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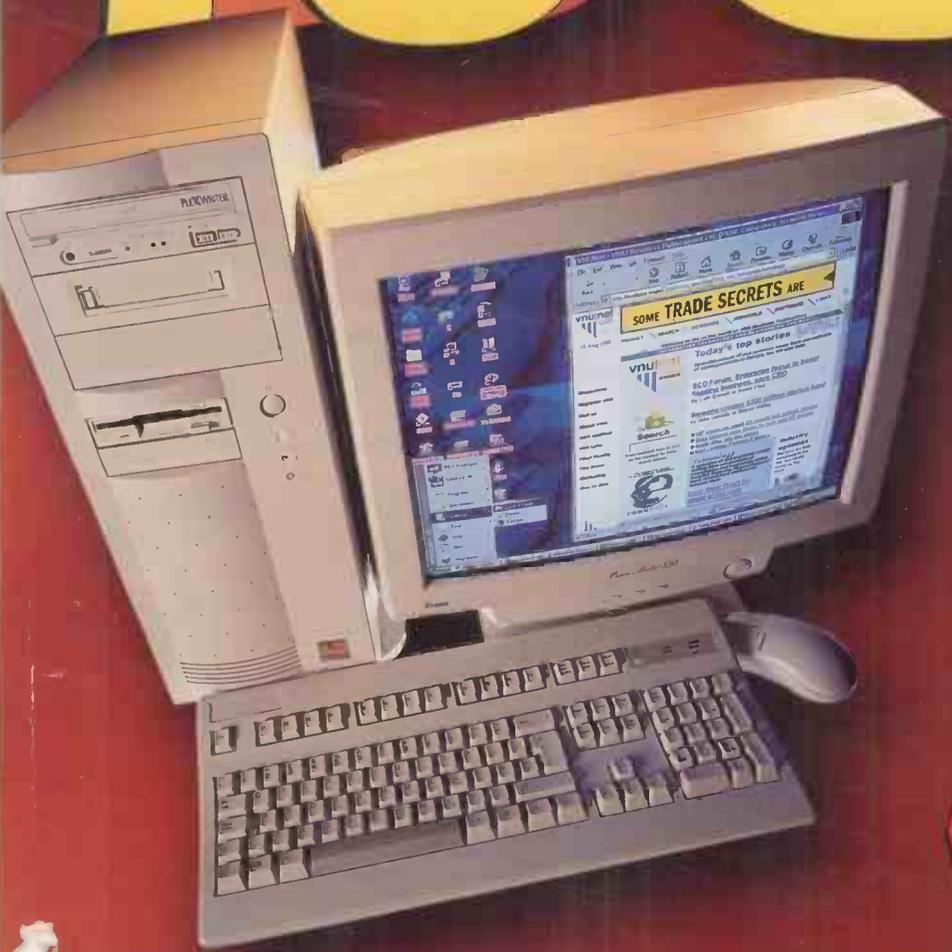
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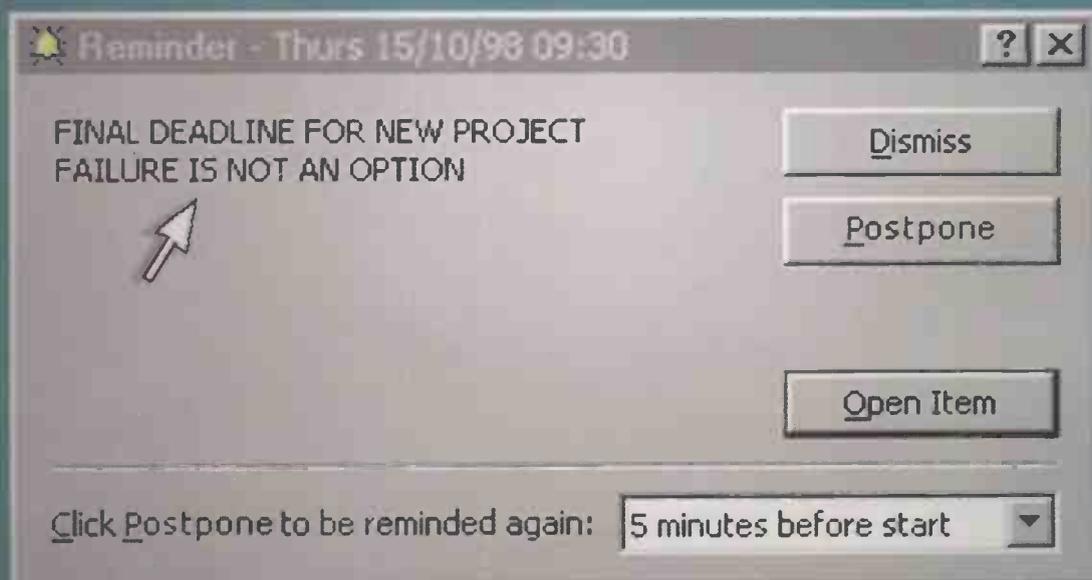
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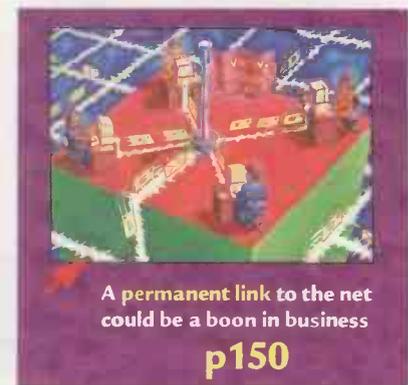


