB, 5.0GB, 14.1" | INC VAT £2231³³ | EVAT £1899 |

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- 505FX
 - Light 1.3kg Notebook 500 series
 - Dimensions: 259 x 23.9 x 208mm (W x D x H)
 - Intel Pentium 266 MHz processor with MMX technology
 - 32Mb SDRAM and 256 Kb multibank DRAM
 - 4.3 GB hard drive
 - External CD ROM drive & floppy
 - 10.4" (26.4cm) TFT colour display.
 - 4 in 1 PC Card modem 56 Kbps, GSM data, ISDN, Ethernet ready.
 - Microsoft Windows 98, plus special Sony Software and recovery CD
 - Port replicator, PC card slot, i-Link (IEEE1394) port
 - 84 keys, 12 function keys, hot keys & touch pad
- 505 FXLITE
 - Same as 505FX but without CD ROM drive and 4 in 1 PC card modem



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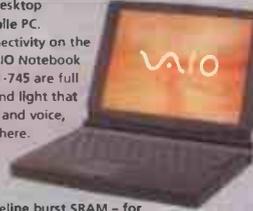
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| SON118 Sony Vaio 505FX Lite..... | INC VAT £1643⁸³ | EVAT £1399 |
| SON117 Sony Vaio 505FX..... | INC VAT £2055⁸³ | EVAT £1749 |

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- 12.1" LCD colour display - for high visual impact
- 747 - 1024 x 768 TFT (XGA) 745 - 800 x 600 Dual Scan (SVGA)
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| TAS336 TAS BOOKS 95/NT MU/1LIC | £169.36 | £199.00 |
| TAS337 TAS BOOKS 95/NT 1UR/M LIC | £169.36 | £199.00 |
| TAS338 TAS BOOKS 95/NT Mur/M Lic | £211.91 | £248.99 |
| Microsoft | | |
| MIC884 MS MONEY 98 FINANCI SUITE | £34.95 | £41.07 |
| MS1267 MS MONEY 99 FINANCIAL STU | £34.03 | £39.99 |
| MS1268 MS MONEY 99 PP STANDARD | £19.95 | £23.44 |

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| Pegasus | | |
| PEG004 PEGASUS CAPITAL LITE -ACC | £79.00 | £92.83 |
| PEG005 PEGASUS CAPITAL Lite PAYRD | £79.00 | £92.83 |
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| Sage | | |
| SAG097 INSTANT PAYROLL 98 | £84.25 | £98.99 |
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| SAG099 INSTANT FINANCE SUITE 98 | £147.67 | £173.51 |
| SAG101 INSTANT ACCOUNTING 98 U/G | £40.25 | £47.29 |
| SAG109 LINE 50 ACCOUNTANT V5 WIN | £375.00 | £440.63 |
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| SAG115 LINE 50 FIN/CONTR V5 CDR | £800.00 | £940.00 |
| SAG116 LINE 50 FIN/CONTR N/W V5 | £1,650.00 | £1,938.75 |

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| Edge | | |
| EDG024 PROTECTOR ANTI VIRUS SPEC | £9.95 | £11.69 |

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| INT226 LANOSK V6.2 10 USER | £449.00 | £527.58 |

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| McAfee | | |
| MCA033 MCAFEE VIRUS SCAN V3.0 | £24.95 | £29.32 |
| MCA035 MCAFEE VIRUS SCAN DELUX 3 | £29.95 | £35.19 |
| MCA038 VIRUSSCAN Sini V3.0 10USER | £299.00 | £351.33 |
| MCA046 VIRUS SCAN SECURITY SUITE | £42.55 | £50.00 |
| MCA058 VIRUSSCAN ELCTRC/WEBSKAN X | £19.95 | £23.44 |
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| Developer | MIC690 £519.95 (Inc. VAT £610.94) | MIC691 £329.95 (Inc. VAT £387.69) |
| Developer U/G from Office 97 | | MIC693 £192.95 (Inc. VAT £228.72) |
| MS Office'97 SBE Competitive U/G | | MS1054 £147.95 (Inc. VAT £173.84) |
| MS Office'97 SBE | | MS1087 £324.95 (Inc. VAT £381.82) |

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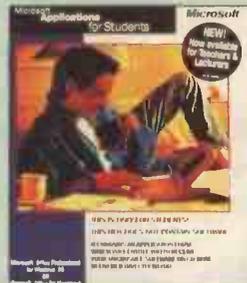
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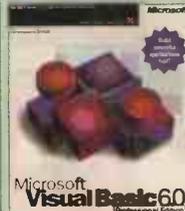
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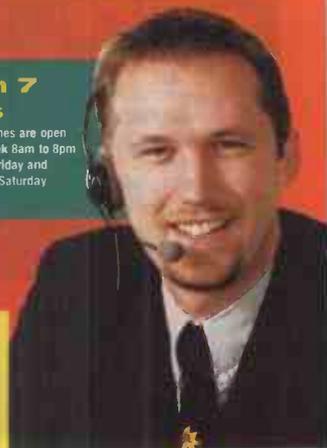
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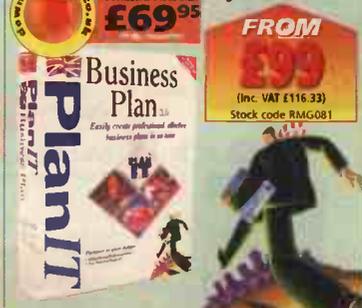
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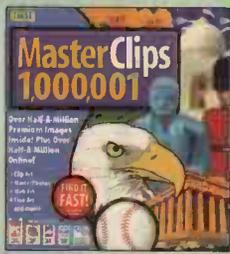
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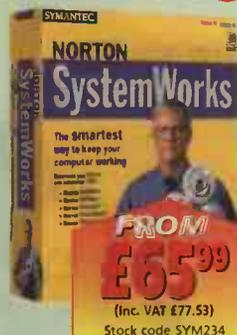
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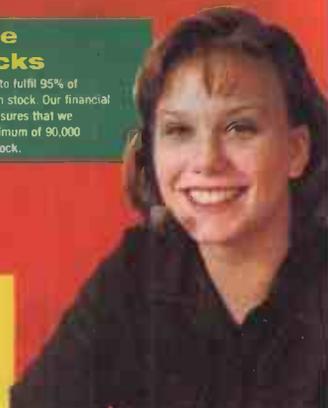
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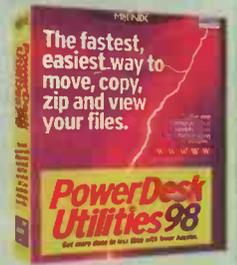


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| TRP009 A4 Colour Inkjet Paper | 200s | £8.21 | £6.99 |
| TRP011 A4 Ultra White Inkjet Paper | 500s | £11.74 | £9.99 |

PLANET'S NETWORK IN A BOX FROM £69

- Features**
- 1x8 port 10Base-T Hub with 1 BNC
 - 3x10 Base-T cards (Plug 'n Play)
 - 3x5meter RJ45 patch leads
 - Both PCI and ISA versions available

| | | | |
|--------------------------------|-----------------------|------------------|------------------------------|
| PLA062 Network Starter Kit ISA | INC VAT £81.08 | EXVAT £69 | Lowest priced hubs in the UK |
| PLA063 Network Starter Kit PCI | INC VAT £99.88 | EXVAT £85 | |

| | | |
|--|-----------------------|---------------------|
| BEL125 IEEE 1284 Printer 1.8m (Gold) | INC VAT £17.91 | EXVAT £14.99 |
| BEL126 IEEE 1284 Printer 3m (Gold) | INC VAT £19.96 | EXVAT £16.99 |
| BEL025 IEEE 1284 A-B Parallel Printer 1.8m | INC VAT £14.99 | EXVAT £11.99 |
| BEL026 IEEE 1284 A-B Parallel Printer 3m | INC VAT £17.91 | EXVAT £14.99 |



SOFTWARE WAREHOUSE

LOW PRICE INDEX PERIPHERALS

IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!*

THE UK'S NO.1 FOR HP PRINTERS

DeskJet 420C

The most affordable first time printer.



DeskJet 695C

- Up to 5ppm/black
- Up to 1.7ppm/colour
- 600 x 600 dpi black
- 600 x 300 dpi colour
- RealLife Imaging System



DeskJet 720C

Looking for a business printer that gives you sharper, realistic colour for everything you print?



DeskJet 895CXI

- KEY FEATURES**
- Photo quality printing on a wide range of media with improved HP PhotoRet II
 - Sharp, crisp text with HP pigment black ink



OfficeJet 635

All-in-One - Print, Copy, Scan in Colour - Fax



LaserJet 3100

The personal LaserJet All-in-One that effectively delivers professional documents for business communications



HP LaserJet 6P

Professional, high quality printing



HWP088 HP LaserJet 6MP **incVAT £660.35** **exVAT £562**

HWP358 HP DeskJet 1120c (A3) **incVAT £334.80** **exVAT £285**

HWP318 HP LaserJet 4000N **incVAT £870.60** **exVAT £741**

HWP374 HP LaserJet 8000 **incVAT £1184.40** **exVAT £1008**

FOR MORE INFORMATION SEE OUR WEB SITE AT: www.software-warehouse.co.uk/hp

OfficeJet 700

The HP All-in-One product that makes it easy to do your work and communicate in colour.

- Colour printer, colour fax, colour scanner, colour copier
- Easy to use software - move between functions with a single mouse click
- Photo-quality printing with HP PhotoRet
- Colour faxing for the first time in an HP All-in-One!
- Easy scan and edit documents and photos
- Edit scanned documents and forms using OCR software



LaserJet 1100/A

Quickly print professional-looking documents at your desk

- Produce output at a fast 8ppm
 - Deliver professional results with true 600dpi laser, HP Resolution Enhanced technology (RET) and HP UltraPrecise toner cartridge
- Advance your desktop possibilities and efficiency
- Add tools to your desktop with copier/scanner attachment
 - Increase printer memory up to 18MB



HWP522 HP LaserJet 1100A+scanner **incVAT £334.87** **exVAT £285**

HP 2000C/CN

The professional consultant that lets you get down to business with breakthrough colour print speed.

- KEY FEATURES**
- Upto 10ppm mono
 - New Modular Ink Delivery System
 - 4 high capacity ink cartridges and 4 long-life printheads
 - Ink level indicator
 - Transparency sensor and job cancel button
 - HP 2000CN version: includes HP 2000C printer, HP JetDirect 300X print server and 250 sheet accessory paper tray

Upto 5 times faster than 690C



HWP456 HP 2000CN **incVAT £793.33** **exVAT £675**

HP 2500C

Professional Series Colour Printer

- KEY FEATURES**
- Seamless workgroup integration with robust networking features
 - Stunning cost savings & speed gains with HP's new Modular Ink Delivery System and Smart Printing Technology
 - Brilliant photo quality colour up to A3 oversize)



ONLY £705

(inc. VAT £828.38)
Stock code HWP480

OKIPAGE 4w Plus

Features

- Manual feed for envelopes
- 4 pages per minute LED page printer
- Improved Windows 3.1/95 driver
- 600 dpi output
- Microfine toner
- Windows NT 4.0 driver
- Small footprint (smaller than A4)
- 12 months on-site warranty

NOW £135
(inc. VAT £158.62)
Stock code OKI021

OKIPAGE 8p

Features

- 600 x 1200 dpi resolution
- 8 pages per minute: Fast performance
- 2 Mbyte memory upgradeable to 6 Mbytes
- HP LaserJet6p(PCL6), IBM Proprinter, Epson FX emulation co-resident
- DOS, Windows 3.1x, Windows 95/98 and Windows NT4.0 compatible
- 12 months on-site warranty

printer software special

NOW £184
(inc. VAT £216.20)

OKIPAGE 10ex

Features

- 600 x 1200 dpi resolution
- 10 pages per minute: Fast performance
- 2 Mbyte memory upgradeable to 35Mb
- HP LaserJet6p(PCL6), IBM Proprinter, Epson FX emulation co-resident
- DOS, Windows 3.1x, Windows 95/98 and Windows NT4.0 compatible
- 12 months on-site warranty

NOW £239
(inc. VAT £280.83)
Stock code OKI060

OKIPAGE 12i/n

Features

- 600 x 1200 dpi resolution
- 12 pages per minute: Fast performance
- 10 base T network interface
- 4 Mbyte memory upgradeable to 36 Mbytes
- HP LaserJet6p(PCL6), Adobe PostScript Level II, IBM Proprinter, Epson FX emulation co-resident
- DOS, Windows 3.1x, Windows 95/98, Windows NT4.0 and Macintosh compatible
- 12 months on-site warranty

NOW £410
(inc. VAT £481.75)
Stock code OKI062

OKI061 OKIPAGE 10exs **incVAT £316.08** **exVAT £269**

FOR MORE INFORMATION SEE OUR WEB SITE AT: www.software-warehouse.co.uk/oki

PRINTER CONSUMABLES

| | EX VAT | INC VAT |
|----------------------------------|--------|---------|
| Epson | | |
| EPS183 PHOTO PAPER (4"x6") 20 SH | £4.00 | £4.70 |
| EPS184 A2 PHOTO QUAL GLOSS 20SHT | £25.00 | £29.38 |
| EPS189 5"x8" PHOTO QUAL CARD 30" | £4.00 | £4.70 |
| EPS190 8x10" PHOTO QUAL CARD 30" | £10.00 | £11.75 |
| EPS198 PHOTO QUAL BANNER 15M | £17.00 | £19.98 |
| EPS199 EPSON CANVAS CLOTH ROLL | £30.00 | £35.25 |
| EPS224 A3 PHOTO QUAL GLOSSY 20 S | £14.00 | £16.45 |
| EPS281 A4 PHOTO PAPER (20 SHTS) | £6.00 | £7.05 |

| | EX VAT | INC VAT |
|----------------------------------|---------|---------|
| Fuji | | |
| FUJ007 FUJI NC-3D PAPER 400 SHEE | £130.00 | £152.75 |
| FUJ010 FUJI NC-3D 20 SHEET PAPER | £8.00 | £9.40 |

| HP Compatible - Generic | | |
|----------------------------------|-------|-------|
| HEA010 720DPI A4 MATT 20 PHOTO | £2.00 | £2.35 |
| HEA012 1440DPI PRO A4 INKJET 20 | £2.00 | £2.35 |
| HEA013 1440DPI PRO A4 INKJET 20 | £5.00 | £5.88 |
| HEA014 PRESENTATION WHIT 100g 50 | £1.00 | £1.18 |
| HEA015 PRESENTATION WHIT 100g 20 | £1.00 | £1.18 |
| HEA016 PHOTO PLUS GLOSSY | £5.00 | £5.88 |
| HEA017 TOPCOPY CARD WHITE | £1.00 | £1.18 |
| HEA018 T-SHIRT TRANSFER A4 | £5.00 | £5.88 |
| HEA020 RAINBOW TINTS NATURAL 5 | £3.00 | £3.53 |
| HEA021 RAINBOW TINTS VIVID 5PK | £3.00 | £3.53 |
| HEA022 A4 360DPI INKJET 250PK | £3.00 | £3.53 |

| Hewlett-Packard | | |
|-----------------------------------|---------|---------|
| HWP015 HP 820/50/70/90 1600 BLK | £17.00 | £19.98 |
| HWP018 HEW/PACK 1600 CYAN/COLOUR | £18.00 | £21.15 |
| HWP019 HEW/PACK 1600 YELLOW/CART | £18.00 | £21.15 |
| HWP030 HP SUP/DSKJET/WRITE600/850 | £59.00 | £69.33 |
| HWP044 HP DESIGNJET 660C CYAN | £22.00 | £25.85 |
| HWP047 HP SSI TONER CARTRIDGE | £92.00 | £108.10 |
| HWP050 HP 5L/6L/3100 TONER CART | £32.00 | £37.60 |
| HWP051 HP 5P/MP 6P/MP LASERTONER | £42.00 | £49.35 |
| HWP052 HP TONER CART II+D/III+D | £42.00 | £49.35 |
| HWP053 HP LJ TONER HP/III/HP | £49.00 | £57.58 |
| HWP054 HP 4W/4M TONER CART | £80.00 | £94.00 |
| HWP055 HP TONER CART IIIS/4SI | £63.00 | £74.03 |
| HWP056 HP TONER CART 4/M 5/M 6/M | £47.00 | £55.23 |
| HWP057 HP TONER 4L/4ML/4P/4MP | £40.00 | £47.00 |
| HWP061 HP COL CART 870/820CXI | £18.00 | £21.15 |
| HWP062 HP 500/400L DJ BLK CART | £17.00 | £19.98 |
| HWP063 HP 340/400/5XX COLOR CART | £19.00 | £22.33 |
| HWP069 DESKJET 310/320/340 BLK | £15.00 | £17.63 |
| HWP070 HP LJ 8500 BLACK TONER | £60.00 | £70.50 |
| HWP084 HP 1600 MAGENTA CARTRIDGE | £17.00 | £19.98 |
| HWP087 BATTERY FOR HP340 PRINTER | £23.00 | £27.03 |
| HWP091 DUPLEX FOR HP LASERJET/SSI | £331.00 | £388.93 |
| HWP095 HP 340 INFRARED ADAPTOR | £25.00 | £29.38 |
| HWP096 HP 340 CARRY CASE | £41.00 | £48.18 |
| HWP097 HP 340 L/P PARALLEL CABLE | £9.00 | £10.58 |
| HWP098 HP COPY/DESIGNJET BLK CTR | £17.00 | £19.98 |
| HWP099 HP 600 SERIES BLK INK CAR | £17.00 | £19.98 |

FREE* £129.90 worth of software with every printer

- PhotoStudio v.2.02 RRP £79**
- PhotoFantasy 1.5 and PhotoPrinter 1.0 RRP £49**



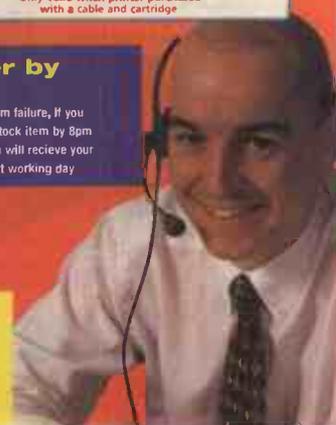
Packshots for illustration purposes only. *Only valid when printer purchased with a cable and cartridge

Order by 8pm

Barring system failure, if you order an in-stock item by 8pm (Mon-Fri) you will receive your order the next working day

Freephone 0800 0355 355

*Next-day delivery from £6.95 E&OE. All prices exclude delivery, see page 31 for terms and conditions



PRINTERS & CONSUMABLES

| Canon | EX VAT | INC VAT |
|------------------------------------|--------|---------|
| CAN078 A4 SHEET FEEDER CAN-5500 | £79.00 | £92.83 |
| CAN079 PHOTO CART FOR BJC-7000 | £28.00 | £32.90 |
| CAN081 3YR ONSITE WRNTY 4000rang | £67.00 | £78.73 |
| CAN087 BJC-4300 COLOUR INK CART | £25.00 | £29.38 |
| CAN088 CANON BAT PACK BJC80 | £65.00 | £76.38 |
| CAN090 CANON BJC4650 3YRS ONSITE | £67.00 | £78.73 |
| EPSON092 CANON BJC-4650 SCANNER CA | £65.00 | £76.38 |
| CAN094 BJC70/80 3 COLOUR CART | £22.00 | £25.85 |
| CAN095 SECOND A4 ASF BJC-5500 | £64.00 | £75.20 |
| CAN107 CANON BJC-50 SCAN CARTRDI | £73.00 | £85.78 |

| Epson | EX VAT | INC VAT |
|-------------------------------------|---------|---------|
| EPSON19 EPSON STYLUS COLOUR KIT | £29.00 | £34.08 |
| EPSON36 STYLUS 820/11/11S/200 BLK | £10.00 | £11.75 |
| EPSON37 820/11/11S/1500 COLOR CAR | £15.00 | £17.63 |
| EPSON43 EPSON TONER CART/EPL5500 | £24.00 | £28.20 |
| EPSON47 PUSH TRACTOR FOR LQ100+ | £21.00 | £24.68 |
| EPSON48 EPL/LQ100+ FABRIC RIBBON | £3.00 | £3.53 |
| EPSON53 STYLUS COLOR/PRO/XL+ BLK | £8.00 | £9.40 |
| EPSON54 EPL/STYLUS PRO/XL COLcart | £16.00 | £18.80 |
| EPSON56 EPSON SERIAL I/F | £25.00 | £29.38 |
| EPSON57 EPSON SERIAL I/F 32K | £68.00 | £79.90 |
| EPSON59 GROUP 1 RTB 3 YEAR WARRANT | £21.00 | £24.68 |
| EPSON60 GROUP 2 COVERPLUS 3YR | £29.00 | £34.08 |
| EPSON61 GROUP 3 COVERPLUS 3YR | £48.00 | £56.40 |
| EPSON62 GROUP 4 COVERPLUS 3YR | £80.00 | £94.00 |
| EPSON63 EPSON FX/LX FABRIC RIBBON | £2.00 | £2.35 |
| EPSON65 STLU 400/500/600/PHOTOBK | £13.00 | £15.28 |
| EPSON70 STYLUS 200/500 COLOUR CAR | £16.00 | £18.80 |
| EPSON71 EPL-STYL/1000TRACTOR FEED | £60.00 | £70.50 |
| EPSON73 EPSON EPL-4000 TONER CART | £79.00 | £92.83 |
| EPSON74 EPL/EPL4000photoconductor | £101.00 | £118.68 |
| EPSON75 EPL3000 IMAGING CARTRIDGE | £68.00 | £79.90 |
| EPSON77 EPL 5500/5200photoCONDUCT | £36.00 | £42.30 |
| EPSON78 EPL5000/5200 IMAGING CART | £81.00 | £95.18 |
| EPSON80 EPL/DFX500/8000printSTAND | £139.00 | £163.33 |
| EPSON81 EMULATION INTERFACE EPL5500 | £62.00 | £72.85 |
| EPSON84 LOCAL TLK INTFCE EPL5500 | £61.00 | £71.68 |
| EPSON86 EPSON 2170/2070 BLK RIBBO | £10.00 | £11.75 |
| EPSON89 EPSON 200 COLOUR UPG KIT | £29.00 | £34.08 |
| EPSON90 EPSON LX300 2ND TRAC FEED | £15.00 | £17.63 |
| EPSON93 EPSON RIBBON LQ 200-870 | £3.00 | £3.53 |
| EPSON94 EPSON BLK FILM LQ 200-870 | £6.00 | £7.05 |
| EPSON95 BLACK RIBBON FX1170/1050 | £3.00 | £3.53 |
| EPSON96 EPSON BLK RIBBON DFX D/M | £12.00 | £14.10 |
| EPSON97 EPSON RIBBON REFILL DFX | £10.00 | £11.75 |
| EPSON99 EPL-9000 IMAGING CARTRIDG | £138.00 | £162.15 |
| EPSON110 POSTSCRIPT S/W PC XL+ | £93.00 | £109.28 |
| EPSON111 STYLUS 400/800+/1000 BLK | £6.00 | £7.05 |
| EPSON113 EPSON 1500 BLACK INK CART | £24.00 | £28.20 |
| EPSON114 GROUP 5 COVERPLUS 3YR | £141.00 | £165.68 |
| EPSON115 GROUP 6 COVERPLUS 3YR | £220.00 | £258.50 |
| EPSON118 EPSON PAPERROLL HOLDER | £36.00 | £42.30 |
| EPSON119 LX300 COLOUR UPGRADE KIT | £26.00 | £30.55 |
| EPSON120 LX300 COLOUR RIBBON | £12.00 | £14.10 |
| EPSON121 LQ300 COLOR UPGRADE KIT | £29.00 | £34.08 |
| EPSON130 EPL5600/1200 TONER CART | £59.00 | £69.33 |
| EPSON131 EPSON 1200 A4 500 CSF | £150.00 | £176.25 |
| EPSON140 HIGH CAPACITY CSF 870/570 | £111.00 | £130.43 |
| EPSON143 COLOUR INK 4/6/8/850/1520 | £13.00 | £15.28 |
| EPSON145 STYLUS 800/850/1520 BLK | £14.00 | £16.45 |
| EPSON151 EPSON ETHERNET INTERFACE | £257.00 | £301.98 |
| EPSON152 POSTSCRIPT S/W MAC PRO XL | £93.00 | £109.28 |
| EPSON156 STYLUS PRO XL+ COLOR CART | £16.00 | £18.80 |
| EPSON157 1520/800 POSTSCRIPT 4 MAC | £88.00 | £103.40 |
| EPSON161 PULL TRACTOR FOR LQ570+ | £34.00 | £39.95 |

ONE STOP COMPUTER SHOPPING

NEW EPSON STYLUS COLOR 900/900N

Fastest Colour inkjet for Stand-Alone, Work groups and Networked Users

- EPSON Ultra MicroDot™ the worlds smallest ink drop size in black and colour
- 1440dpi printing on plain paper
- High capacity dual ink cartridges for volume printing

ONLY £261
(Inc. VAT £306.68)
Stock code EPS292



NEW PRODUCT

NEW EPSON STYLUS COLOR 750

Highest quality photo printer for everyday printing needs

- EPSON Ultra MicroDot™
- 1440dpi with variable-sized Droplet technology
- EPSON PhotoEnhance 3 for Optimisation of digital images
- Optimised photo quality

ONLY £177
(Inc. VAT £207.98)
Stock code EPS293



NEW PRODUCT

NEW EPSON STYLUS COLOR 740

State-of-the-Art Colour Inkjet Printer for Advanced Home and Business Users

~~ONLY £210~~
(Inc. VAT £252)

NOW £147
(Inc. VAT £172.73)
Stock code EPS262



EPSON264 EPSON stylus colour 440 Inc.VAT **£112.80** Ex.VAT **£96**

NEW EPSON STYLUS COLOR 640

Superior Colour Inkjet Printer For a Broad Range of Home Applications. Outstanding value for the home.

- 1440dpi colour & true black printing with EPSON Super MicroDot™
- EPSON PhotoEnhance 3 for Optimisation of Digital Images
- Advanced Dual-Cartridge Ink System

ONLY £118
(Inc. VAT £138.65)
Stock code EPS263



EPSON245 EPSON stylus photo 700 Inc.VAT **£156.28** Ex.VAT **£133**

FOR MORE INFORMATION SEE OUR WEB SITE AT: www.software-warehouse.co.uk/epson

Free Movie Rental Until the year 2000

Canon

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 you Blockbuster video store for up to a year.

- Maximum of 52 rentals
- 1 per week from date of first rental
- Until 31st December 1999
- Offer subject to availability

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



BJC 5000

Canon's new professional business printer

- Unique dual cartridge system enables high speed printing
- Rapid 7.5ppm mono and 3.0ppm colour output
- New Drop Modulation Technology™ maximises printing quality for colour and photo images



BJC 250

Everyday printing that's out of the ordinary

- Up to 3.4 pages per minute
- Free colour cartridge
- Optional photo cartridge

JUST £73
(Inc. VAT £85.74)
Stock code CAN055



BJC 4300

Intense colour that shines out every time

- Versatile home or small office printer
- Optional photo & colour image scanner cartridges
- One Year return to Canon Warranty

ONLY £23
(Inc. VAT £23.38)
Stock code CAN059



BJC 4650

The intelligent choice for A3 output

- Exceptional quality A3 capable printer
- PC and Mac compatibility
- One Year return to Canon Warranty
- Image optimizer technology improves quality of low resolution

JUST £99
(Inc. VAT £118.83)
Stock code CAN102



CAN099 Canon FB320P Scanner Inc.VAT **£88.13** Ex.VAT **£75**

CAN085 Canon Powershot Inc.VAT **£464.11** Ex.VAT **£395**

FOR MORE INFORMATION SEE OUR WEB SITE AT: www.software-warehouse.co.uk/canon

FREE* £129⁹⁸ worth of software with every printer

- PhotoStudio V.2.02 RRP £79*
- PhotoFantasy 1.5 and PhotoPrinter1.0 RRP £49*



*Only valid when printer purchased with a cable and cartridge

FS-600 6ppm Personal Printer

This compact yet robust printer is ideal for single users but can be easily upgraded for sharing by small workgroups.

| | |
|------------------------|----------------------------|
| Print Speed | 6ppm |
| Resolution | 600dpi enhanced to 1200dpi |
| Standard emulations | PCL 5e, |
| Processor | 50MHz Power PC |
| Standard / max. memory | 2 / 34Mb |

KY0021 Kyocera FS-600 Inc.VAT **£269.08** Ex.VAT **£229**

FS-800 8ppm Personal Printer

This compact printer is ideal for small workgroups or individual users with higher volumes and more demanding applications.

| | |
|------------------------|----------------------------|
| Print Speed | 8ppm |
| Resolution | 600dpi enhanced to 1200dpi |
| Processor | 50MHz Power PC |
| Standard / max. memory | 4 / 36Mb |
| Standard paper input | 150-sheet cassette |

KY00243 Kyocera FS-800 Inc.VAT **£398.23** Ex.VAT **£339**

FS-1700+ 12ppm Laser Printer

The FS-1700 laser printer is ideal for mid-volume network and workgroup printing.

| | |
|------------------------|-----------------------------------|
| Print Speed | 12ppm |
| Resolution | 600dpi enhanced to 1200dpi |
| Connectivity | Full SNMP support for PC networks |
| Processor | 66MHz |
| Standard / max. memory | 4 / 68Mb |
| Standard paper input | 250 cassette, 100 multi-purpose |

KY0013 Kyocera FS-1700+ Inc.VAT **£609.83** Ex.VAT **£519**

FS-3700+ 18ppm Laser Printer

This 18ppm printer is ideal for higher volume network printing, with a high speed processor for maximum performance.

| | |
|------------------------|-----------------------------------|
| Print Speed | 18ppm |
| Resolution | 600dpi enhanced to 1200dpi |
| Connectivity | Full SNMP support for PC networks |
| Processor | 100MHz Power PC |
| Standard / max. memory | 4 / 68Mb |

KY0042 Kyocera FS-3700+ Inc.VAT **£938.83** Ex.VAT **£799**



SOFTWARE WAREHOUSE

LOW PRICE INDEX
PERIPHERALS/COMPONENTS

IF YOU CAN FIND IT CHEAPER CALL US - WE WON'T BE BEATEN!*

Brother HL-820 brother.

Robust, low cost Windows® only printer.
Ideal for the small office or home user.

- Key Features**
- 8 pages per minute
 - 600dpi print resolution
 - Windows® dedicated printing
 - 2Mb of standard memory
 - 200 sheet paper input
 - Semi automatic double sided printing
 - Intelligent sleep mode



BRO081 HL-820 IncVAT **£186⁸³** EVAT **£159**

Lexmark 1100

High colour performance for every budget!