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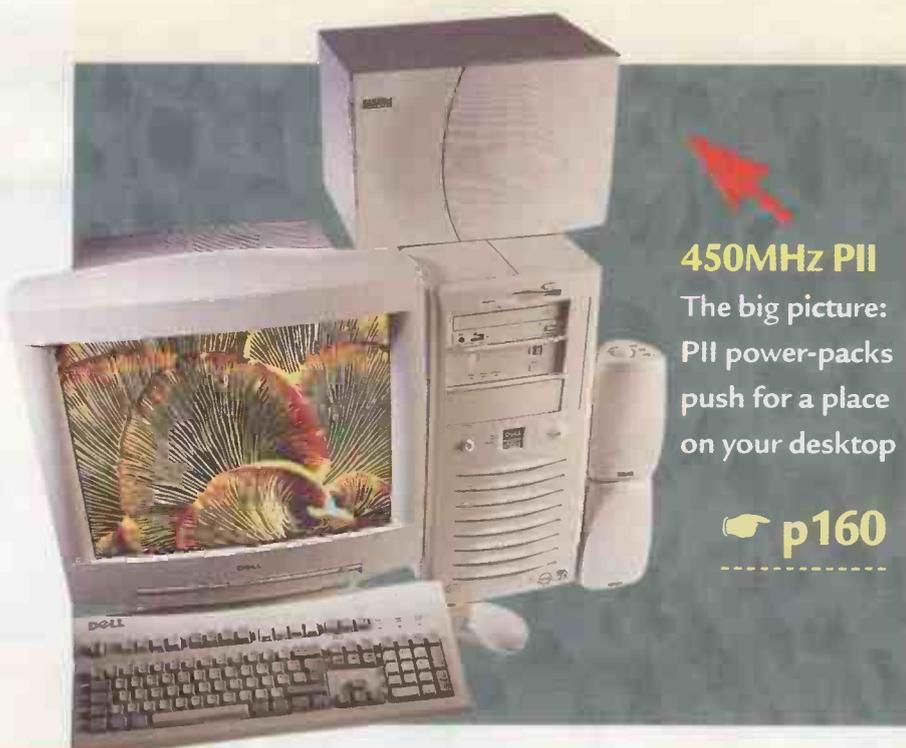
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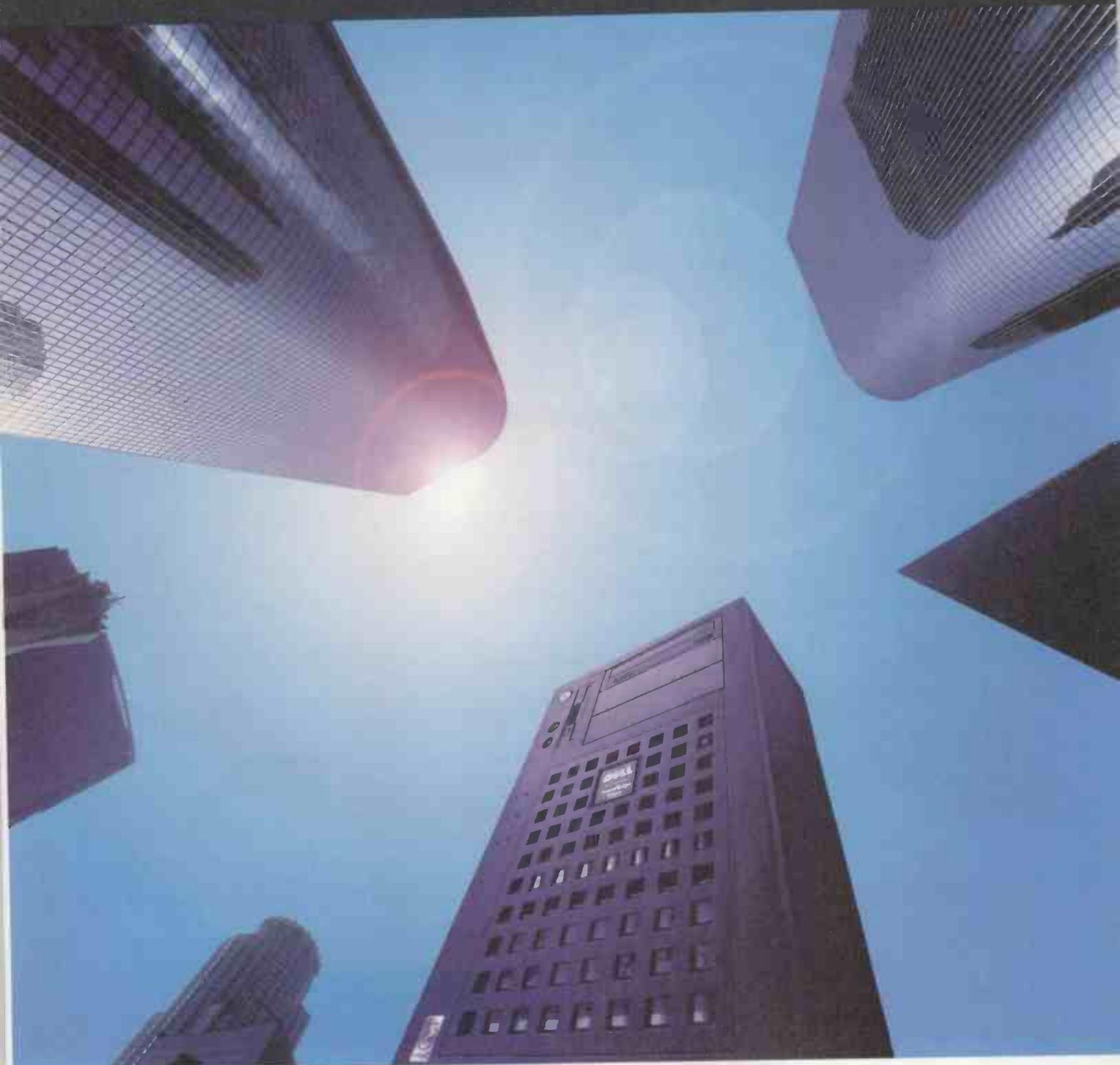
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We hope you enjoy this special redesigned issue of PCW, but it's your magazine and we'd appreciate your comments. Please email us on newlook@pcw.co.uk with your thoughts — we'd like to know what you think.