- Up to 600 x 600 dpi resolution
- Ready for Windows 98

| | | | |
|--------|------|---------------------------------|-------------------------------|
| LEX058 | 1100 | IncVAT £89⁰⁰ | EVAT £75⁰⁰ |
| LEX059 | 3200 | IncVAT £135⁰⁷ | EVAT £114⁰⁰ |
| LEX047 | 5700 | IncVAT £164⁴⁴ | EVAT £139⁵⁵ |

BRO082 HL-1040 IncVAT **£210³³** EVAT **£179**

BRO082 HLP-2000 IncVAT **£280⁸³** EVAT **£239**

BRO083 HL-1050 IncVAT **£245⁵⁸** EVAT **£209**

BRO088 HL-1050 (8Mb) IncVAT **£263²⁰** EVAT **£224**

BRO084 HL-1070 IncVAT **£323¹³** EVAT **£275**

BRO087 HL-1070 (8Mb) IncVAT **£340⁷⁸** EVAT **£290**

BRO070 HL-1660e IncVAT **£680³³** EVAT **£579**

Optra E+

The highly compact Optra that's big on performance

- 5ppm mono laser printer
- 600 x 600dpi resolution Image Quality output
- 16MHz processor with 2Mb Ram



| | | | |
|--------|--------------|---------------------------------|------------------|
| LEX081 | Optra E+ | IncVAT £245⁵⁷ | EVAT £209 |
| LEX065 | Optra S1255 | IncVAT £750⁸⁵ | EVAT £639 |
| LEX064 | Optra S1255n | IncVAT £938⁸² | EVAT £799 |

HP Scanjet 4100C

No experience required:

The smart friend who makes it easy to add the exciting dimension of scanning to all your projects.



FROM £116
(Inc. VAT £136.30)
Stock code HWP438



HP Scanjet 5200C

No experience required:

Increase your personal productivity by up to three times with fast, high-quality results - at the touch of just one button



FROM £156
(Inc. VAT £183.30)
Stock code HWP567



MICROTEK ScanMaker X6

- 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



36-bit
JUST £149
(Inc. VAT £175.08)
Stock code SCA025

SCA021 Transparent Media Adaptor IncVAT **£88¹³** EVAT **£75**

MICROTEK Phantom 336CX USB

- 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!!



36-bit
ONLY £75
(Inc. VAT £88.13)
Stock code SCA022

GT-7000 Colour Scanner

Easy-to-use, high quality 9600dpi scanner with Start Button for one touch

- High Quality 600 x 2400dpi 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



| | | | |
|--------|------------------------------|---------------------------------|------------------|
| EPS269 | GT-7000 Scanner | IncVAT £172⁷³ | EVAT £147 |
| EPS107 | GT-7000 Photo + film adapter | IncVAT £231⁴⁸ | EVAT £197 |

UMAX Astra 1220S

Single pass colour Flatbed Scanner

The Astra 1220 colour scanners from Umax is possibly the easiest scanner you'll ever use. With Vistascan automated scanner control software just place your image on the scanner and in one simple step it's in your computer and ready to go. High quality is assured with true 36 bit output, and all at super quick speed. The UMAX Astra 1220P also includes Magic Match, an automatic colour calibration profile and Kodak colour management system for consistent colours from scan, display to print.

- Features**
- 36-bit technology
 - 69 billion colours
 - Optical resolution: 600 x 1200 dpi
 - Max resolution: 9,600 x 9,600 dpi
 - 8.5"x11.7" max scan area
 - Prestol PageManager: All-in-one scanning solution
 - UMAX Copy Utility: Turns your printer into a copy machine
 - Omnipage Direct OCR software

| | | | |
|--------|----------------------------|---------------------------------|-------------------------------|
| UMA041 | Astra 1220U (USB) | IncVAT £98⁹⁵ | EVAT £84²⁵ |
| UMA037 | Astra 1220P+Photoshop LE | IncVAT £135¹² | EVAT £115 |
| UMA031 | Astra 1220S | IncVAT £149 | EVAT £126⁸¹ |
| UMA033 | Astra 1220S+PhotoshopLE | IncVAT £186⁸³ | EVAT £159 |
| UMA035 | 1220 Series Tranny Adaptor | IncVAT £211⁵⁰ | EVAT £180 |

SCANNERS

| | EX VAT | INC VAT |
|----------------------------------|---------|---------|
| Acer | | |
| ACE010 ACER VUEGOSCAN 310P | £47.00 | £55.23 |
| ACE014 ACER VUEGO SCAN 610P | £89.00 | £81.08 |
| ACE051 ACER VUEGOSCAN 610PT PP | £129.00 | £151.58 |
| ACE007 ACERSCAN 610 PLUS FLATBED | £199.00 | £233.83 |
| ACE009 VUEGOSCAN 310S SCSI | £65.00 | £76.38 |
| ACE011 ACER VUEGOSCAN 610S | £115.00 | £135.13 |
| ACE054 ACER 620ST 36BIT A4 | £149.00 | £175.08 |
| ACE040 ACER VUEGOSCAN 310U USB | £59.00 | £69.33 |
| AGF020 SNAPSCAN 310 PARALLEL | £85.00 | £99.88 |

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|---------------------------------|-----------|-----------|
| AGFA | | |
| AGF004 AGFA STUDIOSCAN HSI lite | £369.00 | £433.58 |
| AGF010 AGFA DUOSCAN SCSI | £2,999.95 | £3,524.94 |
| AGF015 AGFA SNAPSCAN 310 SCSI | £95.95 | £112.74 |
| AGF016 AGFA SNAPSCAN 600 NEW | £199.00 | £233.83 |
| AGF017 AGFA ARCUS II SOLO SCSI | £679.00 | £797.83 |
| AGF019 SNAPSCAN 1212U USB | £139.00 | £163.33 |

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|----------------------------------|---------|---------|
| Canon | | |
| CAN086 CANON CANOSCAN FB310 SCAN | £105.00 | £123.38 |
| CAN099 CANON FB320 | £75.00 | £88.13 |

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|---------------------------------|-----------|-----------|
| Epson | | |
| EPS011 EPSON GTX8500 PARALLEL | £369.00 | £433.58 |
| EPS091 GTX 9500 PARALLEL | £446.00 | £524.05 |
| EPS163 EPSON GT9500 PARALLEL | £462.00 | £542.85 |
| EPS092 GTX 9500 SCSI | £469.00 | £551.08 |
| EPS128 EPSON GTX9500 SCSI MAC | £499.00 | £586.33 |
| EPS202 EPSON GTX5500 SCSI WIN | £161.00 | £189.18 |
| EPS211 GT-12000 A3 MAC+PC SCSI | £1,315.95 | £1,546.24 |
| EPS269 EPSON GT-7000 COLOR SCAN | £147.00 | £172.73 |

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|----------------------------------|---------|---------|
| Fuji | | |
| FUJ015 FUJITSU SCAN PARTNER 300C | £699.00 | £821.33 |

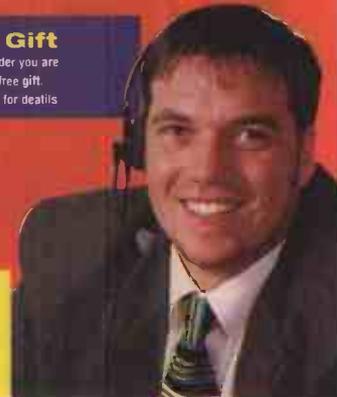
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| Hewlett-Packard | | |
| HWP230 HP SCANJET 5S P/P | £129.00 | £151.58 |
| HWP330 HP SCANJET 5100C | £149.00 | £175.08 |
| HWP243 HP SCANJET 6100C | £434.00 | £509.95 |
| HWP436 HP SCANJET 6200C USB/SCSI | £237.00 | £278.48 |
| HWP437 HP SCANJET 6250C USB/SCSI | £277.00 | £325.48 |
| HWP438 HP SCANJET 4100C USB | £116.00 | £136.30 |

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|----------------------------------|-----------|-----------|
| Microtek | | |
| SCA022 MICROTEK PHANTOM 336CX | £75.00 | £88.13 |
| SCA027 PHANTOM 636 EPP | £129.00 | £151.58 |
| SCA015 MICROTEK SCANMAKER 6400XL | £999.00 | £1,173.83 |
| SCA017 SCANMAKER 9600XL A3 SCAN | £1,675.00 | £1,968.13 |
| SCA018 MICROTEK SCANMAKER 5 | £1,549.00 | £1,820.08 |
| SCA020 MICROTEK SCANMAKER636scsi | £199.00 | £233.83 |
| SCA023 SCANMAKER 330 SCSI | £79.00 | £92.83 |
| SCA025 SCANMAKER X6 SCSI A4 | £179.00 | £210.33 |
| SCA026 SCANMAKER 4 A4 SCSI | £525.00 | £616.88 |

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|----------------------------------|-----------|-----------|
| Umax | | |
| UMA037 ASTRA 1220P+PHOTOSHOP LE | £115.00 | £135.13 |
| UMA038 UMAX ASTRA 1220P SCANNER | £84.25 | £98.99 |
| UMA047 UMAX ASTRA 600P/S 3YR EXT | £49.95 | £58.69 |
| UMA012 UMAX POWERLOOK 2 | £749.00 | £880.08 |
| UMA026 UMAX MIRAGE 2SE A3 | £1,999.00 | £2,348.83 |
| UMA027 UMAX MIRAGE 2 A3 PHOTOSH | £4,999.00 | £5,873.83 |
| UMA028 UMAX ASTRA 610s | £89.00 | £104.58 |
| UMA031 UMAX ASTRA 1220S FLATBED | £126.81 | £149.00 |
| UMA032 UMAX ASTRA 1220S+PHOTOlp | £329.00 | £386.58 |
| UMA033 UMAX ASTRA 1220S+PHOTO LE | £158.00 | £186.83 |
| UMA035 UMAX POWERLOOK 3 | £1,899.00 | £2,231.33 |
| UMA045 UMAX POWERLOOK 3000 (N/M) | £6,999.00 | £8,223.83 |

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ONE STOP COMPUTER SHOPPING

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| ATI059 | ATI XPERT XL 4MB EDD | £39.95 | £46.94 |
| ATI060 | ATI XPERT 96 8MB SDRAMagp | £39.95 | £46.94 |
| ATI063 | ALL IN WONDER PRO 8MB AGP | £119.95 | £140.94 |
| ATI064 | XPERT@WORK 4MB AGP | £47.95 | £56.34 |
| ATI039 | XPERT @ WORK 3D 4MB PCI | £99.00 | £116.33 |
| ATI040 | XPERT @ WORK 3D 8MB AGP | £62.95 | £73.97 |
| ATI044 | XPERT @PLAY 4MB 3D TV AGP | £69.99 | £82.24 |
| ATI054 | ALL IN WONDER 4MB AGP OEM | £99.95 | £117.44 |
| ATI055 | ALL IN WONDER 8MB AGP OEM | £129.95 | £152.69 |
| ATI053 | 3D CHARGER AGP 4MB OEM | £29.99 | £35.24 |
| NTW150 | ATI XPERT@PLAY 4MB AGP | £69.95 | £82.19 |
| ATI052 | ALL IN WONDER 4MB PCI DEM | £99.95 | £117.44 |
| ATI053 | ALL IN WONDER 8MB PCI DEM | £110.00 | £129.25 |
| NTW129 | ATI XPERT@WORK 4MB PCI | £54.95 | £64.57 |
| NTW313 | ATI 3D CHARGER 4Mb PCI | £32.95 | £38.72 |
| ATI031 | ATI VIDEO BOOST 1MB EDD | £19.95 | £23.44 |
| ATI041 | XPERT @ WORK 4MB PCI OEM | £44.95 | £52.82 |
| ATI042 | XPERT @ WORK 8MB 3D PCI | £89.95 | £105.69 |
| ATI043 | XPERT @PLAY 3D 4MB TV PCI | £69.00 | £81.06 |
| ATI046 | ATI 2MB 3D CHARGER TV OUT | £59.00 | £69.33 |
| ATI047 | ATI 2MB 3D CHARGER PCI | £29.95 | £35.19 |
| ATI050 | XPERT @ PLAY 8MB PCI | £79.95 | £93.94 |

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| Creative | | | |
| CRE015 | SOUNDBLASTER 16 NON-IDE | £18.00 | £21.15 |
| CRE039 | SOUNDBLASTER LIVE PCI | £102.00 | £119.85 |
| CRE044 | SOUND BLASTER PCI128 PCI | £32.00 | £37.60 |
| CRE049 | PCI 128 & FOURPOINT SURRO | £67.00 | £78.73 |
| CRE051 | AWE 64 VALUE PCI OEM | £24.95 | £29.32 |
| CRE052 | CREATIVE SB LIVE! VALUE | £49.00 | £57.58 |
| Diamond | | | |
| DIA033 | MONSTER SOUND PCI BARE | £69.95 | £82.19 |
| DIA050 | DIAMOND SDMC IMPACT PCI | £20.99 | £24.66 |
| Enta | | | |
| ENT001 | ENTA WAVETABLE 32 SOUND | £12.95 | £15.22 |
| Guillemot | | | |
| GUL006 | MAXI SOUND 64 DYNAMIC 3D | £68.07 | £79.98 |
| Orchid | | | |
| MCR020 | nuSOUND 3D PCI A3D | £39.95 | £46.94 |
| Pinn/Miro | | | |
| MIR012 | MIROCONNECT 34wave OFFICE | £239.00 | £280.83 |
| MIR013 | MIRO PCIO SOUND CARD | £79.00 | £92.83 |
| MIR020 | MIRO PCM12 SOUND CARD | £135.00 | £158.63 |
| Terratec | | | |
| TER008 | EWS 64 XL SOUND CARD | £329.95 | £387.69 |
| TER009 | XLERATE PCI A3D SOUND CAR | £49.00 | £57.58 |
| TER011 | TERRATEC EWS 64 S | £126.81 | £149.00 |
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| TYP006 | TYPHOON FM TUNER ISA CARD | £18.72 | £22.00 |
| TYP024 | TYPHOON GOLD WAVE 3D ISA | £11.45 | £13.45 |
| TYP025 | TYPHOON DIGITAL 3D PCI | £21.45 | £25.20 |

Nikon Coolpix 600 & 900

The Coolpix 600 & 900 is a compact and easy to use solution for instant, photo-realistic digital photography.



| | | | |
|--------|--|----------------------------|-----------|
| NIK010 | Coolpix 600 | INC VAT £428 ⁰⁰ | EVAT £365 |
| NIK011 | Coolpix 600 & Power adapter | INC VAT £468 ⁰³ | EVAT £399 |
| NIK012 | Coolpix 900 - 8MB | INC VAT £699 ¹³ | EVAT £595 |
| NIK013 | Coolpix 900 + power adapter, Compact flash adapter and 16Mb compact flash adapter card | INC VAT £799 ⁰⁰ | EVAT £680 |

SavageMT Graphics Card



Based on the Savage S3 chipset, this AGP graphics card turns your PC into an entertainment system. It gives superb 2D/3D video graphics with the fastest 3D available, having S3 texture compression for photorealistic gaming and a virtual 32Mb of RAM.

TV out for large screen game play and DVD playback are included.

| | | | |
|--------|----------------------------|---------------------------|----------|
| M00007 | SavageMT AGP Graphics Card | INC VAT £57 ⁵⁸ | EVAT £49 |
|--------|----------------------------|---------------------------|----------|

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

| | | | |
|--------|---------------------------|----------------------------|-----------|
| CRE047 | PC-DVD Encore 5x | INC VAT £158 ⁰³ | EVAT £135 |
| CRE052 | Sound Blaster Live! Value | INC VAT £57 ⁵⁸ | EVAT £49 |
| CRE038 | Sound Blaster Live! | INC VAT £119 ⁰⁵ | EVAT £102 |
| CRE045 | 3D Blaster Banshee PCI | INC VAT £81 ⁰⁸ | EVAT £69 |
| CRE046 | Graphics Blaster RIVA TNT | INC VAT £104 ³⁸ | EVAT £89 |
| CRE040 | 4 Point Surround Speakers | INC VAT £52 ²⁸ | EVAT £45 |
| CRE033 | Voodoo 2 12Mb | INC VAT £84 ⁵⁰ | EVAT £72 |

Matrox Marvel G200



- 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

| | | | |
|--------|------------------------|----------------------------|-------------------------|
| MAT062 | Matrox Marvel G200 AGP | INC VAT £152 ⁷⁴ | EVAT £129 ⁹⁹ |
| MAT058 | Matrox Millennium G200 | INC VAT £93 ⁹⁰ | EVAT £79 ⁹⁹ |
| MAT059 | Matrox Mystique G200 | INC VAT £93 ⁹⁰ | EVAT £79 ⁹⁹ |
| MAT052 | Matrox Productiva G100 | INC VAT £64 ⁵¹ | EVAT £54 ⁹⁹ |

Kodak Cameras

Capture exceptional digital pictures with ease. The KODAK DIGITAL SCIENCE DC210 Zoom Camera gives you the power to do it. Quickly. Easily. Affordably. With a 2X zoom lens so you can get closer to the action.

| | | | |
|--------|----------------------------|----------------------------|-----------|
| K00030 | DC210 Plus Digital Camera | INC VAT £398 ³³ | EVAT £339 |
| K00028 | DC220 Digital Camera | INC VAT £492 ³³ | EVAT £419 |
| K00029 | DC260 Digital Camera | INC VAT £786 ⁰⁸ | EVAT £669 |
| K00027 | DV323 Digital Video Camera | INC VAT £151 ⁵⁸ | EVAT £129 |

The digiCAM 400 or solarCAM has a LCD display that is powered by the sunlight. The digiCAM 250/350 Video Clip cameras use Rechargeable batteries



| | | | |
|--------|---|----------------------------|-----------|
| SAN002 | Sanyo digiCAM VGA200 (VGA Camera with Sound) | INC VAT £233 ⁰³ | EVAT £199 |
| SAN018 | Sanyo digiCAM VGA210 (as SAN002 but with removable storage) | INC VAT £276 ¹³ | EVAT £235 |
| SAN019 | Sanyo digiCAM VGA250 (VGA Sound, 10 sec Camcorder mode) | INC VAT £292 ⁵⁸ | EVAT £249 |
| SAN013 | Sanyo digiCAM VGA300 (VGA, 3x zoom + sound) | INC VAT £398 ³³ | EVAT £339 |
| SAN021 | Sanyo digiCAM VGA350 (VGA, Sound, 30 sec CAMRECORDER mode) | INC VAT £440 ⁶³ | EVAT £375 |
| SAN025 | Sanyo digiCAM VGA400 (Solar Powered, LCD Display) | INC VAT £586 ³³ | EVAT £499 |

12Mb 3D Graphics Accelerator based on 3Dfx Voodoo2 chipset. More power than you can handle! Power3D2 from Techworks delivers the mind-blowing performance of an arcade on your computer.



- Voodoo2 graphics engine on board
- Win98, Glide, OpenGL 1.1, DirectX/Direct 3D compatible
- Support for largest choice of games
- Easy installation and set-up
- Optimised design
- 12Mb ultra-fast DRAM

| | | | |
|--------|------------------------|---------------------------|------------------------|
| TEC003 | Techworks Power 3D 2 | INC VAT £82 ¹⁹ | EVAT £69 ⁹⁵ |
| TEC006 | Techworks Power GrafX™ | INC VAT £88 ¹¹ | EVAT £74 ⁹⁸ |

Explosive 3D Graphics

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 3D performance.

| | | | |
|--------|----------------------------|----------------------------|------------------------|
| EL5006 | VICTORY Erazor™ PCI 4Mb | INC VAT £109 ²² | EVAT £92 ⁹⁵ |
| EL5007 | VICTORY Erazor™ AGP 4Mb | INC VAT £109 ²² | EVAT £92 ⁹⁵ |
| EL5008 | WINNER 2000 Office PCI 4Mb | INC VAT £128 ⁰⁸ | EVAT £109 |
| EL5009 | WINNER 2000 Office AGP 4Mb | INC VAT £128 ⁰⁸ | EVAT £109 |
| EL5012 | WINNER 2000 Office PCI 8Mb | INC VAT £163 ³³ | EVAT £139 |

miroVIDEO Studio 400

The ONLY external solution for easy, creative home video editing!



| | | | |
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| MIR055 | miroVIDEO Studio 400 | INC VAT £198 ⁵⁸ | EVAT £169 |
| MIR056 | miroMEDIA PC/TV Card | INC VAT £57 ⁹⁸ | EVAT £49 |
| MIR041 | miroVIDEO DC10 PCI | INC VAT £210 ³³ | EVAT £179 |
| MIR053 | miroVIDEO DV300 | INC VAT £609 ⁸³ | EVAT £519 |

Diamond Monster 3D II

The fastest 3D available, built around the 3DFX Voodoo 2 chipset

- 8Mb and 12 Mb versions available
- Supports Direct 3D, Glide and Open GL (games subset)



| | | | |
|--------|-----------------------------------|----------------------------|------------------------|
| DIA046 | Diamond Monster 3D II 12Mb | INC VAT £117 ⁴⁴ | EVAT £99 ⁹⁹ |
| DIA061 | Diamond Mon/Fusion AGP 16Mb | INC VAT £105 ⁰⁹ | EVAT £89 ⁹⁹ |
| DIA059 | Diamond Mon/Fusion Exl AGP 16Mb | INC VAT £117 ⁴⁴ | EVAT £99 ⁹⁹ |
| DIA060 | Diamond Monst/Fusion Exl 16Mb PCI | INC VAT £117 ⁴⁴ | EVAT £99 ⁹⁹ |

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If you can find any of our competitors offering a better price on an identical product and they have it in stock, we guarantee to beat it! ”

See page 31 for details on our price pledge

SOFTWARE WAREHOUSE

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|------------|---|---|---|
| 14" | <ul style="list-style-type: none"> MRP 2 Low radiation Energy Saving Digital Multiscan 0.28 dot pitch | <ul style="list-style-type: none"> 1024 x 768 resolution | MON005 14" Monitor IncVAT £88.07 ExVAT £74.95 |
| 17" | <ul style="list-style-type: none"> Power saving green energy 0.28mm dot pitch Digital Multiscan | <ul style="list-style-type: none"> Unlimited colour range 100MHz Max vertical frequency | MON007 17" Monitor IncVAT £187.94 ExVAT £159.95 |
| 19" | <ul style="list-style-type: none"> Power saving green energy 0.28mm dot pitch Digital Multiscan | <ul style="list-style-type: none"> Unlimited colour range 1600 x 1200 resolution Flat screen | MON011 19" Monitor IncVAT £399.64 ExVAT £339.95 |

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- Up to 1600 x 1200 @ 76Hz
- On-Screen Menu with Navi™ key

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4479XA

- 15" Trinitron 0.25mm CRT
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- On-Screen Menu with Navi™ key
- Plug 'N Play

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Diamond Scan 50
Budget-wise multimedia performance for the home or office

- Shadowmask for superb screen definition and multitrack technology
- Precise 0.28mm dot pitch
- True multiscanning capacity from 30 - 70412

MIT054 Diamond Scan **£158.92** ExVAT **£135**

MIT012 Diamond Pro 91TXM **£821.32** ExVAT **£699**

Turn on your imagination

Diamond Plus 71
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- 1280 x 1024 resolution at 80Hz

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MIT045 Diamond Pro 700 **£468.93** ExVAT **£399**

Turn on your imagination

Diamond Scan 90
Budget-wise performance for the home or office

- Precise 0.28mm dot pitch
- 19(18"viewable) Shadowmask
- Large screen in compact case maximised viewing area and desk space

MIT056 Diamond Scan 90 **£499.92** ExVAT **£425**

MIT057 Diamond Scan + 72 **£370.12** ExVAT **£315**

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| SDRAM UNBUFFERED for 100MHz Motherboards | | | | | | |
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| SIM079 | 32MB PC100 SDRAM | 64-BIT | 168 PIN | 7NS | £34.95 | £41.06 |
| SIM077 | 64MB PC100 SDRAM | 64-BIT | 168 PIN | 7NS | £59.95 | £70.44 |
| SIM078 | 128MB PC100 SDRAM | 64-BIT | 168 PIN | 7NS | £114.95 | £135.07 |

| 168 PIN DIMM MEMORY SDRAM UNBUFFERED | | | | | | |
|--------------------------------------|------------------|--------|---------|------|---------|---------|
| SIM047 | 32MB SDRAM DIMM | 64-BIT | 168 PIN | 10NS | £34.95 | £41.06 |
| SIM068 | 64MB SDRAM DIMM | 64-BIT | 168 PIN | 10NS | £57.95 | £68.44 |
| SIM073 | 128MB SDRAM DIMM | 64-BIT | 168 PIN | 10NS | £119.95 | £140.06 |

| EDO MEMORY SIMMS | | | | | | |
|------------------|----------------|---------|--------|------|--------|--------|
| SIM037 | 8MB EDO SIMMS | 2 x 32 | 72 PIN | 60NS | £10.25 | £12.04 |
| SIM038 | 16MB EDO SIMMS | 4 x 32 | 72 PIN | 60NS | £21.95 | £25.79 |
| SIM042 | 32MB EDO SIMMS | 8 x 32 | 72 PIN | 60NS | £44.95 | £52.82 |
| SIM067 | 64MB EDO SIMMS | 16 x 32 | 72 PIN | 60NS | £74.95 | £88.07 |

| 72-PIN FAST PAGE MODE MEMORY | | | | | | |
|------------------------------|---------|--------|--------|------|--------|--------|
| SIM024 | 8MB NP | 2 x 32 | 72 PIN | 60NS | £11.75 | £13.95 |
| SIM025 | 16MB NP | 4 x 32 | 72 PIN | 60NS | £25.45 | £29.95 |
| SIM033 | 32MB NP | 8 x 32 | 72 PIN | 70NS | £42.45 | £49.95 |

| MEMORY ACCESSORY | | | | | | |
|------------------|------|--------|--------|------|--------|--------|
| SIM028 | 16MB | 4 x 36 | 72 PIN | 70NS | £33.95 | £39.89 |
| SIM034 | 32MB | 8 x 36 | 72 PIN | 70NS | £57.75 | £67.86 |

Quality Memory individually tested

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32 MB FROM **£34.95**
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64 MB FROM **£57.95**
£68.09 inc VAT plus VAT

Wrapped in anti-static bags

Lifetime Warranty on all Memory

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MONITORS

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| ADI012 | ADI PROVISTA E33 14 MON | £95.00 £111.63 |
| ADI009 | ADI MICROSCAN 4P 15 MON | £119.00 £139.83 |
| ADI019 | ADI 15 PROVISTA E44 | £105.00 £123.38 |
| ADI007 | MICROSCAN 5G 17 TC095 | £255.00 £299.63 |
| ADI020 | ADI MICROSCAN 5P+ 17 | £189.00 £222.06 |
| ADI105 | ADI MICROSCAN 5GT TRIN 17 | £269.00 £316.06 |
| ADI011 | ADI MULTISCAN 6P 19 MON | £369.00 £433.58 |
| ADI017 | ADI MICROSCAN 21 FST 6G | £549.00 £645.06 |
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| BEL325 | BELINEA 14 104010 | £95.95 £112.74 |
| BEL326 | BELINEA 15" FST OSO | £99.00 £116.33 |
| BEL327 | BELINEA 17" TCO-95 | £175.95 £206.74 |
| BEL328 | BELINEA 19" FST TC095 | £339.00 £398.33 |
| CTX | | |
| CTX017 | CTX 1451E.VL400 | £85.00 £99.88 |
| CTX002 | CTX 15695E 15" VL500 | £105.00 £123.38 |
| CTX006 | CTX 1785XE 17" | £215.00 £252.63 |
| CTX008 | CTX 1769MS 17" MS700 | £249.95 £293.69 |
| CTX012 | CTX 1792UA 17" TRINITRON | £309.00 £363.06 |
| CTX018 | CTX 1769SE 17" VL700 | £169.00 £222.06 |
| CTX019 | CTX 1995UE 19" VL950T | £369.00 £433.58 |
| CTX009 | CTX 2085XE 20" EX800 | £599.95 £704.94 |
| CTX010 | CTX 2185XE 21" | £679.00 £797.83 |
| Daewoo | | |
| DAE002 | DAEWOO CMC1427 14" | £89.00 £104.58 |
| DAE003 | DAEWOO 15" 518X FST | £99.00 £116.33 |
| DAE004 | DAEWOO 17" FST CMC 1707B | £215.00 £252.63 |
| Fuji | | |
| FUJ055 | FUJITSU BRANDED 15" MONIT | £139.00 £163.33 |
| FUJ056 | FUJITSU BRANDED 17" MONIT | £199.00 £233.83 |
| Goldstar | | |
| LGS012 | GLOSTAR SW441 14" | £87.00 £102.23 |
| LGE005 | LG SW571 15"XGA | £119.00 £139.83 |
| LGE013 | LGE SW 57M 15" M/MEDIA | £149.00 £175.06 |
| LGE014 | LGE 15" DIGITAL SVGA | £118.00 £138.65 |
| LGS003 | LGS STUDIOWORKS 15" 56i | £189.00 £222.06 |
| LGS005 | LGS STUDIOWORKS 15" 56M M/M | £179.95 £211.44 |
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| LGE008 | LS 77M 17" MULTIMEDIA | £225.00 £264.38 |
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| D2826A | HP 50 15 DISPLAY D2826A | £137.23 £161.25 |
| D2846A | P1100 21" COLOUR MONITOR | £907.17 £1,065.92 |
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| HIT014 | HITACHI CM500ET 15 CRT | £129.00 £151.58 |
| HIT015 | HITACHI FST 15 INC.SPEAK | HITACHI £142.00 |

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| INT126 INTEL AL440LX P2 ATX NOSO | £91.00 | £116.33 |

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| AMD015 AMD K6-2 3D 333MHZ | £64.95 | £76.32 |
| AMD016 AMD K6-2 3D 350MHZ | £79.95 | £93.94 |
| AMD019 AMD K6-2 3D 350 BOXED | £96.00 | £112.80 |
| AMD017 AMD K6-2 380MHZ BARE | £99.95 | £117.44 |
| AMD018 AMD K6-2 3D 400MHZ BARE | £114.95 | £135.07 |
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| CYR006 CYRIX M2 P200MMX (66MHz) | £44.00 | £51.70 |
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| Intel | | |
| INT216 CELERON 300A 128k RETAIL | £59.99 | £70.49 |
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| SEA192 | MEDALIST ST310230A | 10.2 | 5400 | 10.5 | £189.00 | £222.08 |
| SEA193 | MEDALIST PRO ST34520N | 4.5 | 7200 | 9.5 | £141.00 | £165.68 |
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| SEA196 | MEDALIST PRO ST39140N | 9.1 | 7200 | 9.5 | £266.00 | £312.55 |
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| SEA044 | ELITE ST423451N | 23.4 | 5400 | 13 | £990.00 | £1,163.25 |
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| QQA117 | FIREBALL EL | 5.1GB | QM305100EL | 5400 | 9.5ms | £94.00 £110.45 |
| QQA118 | FIREBALL EL | 7.6GB | QM307600EL | 5400 | 9.5ms | £115.00 £135.13 |
| QQA119 | FIREBALL EL | 10.2GB | QM310200EL | 5400 | 9.5ms | £142.00 £166.85 |
| QQA120 | FIREBALL EX | 3.2GB | QM303200EXA | 5400 | 9.5ms | £77.00 £90.48 |
| QQA121 | FIREBALL EX | 5.1GB | QM305100EXA | 5400 | 9.5ms | £93.00 £109.28 |
| QQA122 | FIREBALL EX | 6.4GB | QM307600EXA | 5400 | 9.5ms | £95.00 £111.63 |
| QQA123 | FIREBALL EX | 10.2GB | QM310200EXA | 5400 | 9.5ms | £176.00 £206.80 |
| QQA124 | FIREBALL EX | 12.7GB | QM312700EXA | 5400 | 9.5ms | £196.00 £230.30 |
| QQA131 | BIGFOOT TS | 6.4GB | QM506400TSA | 4000 | 10.5ms | £89.00 £104.58 |
| QQA132 | BIGFOOT TS | 12.7GB | QM512700TSA | 4000 | 10.5ms | £156.00 £183.30 |

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| COM057 | COMPAQ 4/8 DAT DRIVE | £620.00 £728.50 |
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| COMP52 | OVERLAND LXB7210 DLT R/M | £14,000 £16,450 |
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| DAN003 | BACKER 32 INT 4GB V2 | £31.00 £36.43 |
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| EXA003 | EXABYTE 4200C INT | £865.00 £1,016.38 |
| EXA008 | EXABYTE 8505XL ST EXT. | £1,576.00 £1,851.80 |
| EXA010 | EXABYTE 8700EXT 14GB SCSI | £1,090.00 £1,280.75 |
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| EXA023 | EXABYTE ELIANT 820 (INT) | £1,300.00 £1,527.50 |
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| HWP169 | HP SURESTORE DLT 30e EXT | £1,750.00 £2,056.25 |
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| HWP173 | HP 2GB 4mm DAT DRIVE BARE | £374.40 £439.92 |
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| HWP462 | HP SURESTORE DLT 40i INT | £2,000.00 £2,350.00 |
| HWP483 | HP COLORADO 5GB EXT PP | £139.00 £163.33 |
| HWP540 | HP SURESTORE 5000E 4GB EX | £450.00 £528.75 |
| HWP541 | HP SURESTORE 5000i 4GB IN | £375.00 £440.63 |
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| HWP545 | SURESTORE T20E TR-5 EXT | £349.95 £411.19 |
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| SUR005 | SURESTORE 5000 SCSI EXT | £589.00 £692.08 |
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| SUR008 | SURESTORE 12000 SCSI EXT | £1,999.00 £2,348.83 |
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There's nothing worse than a bad data day. Which is why you need a Zip drive.

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- Faster than many hard drives - 7.35MCB/s average transfer rate
- Ideal as a hard drive back-up.
- Provides 4GB capacity with 2:1 compression
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- Complete set of software utilities and tools make Jaz versatile and easy to use.

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Flexibility for your data. The new standard for portable storage. Presentations, Graphics, pictures games and spreadsheets all handled with ease on your zip.

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Buz Get all your multimedia stuff into your PC

Introducing the Iomega Buz - the easiest way to get multimedia from camcorders, DVD-ROMs, CD-ROMs, VCRs, and laser disc players into a PC! Included a platform video capture and editing board combined with an Ultra SCSI controller that lets users:

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Flip Disk Baby Zip

Portable Hard Drive Portable Zip Drive



- Features**
- No Power or interface Cables required
 - Instant increase in Hard disk capacity
 - PC/MCIA interface - Plug & Play
 - Maximum capacity is dependant upon NovaDisk compression Software
 - Transfer data between Laptop or Desk Top*
- * Requires optional parallel port cables

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| NOV141 | Nova Software | INC VAT £22 ³³ | EX VAT £19 |
| AMA025 | Flip Disk 2.1-4.2Gb | INC VAT £310 ⁰⁰ | EX VAT £264 |
| AMA048 | Flip Disk 4.0-8.0Gb | INC VAT £410 ⁰⁰ | EX VAT £349 |
| AMA060 | Flip Disk 6.4-12.8Gb | INC VAT £551 ⁰⁰ | EX VAT £469 |
| AMA052 | Baby Zip | INC VAT £199 ⁷⁵ | EX VAT £170 |

- Features**
- Powered directly from your computer
 - Uses standard Iomega 100MB Zip disks
 - PC/MCIA connection or optional Parallel port cables
 - No specific drivers required (Win 95), real plug & play
 - 16 bit data transfer - Up to 3.3MB/sec
 - Automatic media verification during format

PANASONIC DVD RAM LF-D101E

DVD is the next generation CD technology, providing up to 5.3Gb on a single disk. DVD RAM is the re-writable option - copy, delete and move data on DVD RAM disks and the same drive also reads DVD-ROMs, CD-ROMs, PDs and other CD formats!

- Massive capacity 2.6Gb and 5.2Gb (double sided) disks
- Low cost per Mb storage - around half a pence per Mb!
- Includes 2.6Gb disk and backup software
- Internal 5.25" SCSI device supported by Windows 95 & 98
- Back up, Internet downloads, audio, video and graphics - for all your high data storage
- Watch DVD movies (requires MPEG decoder hardware or software)



PANASONIC Zip Retail Pack JU 811TS

- 100Mb compatibility
- 100% compatible with Iomega Zip
- Internal 3.5" ATAPI device drive
- Zip speed with Panasonic quality
- Kit includes manual, cables and Zip Tools software



YAMAHA

Introduces the World's First 4x CD Re-Writable Drive

No other storage medium is so cost-effective. No other medium can be read by 200 million computers worldwide.

And no other medium lets you record music and play it back on your stereo or in your car. Yamaha makes the CD-RW drives that everyone else is compared to because of quality, features, price and software.

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| YAM027 | CRW2216 Int. EIDE Kit | INC VAT £199 ⁰⁸ | EX VAT £169 ⁹⁵ |
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| YAM032 | CDRW4416TX Ext. Kit | INC VAT £316 ⁰⁸ | EX VAT £269 |



PHILIPS CDD 3610

The Philips CDD 3610 is a 6x CD-ROM reader that lets you create your own CDs in addition to recording Intonation on low cost CD-Recordable (CD-R) media, it is also the first drive on the market to write and rewrite newly standardised CD-Rewritable (CD-RW).

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| Philips 3610 Internal Kit | INC VAT £193 ⁸² | EX VAT £164 ⁹⁵ |
| Philips 3600S Internal Kit | INC VAT £205 ⁵⁷ | EX VAT £174 ⁹⁵ |
| Philips 3610P Internal Kit | INC VAT £234 ⁹⁴ | EX VAT £199 ⁹⁵ |



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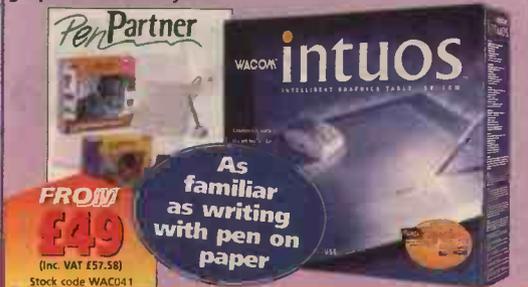
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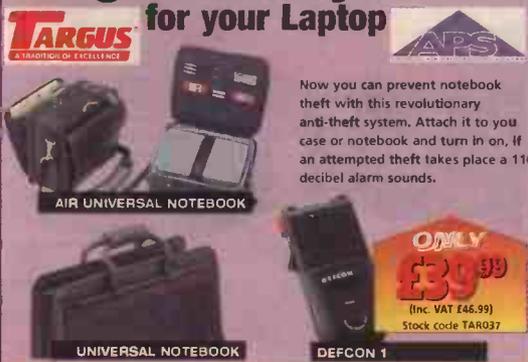


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IBM Rapid Access Keyboard

Key Features

- Euro symbol key
- 4 programmable 'E2' buttons to launch applications
- Suspend button (if PC has power management)
- Help button - go direct to Windows Help
- CD Player control
- Volume up & down or mute
- CD stop, skip forward & go back
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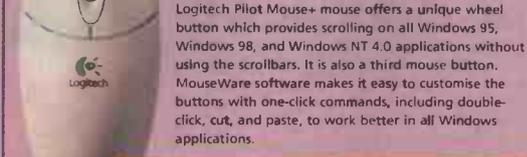
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Go Cordless for total freedom
Imagine your work surface totally devoid of cables. Imagine being able to place your computer peripherals anywhere you like to suit your current project. Today, Logitech brings you the Cordless Desktop, a radio-frequency keyboard that comes bundled with the award-winning Cordless MouseMan Pro.

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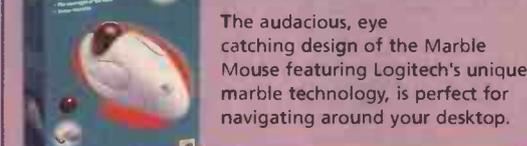
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Logitech Pilot Mouse+ mouse offers a unique wheel button which provides scrolling on all Windows 95, Windows 98, and Windows NT 4.0 applications without using the scrollbars. It is also a third mouse button. MouseWare software makes it easy to customise the buttons with one-click commands, including double-click, cut, and paste, to work better in all Windows applications.

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Logitech Marble Mouse



The audacious, eye catching design of the Marble Mouse featuring Logitech's unique marble technology, is perfect for navigating around your desktop.

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Logitech QuickCam Home was designed with camcorder technology to deliver superb video quality at up to 30 frames per second and sharp still images. Moreover, this powerful image processing technology is built into the camera, leaving your PC free to perform other tasks. Unlike most PC cameras, Logitech QuickCam Home comes with a built-in microphone for synchronised, natural communication.

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IBM IdeaScan

The IBM IdeaScan colour flatbed scanner features:

- 600 optical resolution
- 1200 dpi mechanical resolution
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- Data compression (Quality or Speed mode)
- Scanning area A4

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IBM GSM Modem

Software country selector - Allows the user to click on the country in which they are travelling and is compatible with many popular data and fax communication software applications. Flexibility - Digital cellular capability for selected models of Nokia, Alcatel, AEG, NEC, and Panasonic cellular phones. The IBM International PC Card Modem with GSM(1) capability combines ITU-T standard analog data/fax modem functions and digital GSM (PCS 1900) cellular capability in one PCMCIA card. The GSM capability is available through the purchase of an upgrade pack for any of the supported GSM cellular phones.

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| EUR091 OLITEC SELF MEMORY 33.6ex | £89.95 | £105.69 |
| EUR110 OLITEC 56K MEMORY MODEM | £124.95 | £146.82 |

| Pace | EX VAT | INC VAT |
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| PAC029 PACE 56K INT DATA/FAX/VOI | £69.00 | £81.08 |
| PAC030 PACE 56K EXT DATA/FAX/VOI | £89.00 | £104.58 |
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Modem Features

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- Lifetime Warranty
- Point-and-click Windows software to manage your faxes and Internet connections.
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*This product is capable of Internet download speeds at up to 56kbps. However, due to varying line conditions, the download speeds you experience may be lower



3Com

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| USR039 Win Modem PCMCIA | INC VAT £81.08 | EVAT £75 |
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Pace 56 Solo

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| PAC029 Pace 56 Voice Internal | INC VAT £81.08 | EVAT £69 |
| PAC032 Pace NB 56 Voice PCMCIA | INC VAT £111.83 | EVAT £95 |
| PAC030 Pace 56 Voice External | INC VAT £104.98 | EVAT £89 |
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| PAC034 Colour Video Camera PCI | INC VAT £81.08 | EVAT £69 |
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ACCURA 56K Modems



KEY FEATURES

- V90 Compatible
- Caller ID Flash Upgradeable
- Internet download speeds of up to 56,000 bits when connecting with compatible ISPs
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| | | |
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| HAY033 ISDN Accessory Kit - Optima V.90 Global & WoldNet | INC VAT £163.33 | EVAT £139 |
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- ITU - T recommended V.42 error correction
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- ITU - T V.42 bis data compression
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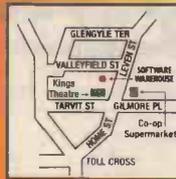
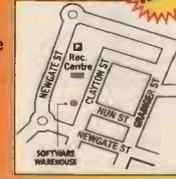
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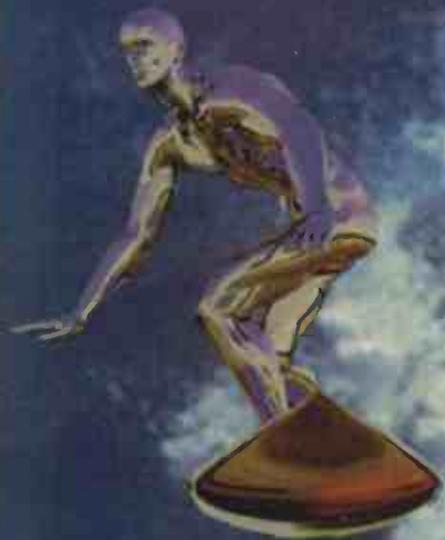


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SMC Computers has very strict payment security procedures which exist for everyone's benefit. We may call you to confirm details as part of this process.



Welcome to the February edition of the SMC Catalogue !

With 1999 under way, we are bringing you further improvements in SMC's service.

We have increased staff levels at our **Pick-Up-Point** to minimise waiting times, not only for sales, but also returns. Always remember, of course, that it always pays to phone first so that we can check and reserve stock for you - and you'll get priority treatment if you have an order reference quote when you arrive.

Our **Infinite** range of PCs progresses from strength to strength, with growing sales volumes feeding even lower prices this month. And don't forget, our PC Packages give complete, integrated solutions at a price/quality combination that puts SMC at the front of the market.

The rapid advance of technology often throws the market into chaos. The move to 100MHz bus speeds, and the phasing out of Pentium IIs using the 66MHz bus, has meant that it is not possible to replace or upgrade a 66MHz PII processor without moving to 100MHz - which means buying a motherboard and memory as well as carrying out a full system strip-down and reassembly. We have bulk-purchased probably the last available consignment of the fastest (**PII 333**) Intel Pentium II 66 MHz processors, and these offer a simple, plug-in upgrade option at minimum trouble and cost ... but only while stocks last!

Visit our website at smcdirect.co.uk where we now have an **on-line ordering service**, and as an introductory offer we are giving free delivery to all UK mainland addresses. Many people have concerns about transacting over the Internet, so SMC's site features data encryption to ensure total security of all data transmitted, so guarantees there is no chance of anyone being able to view your details (or you being able to view anyone else's!)

As you'd expect from a service-oriented company, there is also the ability to **track the progress of orders on-line**: just enter the delivery postcode and order reference number, and you can find out when and how your order has been despatched, or reasons for any delay along with expected delivery dates.

We've got lots of things planned for the year ahead, and we expect to bring you continual enhancements of service, further increases in our product range and a relentless downward pressure on prices.

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|------------|---|------|---------|
| 98-91-0840 | C840L 1280x960 pixels (HQ/SHQ mode), 4Mb memory 1.3million pixel CCD, LCD monitor, telephoto (36-72mm), Photoalbum software | £422 | £495.85 |
| 98-91-0900 | C900 ZOOM 1280x960 pixels (HQ/SHQ mode), 4Mb memory, 1.3million pixel CCD, LCD monitor, optical zoom (35-105mm) | £549 | £645.08 |
| 98-91-1400 | C1400L 1280x1024 pixels (Super HQ/HQ mode), 4Mb memory, 1,410,000 pixel CCD, LCD monitor, Zoom (36-110), Auto focus, Battery charger kit | £849 | £997.58 |
| 98-91-1402 | C1400XL SLR 1280x1024 pixels (HQ/SHQ mode), 4Mb memory, 1.4million pixel CCD, LCD monitor, on-screen display, 3x Zoom (36-110), Auto focus, Battery charger kit | £849 | £997.58 |
| 70-91-0006 | C6AG mains adaptor for complete range | £59 | £69.33 |
| 19-91-0102 | M2PE 2Mb Smartmedia Memory Card | £29 | £34.08 |
| 19-91-0108 | M8PE 8Mb Smartmedia Memory Card | £68 | £79.90 |

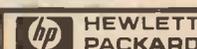
EPSON

These cameras feature auto focus, built-in flash and a 10-sec timer. They run from AA batteries (supplied) with a mains adapter optional. Interface cables & software supplied.

| | | | |
|------------|---|------|---------|
| 98-93-0600 | PC600 Camera 1024x768 pixels (XGA mode), 810,000 pixel CCD, 4Mb memory, Zoom focus. | £289 | £339.58 |
| 70-93-7032 | 240 mains adaptor | £49 | £57.58 |
| 19-93-8311 | 4Mb Memory module | £125 | £146.88 |
| 98-93-0700 | PC700 Camera 1280x960 pixels (High Quality mode), 1.3 million pixel CCD, 4Mb memory, 200m focus | £293 | £344.28 |

SONY

| | | | |
|------------|--|------|---------|
| 98-71-0051 | Mavica FD51 Camera 640x480 VGA, 380,000 pixel CCD, stores on to floppy | £339 | £398.33 |
| 98-71-0071 | Mavica FD71 Camera 640x480 VGA, 380,000 pixel CCD, stores on to floppy, with 10x optical zoom, special picture effects built-in | £449 | £527.58 |



| | | | |
|------------|--|------|---------|
| 98-28-0200 | Photosmart Camera 1152 x 872 24-bit, 4MB memory, Runs on 4xAA batteries or mains adaptor (supplied) Autofocus with built-in flash. Software, cables supplied. | £299 | £351.33 |
|------------|--|------|---------|

UMAX

| | | | |
|------------|---|------|---------|
| 98-81-0100 | DC-F1 Camera 1920 x 1600 30-bit, 800,000 pixels, 2MB memory, built-in flash. Software, cables supplied. | £259 | £304.33 |
| 98-81-0150 | 240 mains adaptor | £15 | £17.63 |

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| | | | |
|------------|---|------|---------|
| 99-91-0300 | P300E 1376x1024, 16.7m colours using dye sublimation (306Dpi). Ideal for C-420L/820L/1400L Camera | £212 | £249.10 |
| 96-91-6060 | P60N A6 paper for P-300E Printer (x60) | £42 | £49.35 |
| 99-91-0330 | P330E 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 | MA-ICE PCMCIA adaptor (3.3 & 5v) for faster downloads | £59 | £69.33 |
| 26-91-0144 | Flash Path 3.5" floppy disk adaptor (3.3v & 5v) | £59 | £69.33 |
| 96-91-3004 | B30Se Ni-MH Batter Charger + 4 batteries | £68 | £79.90 |
| 05-91-1700 | Photoalbum Image Archive software on CD | £9 | £10.58 |

EPSON

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99-93-5191 **Epson Stylus Photo 720Dpi, 4"x6" - A4, 1ppm** £147 £172.73

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98-93-0600

£289

£339.58inc. VAT



- Megapixel
- 1024x768 Resolution
- 9 shot continuous sequence
- JPEG compression
- 4Mb memory
- 2" TFT viewfinder
- PAL/TV OUT

EPSON

PRODUCT LINK

Inkjet Printers : See Page 31

Film Scanners : See Page 32



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98-91-0900

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£645.08inc. VAT



Olympus C-1400XL

98-91-1402

£849

£997.58 inc. VAT

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£645.08 inc.VAT

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- >> INTEL's latest PII440BX chipset
- >> 512KB Level 2 Cache
- >> 32MB super-fast 100MHz 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

£679

£797.83 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
- >> 56Kbps V90 Fax/Modem
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> 15" SVGA monitor

£699

£821.33 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 V90 Fax/Modem
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> G.Police, Incoming, Actua Soccer and Ultimate Race games
- >> 15" SVGA monitor

£829

£974.08 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 V90 Fax/Modem
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> 15" SVGA monitor

£949

£1115.08 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 Computers

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 TNT

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 Pentium II 450MHz 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
- >> 16MB AGP RIVA TNT graphics
- >> 56Kbps V90 Fax/Modem
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> 15" SVGA monitor

£1069

£1256.08 inc.VAT

NOTE : Prices are given for systems collected from SMC. For delivery please add £25 + VAT (£29.38)

4

SMC Direct exists to provide a reliable service of the highest quality to all PC users, whether personal end-users, small businesses or large organisations. We invite you to benefit from our unique and total commitment to the highest standards of customer care.

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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



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 £119 £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

Hardware Upgrade options

Upgrade the standard mouse and keyboard to :

MS Natural Keyboard Elite & Intellimouse

£20 £23.50 inc.VAT

Upgrade the speakers to :

Creative 4-Point Surround Speakers

£26 £30.55 inc.VAT

PC PACKAGES



Home PC Plus 300

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.

- >> AMD 300MHz K6/2 processor
- >> 32MB SDRAM
- >> 2MB 2D/3D graphics
- >> 64-bit sound with stereo speakers
- >> 3.2GB 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 !

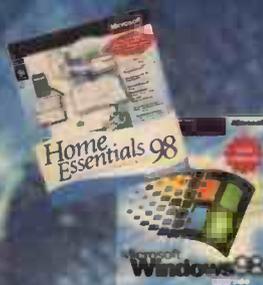
£559

£656.83 inc.VAT

Multimedia Publisher 1220P

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
- >> 128K level 2 cache
- >> 32MB SDRAM
- >> 4MB 2D/3D graphics
- >> 64-bit sound with stereo speakers
- >> 56k V90 Fax/Modem
- >> 3.2GB hard drive
- >> 32-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



£829

£974.08 inc.VAT

Software packaging shown for illustration purposes only

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SMC Computers Plc

253-257 Farnham Rd Slough Berkshire SL2 1HA



ALL MAJOR CREDIT CARDS ACCEPTED

INFINITE PC SYSTEMS

For SMC's unique guarantee : see page 2

5



No. FS40989

LATEST PRODUCTS - LOWEST PRICES - TOTAL QUALITY!**ISO9002**

Doesn't everyone claim to be committed to service ... even the ones who aren't?

Yes. But the ISO9002 process sorts out those who mean it.

To gain accreditation, a company must break every aspect of its operation down and set up procedures based on producing, monitoring and improving service levels. At SMC, we cover not only the materials handling such as booking in, storage, picking and packing of goods but also the way in which orders are taken from customers and processed. In addition, we keep a check on how we deal with customer problems, and even our suppliers are under constant review to ensure their performance (and that of their products) maintains acceptable standards. The process is not only time-consuming and expensive, but it requires a constant and high level of discipline. Yet because of the inherent efficiency of the company, we are able to keep our prices as keen as ever and ensure that we keep our unrivalled commitment to service with prices that are among the keenest in the market.

**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**

(As Shown)

94-26-1200 **£355** (£417.13 inc.VAT)**PHENOM EXPRESS H22 C16**

(Not Shown)

94-26-2200 **£599** (£703.83 inc.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

1700 Series

Features: >> 32MB RAM (upgradable to 96MB)
>> 4GB Hard Drive
>> 24-speed CD-ROM

94-09-6233 **6233T-W95** **£1179** £1385.33
>> 12.1" TFT display
>> Intel Mobile Pentium II 233MHz processor
>> Microsoft Windows 95 installed

94-09-6238 **6233T-W98** **£1199** £1408.83
>> 12.1" TFT display
>> Intel Mobile Pentium II 233MHz processor
>> Microsoft Windows 98 installed

94-09-6266 **6266T-W95** **£1599** £1878.83
>> 13.3" TFT display
>> Intel Mobile Pentium II 266MHz processor
>> Microsoft Windows 95 installed

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** **£2149** £2525.08
>> Windows 95 installed

94-09-7800 **7800-WNT** **£2199** £2583.83
>> Windows NT installed

SONY VAIO

The Ingenious and stylish design of this ultra-slim (24mm), 8.5-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 Series94-71-0506 **VA10-505FX** **£1899** £2231.33

- >> 10.4" TFT display (800x600)
- >> Intel Pentium P266 MMX processor
- >> 32MB RAM (upgradable to 96MB)
- >> 4GB 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 P266MMX processor
>> 32MB SDRAM (upgradable to 128MB)
>> 4GB 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)

94-71-0745 **VA10-745** **£1149** £1350.0894-71-0747 **VA10-747** **£1389** £1632.08**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

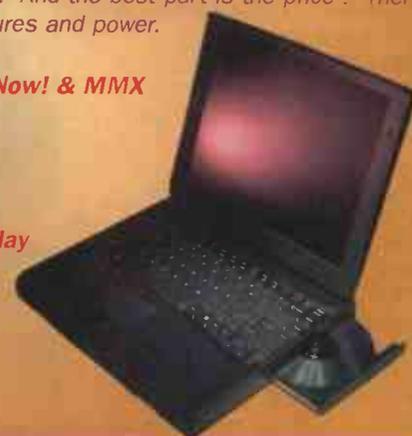
94-90-0100 **Palm Pilot Professional**
4000 addresses, 2400 appointments,
750 to do, 750 memos, 100 email **£145** £170.38

94-90-0200 **Palm Pilot III**
6000 addresses, 3000 appointments,
1500 to do, 1500 memos, 200 email,
Advanced InfraRed Hotsynch **£199** £233.83

UMAX**The 'All-In-One' Solution**

From the world's No 1 scanner manufacturer, the all new Umax ActionBook 330T is a powerful mobile tool - equipped with advanced features normally found only on higher-end notebooks, at a price so affordable it's beyond comparison. Truly an 'all-in-one' solution, with built-in hard drive, floppy drive and CD-ROM, the 330T eliminates the need to swap components or carry extra peripherals. With features like 12.1" TFT Active Matrix display and AMD-K6-2 processors with 3DNow!™ technology with MMX™, together with a performance that rivals most desktop systems, this is a compact design that can be carried anywhere. And the best part is the price! There simply isn't a portable with more built-in features and power.

- 300MHz AMD K6-2 processor with 3D Now! & MMX
- 32MB of RAM (Supports up to 96MB)
- 3.2Gb IDE hard disk drive
- 24x speed CD-ROM drive
- 1.44MB Floppy Drive
- 12.1", 800x600 built-in SVGA STN display



94-81-0330

£859

£1009.33inc.VAT

DON'T FORGET :

Kingston matched memory upgrades available

FOR LIFETIME WARRANTY

See page 10



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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 | £1359 | £1596.83 |
| >> 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 | £1549 | £1820.08 |
| >> 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 | £2029 | £2384.08 |
| >> Intel Pentium II 266MHz processor >> 13.3" TFT display >> 64MB SDRAM (256MB upgradable) >> 6GB Hard Drive >> 24-speed CD-ROM drive | | |
| 94-75-8956 | £2289 | £2689.58 |
| >> Intel Pentium II 300MHz processor >> 13.3" TFT display >> 64MB SDRAM (256MB upgradable) >> 6GB Hard Drive >> 24-speed CD-ROM drive | | |
| 94-75-8957 | £2725 | £3201.88 |
| >> 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 7010CT | £1949 | £2290.08 |
| Features : >> 300MHz Intel Pentium II processor >> 32MB SDRAM (160MB upgradable) >> 3.82GB Hard Drive >> 12.1" 800x600 display | | |
| 94-75-3010 3010CT | £1359 | £1596.83 |
| Features : >> 266MMX Pentium processor >> 32MB SDRAM (96MB upgradable) >> 4GB Hard Drive >> 10.4" TFT display with 2MB VRAM | | |

TOSHIBA WARRANTIES

Extra 2-year international cover is available for Toshiba notebooks as follows :

| | ex VAT | inc VAT |
|---------------------------------------|-------------|---------|
| 94-75-9901 Libretto | | |
| 100CT, 110CT | £130 | £152.75 |
| 94-75-9903 Satellite | | |
| 4000CDS, 4000CDT, 4010CDS, 4010CDT | £130 | £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 100CT | £1099 | £1291.33 |
| Features : >> 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 | | |
| 94-75-0110 110CT | £1275 | £1498.13 |
| Features : >> Intel Pentium P233MMX processor >> 32MB EDO RAM (64MB upgradable) >> 4GB 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 |
|---|--------------|----------|
| 94-75-4907 490CDT | £1379 | £1620.33 |
| Features : >> Intel Pentium P233MMX processor >> 32MB EDO RAM (160MB upgradable) >> 3.82GB Hard Drive >> Swappable 3.5" FDD & 10-speed EIDE CD-ROM >> 2MB VRAM PCI video with BitBlock accelerator >> 20-speed CD-ROM | | |
| 94-75-4909 490XCDT | £1529 | £1796.58 |
| Features above specifications with : >> 12.1" TFT display >> Intel Pentium II 233MHz processor | | |
| Features above specifications with : >> 13.3" TFT display >> Intel Pentium II 266MHz processor | | |

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 | | |
| Features : >> 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 4000CDS | £1012 | £1189.10 |
| Features above specifications with : >> 12.1" STN display >> Intel Pentium II P233MHz processor | | |
| 94-75-8952 4000CDT | £1179 | £1385.33 |
| Features above specifications with : >> 12.1" TFT display >> Intel Pentium II P233MHz processor | | |
| 94-75-4010 4010CDS | £1179 | £1385.33 |
| Features above specifications with : >> 12.1" STN display >> Intel Pentium II P266MHz processor | | |
| 94-75-4011 4010CDT | £1359 | £1596.83 |
| Features above specifications with : >> 12.1" TFT display >> Intel Pentium II P266MHz processor | | |

TOSHIBA TECRA

From the outstanding features and value for money of the 5500CDT 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 |
|--|--------------|----------|
| 94-75-7800 780DVD | £2299 | £2701.33 |
| Features : >> 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 >> 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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ALL MAJOR CREDIT CARDS ACCEPTED



No. FS40989



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On-screen information includes stock availability (with due dates where expected), the very latest prices and loads of details on technical specifications - not to mention lots more about SMC!

Once you have placed your order, it is transmitted and fully integrated into the order fulfilment system. This ensures automatic stock allocation and processing, and internal procedures ensure that your credit card will only be debited on despatch, which is by insured courier. We delayed introduction of on-line ordering, but now it's here, we've proved it again - it's the best you'll get!