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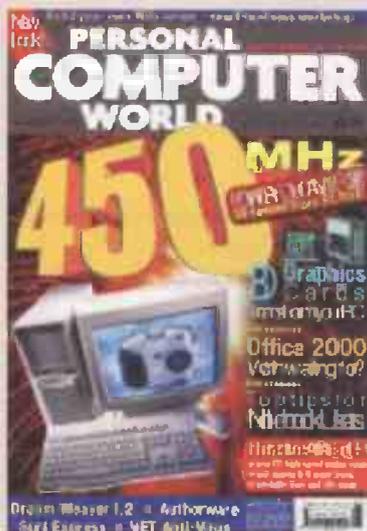
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The 450MHz chip is here. But **confusion reigns**, and competition is keen.

Intel inside

Performance measured in megahertz has been more than adequate for as long as I can remember, but this month our mainstream group test features 450MHz chips — that's just a shade under half a gigahertz. If you're waiting for Intel, the full gigahertz is said to arrive around the time of the millennium, hopefully free of any Year 2000 problems.

But why wait for Intel? The other processor manufacturers are valiantly hanging in there; but who would seriously consider buying one, unless money really was too tight to mention? I'll tell you who: me. I don't know about you, but I feel slightly confused about Intel's recent raft of PC processors. The company correctly spotted the large number of people flocking to buy entry-level to mid-range PCs and found its selection of chips could not compete: it's hard to build a £600 PC when two thirds of the price is the chip. So Intel responded with the Celeron, a Pentium II without the Level II cache. This cache, albeit expensive, is

there for a very good reason, and as Intel discovered, removing it results in an unimpressive performer. So in its latest Celerons, Intel put the cache back — a quarter of the size of the normal

The old Celeron is still in circulation, and it's often difficult to find out whether you're **GETTING THE NEW ONE OR NOT** when ordering

Pentium II's, but twice as fast! Confusing? Yes. Better or worse? Tricky to say really, but in tests so far, not quite as good. We can definitely say, however, that this new chip, codenamed Mendocino, is currently available in 300 and 333MHz flavours, the former clearly distinguished from the old cacheless and inferior 300MHz Celeron by the placing of a little letter a after it. Clear as mud.