SOFTWARE

UTILITIES

ex VAT inc VAT

MICROSOFT

05-50-9809 Windows 98 Plus pack £27 £31.73

ONTRACK

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

POWERQUEST

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 £398 £467.65

NORTON

01-95-0103 Utilities V8 £88 £103.40
05-95-9503 Utilities - WIN 95 V3 £35 £41.13
05-95-9540 Utilities - NT £63 £74.03
05-95-9055 Uninstall Deluxe £28 £32.90
05-95-9057 CrashGuard Deluxe £29 £34.08
05-95-9065 PC Anywhere 8 £92 £108.10
05-95-9510 ACTV4 £125 £146.88
05-95-9515 Visual Cafe for Java £59 £69.33
05-95-9520 System Works £65 £76.38
05-95-9525 Your Eyes Only £55 £64.63
05-95-9530 WinFax Pro £69 £81.08

QUARTERDECK

05-95-0202 Partition-It Ex.Strength £38 £44.65
05-95-0213 Real Help Ex.Strength £28 £32.90
05-95-0221 VirusSweep £12 £14.10
05-95-0219 Cleansweep Deluxe £30 £35.25

MCAFFEE

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 £34 £39.95
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

IBM

05-91-0410 Via Voice Home Edition £33 £38.78
05-91-0420 Via Voice Executive Edition £84 £98.70

DRAGON

05-95-0320 Dragon Dictate Lite £29 £34.08
05-95-0310 Dragon Dictate Point & Spea £33 £38.78

JASC

05-96-1000 Paintshop Pro V5 £55 £64.63

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.



Microsoft Home Publishing 99

05-50-4050 £33

£38.78 inc. VAT

Microsoft Project 98
Project Management Software

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

Microsoft FrontPage 98
Web Site Creation and Management Tool

Microsoft FrontPage 98

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.

Get a complete picture of your site. Five different FrontPage views combine to let you quickly plan, manage, and update your site.

Seamless integration with existing content and your desktop applications means that you're productive from the start.

05-50-7157

£88 £103.40 inc. VAT

Microsoft Office 97
Small Business Edition

Microsoft Office 97

Microsoft Office 97

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.

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| 05-95-7151 Oceans | £19 | £22.33 |
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| 05-50-0111 Encarta 99 Deluxe UK | £53 | £62.28 |
| 05-50-0110 Encarta 99 UK | £32 | £37.60 |
| 05-50-0118 Encarta World Atlas 99 - UK | £31 | £36.43 |
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| 05-50-5450 Magic School Bus - Dinosaurs | £23 | £27.03 |
| 05-50-5455 Magic School Bus - Inside Earth | £23 | £27.03 |
| 05-50-5465 Magic School Bus - Oceans | £23 | £27.03 |
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| 05-50-5425 Creative Writer 2 | £22 | £25.85 |

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| For Windows 95 | | |
| MICROSOFT | | |
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| 01-50-3357 Powerpoint 97 | £229 | £269.08 |
| 01-50-9109 Publisher 98 *NO KEY**NO KEY* | £299 | £351.33 |
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| 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 | £639 | £750.83 |
| 05-50-1095 Exchange Server +10 clients licences | £910 | £1069.25 |
| 05-50-3182 Office 97 Developers edition | £519 | £609.83 |
| 05-50-3202 Site Server 32 Standard Edition | £995 | £1169.13 |

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| 05-50-6505 SQL Server 6.5 +5 client licences | £945 | £1110.38 |
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| 05-50-0045 Works v4.5 | £59 | £69.33 |
| 05-50-2000 Photodraw 2000 | £95 | £111.63 |
| Upgrade Packages | | |
| 05-50-9707 Office 97 SBE (CCP) | £148 | £173.90 |
| 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 | £32 | £37.60 |
| 05-50-6798 Project 98 | £115 | £135.13 |
| 05-50-0060 Works Suite | £75 | £88.13 |
| LOTUS | | |
| 05-91-0107 Smartsuite 97 for Windows 95 | £290 | £340.75 |
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| MICROSOFT | | |
| Full Versions | | |
| 05-50-9800 Windows 98 (Requires DOS) | £112 | £131.60 |
| 05-50-9807 Windows 98 OEM * | £89 | £104.58 |
| 05-50-1013 Windows NT 4.0 Workstation | £215 | £252.63 |
| 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 | £1539 | £1808.33 |
| 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.

ANTI-VIRUS

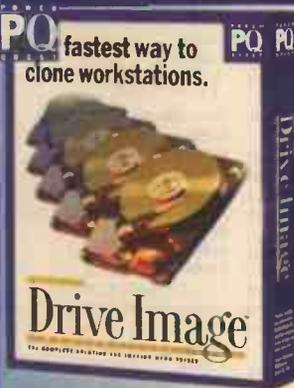
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| Dr. SOLOMON'S | | |
| Anti-Virus Toolkit | | |
| 01-93-0114 1 Year cover, 4 updates | £69 | £81.08 |
| 01-93-1112 1 Year cover, 12 updates | £124 | £145.70 |
| 01-93-1304 3 Year cover 4 updates p.a. | £129 | £151.58 |
| Anti-Virus Toolkit is designed 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 | £29 | £34.08 |
| McAfee | | |
| 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. | £19 | £22.33 |
| 05-97-0326 Security Suite | £44 | £51.70 |
| 05-97-0309 VS + WebScan X | £22 | £25.85 |
| 05-97-0327 WebScanX standalone | £18 | £21.15 |



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| 440LX Motherboards ECC | | |
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| 64MB KTM66X72/64 | £123 | £144.53 |
| 128MB KTM66X72/128 | £239 | £280.83 |

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| Compaq | | |
| DeskPro 2000, 4000, 6000 series | | |
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| 32MB KTC2430/32 | £67 | £78.73 |
| 64MB KTC2430/64 | £130 | £152.75 |

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| 32MB KTC2721/32 | £61 | £71.68 |
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| Deskpro 2000, 4000, 6000 MMX Series | | |
| 16MB KTC2428/16 | £25 | £29.38 |
| 32MB KTC2428/32 | £42 | £49.35 |
| 64MB KTC2428/64 | £87 | £102.23 |
| 128MB KTC2428/128 | £167 | £196.23 |

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| Deskpro EN, EP SDRAM 100MHz (non ECC) | | |
| 32MB KTC6611/32 | £56 | £65.80 |
| 64MB KTC6611/64 | £98 | £115.15 |
| 128MB KTC6611/128 | £180 | £211.50 |

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| Deskpro EN, EP SDRAM 100MHz | | |
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| 128MB KTC6615/128 | £205 | £240.88 |

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| Proliant 1600 Server | | |
| 32MB KTC3614/64 | £133 | £156.28 |
| 64MB KTC3614/128 | £245 | £287.88 |

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| Dell | | |
| Performance 425L/M, 433L/M, 433S: L/M, 450, L/M, 466L/M | | |
| Latitude 433 M/MC, 450 M/MCX, 475 M/C/D, LX4100 D/T | | |
| Optiplex 433, 450, 466, 4100 ME | | |
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| 8MB KTD-LMT/8 | £18 | £21.15 |
| 16MB KTD-LMT/16 | £23 | £27.03 |

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| Dimension XPS P100C, P100C, P120C, P133C, XPS PRO 150n, 180n | | |
| Dimension XPS P60, P75, P90 | | |
| Optiplex XLX/M/XT 575, 590, 5100, 5120, 5133 | | |
| Optiplex GL/GM/GMT 575, 590, 5100, 5120, 5133, 5166 | | |
| Optiplex GX/LGX/M/GXMT 590, 5100, 5120, 5133, 5150, 5166 | | |
| Optiplex Gs/L/GsM/GsMT 5133, 5166, 5200 | | |
| 16MB KTD-NPO/16 | £33 | £38.78 |
| 32MB KTD-NPO/32 | £43 | £50.53 |
| 64MB KTD-NPO/64 | £78 | £91.65 |

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|---|--------|---------|
| Dimension P133v, P166v, P200v | | |
| Dimension XPS P133s, P166s, M166s, M200s | | |
| 8MB KTD-SDRAM/8 | £46 | £54.05 |
| 16MB KTD-SDRAM/16 | £31 | £36.43 |
| 32MB KTD-SDRAM/32 | £50 | £58.75 |
| Optiplex GXPRO series | | |
| 16MB KTD-GXPRO/16 | £39 | £45.83 |
| 32MB KTD-GXPRO/32 | £65 | £76.38 |
| 64MB KTD-GX1/64 | £133 | £156.28 |
| 128MB KTD-GXPRO/128 | £214 | £251.45 |

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| Optiplex GX series (non-parity) | | |
| 32MB KTD-GXAN/32 | £53 | £62.28 |
| Optiplex GX series (ECC) | | |
| 32MB KTD-GXA/32 | £53 | £62.28 |
| 64MB KTD-GXA/64 | £108 | £126.90 |
| 128MB KTD-GXA/128 | £209 | £245.58 |
| Optiplex GX1 L/M/MT (non-ECC) | | |
| 32MB KTD-OPGX1/32 | £50 | £58.75 |
| Optiplex GX1 L/M/MT SDRAM 100MHz | | |
| 32MB KTD-OPGX1/32 | £56 | £65.80 |
| 64MB KTD-OPGX1/64 | £108 | £126.90 |
| 128MB KTD-OPGX1/128 | £209 | £245.58 |

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| Digital | | |
| Digital Hinote VP 520, 525, 535 | | |
| 16MB KTV-VP500/16 | £39 | £45.83 |
| 32MB KTV-VP500/32 | £68 | £79.90 |

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| Hewlett Packard | | |
| Pavilion 7270, 7275, 7280P, 7285, 7295V | | |
| 16MB KTH-VL4/16 | £33 | £38.78 |
| 32MB KTH-VL4/32 | £67 | £78.73 |
| 64MB KTH-VL4/64 | £130 | £152.75 |
| Laserjet 4000s and 5000s | | |
| 16MB KTH-LJ4000/16 | £28 | £32.90 |
| 32MB KTH-LJ4000/32 | £36 | £42.30 |
| 64MB KTH-LJ4000/64 | £59 | £69.33 |

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| Vectra VL7 | | |
| 16MB KTHS361/16 | £28 | £32.90 |
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| 64MB KTHS361/64 | £112 | £131.60 |
| Kayak XA PII, Vectra VEB, VL8 | | |
| 32MB KTH6501/32 | £56 | £65.80 |
| 64MB KTH6501/64 | £103 | £121.03 |

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| IBM | | |
| Thinkpad 760 series, ELDs, 560s, 360s, 380s | | |
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| Thinkpad 770 | | |
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| PC300GL (6561, 6591), Aptiva 2142, 2140 | | |
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| 128MB KTM0069/128 | £209 | £245.58 |
| PC300PL (6562, 6592) | | |
| 32MB KTM0076/32 | £64 | £75.20 |
| 64MB KTM0076/64 | £112 | £131.60 |
| 128MB KTM0076/128 | £214 | £251.45 |
| Netfinity 3000 SDRAM 100MHz | | |
| 32MB KTM1133/32 | £58 | £68.15 |
| 64MB KTM1133/64 | £115 | £135.13 |
| 128MB KTM1133/128 | £221 | £259.68 |
| PC300PL (Pentium II) SDRAM 100MHz | | |
| 32MB KTM1136/32 | £53 | £62.28 |
| 64MB KTM1136/64 | £103 | £121.03 |
| 128MB KTM1136/128 | £199 | £233.83 |

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| Toshiba | | |
| Tecra 750s, Portege 650, 660s | | |
| 32MB KTT650/32 | £56 | £65.80 |
| 64MB KTT650/64 | £100 | £117.50 |
| 128MB KTT650/128 | £249 | £292.58 |
| Portege 610 CT, Satellite 110CS/CT, 115CS, 200CDS, 205CDS | | |
| Satellite Pro 420/425/430 CDS/CDT | | |
| 8MB KTT610/8 | £25 | £29.38 |
| 16MB KTT610/16 | £37 | £44.48 |
| 32MB KTT610/32 | £61 | £73.43 |
| Tecra 500 & 510 CDS/CDT | | |
| Satellite Pro 440, 445, 460, 470, 480 CDX/CDT | | |
| 32MB KTT500/32 | £65 | £76.38 |
| 48MB KTT500/48 | £90 | £105.75 |
| 128MB KTT500/128 | £195 | £229.13 |

| Part No | ex VAT | inc VAT |
|---|--------|---------|
| Tecra 8000, Portege 7000, Satellite 4000, 4005 | | |
| 32MB KTT8000/32 | £49 | £57.58 |
| 64MB KTT8000/64 | £93 | £109.28 |

72 Pin SIMMs

| Part No | ex VAT | inc VAT |
|---|--------|---------|
| 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 |

| Part No | ex VAT | inc VAT |
|--------------------------------|--------|---------|
| 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 |

| Part No | ex VAT | inc VAT |
|----------------------------|--------|---------|
| 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 |

| Part No | ex VAT | inc VAT |
|-------------------------|--------|---------|
| 168 Pin DIMMs | | |
| SDRAM Non-Parity | | |
| 64MB KTM66x64/64 | £112 | £131.60 |
| 64MB KTM100x64C2/64 | £100 | £117.50 |
| 128MB KTM66x64/128 | £214 | £251.45 |

| Part No | ex VAT | inc VAT |
|---------------------|--------|---------|
| 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 |

| Part No | ex VAT | inc VAT |
|-------------------------------------|--------|---------|
| 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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THE BEST YOU'LL GET

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) | £29 | £34.08 |
| 19-95-6468 | 64MB (8 x 64) | £59 | £69.33 |
| 19-95-1280 | 128MB (16 x 64) | £109 | £128.08 |
| 19-95-2560 | 256MB (32 x 64) | £479 | £562.83 |

100MHz - PC100

100MHz SDRAM modules require an Intel BX chipset.

| | | | |
|------------|-----------------|------|---------|
| 19-95-3201 | 32MB (4 x 64) | £35 | £41.13 |
| 19-95-6401 | 64MB (8 x 64) | £59 | £69.33 |
| 19-95-1281 | 128MB (16 x 64) | £115 | £135.13 |

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) | £9 | £10.58 |
| 13-97-1601 | 16Mb (4 x 32) | £22 | £25.85 |
| 13-97-3201 | 32Mb (8 x 32) | £44 | £51.70 |
| 13-97-6401 | 64Mb (16 x 32) | £79 | £92.83 |
| 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 | £8 | £9.40 |
| 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 | £26 | £30.55 |
| 13-97-1607 | 16Mb (4 x 32) 70ns | £29 | £34.08 |
| 13-97-3206 | 32Mb (8 x 32) 60ns | £59 | £69.33 |
| 13-97-3207 | 32Mb (8 x 32) 70ns | £53 | £62.28 |

Full Parity (36-bit)

| | | | |
|------------|----------------------|-----|--------|
| 13-97-0117 | 1Mb (256k x 36) 70ns | £24 | £28.20 |
| 13-97-0217 | 2Mb (512k x 36) 70ns | £15 | £17.63 |
| 13-97-0416 | 4Mb (1 x 36) 60ns | £10 | £11.75 |
| 13-97-0417 | 4Mb (1 x 36) 70ns | £10 | £11.75 |
| 13-97-0816 | 8Mb (2 x 36) 60ns | £18 | £21.15 |
| 13-97-0817 | 8Mb (2 x 36) 70ns | £18 | £21.15 |
| 13-97-1616 | 16Mb (4 x 36) 60ns | £25 | £29.38 |
| 13-97-1617 | 16Mb (4 x 36) 70ns | £33 | £38.78 |
| 13-97-3216 | 32Mb (8 x 36) 60ns | £44 | £51.70 |
| 13-97-3217 | 32Mb (8 x 36) 70ns | £65 | £76.38 |

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 | £5 | £5.88 |
| 10-97-1983 | 1Mb (1 x 9) 80ns | £4 | £4.70 |
| 10-97-4963 | 4Mb (4 x 9) 60ns | £8 | £9.40 |

9-chip

| | | | |
|------------|--------------------|-----|--------|
| 10-97-1969 | 1Mb (1 x 9) 60ns | £8 | £9.40 |
| 10-97-1979 | 1Mb (1 x 9) 70ns | £9 | £10.58 |
| 10-97-1989 | 1Mb (1 x 9) 80ns | £5 | £5.88 |
| 10-97-4969 | 4Mb (4 x 9) 60ns | £11 | £12.93 |
| 10-97-7976 | 16Mb (16 x 9) 60ns | £28 | £32.90 |

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 | £19 | £22.33 |
| 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.

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.

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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 Farnham Rd Slough Berkshire SL2 1HA



ALL MAJOR CREDIT CARDS ACCEPTED

MEMORY : SIMMS & DIMMS

For SMC's unique guarantee : see page 2



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



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 (ECC) | £145 | £170.38 |
| 09-31-8400 | PII 400MHz - 100MHz bus (ECC) | £249 | £292.58 |
| 09-31-8450 | PII 450MHz - 100MHz bus (ECC) | £379 | £445.33 |

Celeron - Slot 1 with 128k cache

Boxed, with HS & Fan (3 Yr Warranty)

| | | | |
|------------|-------------------------------|-----|--------|
| 09-31-8305 | PII 300MHz - 66MHz bus (128k) | £63 | £74.03 |
| 09-31-8335 | PII 333MHz - 66MHz bus (128k) | £75 | £88.13 |



AMD

K6-2 with 3DNow - Super Socket 7

| | | | |
|------------|--------------------------|------|---------|
| 09-05-2300 | 300MHz, 3.3v, 100MHz bus | £55 | £64.63 |
| 09-05-2333 | 333MHz, 3.3v, 95MHz bus | £69 | £81.08 |
| 09-05-2350 | 350MHz, 3.3v, 100MHz bus | £89 | £104.58 |
| 09-05-2380 | 380MHz, 3.3v, 95MHz bus | £119 | £139.83 |
| 09-05-2400 | 400MHz, 3.3v, 100MHz bus | £175 | £205.63 |

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 | £44 | £51.70 |

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 | £10 | £11.75 |
| 09-95-5400 | Intel Pentium/AMD K6 | £14 | £16.45 |
| 09-95-9000 | Intel Celeron | £10 | £11.75 |

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 5/7 ZIF) | £108 | £126.90 |
| 09-31-6333 | 300/333MHz Pentium II OverDrive for Pentium pro (Socket 8 ZIF) | £349 | £410.08 |

All INTEL Overdrive Processors come complete with built-on fan.



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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, 3x 3.5", 2x 5.25" bays | £39 | £45.83 |
| 70-97-1910 | Full Tower, 3x 3.5", 6x 5.25" bays | £59 | £69.33 |

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 | £72 | £84.60 |



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 | £59 | £69.33 |
| 70-97-3912 | Full Tower, 4x 3.5", 6x 5.25" bays | £85 | £99.88 |

PC-ATX : 200w PSU

| | | | |
|------------|------------------------------------|-----|---------|
| 70-97-3330 | Desktop, 3x 3.5", 2x 5.25" bays | £72 | £84.60 |
| 70-97-3790 | Mini Tower, 4x 3.5", 2x 5.25" bays | £69 | £81.08 |
| 70-97-3730 | Midi Tower, 4x 3.5", 3x 5.25" bays | £89 | £104.58 |
| 70-97-3930 | Full Tower, 4x 3.5", 6x 5.25" bays | £97 | £113.98 |

All cases are supplied with power supply units, power cables, screws and motherboard mounts.

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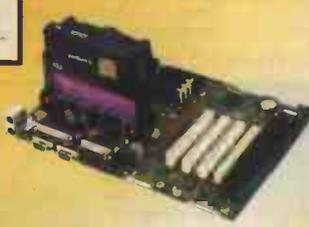
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| intel | G | ASUS | M | | | | | | | | | | | | | | | |
|--|----------|-------------|---------|---------|------------|----------|---------------|------------|-------|------------|------------|----------|-----------|-----------|---------------|------------|--------|---------|
| SMC Ref | Make | Model | Bus MHz | Chipset | Max. Intel | Max. AMD | Max. AMD K6-2 | Max. Cyrix | Cache | SIMM slots | DIMM slots | AGP slot | PCI slots | ISA slots | PCI/ISA slots | Other | ex VAT | inc VAT |
| Pentium - Socket 7 / Super Socket 7 | | | | | | | | | | | | | | | | | | |
| AT | | | | | | | | | | | | | | | | | | |
| 07-99-0520 | ASUS | P5A-B | 100 | ALIV | 233 | 300 | 350 | 333 | 512k | 0 | 3 | Y | 2 | 1 | 1 | UH | £58 | £68.15 |
| 07-99-0525 | ASUS | P5A-B/AUDIO | 100 | ALIV | 233 | 300 | 350 | 333 | 512k | 0 | 3 | Y | 2 | 1 | 1 | UH, S | £61 | £71.68 |
| 07-97-5320 | TMC | A15VG+ | 100 | MVP3 | 233 | 350 | 450 | 333 | 512k | 2 | 3 | Y | 3 | 1 | 1 | UH | £52 | £61.10 |
| ATX | | | | | | | | | | | | | | | | | | |
| 07-99-0530 | ASUS | P5A | 100 | ALIV | 233 | 300 | 350 | 333 | 512k | 0 | 3 | Y | 4 | 1 | 1 | UP | £61 | £71.68 |
| 07-99-0535 | ASUS | P5A/AUDIO | 100 | ALIV | 233 | 300 | 350 | 333 | 512k | 0 | 3 | Y | 4 | 1 | 1 | UP, S | £68 | £79.90 |
| 07-97-5315 | TMC | T15VG | 66 | VP3 | 233 | 233 | - | 266 | 512k | 4 | 3 | Y | 3 | 2 | 1 | UP | £44 | £51.70 |
| 07-97-5901 | TMC | T15TT | 66 | TX | 233 | 300 | - | 266 | 512k | 4 | 2 | - | 3 | 3 | 1 | UH | £53 | £62.28 |
| 07-97-5325 | TMC | T15VG+ | 100 | MVP3 | 233 | 350 | 450 | 333 | 1MB | 2 | 3 | Y | 4 | 1 | 1 | UP | £59 | £69.33 |
| Pentium II - Slot 1 | | | | | | | | | | | | | | | | | | |
| ATX | | | | | | | | | | | | | | | | | | |
| 07-99-0700 | ASUS | P2L97 | 66 | LX | 333 | - | - | - | - | - | 3 | Y | 4 | 1 | 1 | UP | £75 | £88.13 |
| 07-99-0730 | ASUS | P2B | 100 | BX | 450 | - | - | - | - | - | 3 | Y | 3 | 2 | 1 | UP | £95 | £111.63 |
| 07-99-0732 | ASUS | P2B-S | 100 | BX | 450 | - | - | - | - | - | 4 | Y | 3 | 1 | 1 | UP, SC | £189 | £222.08 |
| 07-99-0735 | ASUS | P2B/LS | 100 | BX | 450 | - | - | - | - | - | 4 | Y | 3 | 1 | 1 | UP, SC, L | £225 | £264.38 |
| 07-99-0739 | ASUS | P2B/DS | 100 | BX | 450 | - | - | - | - | - | 4 | Y | 3 | 1 | 1 | UP, DP, SC | £282 | £331.35 |
| 07-93-7002 | Gigabyte | GA-686BXE | 100 | BX | 450 | - | - | - | - | - | 4 | Y | 4 | 1 | 1 | UP | £85 | £99.88 |
| 07-93-7021 | Gigabyte | GA-686BXDS | 100 | BX | 450 | - | - | - | - | - | 4 | Y | 3 | 2 | 1 | DS, SC | £172 | £202.10 |
| 07-31-2098 | Intel | SE440BX | 100 | BX | 450 | - | - | - | - | - | 3 | Y | 3 | 1 | 1 | UP | £88 | £103.40 |
| 07-97-2450 | TMC | T16NB | 100 | BX | 450 | - | - | - | - | - | 4 | Y | 4 | 1 | 1 | UP | £75 | £88.13 |
| 07-97-2470 | TMC | TD6NB | 100 | BX | 450 | - | - | - | - | - | 4 | Y | 4 | 1 | 1 | DP | £279 | £327.83 |
| 07-97-2460 | TMC | T16NB5+ | 100 | BX | 450 | - | - | - | - | - | 3 | Y | 3 | 2 | 1 | 64Mb | £125 | £146.88 |

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

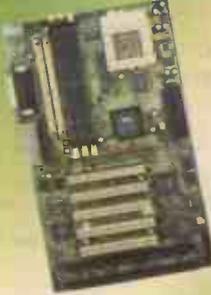
NOTE : 100MHz bus motherboards require PC100 memory modules when processor bus speed exceeds 66MHz
CHIPSETS : TX, LX and BX are Intel chipsets. ALIV is by Aladdin. VP3 and MVP3 are VIA chipsets.



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07-97-5325
£59
£69.33 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.

FULL OF TIPS



For SMC's unique guarantee : see page 2

MOTHERBOARDS



ALL MAJOR CREDIT CARDS ACCEPTED



No. F540989

LATEST PRODUCTS - LOWEST PRICES - TOTAL QUALITY !**On-line order tracking**

SMC's on-line service for order tracking is available on our website at smcdirect.co.uk : just enter the delivery postcode and order reference number, and you can track the status of your order, not merely whether despatched, but letting you know reasons for any delay along with expected delivery dates.

SMC prides itself on always maintaining personal contact, and will never remove your telephone link to our Customer Care staff. But the on-line service is quick, automatic, and with 24-hour availability, it represents more action on our commitment to maintaining our customer service at the highest level in the market.

OPTICAL DRIVES

ex VAT inc VAT

Fujitsu

50-24-0643 MCB30645S 640MB Internal £229 £269.08

Olympus

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 £999 £1173.83

All above units are SCSI devices requiring a SCSI Controller.

PANASONIC PD DRIVES

ex VAT inc VAT

LFI196AB51-57-0811 Internal EIDE drive,
8-Speed CD + 650Mb Optical £189 £222.08**LFI500EPB**51-57-0815 Parallel Port drive,
8-speed CD + 650Mb Optical £239 £280.83**FLOPPY DRIVES**

ex VAT inc VAT

Internal

39-97-0350 3.5" 1.44MB, 1" high drive £15 £17.63

Parallel Port**Micro Solutions BackPack**

Require a working floppy drive for installation of software drivers.

39-42-0350 3.5" 1.44MB parallel port drive
(Supports 720k DD format) £72 £84.60

39-42-0525 5.25" 1.2MB parallel port drive
(Does not support 360k DD format) £109 £128.08



ex VAT inc VAT

FLIP DISK

All drives work via PCMCIA and are quoted as actual native sizes

37-92-9021 2.1GB £264 £310.20

37-92-9032 3.2GB £327 £384.23

37-92-9040 4.0GB £349 £410.08

37-92-9066 6.4GB £469 £551.08

Accessories

01-92-0221 2 to 1 compression software £22 £25.85

75-92-0122 Parallel Port/Keyboard cable set £33 £38.78

Baby ZIP

37-92-0100 PCMCIA 100Mb ZIP External £175 £205.63

BABY ZIP**Portable Zip Drive****Key Features**

- Powered directly from your computer
- Uses Standard Iomega 100Mb ZIP disks
- PCMCIA Type II connection
- No specific drivers required
- Windows 95/98 Plug & Play
- 16bit data transfer - up to 3.3Mb/s
- Automatic media verification during format

**FLIP DISK****Portable Hard Drive****Key Features**

- No power cables required
- Instantly increase your hard drive capacity
- PCMCIA interface, Plug & Play
- Up to 12.8Gb* using *Novadisk compression software
- Transfer data between your Laptop and Desktop
- Store and run programs and files
- Optional parallel port cables



FREE LIFETIME TECHNICAL SUPPORT

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"FH, 65 watt £94 £110.45

73-95-9412 2 x 5.25"HH, Conversion Kit for 73-97-6114 £12 £14.10

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 £159 £186.83

73-95-9524 4 x 5.25"HH, Conversion Kit for 73-97-6215 £18 £21.15

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 £25 £29.38

73-97-6415 4 x 5.25"FH, 4 x 65 watt £293 £344.28

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 £179 £210.33

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 £119 £139.83

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) £14 £16.45

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 £29 £34.08

79-97-3504 SCSI (50-pin) - Metal frame £45 £52.88

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 £89 £104.58

79-97-4003 SCA SCSI (68-pin ext, 80-pin int)
for up to 3x 3.5" HDD's, all LP £149 £175.08

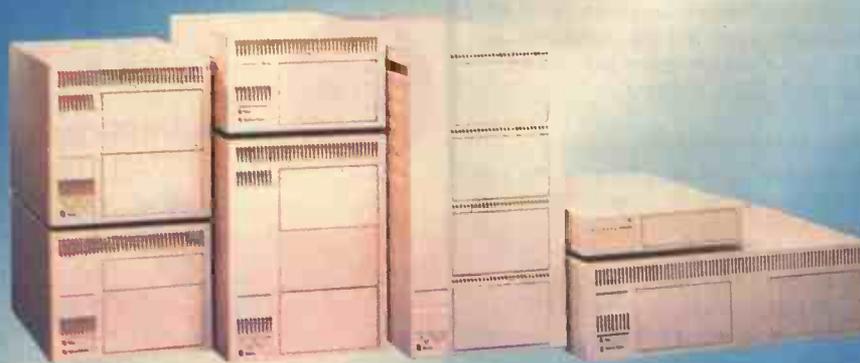
PARALLEL PORT DRIVE BOXES

ex VAT inc VAT

73-97-1183 For IDE / EIDE / Ultra-IDE drives £65 £76.38

73-97-1430 For 5.25" devices £72 £84.60

An 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.

REMOVABLE, OPTICAL, PD & FLOPPY DRIVES, DRIVE BOXES & KITS

SMC Direct exists to provide a reliable service of the highest quality to all PC users, whether personal end-users, small businesses or large organisations. We invite you to benefit from our unique and total commitment to the highest standards of customer care.

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THE BEST YOU'LL GET

IOMEGA REMOVABLE & TAPE DRIVES

For SMC's unique guarantee : see page 2



The Zip® drive: The capacity to do more™

If you're looking for a new personal data storage system, it's probably because you need the ability to do more. You need look no further. The immense capacity of the 100MB Zip® drive lets you do more. Much more! Not just store more, but create, transport and share more as well. In fact, everything you need to do with a computer. And the Zip drive has the speed and capacity that today's and tomorrow's intensive multimedia applications require. Now Isn't that just why you're looking for a personal storage system?

250MB - Zip Red

Two and one-half times larger capacity than the original Zip 100MB drive, Zip 250 drive uses new Zip 250MB disks. The Zip 250 drives also read and write to 100MB disks.



IOMEGA ZIP

| | ex VAT | inc VAT |
|---|--------|---------|
| Zip Red (250MB) | | |
| 35-35-0255 SCSI - External | £129 | £151.58 |
| 35-35-0250 Parallel port | £139 | £163.33 |
| Zip 100MB | | |
| 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 | £88 | £103.40 |
| 37-35-0100 Parallel port | £79 | £92.83 |
| 37-35-0161 Parallel port+6 media | £109 | £128.08 |
| 100MB Notebook (CNF) Drives - Intl | | |
| 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 |
| 100MB 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 2GB Jaz® drive: The Super Fast, Extremely Vast Personal Storage Drive™

The Jaz® drive is the high performance personal storage solution for really big files and applications. There's room enough to store huge graphics, hefty databases, audio and video files, or even to back up your entire hard drive.

IOMEGA JAZ

| | ex VAT | inc VAT |
|--|--------|---------|
| SCSI Drives | | |
| 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 Ditto Max Professional™ drive: It's Like Insurance for the Important Stuff on your PC™

Four times faster than other tape drives, the Ditto Max Professional™ drive is the best way to back up and recover your system. Usable with 3GB, 5GB, 7GB and 10GB cartridges, it's a flexible, professional way to protect your stuff.



IOMEGA DITTO

| | ex VAT | inc VAT |
|--|--------|---------|
| 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 |



The Buz Multimedia Producer™: the Coolest Way to Edit Multimedia on your PC™

Iomega's Buz Multimedia Producer™ is the complete hardware/software package that lets you add digital pictures, sounds and great special effects to your home videos. The mouse-sized Buz Box is a single connection for VCRs camcorders, CDs or DVD players. The UltraSCSI Controller allows you to connect with your source devices such as your CD-ROM, Jaz® drive, Zip® drive or even your scanner.

IOMEGA BUZ

| | ex VAT | inc VAT |
|---------------------------------|--------|---------|
| 62-35-0700 Multimedia Card SCSI | £149 | £175.08 |

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ALL MAJOR CREDIT CARDS ACCEPTED



No. FS40989

**AT YOUR SERVICE: THE UK'S TOTAL QUALITY SUPPLIER****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 Iomega 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.

ULTRA-SCSI HARD DRIVES

Part No Size Make Model Cache ex VAT inc VAT

Ultra-SCSI

Ultra-SCSI drives transfer data at 20Mb/sec and use a 50-pin connector

| | | | | | | | | |
|------------|--------|-------------|------------|----------------|-------|-------|---------|---------|
| 35-86-4363 | 4.3GB | Western Dig | E4360-0003 | Enterprise512k | 8ms | £219 | £257.33 | |
| 35-70-4520 | 4.5GB | Seagate | ST34520N | 512k | 9.5ms | £145 | £170.38 | |
| 35-70-4573 | 4.5GB | Seagate | ST34573N | 512k | 7.1ms | £259 | £304.33 | |
| 35-30-4529 | 4.5GB | IBM | 00K3980 | Ultrastar | 512k | 7.5ms | £165 | £193.88 |
| 35-70-6530 | 6.5GB | Seagate | ST36530N | 512k | 9.5ms | £199 | £233.83 | |
| 35-30-9188 | 9.1GB | IBM A/V | 59H6588 | Ultrastar | 512k | 7.5ms | £299 | £351.33 |
| 35-70-9140 | 9.1GB | Seagate | ST39140N | 512k | 9.5ms | £267 | £313.73 | |
| 35-70-9173 | 9.1GB | Seagate | ST39173N | Barracuda | 512k | 7.5ms | £289 | £339.58 |
| 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 | £299 | £351.33 |
| 35-30-1800 | 18GB | IBM | 59H6589 | Ultrastar | 512k | 7.5ms | £529 | £621.58 |
| 35-70-8273 | 18.2GB | Seagate | ST118273N | 512k | 7.1ms | £549 | £645.08 | |
| 35-64-1820 | 18.2GB | Quantum | TD318200S | Atlas III | 1MB | 7.5ms | £519 | £609.83 |

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 | E2170-0007 | Enterprise512k | 8ms | £169 | £198.58 | |
| 35-24-4303 | 4.3GB | Fujitsu | MAB3045SP | 512k | 7.5ms | £214 | £251.45 | |
| 35-30-4318 | 4.3GB | IBM | 22L0278 | 512k | 8.5ms | £143 | £168.03 | |
| 35-86-4367 | 4.3GB | Western D | E4360-0007 | Enterprise512k | 8ms | £233 | £273.78 | |
| 35-30-4547 | 4.5GB | IBM | 00K4000 | Ultrastar | 512k | 7.5ms | £155 | £182.13 |
| 35-64-4550 | 4.5GB | Quantum | PX4550SV | Viking II | 512k | 7.5ms | £169 | £198.58 |
| 35-70-4521 | 4.5GB | Seagate | ST34520V | 512k | 9.5ms | £145 | £170.38 | |
| 35-70-4574 | 4.5GB | Seagate | ST34573V | 512k | 7.1ms | £259 | £304.33 | |
| 35-24-3046 | 4.5GB | Fujitsu | MAC3045SP | 512k | 7.5ms | £295 | £346.63 | |
| 35-70-6531 | 6.5GB | Seagate | ST36530V | 512k | 9.5ms | £199 | £233.83 | |
| 35-24-9105 | 9.1GB | Fujitsu | MAB3091SP | 496k | 7.5ms | £349 | £410.08 | |
| 35-24-3092 | 9.1GB | Fujitsu | MAC3091SP | 512k | 7.5ms | £424 | £498.20 | |
| 35-30-0211 | 9.1GB | IBM | 22L0211 | UltrastarES | 512k | 7.5ms | £275 | £323.13 |
| 35-30-9190 | 9.1GB | IBM A/V | 59H6590 | Ultrastar | 512k | 7.5ms | £299 | £351.33 |
| 35-70-9141 | 9.1GB | Seagate | ST39140V | 512k | 9.5ms | £259 | £304.33 | |
| 35-70-9174 | 9.1GB | Seagate | ST39173V | Barracuda | 512k | 7.5ms | £289 | £339.58 |
| 35-86-9107 | 9.1GB | Western Dig | E9100-007 | 512k | 7.9ms | £299 | £351.33 | |
| 35-86-9108 | 9.1GB | Western Dig | E9100-0016 | (A/V) | 512k | 8ms | £319 | £374.83 |
| 35-30-1891 | 18GB | IBM | 59H6591 | Ultrastar | 512k | 7.5ms | £529 | £621.58 |
| 35-24-1800 | 18GB | Fujitsu | MAA3182SP | 512k | 8ms | £649 | £762.58 | |
| 35-70-8274 | 18.2GB | Seagate | ST118273V | 512k | 7.1ms | £549 | £645.08 | |

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 | £259 | £304.33 | |
| 35-70-4502 | 4.5GB | Seagate | ST34502LV | 1MB | 5.4ms | £325 | £381.88 | |
| 35-86-9117 | 9.1GB | Western Dig | E9100-0024 | 512k | 7.8ms | £329 | £386.58 | |
| 35-86-9118 | 9.1GB | Western Dig | E9100-AV0030 | (A/V) | 512k | 7.8ms | £359 | £421.83 |
| 35-70-9102 | 9.1GB | Seagate | ST39102LV | 1MB | 5.4ms | £429 | £504.08 | |
| 35-64-9108 | 9.1GB | Quantum | TD309100LW | Atlas III | 1MB | 7.5ms | £299 | £351.33 |
| 35-70-8275 | 18.2GB | Seagate | ST118273LV | 512k | 7.1ms | £549 | £645.08 | |
| 35-64-1827 | 18.2GB | Quantum | TD318200LW | Atlas III | 1MB | 7.5ms | £544 | £639.20 |

**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 ex VAT inc VAT

Ultra-wide SCSI

| | | | | | | | | |
|------------|--------|-------------|------------|-------|-------|------|---------|---------|
| 35-86-4368 | 4.3GB | Western Dig | E4360-0008 | 512k | 8ms | £235 | £276.13 | |
| 35-70-4522 | 4.5GB | Seagate | ST34520WC | 512k | 9.5ms | £145 | £170.38 | |
| 35-30-4020 | 4.5GB | IBM | 00K4020 | 512k | 7.5ms | £155 | £182.13 | |
| 35-24-3045 | 4.5GB | Fujitsu | MAB3045SC | 498k | 8ms | £219 | £257.33 | |
| 35-70-6531 | 6.5GB | Seagate | ST36530WC | 512k | 9.5ms | £199 | £233.83 | |
| 35-70-9142 | 9.1GB | Seagate | ST39140WC | 512k | 9.5ms | £279 | £327.83 | |
| 35-86-9106 | 9.1GB | Western Dig | E9100-0008 | 512k | 8ms | £319 | £374.83 | |
| 35-86-9105 | 9.1GB | Western Dig | E9100-0017 | (A/V) | 512k | 8ms | £319 | £374.83 |
| 35-24-3091 | 9.1GB | Fujitsu | MAB3091SC | 498k | 8ms | £349 | £410.08 | |
| 35-30-4010 | 9.1GB | IBM | 00K4010 | 512k | 7.5ms | £292 | £343.10 | |
| 35-30-6594 | 9.1GB | IBM | 59H6594 | 1MB | 6.5ms | £299 | £351.33 | |
| 35-30-7625 | 9.1GB | IBM | 05J7625 | 1MB | 7.5ms | £359 | £421.83 | |
| 35-30-6595 | 18.2GB | IBM | 59H6595 | 1MB | 7.5ms | £589 | £692.08 | |
| 35-24-3182 | 18.2GB | Fujitsu | MAA3182SC | 498k | 8ms | £677 | £795.48 | |

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 | £339 | £398.33 | |
| 35-86-9116 | 9.1GB | Western Dig | E9100-AV0034 | (A/V) | 512k | 7.8ms | £359 | £421.83 |

PRODUCT LINK**Drive cables & boxes page 24****ADAPTEC SCSI CONTROLLER CARDS**

Part No Model Interface Ext.Con DevicesBoot ex VAT inc VAT (Max) Bios

Kits (include software and internal cable)

| | | | | | | | |
|----------------|------------|-----------|--------------|---------|---|------|---------|
| ISA Bus | | | | | | | |
| 26-03-1542 | AHA1542CP | FastSCSI2 | Micro-D | 7&FD | Y | £149 | £175.08 |
| PCI Bus | | | | | | | |
| 26-03-2902 | AVA2902 | FastSCSI2 | 25pin D | 7Extrnl | N | £35 | £41.13 |
| 26-03-2910 | AHA2910B | FastSCSI2 | Micro-D | 7 | N | £55 | £64.63 |
| 26-03-2920 | AHA2920 | FastSCSI2 | Micro-D | 7 | Y | £69 | £81.08 |
| 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 | £219 | £257.33 |
| 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 |

PCMCIA (PC Card)

| | | | | | | | |
|------------|------------|-----------|---------------------|---|--|------|---------|
| 26-03-1460 | APA1460A-2 | FastSCSI2 | Micro-D, Centronics | 7 | | £95 | £111.63 |
| 26-03-1480 | APA1480 | UltraSCSI | Micro-D, Centronics | 3 | | £119 | £139.83 |

RAID 0, 1, 0/1, or 5 (PCI Bus-Netware & WinNT)

| | | | | | | | |
|------------|---------|-----------|--------------|----|---|------|---------|
| 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 | £435 | £511.13 |

Firewire/1394 (PCI)

| | | | | | | | |
|------------|----------|---------------------|--|--|--|------|---------|
| 26-03-8920 | AHA-8920 | 1394 | | | | £155 | £182.13 |
| 26-03-8945 | AHA-8945 | 1394 & Ultra-2 SCSI | | | | £339 | £398.33 |

Bare Cards (do not include software or cable)

Part No Model Interface Ext.Con DevicesBoot ex VAT inc VAT (Max) Bios

| | | | | | | | |
|----------------|-----------|-----------|--------------|------|---|------|---------|
| ISA Bus | | | | | | | |
| 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 |
| PCI Bus | | | | | | | |
| 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

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Scotland - 0800 597 8 333

FAX : 01753 524443

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For Customer Care and Switchboard Hotlines see Page 2

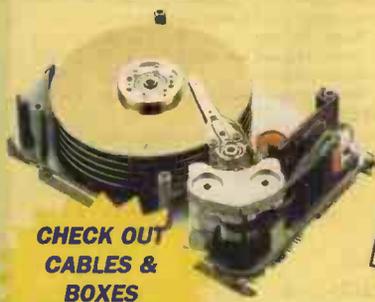
THE BEST YOU'LL GET

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

2.1Gb - 3.2Gb

| | | | | | | |
|------------|-------|-------------|-----------|------------|-----|--------|
| 30-24-3033 | 3.2GB | Fujitsu | MPC3032AT | 256k 10ms | £78 | £91.65 |
| 30-70-3210 | 3.2GB | Seagate | ST33210A | 256k 9.5ms | £77 | £90.48 |
| 30-86-3206 | 3.2GB | Western Dig | AC13200AU | 128k 12ms | £82 | £96.35 |
| 30-64-3201 | 3.2GB | Quantum | EX3200AT | 512k 9.5ms | £79 | £92.83 |

4.3Gb - 5.7Gb

| | | | | | | |
|------------|-------|-------------|-----------|------------|-----|---------|
| 30-24-3044 | 4.3GB | Fujitsu | MPC3043AT | 256k 10ms | £85 | £99.88 |
| 30-70-4321 | 4.3GB | Seagate | ST34321A | 128k 11ms | £81 | £95.18 |
| 30-39-4322 | 4.3GB | Maxtor | 90432D2 | 256k 9ms | £89 | £104.58 |
| 30-86-4302 | 4.3GB | Western Dig | AC14300AU | 256k 9.5ms | £89 | £104.58 |
| 30-64-5100 | 5.1GB | Quantum | EL5100AT | 512k 9.5ms | £89 | £104.58 |
| 30-86-5101 | 5.1GB | Western Dig | AC25100AU | 256k <11ms | £94 | £110.45 |

6.4Gb - 16.8Gb

| | | | | | | |
|------------|--------|-------------|-----------------|-------------|------|---------|
| 30-30-8084 | 6.4GB | IBM | 00K4115 | 512k 9.5ms | £133 | £156.28 |
| 30-70-6431 | 6.4GB | Seagate | ST36531A | 512k 11ms | £95 | £111.63 |
| 30-64-6401 | 6.4GB | Quantum | EX6400AT | 512k 9.5ms | £98 | £115.15 |
| 30-64-6405 | 6.4GB | Quantum | TS6400A 5.25" | 512k 10.5ms | £89 | £104.58 |
| 30-86-6401 | 6.4GB | Western Dig | AC26400AU | 256k <9.5ms | £99 | £116.33 |
| 30-24-3065 | 6.4GB | Fujitsu | MPC3064AT | 256k 10ms | £99 | £116.33 |
| 30-39-0680 | 6.8GB | Maxtor | 90680D4 | 256k 9ms | £99 | £116.33 |
| 30-39-0750 | 7.5GB | Maxtor | 90750D6 | 512k 9ms | £129 | £151.58 |
| 30-64-7600 | 7.6GB | Quantum | EL7600AT | 512k 9.5ms | £115 | £135.13 |
| 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 |
| 30-24-3084 | 8.4GB | Fujitsu | MPC3084AT | 256k 10ms | £118 | £138.65 |
| 30-39-8454 | 8.4GB | Maxtor | 90845D4 | 256k 9ms | £115 | £135.13 |
| 30-86-8401 | 8.4GB | Western Dig | AC28400AU | 256k 9.5ms | £119 | £139.83 |
| 30-70-8641 | 8.6GB | Seagate | ST38641A | 128k 11ms | £112 | £131.60 |
| 30-70-9140 | 9.1GB | Seagate | ST39140A | 512k 9.5ms | £135 | £158.63 |
| 30-39-1000 | 10.0GB | Maxtor | 91000D8 | 512k 9ms | £166 | £195.05 |
| 30-30-4091 | 10.1GB | IBM | 00K4091 | 512k 9.5ms | £129 | £151.58 |
| 30-30-5261 | 10.1GB | IBM | 03L5261 | 512k 9.5ms | £165 | £193.88 |
| 30-24-3102 | 10.2GB | Fujitsu | MPC3102AT | 256k 10ms | £145 | £170.38 |
| 30-39-1020 | 10.2GB | Maxtor | 91020D8 | 256k 9ms | £135 | £158.63 |
| 30-64-1020 | 10.2GB | Quantum | EL10200AT | 512k 9.5ms | £139 | £163.33 |
| 30-86-1020 | 10.2GB | Western Dig | AC310200AU | 256k 9.5ms | £159 | £186.83 |
| 30-39-1152 | 11.5GB | Maxtor | 91152D8 | 256k 9ms | £165 | £193.88 |
| 30-64-1200 | 12GB | Quantum | TX12000AT 5.25" | 128k 12ms | £135 | £158.63 |
| 30-64-1271 | 12.7GB | Quantum | EX12700AT 5.25" | 512k 9.5ms | £179 | £210.33 |
| 30-64-1275 | 12.7GB | Quantum | TS12700A 5.25" | 512k 10.5ms | £152 | £178.60 |
| 30-30-4083 | 12.9GB | IBM | 00K4083 | 512k 9.5ms | £129 | £151.58 |
| 30-39-1360 | 13.6GB | Maxtor | 91360D8 | 256k 9ms | £175 | £205.63 |
| 30-30-4071 | 14.4GB | IBM | 00K4071 | 512k 9.5ms | £229 | £269.08 |
| 30-30-4073 | 16.8GB | IBM | 00K4073 | 512k 9.5ms | £229 | £269.08 |
| 30-39-7288 | 17.2GB | Maxtor | 91728D8 | 512k 9ms | £225 | £264.38 |
| 30-64-1925 | 19.2GB | Quantum | TS19200A 5.25" | 512k 10.5ms | £222 | £260.85 |

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

ex VAT inc VAT

IDE

| | | | |
|------------|--------------------------------------|-----|--------|
| 24-95-1300 | IDESPC, ISA, 2HD/2FD, with I/O Ports | £17 | £19.98 |
|------------|--------------------------------------|-----|--------|

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 | £39 | £45.83 |
| 24-97-1120 | Promise Ultra ATA PCI RAID controller | £85 | £99.88 |
| 24-97-1361 | EIDEMAX 2, ISA, 2HD | £39 | £45.83 |

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) | £29 | £34.08 |

EIDE 2.5" HARD DRIVES

Part No Size Make Model Cache ex VAT inc VAT

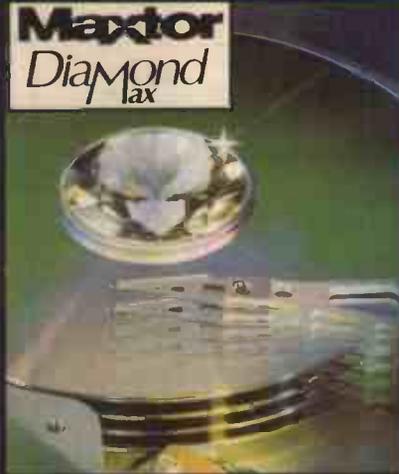
2.1Gb - 4.0Gb

| | | | | | | |
|------------|-------|---------|-----------|-----------|------|---------|
| 30-75-2109 | 2.1Gb | Toshiba | MK2109MAT | 512k 13ms | £102 | £119.85 |
| 30-75-3205 | 3.2Gb | Toshiba | MK3205MAV | 128k 13ms | £149 | £175.08 |
| 30-75-4310 | 4.3Gb | Toshiba | MK4310MAT | 128k 13ms | £179 | £210.33 |

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



NO DOUBTLE 3 year GUARANTEE

- 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

SMC Direct is a trading division of :
SMC Computers Plc

253-257 Farnham Rd Slough Berkshire SL2 1HA



ALL MAJOR CREDIT CARDS ACCEPTED



No. FS40989

LATEST PRODUCTS - LOWEST PRICES - TOTAL QUALITY!

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, DVD-ROM DRIVES

CD-ROM DRIVES

SCSI - Internal

32 - speed

With data transfer 4800 KB/sec

| | ex VAT | inc VAT |
|-------------------------------------|--------|---------|
| 51-93-3200 Plextor PX32Tsi 85ms (T) | £69 | £81.08 |
| 51-93-3210 Plextor PX32Csi 85ms (C) | £102 | £119.85 |
| 51-75-6201 Toshiba XM6201B (T) | £59 | £69.33 |
| 51-93-1532 Teac CD5325 (T) | £55 | £64.63 |

36 - speed

| | | |
|----------------------------|-----|--------|
| 51-62-0706 Pioneer DR-7065 | £52 | £61.10 |
|----------------------------|-----|--------|

40 - speed

Data transfer 6000 KB/sec

| | | |
|-------------------------------------|-----|--------|
| 51-93-4000 Plextor PX40T5I 85MS (T) | £85 | £99.88 |
|-------------------------------------|-----|--------|

SCSI - External

12 / 24 - speed

With data transfer 1800 KB/sec

| | | |
|---|------|---------|
| 51-62-1412 Pioneer DRM-6324X 6-disc Autochanger | £325 | £381.88 |
|---|------|---------|

32 - speed

Ultra SCSI, with data transfer 4800 KB/sec

| | | |
|-------------------------------------|------|---------|
| 51-93-3205 Plextor PX32Tse 85ms (T) | £102 | £119.85 |
| 51-93-3215 Plextor PX32Cse 85ms (C) | £139 | £163.33 |

40 - speed

Data transfer 6000 KB/sec

| | | |
|-------------------------------------|------|---------|
| 51-93-4001 Plextor PX40T5E 85MS (T) | £135 | £158.63 |
|-------------------------------------|------|---------|

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

24 - speed

MPC-3 Compatible, with data transfer 3600 KB/sec

| | | |
|-----------------------------|-----|--------|
| 51-95-2432 Samsung SCR2432E | £35 | £41.13 |
|-----------------------------|-----|--------|

32 - speed

MPC-3 Compatible, with data transfer 4800 KB/sec

| | | |
|-------------------------------------|-----|--------|
| 51-57-0588 Panasonic CR-588 | £30 | £35.25 |
| 51-48-0320 Mitsumi FX320 | £30 | £35.25 |
| 51-26-8322 LG G'star CRD-8322B 80ms | £29 | £34.08 |
| 51-93-0532 Teac CD532E 85ms | £33 | £38.78 |
| 51-95-3231 Samsung SCR3231E | £37 | £43.48 |

36 - speed

| | | |
|---|-----|--------|
| 51-62-0040 Pioneer DR-A145, 5400 KB/sec | £39 | £45.83 |
| 51-62-0704 Pioneer DR-7045 | £39 | £45.83 |

40 - speed

| | | |
|--------------------------------------|-----|--------|
| 51-99-0400 Asus CD-S400, 6000 KB/sec | £39 | £45.83 |
|--------------------------------------|-----|--------|

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 | £109 | £128.08 |
| 51-42-3204 32-speed with sound | £139 | £163.33 |

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 | £119 | £139.83 |
| 51-42-2400 Bantam 24-speed | £119 | £139.83 |
| 51-42-2404 Bantam 24-speed with sound | £139 | £163.33 |

Amacom EZCD

The EZCD drive has a 256K cache and 125ms access time

| | | |
|---------------------------------------|------|---------|
| 51-92-0024 24-speed | £87 | £102.23 |
| 51-92-1024 24-speed with 16-bit sound | £138 | £162.15 |
| 51-92-0032 32-speed | £92 | £108.10 |
| 51-92-1032 32-speed with 16-bit sound | £144 | £169.20 |

PCMCIA

Amacom EZCD Card

| | | |
|--|------|---------|
| 51-92-3024 24-speed, 125ms, 256k cache | £104 | £122.20 |
| 51-92-3032 32-speed, 256k cache | £109 | £128.08 |

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 | £154 | £180.95 |
|--|------|---------|

LG Electronics

| | | |
|--|------|---------|
| 51-26-8241 24-speed, 130ms, 128k cache | £115 | £135.13 |
|--|------|---------|

PRODUCT LINK

CD Sound Cables: See Page 24

DVD-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.

EIDE/ATAPI internal

| | ex VAT | inc VAT |
|--|--------|---------|
| 51-26-8200 LG 2x DVD (150ms), 24x CD (100ms) | £75 | £88.13 |
| 51-15-1700 Creative ENCORE kit with MPEG 2 decoder card 170ms DVD, 100ms CD | £159 | £186.83 |
| 51-15-0500 Creative ENCORE 5x kit with MPEG 2 decoder card & 5x DVDROM drive | £133 | £156.28 |
| 59-15-5128 Creative 5x DVD, PCI-128 Sound Card, Speakers | £129 | £151.58 |
| 51-57-8582 Panasonic SR8582 | £77 | £90.48 |
| 51-76-2500 Hitachi 4x DVD, 24x CD | £88 | £103.40 |
| 51-75-1202 Toshiba 4.8x DVD, 32x CD | £89 | £104.58 |
| 51-62-0103 Pioneer DVD-103 | £99 | £116.33 |



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

24x 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 **£75** (£88.13 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)

LG We put people first

Website <http://www.lge.co.kr>



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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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

TRAXDATA

CDRW 4260 EL/PRO

52-95-4260

£269

£316.08 inc. VAT



The Traxdata CDRW 4260 EL PRO supports rewritable CD media so that unlike standard CD media which when full can only be stored or thrown away you can erase the disk when full and use it again.

- 4 x write & 2 x rewrite capability
- Software supplied for CD mastering & packet writing

Just Audio Recording Studio

05-95-1010

£24

£28.20 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

£185

£217.38 inc. VAT

External 52-95-4128

£249

£292.58 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-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

These are Quad-Speed External units

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 £695 £816.63

With 16 bays and 14 CD ROM drives

51-75-1715 32-speed option £1495 £1756.63

Plextor

With 8 bays and 7 CD ROM drives

51-93-0809 32-speed option £755 £887.13

With 16 bays and 14 CD ROM drives

51-93-1517 32-speed option £1695 £1991.63

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 £1095 £1286.63

With 16 bays and 14 CD ROM drives

51-75-6214 XM6214/AX - 32-speed option £2095 £2461.63

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 £2295 £2696.63

Hewlett Packard

With 8 bays and 7 CD ROM drives

51-28-3277 J3277A - 32-speed option £1299 £1526.33

51-28-3278 J3278A - 32-speed option with

18MB RAM and external connector to daisy-chain additional towers £1449 £1702.58

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-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! All SCSI drives require a controller card.

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 £233 £273.78

52-28-4392 8100i EIDE/ATAPI int., 4x CD-RW £215 £252.63

Requires P133MHz, 32MB RAM, Win'95, free IDE channel/EPP port.

TraxData

99-95-0020 PRESSIT - CD Labeller £17 £19.98

2-speed write/rewrite, 6-speed play

52-95-2260 2260EL Pro - SCSI Internal £179 £210.33

52-95-2262 2260EL Plus - EIDE Internal £169 £198.58

4-speed write, 2-speed rewrite, 6-speed play

52-95-4260 4260EL Pro - SCSI Internal £269 £316.08

PCI SCSI controller & audio recording software are also available.

Yamaha

4-speed write, 2-speed rewrite, 6-speed play

Include drive, 1x media, Easy CD software & Direct CD.

52-93-4262 CRW4260TVK - Internal SCSI kit £189 £222.08

52-93-4264 CRW4260TX-VK - Extnl SCSI kit £239 £280.83

4-speed write/rewrite, 16-speed play. Include 1x CDR media, 1x CDRW media & software.

52-93-4417 CRW4416TVK - Internal SCSI kit £235 £276.13

52-93-4416 CRW4416TX-VK - Extnl SCSI kit £269 £316.08

PRODUCT LINK

Media : see Page 23

CD-RECORDERS

ex VAT inc VAT

All SCSI drives require a controller card.

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 £185 £217.38

52-95-4128 4120EL Pro - Internal SCSI drive £249 £292.58

Accessories

26-95-0002 PCI SCSI Controller £44 £51.70

05-95-1010 Just Audio Recording Software £24 £28.20

Plextor

4-speed write, 12-speed play

Plextor PX-R412C drives have 2Mb Cache and 190ms Access time.

Supplied with software and a free caddy. Warranty is 1 year.

52-93-4120 PX-R412Ci - Internal drive £199 £233.83

52-93-4125 PX-R412Ce - External drive £245 £287.88

8-speed write, 20-speed play. Tray-Loading with 4Mb Cache and 170ms Access time. Supplied with software..

52-93-8200 PX-R820Ti - Internal drive £299 £351.33

52-93-8205 PX-R820Te - External drive £355 £417.13



SureStore 7200e CD Re-Writer

52-28-4381

£233

£273.78 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.

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.

CD-RECORDERS, RE-WRITERS & TOWERS

For SMC's unique guarantee : see page 2

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ALL MAJOR CREDIT CARDS ACCEPTED

19



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.

DAT DRIVES

ex VAT inc VAT

Internal drives

Table listing internal DAT drives with columns for capacity, tape type, and price. Includes models like Seagate 4320, Sony SDT2000E, and HP DAT C1599A.

External Drives

Table listing external DAT drives with columns for capacity, tape type, and price. Includes models like HP DAT C1534-X, Seagate 4350, and HP DAT C1599A-X.

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

Table listing AIT drives with columns for capacity, tape type, and price. Includes models like Int 50GB AIT Drive and Ext 50GB AIT Drive.

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

Table listing Hewlett Packard SureStore DLT drives with columns for tape type and price.

TAPE DRIVES

ex VAT inc VAT

HP Colorado Travan

Table listing HP Colorado Travan tape drives with columns for capacity, tape type, and price.

Iomega Ditto

Table listing Iomega Ditto tape drives with columns for capacity, tape type, and price.

Seagate

Table listing Seagate tape drives with columns for capacity, tape type, and price.

TAPE SUPPORT PACKS

ex VAT inc VAT

Hewlett Packard

Table listing Hewlett Packard tape support packs with columns for model, price, and capacity.

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



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



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 £3995

DLT 40e (40GB capacity) 42-28-1579 £1949 (£2290.08 inc.VAT)

DRIVES : TAPE, DAT & DLT DRIVES

SMC Computers plc exists to provide a reliable service of the highest quality to all PC users, whether personal end-users, small businesses or large organisations. We invite you to benefit from our unique and total commitment to the highest standards of customer care.