Where it all gets really confusing is that the old Celeron is still in circulation, and it's often difficult to find out whether you're getting the new one or not when ordering. Throw the old standard Pentium II into the equation, and you could have the choice of three different processors when buying a 300MHz Intel PC. So it pays to be careful when specifying which you're after, or look elsewhere entirely. AMD has released its mid-range K6-2 3DNow! chip, which could end up boasting performance that would allow you to forgive its name. A new set of built-in instructions could significantly improve games performance, so long as developers refer to them. Microsoft already has in its latest version of DirectX, used to write games under Windows.

Intel has always been good at the high end, such as the 450s reviewed in this issue, but it clearly has to take entry- to mid-level competition from companies like AMD very seriously — good news for the PC buyer. As for myself, I'm seriously considering an alternative to Intel for my next processor. Either way, I'll back it up with one of the new breed of 3D graphics cards [p190] to prove that top performance doesn't always rely on processors with prices as big as their labels.

Finally, thanks to the enormous number of you who have written over the past month with your comments on the new-look PCW. It's not too late to let us know what you think, so please email me at newlook@pcw.co.uk.

Gordon Laing, Editor

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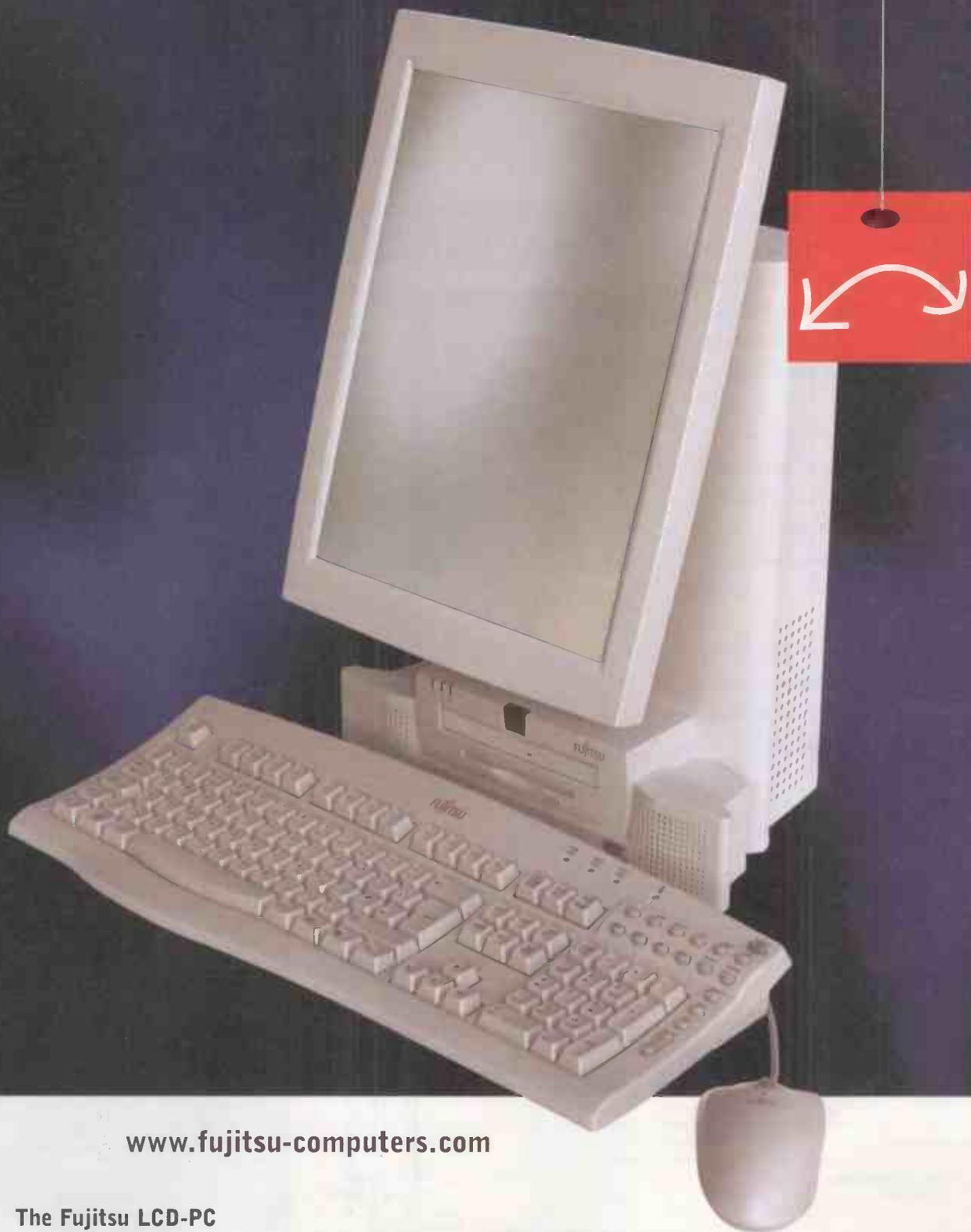
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New this month, we have a great new Entertainment Section for you from In Chair Viewing which includes exclusive music and video from top bands as well as a film trailer of the great new Nicholas Cage film, Snake Eyes.