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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 |
| 95-35-0210 | £65 | £76.38 | £60 | £70.50 | £58 | £68.15 |
| 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+ | |
| 95-97-0774 | £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 |
| 95-97-5374 | £9 | £10.58 | £8 | £9.40 | £7 | £8.23 |
| 95-97-5474 | £20 | £23.50 | £20 | £23.50 | £19 | £22.33 |
| 95-97-7174 | £3 | £3.53 | £2 | £2.35 | £1 | £1.18 |



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 | £15 | £17.63 | £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 | £11 | £12.93 | £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 | £18 | £21.15 | £18 | £21.15 | £17 | £19.98 |
| 95-95-9409 | £5 | £5.88 | £4 | £4.70 | £3 | £3.53 |
| 95-95-9412 | £9 | £10.58 | £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 |
| 95-35-2003 | £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.

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ALL MAJOR CREDIT CARDS ACCEPTED

MEDIA SELECTION

For SMC's unique guarantee : see page 2



No. FS40989



LATEST PRODUCTS - LOWEST PRICES - TOTAL QUALITY!

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, JOYSTICKS & DATA CABLES

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 | £5 | £5.88 |
| 75-95-1502 | Dual drive, 38 inches | £6 | £7.05 |
| 75-95-1503 | Triple drive, 38 inches | £10 | £11.75 |
| 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" | £5 | £5.88 |
| 75-95-1402 | Dual Drive - 18" (4" gap) | £6 | £7.05 |
| 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 | £6 | £7.05 |
| 75-95-3719 | 25-pin D to 68-pin Wide SCSI | £25 | £29.38 |
| 75-95-3551 | 50-pin Centronics to 50-pin Centronics | £8 | £9.40 |
| 75-95-3552 | 50-pin Centronics to 50-pin Centronics - 2 metres | £9 | £10.58 |
| 75-95-3571 | 50-pin Micro D to 50-pin Centronics | £10 | £11.75 |
| 75-95-3572 | 50-pin Micro D to 50-pin Centronics - 2 metres | £12 | £14.10 |
| 75-95-3721 | 50-pin Micro D to 25-pin D | £10 | £11.75 |
| 75-95-3771 | 50-pin Micro D to 50-pin Micro D | £10 | £11.75 |
| 75-95-3661 | Wide SCSI to Wide SCSI | £20 | £23.50 |

SCSI Adaptors

| | | | |
|------------|----------------------------|-----|--------|
| 75-95-9019 | SCA to 50-pin SCSI adaptor | £15 | £17.63 |
| 75-95-9021 | SCA to 68-pin SCSI adaptor | £19 | £22.33 |

Sound Cables

| | | | |
|------------|--|----|-------|
| 75-75-0404 | ATAPI to ATAPI, 4-4pin for EIDE CD-ROMs | £5 | £5.88 |
| 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 | £3 | £3.53 |
| 75-75-0757 | Toshiba Cable, 4-4 for 4xxx series | £3 | £3.53 |
| 75-75-0753 | Toshiba Cable, 4-4 for 5xxx series | £3 | £3.53 |

Power Cables

| | | | |
|------------|---|----|-------|
| 75-95-9357 | Power Splitter 'Y' Cable - converts single drive power lead to double | £3 | £3.53 |
|------------|---|----|-------|

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 |

USB Cables

Universal Serial Bus - the latest innovation in the peripheral market allowing 128 devices to be connected to a PC with USB ports.

| | | | |
|------------|--------------------|----|--------|
| 75-95-2000 | A-A type USB cable | £9 | £10.58 |
| 75-95-2004 | B-B type USB cable | £9 | £10.58 |
| 75-95-2008 | A-B type USB cable | £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.

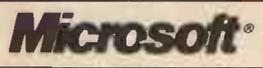
MICE

ex VAT inc VAT

| | | | |
|------------|---|-----|--------|
| 82-53-3153 | MS compatible mouse 9 pin serial, 2 buttons | £6 | £7.05 |
| 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 | £27 | £31.73 |
| 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 | £32 | £37.60 |
| 82-50-3192 | Microsoft Home 9 pin serial, 2 buttons | £15 | £17.63 |
| 82-50-0002 | Microsoft V.2 - 9 pin serial & PS/2 | £24 | £28.20 |
| 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 |

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 |
| 82-50-2030 | Freestyle Pro GamePad Available mid. October | £35 | £41.13 |
| 82-50-2090 | Force Feedback Steering Wheel Available mid. October | £109 | £128.08 |

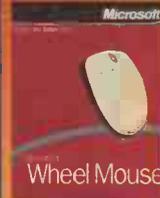


| | | | |
|------------|--|-----|--------|
| 82-91-2400 | PC Pro Joystick - 5 Fire buttons, analogue, adjustable handle settings | £18 | £21.15 |
| 82-91-2501 | PC Gamepad Pro Digital 10-button gamepad | £24 | £28.20 |

KEYBOARDS

ex VAT inc VAT

| | | | |
|------------|---|-----|--------|
| 82-50-3505 | For Windows 95/98 (105 key) 5-pin (AT) | £9 | £10.58 |
| 82-50-3509 | For Windows 95/98 (105 key) 6-pin Din (PS/2) | £10 | £11.75 |
| 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 |



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.

Microsoft Intellimouse Pro

82-50-0615

£32

£37.60 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.

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)



Microsoft Natural Elite Keyboard

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.

82-50-0012

£29

£34.08 inc.VAT



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THE BEST YOU'LL GET

SOUND CARDS

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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 £18 £21.15

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 £97 £113.98
53-15-7160 **SoundBlaster Live Value Edition**
Environmental audio for the gamer
complete with Unreal £49 £57.58

New Product !



53-15-7150

**Sound Blaster Live!
PCI Sound Card**

£97
(£113.98 inc.VAT)



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 £22 £25.85



53-97-1010 **Sonic Storm Pro**
3D positional system
HiFi quality audio with software £33 £38.78



SonicStorm Pro

Hi-fi quality PCI sound card with wavetable MIDI & 3D positional audio
Support for DOS & SoundBlaster
S/P-DIF output for digital recording direct to DAT or miniDisc
Very low CPU usage for faster gameplay
Includes Yamaha SoftSynth and JetAudio



DVD Player

- Second Generation DVD MPEG 2 decoder card for PC
- Stunning quality, high-definition digital video
- TV output to view the action on large-screen TV
- Stereo output for sound card connection and S/P-DIF output for Dolby Digital 5.1
- Comprehensive easy to use control centre
- Multiple camera angle and video format support (4:3 & 16:9 widescreen)



Summary

- Studio quality speaker system for the PC designed using pro audio techniques
- Delivers 100W true RMS (delivers over 1000W PMPO)
- Includes two satellite speakers, each with bass/midrange and separate tweeter, a sub-woofer and active filter/power amps
- Complete reproduction of audio frequency range & ultra low distortion
- For use with PC, game consoles, CD, MiniDisc, TVs, or DVD players

MULTIMEDIA KITS

ex VAT inc VAT

59-15-5128 **Sound Blaster PCI-128 Discovery**
5-speed DVD-ROM drive, PCI 128
sound card, 4.1 Surround Sound
Speakers & UNREAL: the game £129 £151.58
59-15-3300 **PCI-128 + 4 Point Speakers**
PCI 128 sound card, 4 Point
Surround Sound Speakers for full
environmental audio support £68 £79.90

**Sound Blaster PCI-128 Discovery –
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.

SPEAKERS

ex VAT inc VAT



57-15-0020 **CSW20 - 5 Watt RMS** £11 £12.93
57-15-0050 **CSW50 - 11Watt RMS** £23 £27.03
57-15-0100 **CSW100 (with Amplifier)**
17Watt RMS £36 £42.30
57-15-0200 **CSW200 (with Amplifier)**
23Watt RMS £65 £76.38
57-15-0350 **CSW350 (with Amplifier)**
68Watt RMS £105 £123.38
57-15-1000 **Creative 4-Point speakers**
10Watt RMS Surround Sound £42 £49.35



57-93-3105 **LCS-1024 - 10 watt** £34 £39.95



57-93-7133 **M15 - 10 watt** £35 £41.13
57-93-7135 **SS510 Sub Woofer for M15** £55 £64.63
57-93-0515 **YST-MSW5 Sub Woofer** £42 £49.35
57-93-5525 **YST-MSW5 Sub Woofer + Speakers** £55 £64.63
57-93-7100 **YST-M100 - 20 watt 3D with tweeters** £83 £97.53



57-50-0080 **Digital Sound System 80 - USB,**
Win98 only - available end October £119 £139.83



57-97-1000 **Sirocco 100W**
Subwoofer & speakers £175 £205.63

Superb analogue sound, superior digital sound.
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**Digital Sound
System 80**
57-50-0080

£119

£139.83 inc.VAT

PRODUCT LINK

CD-ROMs : see Page 20

Memory : see Pages

10 - 13

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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 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 | £44 | £51.70 |
|------------|-----------|-----|--------|

Stealth 220 PCI
The 220 PCI is based on Rendition V2100

| | | | |
|------------|-----------|-----|--------|
| 64-19-2200 | 4MB SGRAM | £29 | £34.08 |
|------------|-----------|-----|--------|

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 | £31 | £36.43 |
| 64-19-0132 | Speedstar DVD - 8Mb SGRAM | £35 | £41.13 |

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.

| | | | |
|------------|-----------------------|-----|---------|
| 64-19-0552 | V550 PCI - 16Mb SGRAM | £99 | £116.33 |
| 64-19-0554 | V550 AGP - 16Mb SGRAM | £99 | £116.33 |

Diamond Monster

3D add-on card which works in conjunction with your existing card.

| | | | |
|------------|---------------------------------|-----|---------|
| 64-19-8001 | Voodoo 3D 4MB PCI EDO-RAM | £64 | £75.20 |
| 64-19-0100 | Voodoo 3DII 8MB PCI (no games) | £75 | £88.13 |
| 64-19-0112 | Voodoo 3DII 12MB PCI (no games) | £89 | £104.58 |

Monster Sport - includes Formula 1 97 and World Cup 98 by EA

| | | | |
|------------|----------------------|------|---------|
| 64-19-0208 | Voodoo 3DII 8MB PCI | £85 | £99.88 |
| 64-19-0212 | Voodoo 3DII 12MB PCI | £109 | £128.08 |



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 | £85 | £99.88 Inc. VAT |
|------------|------------|-----------------|



Matrox Millennium II

Optimized 64-bit MGA-2164V dual-ported processor, 250MHz flicher-free RAMDAC.

| | | | |
|------------|-----------------------------|-----|---------|
| 64-95-6004 | 4Mb WRAM (Max 16Mb) for AGP | £99 | £116.33 |
|------------|-----------------------------|-----|---------|

Matrox Millennium II WRAM PCI/AGP upgrades

| | | | |
|------------|-----------------------------------|------|---------|
| 64-95-0042 | 4Mb upgrade | £52 | £61.10 |
| 64-95-0082 | 8Mb upgrade | £99 | £116.33 |
| 64-95-0122 | 12Mb upgrade (for 4Mb board only) | £139 | £163.33 |

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.

| | | | |
|------------|-----------------------------|------|---------|
| 64-95-0208 | 8Mb (Max 16Mb) for AGP | £85 | £99.88 |
| 64-95-0210 | 8MB Marvel | £133 | £156.28 |
| 64-95-8200 | 8MB SGRAM upgrade for above | £45 | £52.88 |

Matrox Productiva G100

Excellent entry 2D AGP graphics performance. 230MHz.

| | | | |
|------------|-------------|-----|--------|
| 64-95-5008 | 8Mb for AGP | £49 | £57.58 |
|------------|-------------|-----|--------|

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 | £99 | £116.33 |
|------------|------------------------------------|-----|---------|

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 | £85 | £99.88 |
| 64-95-8201 | 8MB upgrade for above | £29 | £34.08 |

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 |
|------------|---------------------------|-----|--------|



iomega buz

| | | | |
|------------|--------------------------|------|---------|
| 62-35-0700 | Video capture & playback | £149 | £175.08 |
|------------|--------------------------|------|---------|



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 | £59 | £69.33 |
| 64-53-2008 | Voodoo 3DII 8MB PCI | £109 | £128.08 |
| 64-53-2012 | Voodoo 3DII 12MB PCI | £139 | £163.33 |

Righteous 3D

Orchid Righteous
64-53-2030
£59

£69.33 inc VAT
(DOS/Windows 3.1x programs require accelerated drivers)

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 | £82 | £96.35 |
|------------|--------------------------|-----|--------|

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 | £67 | £78.73 |
|------------|----------------------------|-----|--------|



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 |
|------------|------------|-----------------|

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GRAPHICS & TV CARDS



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3D Graphics Cards - PCI

OEM packs

| | | | |
|------------|----------------------------|-----|---------|
| 64-97-0302 | Charger - 2Mb | £20 | £23.50 |
| 64-97-0304 | Charger - 4Mb | £25 | £29.38 |
| 64-97-0604 | XPERT @ Play - TV Out, 4Mb | £42 | £49.35 |
| 64-97-0608 | XPERT @ Play - TV Out, 8Mb | £52 | £61.10 |
| 64-97-0504 | XPERT @ Work - 4Mb | £37 | £43.48 |
| 64-97-0508 | XPERT @ Work - 8Mb | £49 | £57.58 |
| 64-97-0704 | All-in-Wonder Pro - 4Mb | £65 | £76.38 |
| 64-97-0708 | All-in-Wonder Pro - 8Mb | £89 | £104.58 |
| 64-97-1408 | TV TUNER - fits all cards | £45 | £52.88 |

Retail packs with 3D software titles

| | | | |
|------------|--------------------------|-----|---------|
| 64-97-1604 | XPERT @ Play TV Out, 4Mb | £63 | £74.03 |
| 64-97-1608 | XPERT @ Play TV Out, 8Mb | £80 | £94.00 |
| 64-97-1504 | XPERT @ Work - 4Mb | £56 | £65.80 |
| 64-97-1508 | XPERT @ Work - 8Mb | £72 | £84.60 |
| 64-97-1714 | All-in-Wonder Pro - 4Mb | £99 | £116.33 |
| 64-97-1718 | All-in-Wonder Pro - 8Mb | £89 | £104.58 |

3D Graphics Cards - AGP

OEM packs

| | | | |
|------------|----------------------------|-----|--------|
| 64-97-0614 | XPERT @ Play - TV Out, 4Mb | £49 | £57.58 |
| 64-97-0618 | XPERT @ Play - TV Out, 8Mb | £59 | £69.33 |
| 64-97-0514 | XPERT @ Work - 4Mb | £39 | £45.83 |
| 64-97-0518 | XPERT @ Work - 8Mb | £49 | £57.58 |
| 64-97-9808 | XPERT 98 - 8Mb | £37 | £43.48 |
| 64-97-0714 | All-in-Wonder Pro - 4Mb | £65 | £76.38 |
| 64-97-0718 | All-in-Wonder Pro - 8Mb | £72 | £84.60 |

Retail packs with 3D software titles

| | | | |
|------------|--------------------------|------|---------|
| 64-97-9818 | XPERT 98 - 8Mb | £49 | £57.58 |
| 64-97-1704 | All-in-Wonder Pro - 4Mb | £99 | £116.33 |
| 64-97-1708 | All-in-Wonder Pro - 8Mb | £109 | £128.08 |
| 64-97-9850 | XPERT 128 - 16Mb AGP | £75 | £88.13 |
| 64-97-9900 | RAGE FURY 128 - 32Mb AGP | £119 | £139.83 |

| | | | |
|------------|---------------------------------|-----|--------|
| 19-97-0400 | Extra 4Mb SGRAM (all 4Mb cards) | £23 | £27.03 |
|------------|---------------------------------|-----|--------|



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Express 3D

| | | | |
|------------|---------|-----|--------|
| 64-31-0204 | 4Mb AGP | £44 | £51.70 |
| 64-31-0208 | 8Mb AGP | £44 | £51.70 |



DVD Player

| | | | |
|------------|--------------------------------------|-----|---------|
| 64-97-0290 | DVD player - PCI, MPEG playback card | £89 | £104.58 |
|------------|--------------------------------------|-----|---------|

Grafixstar

| | | | |
|------------|---------------------------------|-----|--------|
| 64-97-1411 | 410 - S3 Trio64V2, 1Mb EDO DRAM | £19 | £22.33 |
| 64-97-0242 | 560 PCI - 4Mb | £34 | £39.95 |
| 64-97-0249 | 560 AGP - 4Mb | £29 | £34.08 |
| 64-97-0261 | 600 Pro PCI - 2Mb | £48 | £56.40 |

Apocalypse

| | | | |
|------------|---|-----|--------|
| 64-97-0287 | 3Dx - 4MB SDRAM PCI Value Pack | £35 | £41.13 |
| 64-97-0213 | Retail Pack | £49 | £57.58 |
| 64-97-0265 | 5D - 6MB SDRAM PCI 5D - ET6100, 128-bit processor | £57 | £66.98 |

Apocalypse 5D 6Mb version
64-97-0265
£57 (£66.98 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.

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| | | | |
|------------|---------------------|-----|--------|
| 64-15-0162 | WebCam 2 | £55 | £64.63 |
| | Requires Windows 95 | | |

Intel

| | | | |
|------------|-----------------------|------|---------|
| 63-31-1000 | Create & Share PCI | £139 | £163.33 |
| | With PCI capture card | | |

| | | | |
|------------|---------------------------|-----|---------|
| 63-31-1500 | Create & Share USB | £99 | £116.33 |
| | With USB connector. | | |
| | Requires Windows98/95OSR2 | | |

Pace

| | | | |
|------------|-----------------------|-----|--------|
| 63-91-0300 | Pace PCI | £65 | £76.38 |
| | With PCI capture card | | |

| | | | |
|------------|---------------------------|-----|--------|
| 63-91-0100 | Pace USB | £65 | £76.38 |
| | With USB connector. | | |
| | Requires Windows98/95OSR2 | | |

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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.



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- 16MB of memory
- Support for ATI-TV, the add-on TV Tuner board



XPERT 128 64-97-9850
£75 £88.13 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
£119 £139.83 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
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- 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
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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.

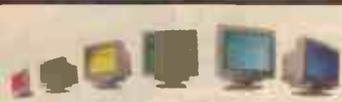
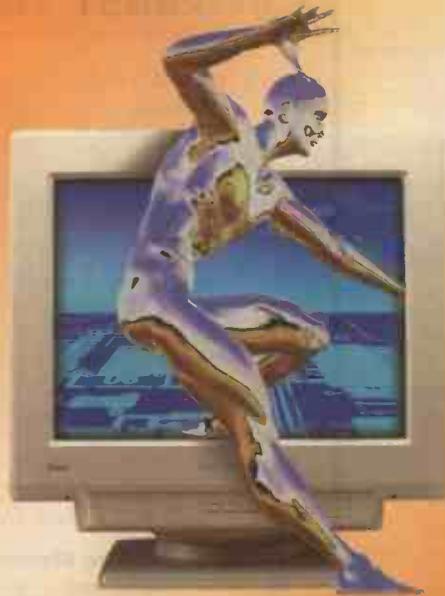
17" - Primarily graphics use such as 3D modelling.

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



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IYYAMA MONITORS

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| Part No | Model | Size | Dot Pitch | Max.Res | ex VAT | inc VAT |
|--|----------------|-----------------------|--------------|-----------|--------|----------|
| 68-93-9153 | MF-8515G | 15" | .28mm | 1280x1024 | £119 | £139.83 |
| 68-93-4010 | S-701GT | 17" | .26mm | 1600x1200 | £259 | £304.33 |
| 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 | £299 | £351.33 |
| 68-93-1901 | S-901GT | 19" | .27mm | 1600x1200 | £399 | £468.83 |
| 68-93-4020 | A-901GT | 19" | .25mm grille | 1600x1200 | £435 | £511.13 |
| Limited Offer - All 21" Monitors supplied by SMC come with 3 Year on-site included. | | | | | | |
| 68-93-5010 | S-101GT | 21" | .27mm | 1600x1200 | £645 | £757.88 |
| 68-93-5016 | A-101GT | 21" | .28mm grille | 1600x1200 | £645 | £757.88 |
| 68-93-5020 | S-102GT | 21" | .27mm | 1800x1440 | £669 | £786.08 |
| 68-93-5026 | A-102GT | 21" | .28mm grille | 1800x1440 | £669 | £786.08 |
| 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 |

IYYAMA VISION CARE (Extended Warranty Options)

| | | | | | | |
|------------|--|--|--|--|-----|--------|
| 68-93-9903 | LCD ProLite 36 | | | | £29 | £34.08 |
| 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 | | | | £29 | £34.08 |
| 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.

COLOUR MONITORS & LCD

| Model | Dot Pitch | Max. Res. | ex VAT | inc VAT |
|--|-------------------------|----------------------|--------|----------|
| 14" | | | | |
| 68-26-1440 | LG Goldstar SW44i | .28mm 1024x768 | £79 | £92.83 |
| 68-59-1404 | Philips 104B * | .28mm 1024x768 | £75 | £88.13 |
| 15" | | | | |
| 68-90-1507 | AOC 5GLR | .28mm 1280x1024 | £96 | £112.80 |
| 68-26-1558 | LG Goldstar SW57i | .28mm 1280x1024 | £105 | £123.38 |
| 68-26-2160 | LG Goldstar 500LC | TFT LCD 1024x768 | £599 | £703.83 |
| 68-59-1505 | Philips 105S * | .28mm 1024x768 | £99 | £116.33 |
| 68-59-1513 | Philips 105BR [sp] [m] | .28mm 1280x1024 | £165 | £193.88 |
| 68-59-0155 | Philips 151AX-TC095 | TFT LCD 1024x768 | £559 | £656.83 |
| 68-71-1517 | Sony CPD100ES | .25 Grille 1024x768 | £155 | £182.13 |
| 68-71-1519 | Sony CPD100GST | .25 Grille 1280x1024 | £209 | £245.58 |
| 68-71-1201 | Sony CPD120AS [sp] | .25 Grille 1280x1024 | £255 | £299.63 |
| 68-71-0150 | Sony CPDL150 | TFT LCD 1024x768 | £979 | £1150.33 |
| 17" | | | | |
| 68-90-1715 | AOC 7GLR | .28mm 1280x1024 | £169 | £198.58 |
| 68-26-7700 | LG Goldstar SW77T5 | .28mm 1024x768 | £179 | £210.33 |
| 68-26-1783 | LG Goldstar SW78M [sp] | .26mm 1600x1280 | £229 | £269.08 |
| 68-26-2770 | LG Goldstar SW77M [sp] | .26mm 1600x1280 | £219 | £257.33 |
| 68-71-1721 | Sony CPD200EST | .25mm 1024x768 | £269 | £316.08 |
| 68-71-1719 | Sony CPD200GST | .25 Grille 1280x1024 | £299 | £351.33 |
| 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 | £329 | £386.58 |
| 68-59-1713 | Philips 107B [sp] | .28mm 1280x1024 | £265 | £311.38 |
| Including CustoMax software and Built-In Stereo sound | | | | |
| 19" | | | | |
| 68-26-9901 | LG Goldstar SW99T | .26mm 1600x1200 | £359 | £421.83 |
| 68-71-1940 | Sony GDM400PST | .25 grille 1600x1200 | £485 | £569.88 |
| 68-59-1901 | Philips 109BR [sp] | .26mm 1600x1200 | £449 | £527.58 |
| 20" | | | | |
| 68-71-2017 | Sony CPD300SFT5 | .30mm 1280x1024 | £709 | £833.08 |
| 21" | | | | |
| 68-59-2104 | Philips 201B * | .27mm 1600x1200 | £659 | £774.33 |
| 68-59-2103 | Philips 201BRC [sp] [m] | .26mm 1600x1200 | £1169 | £1373.58 |
| 68-26-2160 | LG Goldstar SW216SC | .28mm 1600x1200 | £599 | £703.83 |
| 68-71-5200 | Sony CPD520GST | .25mm 1600x1200 | £725 | £851.88 |

[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/m² display
- Multi-sync support up to 1024x768 @ 75Hz

68-26-5000 **£639** (£750.83)

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

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 **£599** (£703.83)

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)

SW795SC
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 **£275** (£323.13)

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

68-26-1558 **£105** (£123.38)

*TCO '95 on all models except SW57i monitor.



All monitors come with a 3 year on-site, swap-out warranty.

Website <http://www.lge.co.kr>

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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 | £184 | £216.20 |
| 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 | £318 | £373.65 |
|------------|--|------|---------|

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

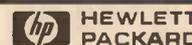


The versatile consultant for fast, high-quality scanning in the office with network capabilities for workgroup productivity.

- >> Superior Image Quality (1200dpi HSS)
- >> Intelligent Scalling 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

| | | | |
|------------|---|------|---------|
| 97-28-7167 | Scanjet 3200 | £63 | £74.03 |
| 97-28-6297 | Scanjet 4100C - 600dpi HSS * 36-bit colour, USB/VV98 only | £116 | £136.30 |
| 97-28-7177 | Scanjet 4200 | £117 | £137.48 |

| | | | |
|------------|--|------|---------|
| 97-28-5100 | Scanjet 5100C - 1200/300dpi , 24-bit colour, Parallel Port interface with cable | £144 | £169.20 |
| 97-28-7197 | Scanjet 5200 | £156 | £183.30 |

| | | | |
|------------|---|------|---------|
| 97-28-6277 | Scanjet 6200C - 1200dpi HSS * 36-bit colour, USB/VV98 or SCSI | £237 | £278.48 |
| 97-28-6278 | Scanjet 6250C - 1200dpi HSS * 36-bit colour, USB/VV98 or SCSI with document feeder | £275 | £323.13 |

* 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 5S, 5100C | £66 | £77.55 |
| 99-28-9470 | H5470A - Scanjet 6100C | £102 | £119.85 |
| 99-28-9464 | H5465A - Scanjet 4100, 6200, 6250C | £66 | £77.55 |

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 | £368 | £432.40 |
|------------|---|------|---------|

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 | £389 | £457.08 |

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

97-93-0700 **GT7000 - 2400/600dpi**,
36-bit colour, SCSI card & cables,
1 touch scanner

| | | | |
|------------|------------------------------------|------|---------|
| 97-93-0720 | GT7000 Photo APS adaptor | £197 | £231.48 |
|------------|------------------------------------|------|---------|



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

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 | £69 | £81.08 |

Astra 1220 Series

| | | | |
|------------|----------------------------|------|---------|
| 97-81-1200 | 1220p Parallel Port | £69 | £81.08 |
| 97-81-1201 | 1220s SCSI | £119 | £139.83 |
| 97-81-1205 | 1220u USB | £99 | £116.33 |



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

SMC Direct is a trading division of : SMC Computers Plc

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ALL MAJOR CREDIT CARDS ACCEPTED

SCANNERS & FILM SCANNERS

For SMC's unique guarantee : see page 2



No. F540989

LATEST PRODUCTS - LOWEST PRICES - TOTAL QUALITY!

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

Hewlett Packard

Deskjet Printers

| | ex VAT | inc VAT |
|------------|--------|---------|
| 99-28-4562 | 695 | £96 |
| 99-28-6409 | 880 | £164 |
| 99-28-2642 | 420C | £66 |
| 99-28-5890 | 690 | £96 |
| 99-28-5894 | 710C | £126 |
| 99-28-5870 | 720C | £149 |
| 99-28-2678 | 1120C | £285 |
| 99-28-5160 | 1600C | £499 |
| 99-28-5168 | 1600CM | £1280 |
| 99-28-4530 | 2000C | £450 |
| 99-28-5901 | 2000CN | £675 |
| 99-28-2684 | 2500C | £705 |
| 99-28-2685 | 2500CM | £892 |
| 99-28-5876 | 895CXI | £186 |

Ink Cartridges

| | | | |
|------------|----------|------|---------|
| 96-28-5030 | HP51633M | | |
| 96-28-5060 | HP51629A | £15 | £17.63 |
| 96-28-5069 | HP51649A | £17 | £19.98 |
| 96-28-1816 | HPC1816A | £20 | £23.50 |
| 96-28-5039 | HP51625A | £19 | £22.33 |
| 96-28-5080 | HP51645A | £21 | £21.15 |
| 96-28-5089 | HP51641A | £18 | £21.15 |
| 96-28-5120 | HP51640A | £16 | £18.80 |
| 96-28-5123 | HP51640C | £19 | £22.33 |
| 96-28-5125 | HP51640M | £19 | £22.33 |
| 96-28-5127 | HP51640Y | £19 | £22.33 |
| 96-28-1823 | HPC1823A | £22 | £25.85 |
| 96-28-4841 | HPC4841A | £22 | £25.85 |
| 96-28-4842 | HPC4842A | £22 | £25.85 |
| 96-28-4843 | HPC4843A | £22 | £25.85 |
| 96-28-4844 | HPC4844A | £22 | £25.85 |
| 99-28-9461 | H5461A | £35 | £41.13 |
| 99-28-9464 | H5465A | £66 | £77.55 |
| 99-28-9473 | H5473A | £105 | £123.38 |
| 99-28-9475 | H5475A | £140 | £164.50 |

Canon

Printers

| | | | |
|------------|-------------------|------|---------|
| 99-91-5030 | BJ30 | £124 | £145.70 |
| 99-91-5050 | BJC50 | £192 | £225.60 |
| 99-91-5080 | BJC80 | £142 | £166.85 |
| 99-91-5280 | BJC80 + Scanner | £185 | £217.38 |
| 99-91-5250 | BJC250 | £75 | £88.13 |
| 99-91-6430 | BJC4300 | £91 | £106.93 |
| 99-91-6465 | BJC4650 | £197 | £231.48 |
| 99-91-6469 | BJC4650 + Scanner | £235 | £276.13 |
| 99-91-5000 | BJC5000 | £179 | £210.33 |
| 99-91-6550 | BJC5500 | £409 | £480.58 |
| 99-91-6700 | BJC7000 | £169 | £198.58 |

Ink Cartridges

| | | | |
|------------|------------|-----|--------|
| 96-91-5000 | BC22 | £19 | £22.33 |
| 96-91-5010 | BC01 | £12 | £14.10 |
| 96-91-5020 | BC02 | £14 | £16.45 |
| 96-91-5023 | BC09F | £16 | £18.80 |
| 96-91-5026 | BC06 | £13 | £15.28 |
| 96-91-5030 | BC05 | £14 | £16.45 |
| 96-91-5040 | BC10 | £20 | £23.50 |
| 96-91-5041 | BC11E | £23 | £27.03 |
| 96-91-5060 | BC1201BKHC | £6 | £7.05 |
| 96-91-5063 | BC1201C | £6 | £7.05 |
| 96-91-5065 | BC1201M | £6 | £7.05 |
| 96-91-5067 | BC1201Y | £6 | £7.05 |
| 96-91-5080 | BC1643BK | £13 | £15.28 |
| 96-91-5083 | BC1643C | £17 | £19.98 |
| 96-91-5085 | BC1643M | £17 | £19.98 |
| 96-91-5087 | BC1643Y | £17 | £19.98 |
| 96-91-5404 | BC20 | £22 | £25.85 |
| 96-91-5405 | BC29F | £23 | £27.03 |
| 96-91-5410 | BC21E | £27 | £31.73 |

96-91-5000 includes:

BC22 Kit, BC22 4 Colour Cartridge, MGI PhotoSuite V8, 24Exp Kodak film, 5 sheets High Quality Paper

£26 £30.55 Inc.VAT

Limited Stock available.

Epson

Stylus Printers

| | | | |
|------------|------------|-------|----------|
| 99-93-5144 | Color 440 | £96 | £112.80 |
| 99-93-5164 | Color 640 | £119 | £139.83 |
| 99-93-5174 | Color 740 | £148 | £173.90 |
| 99-93-5185 | Color 850 | £207 | £243.23 |
| 99-93-5252 | Color 1520 | £451 | £529.93 |
| 99-93-5191 | Photo 720 | £147 | £172.73 |
| 99-93-0700 | Photo 700 | £140 | £164.50 |
| 99-93-5195 | Photo EX | £308 | £361.90 |
| 99-93-5300 | Color 3000 | £1059 | £1244.33 |
| 99-93-5500 | Pro 5000 | £1587 | £1864.73 |

Ink Cartridges

| | | | |
|------------|---------|-----|--------|
| 96-93-8220 | S020034 | £9 | £10.58 |
| 96-93-8229 | S020036 | £17 | £19.98 |
| 96-93-8200 | S020047 | £13 | £15.28 |
| 96-93-8209 | S020049 | £19 | £22.33 |
| 96-93-8249 | S020066 | £18 | £21.15 |
| 96-93-8009 | S020089 | £16 | £18.80 |
| 96-93-4000 | S020093 | £14 | £16.45 |
| 96-93-8000 | S020108 | £16 | £18.80 |
| 96-93-8005 | S020110 | £12 | £14.10 |
| 96-93-0118 | S020118 | £32 | £37.60 |
| 96-93-0122 | S020122 | £32 | £37.60 |
| 96-93-0126 | S020126 | £32 | £37.60 |
| 96-93-0130 | S020130 | £32 | £37.60 |
| 96-93-0138 | S020138 | £13 | £15.28 |
| 96-93-0143 | S020143 | £32 | £37.60 |
| 96-93-0147 | S020147 | £32 | £37.60 |
| 96-93-0187 | S020187 | £16 | £18.80 |
| 96-93-0189 | S020189 | £16 | £18.80 |
| 96-93-0191 | S020191 | £19 | £22.33 |

Epson cover Plus Support Packs

| | | | |
|------------|---------|------|---------|
| 99-93-0238 | Group 2 | £35 | £41.13 |
| 99-93-0338 | Group 3 | £59 | £69.33 |
| 99-93-0438 | Group 4 | £99 | £116.33 |
| 99-93-0538 | Group 5 | £175 | £205.63 |
| 99-93-0638 | Group 6 | £275 | £323.13 |
| 99-93-0738 | Group 7 | £399 | £468.83 |



Hewlett Packard InkJet printers

HP InkJet printers can enable you to 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.

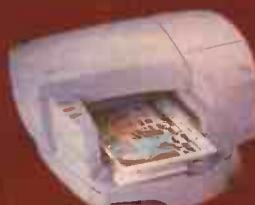
The flexible partner that gives you great results with no hassle. Fast and quiet, the 710C also prints photos without changing cartridges.

Deskjet 710C

99-28-5894

£126

£148.05 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.

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LASER PRINTERS

Hewlett Packard

Laserjet Printers

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|--|--------|----------|
| A4 Printers | | |
| 99-28-4170 2100 New model | £423 | £497.03 |
| 99-28-4171 2100M New model | £480 | £564 |
| 99-28-4172 2100TN New model | £600 | £705 |
| 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] | £741 | £870.68 |
| 99-28-4119 4000T 1200dpi, 16ppm [PS] | £807 | £948.23 |
| 99-28-4120 4000N 1200dpi, 16ppm [N] [PS] | £941 | £1105.68 |
| 99-28-4121 4000TN 1200dpi, 16ppm [N] [PS] | £1008 | £1184.40 |
| 99-28-4084 4500 Colour 1200dpi, 16ppm | £1597 | £1876.48 |
| 99-28-4089 4500N Colour 1200dpi, 16ppm [N] | £1875 | £2203.13 |
| 99-28-4094 4500DN Colour 1200dpi, 16ppm Duplex [N] | £2422 | £2845.85 |

A3 Printers

| | | |
|---|-------|----------|
| 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 H/Drive | £1649 | £1937.58 |
| 99-28-4085 8000 1200dpi, 24ppm [PS] | £1477 | £1735.48 |
| 99-28-4086 8000N 1200dpi, 24ppm [N] [PS] | £1642 | £1929.35 |
| 99-28-4087 8000DN 1200dpi, 24ppm [N] [PS] Duplex (two-sided printing) | £1935 | £2273.63 |
| 99-28-4214 8100 1200dpi, 32ppm | £1687 | £1982.23 |
| 99-28-4215 8100N 1200dpi, 32ppm [N] | £1875 | £2203.13 |
| 99-28-4216 8100DN 1200dpi, 32ppm [N] Duplex (two-sided printing) | £2145 | £2520.38 |
| 99-28-3983 8500 Colour 1200dpi, 24ppm | £3862 | £4537.85 |
| 99-28-3984 8500N Colour 1200dpi, 24ppm [N] | £4425 | £5199.38 |
| 99-28-3985 8500DN Colour 1200dpi, 24ppm Duplex [N] | £5242 | £6159.35 |

Laser Toner

| | | |
|---|------|---------|
| 96-28-7413 HP92274A - 4L/4P/4ML/4MP | £39 | £45.83 |
| 96-28-7313 HP92275A - IIP/III/IIIP/IIIPplus | £46 | £54.05 |
| 96-28-7354 HP92291A - IISi/4Si/4Si MX | £72 | £84.60 |
| 96-28-7230 HP92295A - IID/IIID | £42 | £49.35 |
| 96-28-7434 HP92298A - 4/4M/4+/4M+/5/5N/5M | £54 | £63.45 |
| 96-28-7451 HPC3900A - 4V/4MV | £84 | £98.70 |
| 96-28-7515 HPC3903A - 5P/5MP/6P/6MP | £45 | £52.88 |
| 96-28-4092 HPC3906A - 5L/6L | £36 | £42.30 |
| 96-28-4092 HPC4092A - 1100/1150-A | £37 | £43.48 |
| 96-28-4127 HPC4127A - 4000 | £52 | £61.10 |
| 96-28-0412 HPC4127X - 4000 Long life | £77 | £90.48 |
| 96-28-4129 HPC4129X - 5000, UltraPrecise | £96 | £112.80 |
| 96-28-3909 HPC3909A - 8000 | £145 | £170.38 |

HP 3-year On-Site Support Packs

| | | |
|--|------|---------|
| 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 - 55i MX/NX | £530 | £622.75 |
| 99-28-9500 H5500A - 5L, 6L | £67 | £78.73 |



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

| | | |
|---------------------------------|------|---------|
| 99-28-9501 H5501A - 5/5M Colour | £619 | £727.33 |
| 99-28-9499 H5499A - 8000 Series | £731 | £858.93 |

Canon

Printers

| | | |
|-------------------------------------|------|---------|
| 99-91-7173 LBP1260+ - 600dpi, 12ppm | £614 | £721.45 |
| 99-91-1760 LBP1760 - 600dpi, 17ppm | £655 | £769.63 |

Laser Toner

| | | |
|----------------------------|-----|--------|
| 96-91-5500 EP-E - LBP1260+ | £55 | £64.63 |
| 96-91-5552 EP-S2 - LBP1760 | £80 | £94.00 |

Epson

Printers

| | | |
|--|-------|----------|
| 99-93-7570 EPL5700 - 600dpi, 8ppm | £304 | £357.20 |
| 99-93-7120 EPL-N1200 - 600dpi, 12ppm | £477 | £560.48 |
| 99-93-7200 EPL-N2000 - 600dpi, 20ppm A4, 11ppm A3 | £954 | £1120.95 |
| 99-93-7201 EPL-2000PS - 600dpi, 20ppm | £1193 | £1401.78 |
| 99-93-7163 EPLN-1600 - 600dpi, 16ppm | £594 | £697.95 |
| 99-93-7165 EPLN-1600T - 600dpi, 16ppm | £716 | £841.30 |
| 99-93-7165 EPLN-1600ENT - 600dpi, 16ppm [N] | £835 | £981.13 |
| 99-93-8000 EPLNC-8000EN - 600dpi, 16ppm colour printer A3 [N] | £3979 | £4675.33 |
| 99-93-8020 EPLNC-8000ENT - 600dpi, 16ppm colour printer A3 [N] | £4399 | £5168.83 |

Laser Toner

| | | |
|--|------|---------|
| 96-93-1016 S051016 - 5600/N1200 toner/drum | £65 | £76.38 |
| 96-93-1035 S051035 - N2000 Series toner/drum | £109 | £128.08 |

Brother

Printers

| | | |
|---|------|---------|
| 99-90-0082 HL820 - 600dpi, 8ppm | £159 | £186.83 |
| 99-90-0104 HL1040 - 600dpi, 10ppm | £215 | £252.63 |
| 99-90-0105 HL1050/4 - 600dpi, 10ppm, 4MB | £239 | £280.83 |
| 99-90-0107 HL1070/4 - 1200dpi, 10ppm, 4MB | £299 | £351.33 |

Laser Toner

| | | |
|--|-----|--------|
| 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 |

OKI

Printers

| | | |
|--|------|----------|
| 99-93-9601 OL6E - 600dpi, 6ppm | £189 | £222.08 |
| 99-93-9603 OL6EX - 600x1200dpi, 6ppm | £219 | £257.33 |
| 99-93-9108 OL8P - 600x1200dpi, 8ppm | £185 | £217.38 |
| 99-93-9112 OL1211/N - 600x1200dpi, 12ppm [N] | £395 | £464.13 |
| 99-93-9101 OL101 - 600x1200dpi, 10ppm | £359 | £421.83 |
| 99-93-9105 OL10EX - 600x1200dpi, 10ppm | £235 | £276.13 |
| 99-93-9201 OL20N - 600x1200dpi, 20ppm | £729 | £856.58 |
| 99-93-9205 OL20N/PS - 600x1200dpi, 20ppm | £899 | £1056.33 |

postscript Laser Toner

| | | |
|-------------------------------|-----|--------|
| 96-93-5136 OKI5136 - OL20N/PS | £23 | £27.03 |
| 96-93-5122 OKI5122 - OL10 | £14 | £16.45 |
| 96-93-4851 OKI4851 - OL6,6EX | £14 | £16.45 |

DOT MATRIX PRINTERS

Epson

| | ex VAT | inc VAT |
|--|--------|---------|
| 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 | £307 | £360.73 |
| 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 | £465 | £546.38 |

Panasonic

| | | |
|---|------|---------|
| 99-57-1150 KXPI150 - 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 |

HP ALL-IN-ONE

| | ex VAT | inc VAT |
|--|--------|---------|
|--|--------|---------|

| | | |
|---|------|---------|
| 99-28-5317 OfficeJet 635 Colour Inkjet Printer/Copier/Scanner 300dpi optical 24bit colour scanning mono fax | £296 | £347.80 |
|---|------|---------|

| | | |
|---|------|---------|
| 99-28-5368 OfficeJet Pro 1170C Colour Inkjet Printer/Copier/Scanner 600dpi optical 24bit colour scanning | £489 | £574.58 |
|---|------|---------|

| | | |
|---|------|---------|
| 99-28-5369 OfficeJet Pro 1175C 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 Laserjet 3100 Mono Laser Printer/Fax/Copier/Scanner 600dpi, scan with 256 grey-scales | £471 | £553.43 |
|---|------|---------|

| | | |
|---|------|---------|
| 99-28-7625 Laserjet 1100A Mono Laser Printer/Copier/Scanner 600dpi | £285 | £334.88 |
|---|------|---------|

Colour Digital Fax

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 |

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 |



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**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

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SMC Computers Plc

253-257 Farnham Rd Slough Berkshire SL2 1HA



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ALL MAJOR CREDIT CARDS ACCEPTED



LATEST PRODUCTS - LOWEST PRICES - TOTAL QUALITY!



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.



3COM NETWORKING

ex VAT inc VAT

Network Interface Cards (NIC's)

| ISA (Etherlink III) | | ex VAT | inc VAT |
|--|------------------------------------|--------|----------|
| 84-90-0931 | 3C509B-TP AUI/RJ45 | £59 | £69.33 |
| 84-90-0933 | 3C509B-TP AUI/RJ45 - 5pack | £256 | £300.80 |
| 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 | £299 | £351.33 |
| 84-90-0955 | 3C509B-Combo BNC/AUI/RJ45 - 20pack | £1125 | £1321.88 |
| PCI - 10Mb/s (Fast Etherlink XL) | | ex VAT | inc VAT |
| 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 | £549 | £645.08 |
| 84-90-9951 | 3C900B-Combo BNC/AUI/RJ45 | £75 | £88.13 |
| 84-90-9953 | 3C900B-Combo BNC/AUI/RJ45 - 5pack | £329 | £386.58 |
| PCI - 100Mb/s (Fast Etherlink XL) | | ex VAT | inc VAT |
| 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 | £859 | £1009.33 |
| EISA (Etherlink III) | | ex VAT | inc VAT |
| 84-90-9251 | 3C592-Combo BNC/AUI/RJ45 | £125 | £146.88 |
| MCA (Fast Etherlink III) | | ex VAT | inc VAT |
| 84-90-2931 | 3C529-TP BNC/AUI/RJ45 | £125 | £146.88 |
| PCMCIA - 10Mb/s (Fast Etherlink III) | | ex VAT | inc VAT |
| 84-90-1589 | 3C589D-TP RJ45 | £76 | £89.30 |
| 84-90-5589 | 3C589D-TP RJ45 - 5pack | £355 | £417.13 |
| 84-90-2589 | 3C589D-TP RJ45 - 20pack | £1329 | £1561.58 |
| PCMCIA - 10/100Mb/s (Fast Etherlink III) | | ex VAT | inc VAT |
| 84-90-1574 | 3C574-TX 16-bit UTP | £88 | £103.40 |
| 84-90-5574 | 3C574-TX 16-bit UTP - 5pack | £399 | £468.83 |
| 84-90-2574 | 3C574-TX 16-bit UTP - 20pack | £1588 | £1865.90 |
| 84-90-3575 | 3CCFE575BT 32-bit UTP | £89 | £104.58 |
| 84-90-3576 | 3CCFE575BT 32-bit UTP - 5pack | £422 | £495.85 |
| 84-90-3577 | 3CCFE575BT 32-bit UTP - 20pack | £1599 | £1878.83 |
| PCMCIA (Fast Etherlink XL) | | ex VAT | inc VAT |
| Combined 56Kbps Modem+10Mb/s Lan Adapter | | | |
| 84-90-0556 | 3CXEM556BT RJ45 | £159 | £186.83 |

NETWORK CABLES & CONNECTORS

ex VAT inc VAT

BNC / Thin Ethernet



| | | | |
|------------|--|-----|--------|
| 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 | £10 | £11.75 |
| 86-95-1320 | 20m BNC Thin Ethernet cable with crimps - ready made | £18 | £21.15 |
| 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 | £3 | £3.53 |
| 86-95-4503 | 3m RJ45 Ethernet/Fast Ethernet cable - ready made | £4 | £4.70 |
| 86-95-4505 | 5m RJ45 Ethernet/Fast Ethernet cable - ready made | £6 | £7.05 |
| 86-95-4510 | 10m RJ45 Ethernet/Fast Ethernet cable - ready made | £9 | £10.58 |
| 86-95-4520 | 20m RJ45 Ethernet/Fast Ethernet cable - ready made | £15 | £17.63 |
| 86-95-4530 | 30m RJ45 Ethernet/Fast Ethernet cable - ready made | £22 | £25.85 |
| 86-95-4550 | 50m RJ45 Ethernet/Fast Ethernet cable - ready made | £35 | £41.13 |
| Crossover Cables (no hub required) - for peer-to-peer networking : 2 machines only | | | |
| 86-95-0202 | 2m RJ45 Ethernet/Fast Ethernet Crossover cable | £18 | £21.15 |
| 86-95-0210 | 10m RJ45 Ethernet/Fast Ethernet Crossover cable | £24 | £28.20 |
| 86-95-0230 | 30m RJ45 Ethernet/Fast Ethernet Crossover cable | £28 | £32.90 |

OfficeConnect Hubs/Switches/Kits

All OfficeConnect Hubs & Switches are supplied with a user-guide, power adapter, stacking clips and rubber feet as standard.

| 10Mb/s Stackable Hubs | | ex VAT | inc VAT |
|----------------------------|---|--------|---------|
| 84-90-1674 | 3C16704 4 Port TP4, 4x RJ45 | £33 | £38.78 |
| 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 | £59 | £69.33 |
| 84-90-1672 | 3C16702 16 Port TPC16C, 16x RJ45/1x BNC | £99 | £116.33 |
| 100Mb/s Stackable Hubs | | ex VAT | inc VAT |
| 84-90-6723 | 3C16723 4 Port TP400, 4x UTP | £65 | £76.38 |
| 84-90-6722 | 3C16722 8 Port TP800, 8x UTP | £112 | £131.60 |
| 84-90-6721 | 3C16721 12 Port TP1200, 12x UTP | £199 | £233.83 |
| 10/100Mb/s Dual Speed Hubs | | ex VAT | inc VAT |
| 84-90-1675 | 3C16750 8x UTP | £189 | £222.08 |
| Networking Kits | | ex VAT | inc VAT |
| 84-90-0308 | 3C50902B 3 x ISA 10Mb/s cards, 1 x 8 Port Hub, 3 x 50ft RJ45 Cables | £119 | £139.83 |

Superstack Hubs/Switches

| 12 Port | | ex VAT | inc VAT |
|------------|--------------------------------------|--------|----------|
| 84-90-6112 | SuperStack II PS Hub 40 TP | £205 | £240.88 |
| 84-90-0252 | SuperStack II Hub 100TX | £475 | £558.13 |
| 84-90-6312 | SuperStack II Switch 3000 10/100Mb/s | £829 | £974.08 |
| 84-90-1695 | SuperStack II Switch 1100 | £469 | £551.08 |
| 84-90-6981 | SuperStack II Switch 3300 | £1049 | £1232.58 |
| 24 Port | | ex VAT | inc VAT |
| 84-90-6524 | SuperStack II PS Hub 40 TP | £369 | £433.58 |
| 84-90-6824 | SuperStack PS 50 | £565 | £663.88 |
| 84-90-6980 | SuperStack II Switch 3300 | £1569 | £1843.58 |
| 84-90-1661 | SuperStack II DS Hub 500 | £669 | £786.08 |
| 84-90-6950 | SuperStack II Hub | £789 | £927.08 |
| 84-90-1659 | SuperStack II DS Hub | £619 | £727.33 |

PRODUCT LINK

CD ROM Servers : See Page 21

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SMC Direct exists to provide a reliable service of the highest quality to all PC users, whether personal end-users, small businesses or large organisations. We invite you to benefit from our unique and total commitment to the highest standards of customer care.

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For Customer Care and Switchboard Hotlines see Page 2

THE BEST YOU'LL GET

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.

Network Interface Cards (NIC's)

| | ex VAT | inc VAT |
|---------------------------------------|--------|----------|
| ISA - 10Mb/s Ethernet | | |
| 84-93-1651 E16, 16-bit, Combo | £39 | £45.83 |
| 84-93-2451 EZ P'n'P, 16-bit, Combo | £35 | £41.13 |
| 84-93-1001 1660BT, BNC/RJ45 | £19 | £22.33 |
| 84-93-1050 1660BT, BNC/RJ45 - 50 Pack | £499 | £586.33 |
| PCI - 10/100Mb/s EtherPower II | | |
| 84-93-1211 1211TX, RJ45 | £22 | £25.85 |
| 84-93-1301 9432TX, RJ45 | £43 | £50.53 |
| 84-93-1305 9432TX, RJ45 - 5 Pack | £199 | £233.83 |
| 84-93-1320 9432TX, RJ45 - 20 Pack | £699 | £821.33 |
| 84-93-1350 9432TX, RJ45 - 50 Pack | £1595 | £1874.13 |
| PCMCIA - 10/100Mb/s PC Cardbus | | |
| 84-93-3201 8302DT, 32-bit, RJ45 | £99 | £116.33 |

Network Hubs

| | ex VAT | inc VAT |
|---|--------|---------|
| Stackable Hubs - 10Mb/s Ether EZ | | |
| 84-93-3605 3605T-EZ, 5 Port | £32 | £37.60 |
| 84-93-3608 3605T-EZ, 8 Port | £55 | £64.63 |
| 84-93-3616 3605T-EZ, 16 Port | £95 | £111.63 |
| Fast Ethernet Hubs - 100Mb/s | | |
| 84-93-5008 5008TX, 8 Port | £122 | £143.35 |
| Dual Speed Fast Ethernet Hubs - 10/100Mb/s | | |
| 84-93-5512 5512DS, 12 Port | £299 | £351.33 |
| 84-93-5524 5524DS, 12 Port | £449 | £527.58 |

Network Switches

| | ex VAT | inc VAT |
|--|--------|---------|
| 8 Port | | |
| 84-93-0108 EZ108 INT, EZ Switch, 8 Port, 10/100Mb/s | £399 | £468.83 |
| 84-93-6608 6608 INT, Tigerswitch 100, 8 Port, 10/100Mb/s | £569 | £668.58 |
| 16 Port | | |
| 84-93-6416 6416TT INT, EZ Switch, 16x10Mb/s, 2x100Mb/s | £469 | £551.08 |
| 24 Port | | |
| 84-93-6425 6425LW/TT INT, EZ Switch, 24x10Mb/s, 2x10/100Mb/s | £779 | £915.33 |

INTEL NETWORKING

ex VAT inc VAT

Network Interface Cards (NIC's)

| EtherExpress PRO range | | | |
|--|------|---------|--|
| ISA - 10Mb/s Ethernet | | | |
| 84-31-8220 8220B 10+ TP | £33 | £38.78 | |
| 84-31-5822 8220B 10+ TP - 5 Pack | £149 | £175.08 | |
| 84-31-8210 8210B 10+ TP/BNC | £39 | £45.83 | |
| 84-31-5821 8210B 10+ TP/BNC - 5 Pack | £179 | £210.33 | |
| 84-31-8200 8200B 10+ Combo | £63 | £74.03 | |
| 84-31-5820 8200B 10+ Combo - 5 Pack | £299 | £351.33 | |
| PCI - 10/100Mb/s Fast Ethernet | | | |
| 84-31-8460 8460 100+ UTP | £49 | £57.58 | |
| 84-31-5846 8460 100+ UTP - 5 Pack | £229 | £269.08 | |
| 84-31-2084 8460 100+ UTP - 20 Pack | £739 | £868.33 | |
| 84-31-8470 8470 100+ Server Adaptor | £59 | £69.33 | |
| 84-31-8480 8480 10+ Server Adaptor | £189 | £222.08 | |
| PCMCIA Mobile Adapters - 10/100Mb/s Fast Ethernet | | | |
| 84-31-1600 1600 10/100+ 16Bit, UTP | £89 | £104.58 | |
| 84-31-1656 1656 10/100+ 16Bit, UTP, 56k flex | £139 | £163.33 | |
| 84-31-3200 3200 10/100+ 32Bit, UTP | £89 | £104.58 | |

InBusiness Hubs

| | | |
|-------------------------------------|------|---------|
| 84-31-6015 10MB/S, 5x RJ45 | £29 | £34.08 |
| 84-31-6017 10MB/S, 8x RJ45 | £39 | £45.83 |
| 84-31-6018 10MB/S, 8x RJ45, 1x BNC | £49 | £57.58 |
| 84-31-6104 100MB/S, 4x RJ45 | £66 | £77.55 |
| 84-31-6108 100MB/S, 8x RJ45 | £105 | £123.38 |
| 84-31-6118 100MB/S, 8x RJ45, 1x BNC | £189 | £222.08 |

HP JETDIRECT PRINT SERVERS

| | ex VAT | inc VAT |
|---|--------|---------|
| 84-28-5002 J2550B - for 10Base-T (MIO) | £189 | £222.08 |
| 84-28-5202 J2552B - for 10BT, BNC, LocalTalk (MIO) | £224 | £263.20 |
| 84-28-5502 J2555B - for Token Ring (MIO) | £325 | £381.88 |
| 84-28-5602 J2556B - for 10/100Base-T (MIO) | £245 | £287.88 |
| 84-28-3265 J3265A - 500X for 10Base-T, BNC | £219 | £257.33 |
| 84-28-2594 J2594A - EX Plus3 Token Ring | £319 | £374.83 |
| 84-28-2591 J2591A - EX Plus - Print Server | £175 | £205.63 |
| 84-28-9201 J2592A - 150X for 10Base-T (IPX Protocol only) | £89 | £104.58 |
| 84-28-3263 J3263A - 300X for RJ45, 10/100 | £179 | £210.33 |
| 84-28-3110 J3110A - for RJ45/BNC/LocalTalk | £165 | £193.88 |
| 84-28-3111 J3111A - for 10 BaseT, 10Base 2 | £165 | £193.88 |
| 84-28-3112 J3112A - 600N Token Ring | £373 | £438.28 |
| 84-28-3113 J3113A - 10/100 for HP4000 series | £219 | £257.33 |
| 84-28-3258 J3258A - 170X for 10Base-T | £98 | £115.15 |
| 84-28-4101 J4101A - 300X Office Connect | £233 | £273.78 |

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.



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 300MI 180 watts, for 486 with 15" monitor | £59 | £69.33 |
| 89-90-0502 500MI 300 watts, for Pentium with 15" monitor | £69 | £81.08 |
| 89-90-0654 650MI 400 watts, for Pentium with 17"+ monitor | £105 | £123.38 |

BackUPS PRO

High Performance PC protection with voltage regulation and shutdown software for Windows, Win95. Supplied with serial cable.

| | | |
|--|------|---------|
| 89-90-0280 280 200 watts, for 486 with 15" monitor | £75 | £88.13 |
| 89-90-0652 650 460 watts, for Pentium with 17" monitor | £149 | £175.08 |

SmartUPS

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*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 and the V.90 ITU 56K standard. 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

£54

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* To utilise all voice features an external speaker, headset or soundcard is required.

US Robotics Courier-I Modem

91-79-4906

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| 91-79-9191 | 56k Message modem, x2 Technology enables speeds up to 56Kbps. | £88 | £103.40 |
| 91-79-5001 | 56k Data Fax modem, X2 and V90 compatible | £59 | £69.33 |

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Micromart, the classified section of PCW, is unique in its marketplace, incorporating its own valued identity. The section is easily identifiable by its colour coded pages and has its own advertiser index which takes away any unnecessary direct competition.

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*Chris Lupton
Digital Data*

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Additional Services

The Micromart team are available if you need advice on copy layout or if you are looking for selective positioning.

For more information please contact PCW's Micromart Team on 0171 316 9500

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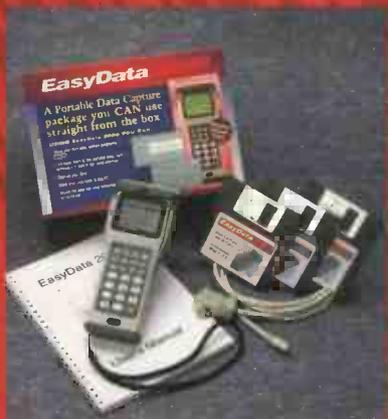
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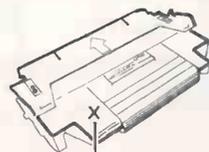
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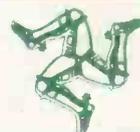
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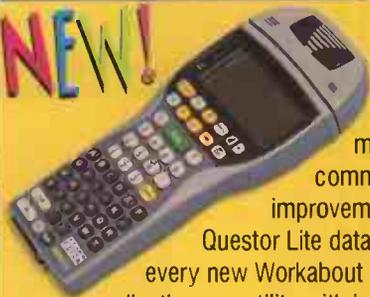
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GORDON LAING
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 - b) A copy of Personal Computer World's 'Details of Transaction Form' (on opposite page).
 - c) Comprehensive proof of payment.

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'.

DESKTOP PCs

Due to the fast moving nature of the PC industry, we can only recommend particular PCs in the month we have seen them. Prices change almost weekly as component prices from third-party suppliers fluctuate according to availability. So, for this month's best PC buy, for instance, look at the group test on p70. When buying a PC there are a few basic steps you should take: always buy with a credit card; ask for a complete specification and the final price to be sent to you before you confirm the order; ask for a definite delivery date; keep a copy of all correspondence and remember to use the PCW order form (p572). Also take into account what kind of warranty you will need and consider spending more for an extended or improved warranty with on-site or speedy maintenance if you depend on your PC for your work. Obviously, everyone's ideal PC will have a different mix of components, with gamers needing a very good 3D graphics card, probably a 3D sound card and excellent speakers, and business users will need a good monitor and plenty of RAM.

ENTRY-LEVEL PCs

Budget-conscious buyers, might consider going for a non-Intel processor, such as an AMD. However, be aware that if you choose a Socket 7 chip you might find it hard to upgrade in future. Similarly, if you go for a Slot 1 processor, make sure you specify a motherboard with a BX chipset which will allow for greater upgrading options in the future. We would recommend the following specification:

- 333MHz AMD K6-2 or Intel Celeron processor
- 32Mb RAM
- 4Gb hard drive
- Graphics card with 4Mb video RAM
- 15in monitor
- CD-ROM drive

You can expect to pay between £499 and £699 (ex VAT) for this configuration, with either a sound card and speakers or a modem.

MID-RANGE PCs

In the mid-range, around £1,000 (ex VAT) will get you a good all-round machine. As the PII 333 disappears, and with even PII 350s becoming scarce, it might be as well to look for a faster processor. Look for a minimum of:

- Intel PII or AMD K6-2 400MHz processor
- 64Mb RAM
- 8Gb hard disk
- Good 3D graphics card with 8Mb video RAM
- 17in monitor
- CD-ROM drive

- Sound card, speakers, 56K modem

Most of all look for a machine that is easy to upgrade, so specify plenty of slots and no on-board chips on a good motherboard and lots of free bays in the case.

HIGH-END PCs

If you are after a state-of-the-art machine, be prepared to spend around £1,500 (ex VAT). What you require at this price will be specific to your needs, depending on how you intend to use the machine. However, as a basic specification we would want:

- PII 450
- 128Mb 100MHz RAM
- 16Gb hard drive
- Good 3D graphics card with 12Mb video RAM
- 19in monitor
- DVD drive
- Sound card, speakers, 56K modem
- Bundled office suite

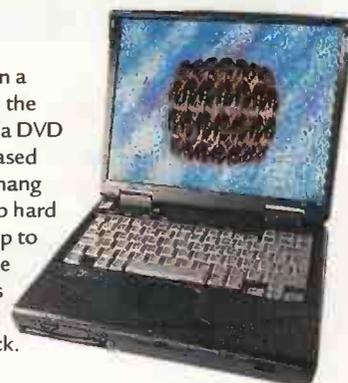
You might also want to wait until next month to get hold of Intel's latest processor, the Pentium III.

HIGH-END NOTEBOOK

Compaq Armada 7800

With everything you could need in a replacement to your desktop PC, the Armada 7800 even incorporates a DVD drive for movies-on-the-move. Based around a 300MHz PII it doesn't hang around and benefits from an 8Gb hard drive and 64Mb memory. With up to five hours' battery life it should be able to keep going longer than its users, and the power adapter is integrated – goodbye power brick.

► PCW March '99, p79



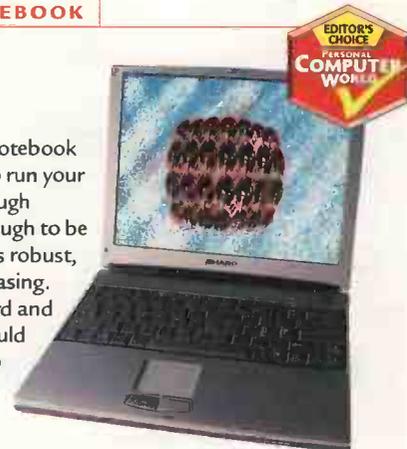
Price £3878.68 Contact Compaq 0181 332 3000
Also recommended Panasonic Toughbook CF-71 Price £2701.32 Contact Panasonic 0800 444220 • IBM ThinkPad 770 Price £3795.25 Contact IBM 0870 601 0136 (both PCW March '99)

MID-RANGE NOTEBOOK

Sharp PC-A150

Light and portable, this notebook also has enough power to run your office apps and a big enough screen, which is good enough to be used in presentations. It is robust, with a magnesium alloy casing. With its excellent keyboard and external floppy drive it could even be used as a desktop replacement.

► PCW March '99, p183



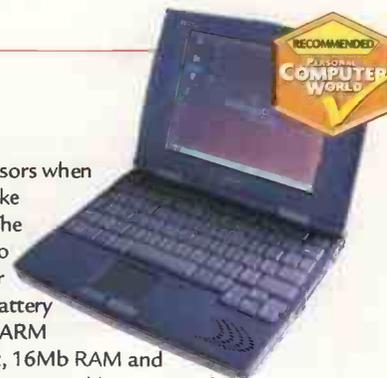
Price £2,109.13 Contact Sharp 0800 262958
Also recommended AJP 1100M Price £1,350.08 Contact AJP 0181 208 9744 • Sony Vaio 505 Price £2301.83 Contact Sony 0870 2402408 (both PCW March '99)

PDA

Hewlett-Packard Jornada 820e

Fed up with ever-faster processors when all you need is a machine to take notes and check your email? The Jornada could be the answer to your prayers. You can work for a full day without fear of the battery dying and with an Intel StrongARM processor running at 190MHz, 16Mb RAM and an integrated 56K modem, it has everything you need when on the move. And its 8.2in STN screen with a resolution of 640x480 is large enough to see exactly what you are doing.

► PCW February '99, p120



Price £849 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 895CXi

For all-round excellence you cannot do better than the HP 895CXi. The quality of its output for both text and graphics is impressive given the swift speed at which they are produced. Even its 'econofast' mode could be used for vital documents, saving both time and ink. It takes a huge range of papers and replacing ink cartridges is a breeze.

► PCW February '99, p151



Price £292.58 **Contact** HP 0990 474747 **Also Recommended** Epson Stylus Color 740 **Price** £272.60 **Contact** 0800 220546 • Epson Stylus Color 850 **Price** £318.43 **Contact** 0800 220546 (both PCW February '99)

BUDGET LASER PRINTER

Kyocera FS-600

This personal 6ppm laser printer easily beats all other laser printers in its class. Its speed is impressive, printing out a steady six pages per minute no matter what the paper coverage, and the quality of its output is second to none, both for graphics and text. It is easily upgradeable, taking an impressive 36Mb of RAM. It has a PostScript option and there is even an ethernet port that comes as standard.

► PCW February '99, p199



Price £299 **Contact** Kyocera 0118 923 0660 **Also Recommended** Panasonic KX-P6300 **Price** £257.32 **Contact** Panasonic 01344 853081 (PCW February '99)

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



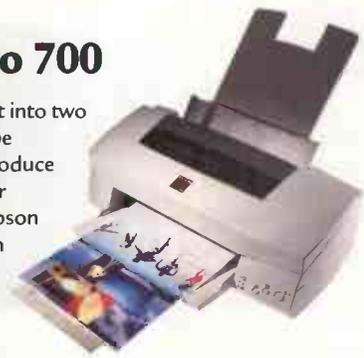
Price £629 **Contact** HP 0990 474747 **Also Recommended** Canon MultiPASS MPC20 **Price** £370.13 **Contact** Canon 0181 773 3173 (PCW January '98)

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 '98)

BUSINESS LASER PRINTER

Lexmark Optra K1220

It is rare that you find a printer which is both good value and produces exceptional quality output, yet the Optra K1220 is just such a laser printer. With a rated speed of 12ppm it produces text in good time, but most of all its outstanding quality, both for text and graphics, puts it second to none amongst laser printers.

► PCW February '99, p201



Price £722.63 **Contact** Lexmark 01628 481500 **Also Recommended** QMS DeskLaser 1600P **Price** £816 **Contact** QMS 01784 445555 • HP LaserJet 4000TN **Price** £1,316 **Contact** HP 0990 474747 (both PCW February '99)

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 users wanting top performance, or those with older systems, 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 1,536x1,024 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 the details panel, below) which was our Editor's Choice in the high-end section.

► PCW April '98, p204



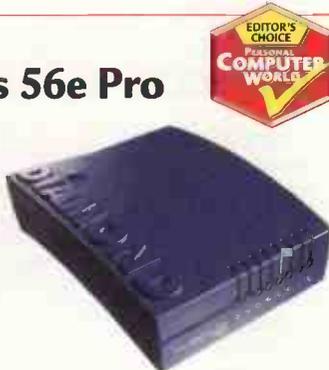
Price £440.63 Contact Nokia 01793 512809 Also Recommended Mitsubishi DiamondPro 700 Price £569.88 Contact Mitsubishi 01707 276100 (PCW April '98)

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 Fax Modem 56Kx Price £89 Contact SCS Data Communications 01494 748904 (PCW December '98)

REMOVABLE STORAGE

Sony HiFD

With the same form factor disks as a 3.5in drive, this could replace your floppy but crams a whopping 200Mb onto each disk. Early units will be parallel-only affairs, but will soon be joined by internal ATAPI and PC Card versions. It's a little slow but easy to use.

► PCW March '99, p91



Price £149 Contact Sony 01932 816660 Also Recommended Iomega Jaz 2Gb Price £270 Contact Iomega 0800 973194 • Imation SuperDisk 120 Price £105 Contact Imation 01344 402200 (both PCW, August '98)

SOUND CARD

Creative Labs Sound Blaster Live!

SoundBlaster cards have long been the best choice for non-professional users. The SoundBlaster Live! ups the ante, providing near-professional quality sound at a bargain price. And, it comes with an impressive bundle of dedicated digital I/O daughtercard, speakers, subwoofer and games.

► PCW December '98, p92



Price £149 Contact Creative Labs 01189 344744 Also Recommended Terratec EWS645 Price £149.23 Contact Terratec 01600 772111 (PCW July '98)

GRAPHICS CARD

Diamond Viper V550

Sporting Riva's latest TNT chipset, the Viper V550 graphics card provides absolutely storming 3D performance, with a full 3D feature set and good image quality to boot. Its 16Mb of RAM provides 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

Intuit Quickbooks 6



Touted as the easiest accounting package for small businesses, QuickBooks has a long history and a large user base. Version 6 is the first 32-bit incarnation. It even monitors company performance and sounds the alarm should you fall behind.

► PCW March '99, p92



Price £199 (Pro version) Contact Intuit 0800 585058 Also Recommended MYOB Price £229.13 Contact Bestware 01752 201901 • TAS Books Price £116.33 Contact Megatech 01372 727274 (both PCW, June '98)

DATABASE

Microsoft Access 97



This 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 January '99)

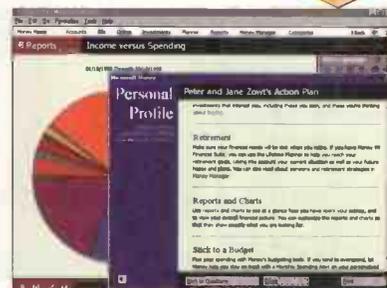
PERSONAL FINANCE

Microsoft Money Financial Suite 99



Microsoft Money Financial Suite 99 is our choice for personal finance. It offers online banking and updating facilities, as well as Sage compatibility, all at a bargain price.

► PCW February '99, p80



Price £49.99 Contact Microsoft 0345 002000 Also Recommended Quicken 98 Price £39.99 Contact Intuit 0181 990 5500 (PCW June '98)

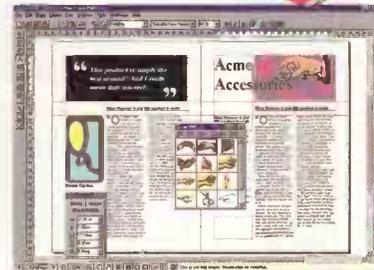
DTP

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 4X.

► 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)

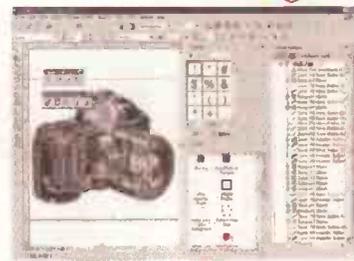
DRAWING

Corel CorelDraw 8



Not one of Corel's classic years, but this is still the Windows drawing package to own. Version 8 of this giant suite boasts better drawing and new interactive tools. Artists on a budget should check out Micrografx Windows Draw 6.

► PCW October '98, p203



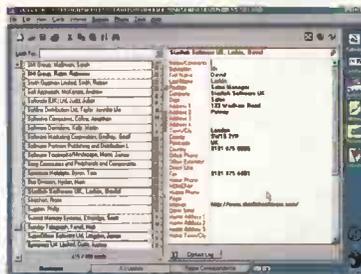
Price £464.13 Contact Corel 0800 581028 Also Recommended Adobe Illustrator Price £351.32 Contact Adobe 0181 606 4000 • Freehand Price £327.82 Contact Macromedia 01344 458600 (both PCW October '98)

INFORMATION MANAGERS

Starfish Sidekick 98

The best personal information manager boasts wide customisability as its greatest strength. For heavyweight contact management, you need look no further than Goldmine 4 (see the details 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 onto 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



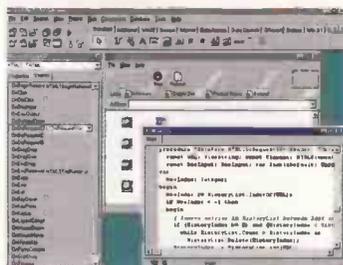
Price £169.95 Contact Traveling Software 01344 383232
Also Recommended Symantec pcAnywhere Price £75.08 Contact Symantec 0171 616 5600 (PCW December '98)

PROGRAMMING TOOL

Symantec Visual Café 2

Visual Café 2 is the most productive visual Java tool out there 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



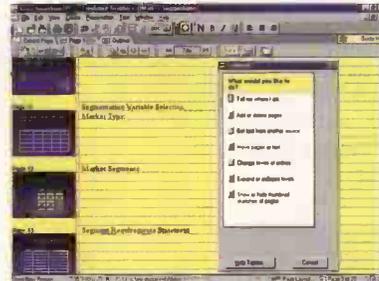
Price from £79 Contact Symantec 0171 616 5600
Also Recommended Borland Delphi 3 Price £95.18 Contact Borland 01734 320022 (PCW April '98)

PRESENTATION GRAPHICS

Lotus Freelance 97

This is our choice for electronic presentations. For you it may also come down to which office suite you own or are considering, but 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

Adobe PageMill 3.0

Ease of use is the key and PageMill takes this to the nth degree. Frames can be dragged into position from the borders and alterations are made in a context-sensitive dialog box. Even a child could create a web presence with this package.

PCW March '99, p195



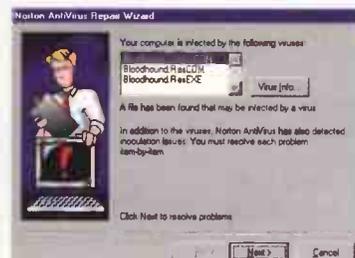
Price £92.83 Contact Adobe 0181 606 4000
Also recommended Fusion 3.0 Price £233.83 Contact NetObjects 01189 829822 + Homesite 4.0 Price £88.13 Contact Allaire 01638 569600 (both PCW, March '99)

ANTI-VIRUS

Norton AntiVirus 4.0

Norton 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)

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32 MB SDRAM
3.2 GB UDMA HARD DRIVE
4 MB ATI RAGE 3D AGP
16 BIT SOUND CARD
36 SPEED CD ROM DRIVE
1.44 MB FLOPPY DRIVE
ATX MIDI TOWER CASE
W/95 KEYBOARD & MOUSE
200W POWER SPEAKERS
17" DIGITAL 0.28 MONITOR

£569.00 inc. VAT

INTEL PENTIUM II P300
440 BX MOTHERBOARD
64 MB SDRAM
8.4 GB UDMA HARD DRIVE
8 MB 3D AGP EXPERT 98
AWE 64 SOUND BLASTER
36 SPEED CD ROM DRIVE
4 PCI/3 ISA SLOTS
1.44 FLOPPY DRIVE
ATX MIDI TOWER CASE
W/95 KEYBOARD & MOUSE
56K INT. MODEM BAPT/PCI
200W POWER SPEAKERS
17" DIGITAL 0.28 MONITOR

£849.00 inc. VAT

INTEL PENTIUM II P400
440 BX MOTHERBOARD
64 MB SDRAM
11.5 GB UDMA HARD DRIVE
LS120 SUPER FLOPPY DRIVE
8 MB 3D AGP EXPERT 98
AWE 64 SOUND BLASTER
36 SPEED CD ROM DRIVE
4 PCI/3 ISA SLOTS
ATX MIDI TOWER CASE
W/95 KEYBOARD & MOUSE
56K INT. MODEM BAPT/PCI
200W POWER SPEAKERS
17" DIGITAL 0.28 MONITOR

£1139.00 inc. VAT

INTEL PENTIUM II P266
440 BX MOTHERBOARD
64 MB SDRAM
6.5 GB UDMA HARD DRIVE
8 MB 3D AGP EXPERT 98
AWE 64 SOUND BLASTER
36 SPEED CD ROM DRIVE
4 PCI/3 ISA SLOT
1.44 MB FLOPPY DRIVE
ATX MIDI TOWER CASE
W/95 KEYBOARD & MOUSE
56K INT. MODEM BAPT/PCI
200W POWER SPEAKERS
15" DIGITAL 0.28 MONITOR

£759.00 inc. VAT

SYSTEM OF THE MONTH

AMD K6 3D 333
S/7 TX 1MB 100MHZ M/BOARD
128 MB SDRAM (PC 100)
8.4 GB UDMA HARD DRIVE
8 MB AGP MATROX G200 G/CARD
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

£999.00 inc. VAT

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128 MB SDRAM
10.2 GB UDMA HARD DRIVE
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
56K INT. MODEM BAPT/PCI
200W POWER SPEAKERS
VIDEO CONFERENCING
17" DIGITAL 0.28 MONITOR

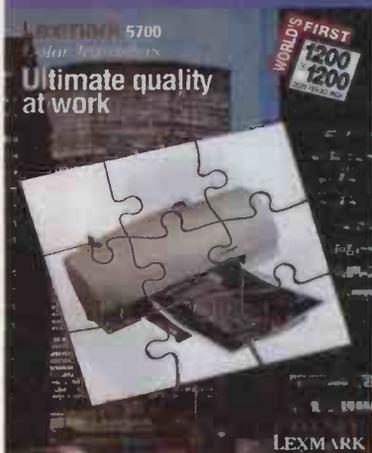
£1759.00 inc. VAT

ACCESSORIES

COMPONENTS

AMD K6 2 3D 300
S/7 TX 1MB 100MHZ M/BOARD
64 MB SDRAM
6.5 GB UDMA HARD DRIVE
8 MB 3D AGP EXPERT 98
16 BIT SOUND CARD
36 SPEED CD ROM DRIVE
1.44 MB FLOPPY DRIVE
ATX MIDI TOWER CASE
W/95 KEYBOARD & MOUSE
56K INT. MODEM BAPT/PCI
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IMPORTANT INFORMATION

For the faxback service to work correctly, you must be referring to the current issue of *Personal Computer World*, and have your machine set to use tone dialling (you may need to switch your machine from "pulse" to "tone"). If you

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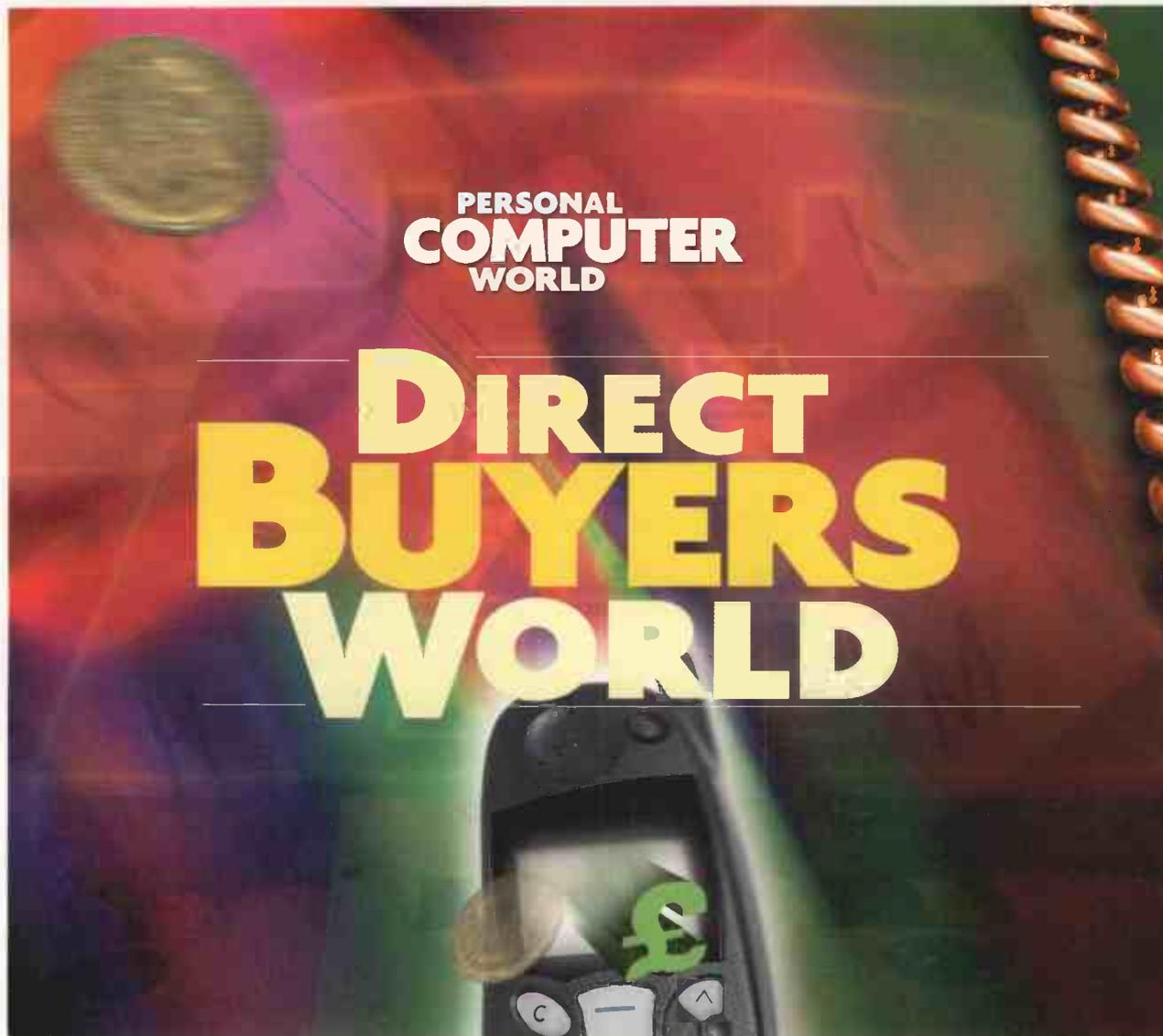
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| Codewright Prof 5.0 | £150 |
| Epsilon 9.0 | £261 |
| Kedit for Windows | £129 |
| Multi-Edit 8.0 | £107 |
| Visual SlickEdit (Win) 4.0 | £203 |

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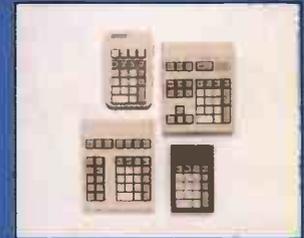
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Our new touch screen panel clips directly to your existing monitor and, through the supplied serial interface and software, can emulate a mouse for instant touch control of your applications – or use it as a development tool for your own touch screen programmes. Fits 14" and 15" screens. Bonded touch monitors also available.

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Address overload

http://www.whocares?

Before revealing the winners of our celebrated Christmas quiz, I'd just like to have a quick whinge about the internet. Not the usual stuff that people moan about though, like slow ISPs, expensive tech support or freedom of information. No, what's really annoying me this month is the way uninformed broadcasters and media handle the pronunciation and presentation of web-site URLs.

Not sure what I'm getting at? Okay then: someone at your work, or perhaps a mate in the pub, asks you about a web site. 'Where is it?' they enquire. You reply, 'pcw-dot-co-dot-uk'. No need to mention the three w's and God forbid you start the oral assault course of 'http-colon-back slash-back slash...'. No; we, like many web browsers, assume this intro is always present and simply dispense with it in favour of the really important bit. Yes, I know some sites *don't* start with www, but bear with me.

It's annoying enough when your colleagues literally spell it all out, but what about on the radio and TV? You've almost passed out through sheer boredom by the time they've read out the entire address. While those who know the internet are irritated by the lack of

familiarity shown by broadcasters, it doesn't do those uninitiated into the web any favours either.

I wonder whether a similar situation occurred years ago when telephone numbers first became commonplace for businesses? Perhaps the viewing and listening public wondered what this mysterious string of numbers meant, following the perfectly adequate postal details? I'm sure many of them moaned: 'It'll never catch on'.

And, while we're at it, we all know that web addresses can sound funny, but it's neither big nor clever to mock them in advertising campaigns: straight-talking beer company — you know who you are. Now that's out of my system... er, folder — *ho ho ho!* (you see, computer jokes are just not funny) I can get on to reporting the long-awaited results of our 1998 Christmas quiz (*see the separate panel, below*).

IVOR BUGBEAR

PCW Christmas quiz result

In the January issue we posed 50 fiendishly difficult Christmas Quiz questions. The 'film and TV' section proved particularly tricky: the R2 unit failed due to a bad motivator, not a heavy night out on Christmas Eve, as one of you suggested. One entry correctly named Lore as Commander Data's evil brother but failed to answer *any* of the other 49 questions. Then again, another entrant claimed that one question was ambiguous and hence (he argued) rendered the rest obsolete. Finally, Gromit's Techno Trousers were ex-NASA as opposed to hailing from the Samsung labs, Nick Park's wardrobe or Tesco Metro. However, virtually all of our entrants got almost all of the answers right, which proves just what a brainy bunch you PCW readers are!

Most cunning of all, and winner of a **Canon PowerShot A5** digital camera (*pictured*), was **Martin Stockdale** of Preston, who just fractionally beat Alan Sherratt of Warrington to the star prize. Alan and 19 lucky others get copies of **Encarta 1999 Reference suite**. Congratulations!



next month

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"An impressive home PC solution... an extremely rewarding purchase." Editor's Choice, Viglen HomePro 350 DS, PC Magazine, January 1999

"Viglen has built a leisure machine with no holds barred." 'Style Award', HomePro Awesome Plus, PC Plus, January 1999

"...a fast 400 PC that deserves more than a second look." 'Recommended', HomePro 400VX, PC Advisor, February 1999

"... corker of a PC, with fine components and excellent upgradeability" Top 50 Best Buys, Viglen HomePro 350XX, Computer Buyer, December 1998.

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The HomePro Awesome 450

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- ◆ 56Kbps V90 modem
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- ◆ 2 serial, 1 parallel, 1 games, 2 PS/2 ports
- ◆ 17" SuperVGA Colour Monitor
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Upgrade to an Awesome Plus for only £100 (UPHA0A01)

For just £100 (£117.50 inc. VAT), specification as above but with:

- ◆ 12.7Gb Hard Drive
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The Viglen Pro Range

When it comes to choosing PCs and notebooks, Viglen is well equipped to cater for all your needs. All HomePro Systems are pre-installed with Microsoft's acclaimed Works Suite 99 software package and Microsoft® Windows® 98, and our BizPro S range boasts Microsoft® Office® Small Business Edition (SBE). A wide range of processor options is available, from the Intel® Celeron™ processor to the latest state-of-the-art Intel® Pentium® II processor 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 machine comes with unrivalled technical support and after-sales service.

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Ⓐ HomePro Value



from
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exc. delivery & VAT
from
£709.70
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- ◆ Desktop Case
- ◆ 32Mb SDRAM
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| | | | Exc. Del. & VAT | Inc Del. & VAT | Order Code | Easy2Own |
|---------------------------|--------|-------|-----------------|----------------|------------|----------|
| Intel® Celeron™ Processor | 300MHz | 128Kb | £579.00 | £709.70 | SYHV30M8 | £22.66 |
| Intel® Celeron™ Processor | 366MHz | 128Kb | £629.00 | £768.45 | SYHV36M8 | £24.54 |
| Intel® Celeron™ Processor | 400MHz | 128Kb | £649.00 | £791.95 | SYHV40M8 | £25.29 |

BizPro S Value Specification as above plus Microsoft® Office® '97 SBE in place of Microsoft® Works® Suite 99 - Add £90 (Exc VAT).



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Model featured is HomePro Value

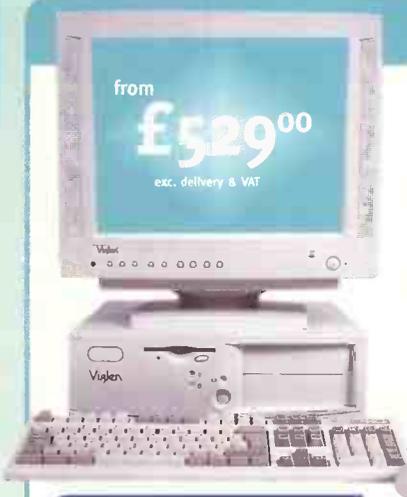
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- ◆ Engineered to provide maximum value with no compromise on quality or reliability
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- ◆ Available in a full range of compact, desktop and tower formats

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The professional PCs shown are only a small selection of the machines Viglen can offer. All Viglen professional PCs can be tailored to your exacting specifications or designed as part of a total IT solution. For further details on how your organisation can benefit from a Viglen solution call one of our dedicated sales teams.



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- ◆ 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 Card
- ◆ 56Kbps V90 modem
- ◆ 2 serial, 1 parallel, 1 game and 2 PS/2 ports
- ◆ 17" SuperVGA Colour Monitor with internal stereo speakers
- ◆ Keyboard
- ◆ Microsoft® Intellimouse
- ◆ Microsoft® Windows® 98
- ◆ Microsoft® Works® Suite 99

ⓒ HomePro Awesome

Loaded with state-of-the-art features and technology to deliver stunning graphics and incredible audio, the HomePro Awesome is quite simply the most advanced multimedia system of its kind.

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- ◆ 4x DVD ROM and Software Movie Player
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- ◆ 56Kbps V90 modem
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| Intel® Celeron™ 400MHz 128Kb | £789.00 | £956.45 | SYHU40M8 | £30.54 |
| Intel® Pentium® II Processor 400MHz | £909.00 | £1097.45 | SYHU4028 | £35.04 |
| Intel® Pentium® II Processor 450MHz | £1059.00 | £1273.70 | SYHU4528 | £40.67 |

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| Intel® Celeron™ 366MHz 128Kb | £959.00 | £1156.20 | SYHA36M8 | £36.92 |
| Intel® Celeron™ 400MHz 128Kb | £979.00 | £1179.70 | SYHA40M8 | £37.67 |
| Intel® Pentium® II Processor 400MHz | £1099.00 | £1320.70 | SYHA4028 | £42.17 |
| Intel® Pentium® II Processor 450MHz | £1249.00 | £1496.95 | SYHA4528 | £47.80 |

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All printers include FREE printer cable and FREE delivery if ordered and shipped with a Viglen PC.

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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.

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Software Packages

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Microsoft® Word® 97 The easy way to create impressive documents.

Microsoft® Works® 4.5 Essential tools for easier, everyday computing. Integrated spreadsheet, database graphics and communications tools.

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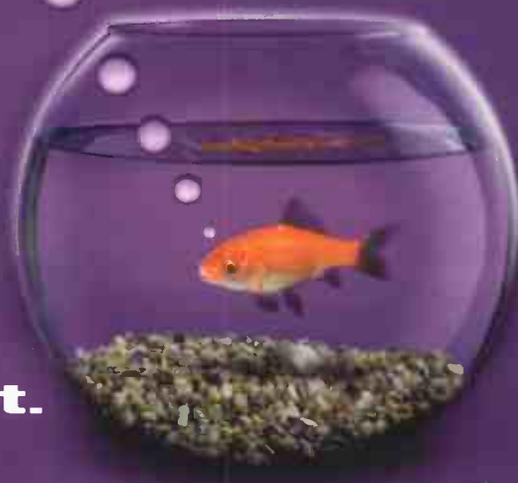
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