Check out Grim Fandango in *Featured Software* if you fancy a game with a surreal twist. And, if you have access to the internet, take a look at Spinner which enables you to listen to your own choice of music, straight off the web.

Don't forget our *Software Library*, where there are over 50 more games, applications and essential utilities. If you want the best software, just load that disc up now!

Grim Fandango



Something's rotten in the Land of the Dead. Manny Calavera, travel agent at the Department of Death sells luxury packages to souls on their journey to eternal rest. But there's trouble in paradise and Manny needs help. This new and unusual graphic adventure from LucasArts is inspired by the films Chinatown, Casablanca and The Big Sleep, and mixes classic *film noir* with the exotic mythology of ancient Mexico. The elements at the core of Manny's struggle are danger, drama and greed.

Manny is employed to pick up people in the Land of the Living and set them off on a four-year journey to their eternal resting place. But he is caught in the middle of a conspiracy that prevents him from getting on, even if he meets his sales quota. By stealing a prime prospect, he sets a chain of events in motion that threaten the destiny of his soul. The game puts you right inside Manny's strange world. This demo contains a selection of the hundreds of puzzles contained in the full version which have been designed to challenge both the novice and veteran adventure gamer and it takes you to some of the full version's 90 exotic locations, ranging from the bustling metropolis of El Marrow, to the mountaintop portal to the Ninth Underworld.

PCW DETAILS

Operating system
Windows 3.1 or higher
Limitations
Full version
Sales contact
0181 970 1909
Technical support
0181 207 1792 between 10am-1pm, and 2pm-5pm (on Wednesdays there's a 2pm start)

Technical information to help you use the CD

✓ System Requirements

You will need a PC running Windows 3.1 or Windows 95. Please check individual products for specific system requirements. For best results, run the CD-ROM on a Pentium PC with at least 16Mb of memory.

✓ How to use the CD-ROM

Quit existing applications – if you have 16Mb or more of memory, you do not have to do this, but you will nevertheless get

better performance if not too many other applications are running.

Put the disc into your CD drive.

Windows 95 – If you have got Windows 95 the PCW interactive loader will appear on your screen. But if your CD does not autoload, go to Start/Run and type in

<CD Drive>:\pcw.exe
Windows 3.1 – From Windows Program Manager choose File/Run, then type in <CD Drive>:\pcw.exe and press enter.

✓ CD-ROM Problems

If you have problems with individual products, please check in the magazine or on the CD for company contact details.

If you have general problems with the CD, the technical helpline is open on weekdays from 10:30am - 12:30pm and 1.30pm-4:30pm. Phone 01274 736990.

If you have problems with the CD-ROM

(such as a message reading "Cannot read from drive D:") return the disc, with a covering note and clearly marked "PCW CD November 98" to:

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A replacement disc will be sent to you by post.

✓ Getting your software onto our CD

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HELPLINE

01274 736990



Sin

Elaxis Sinclaire, head of SinTek Industries, is spreading a DNA-altering drug as part of her plan to take over the world with an army of mutants. As Colonel John R. Blade, you are going to make her pay for her sins. Sin is a first-person, character-driven, story featuring multiplayer gameplay powered by an enhanced Quake II engine. Your actions affect the course of the game, so no two

PCW DETAILS

Operating system
Windows 95
Limitations Limited levels, cut-down features.
Sales contact
01865 264 817
Technical support
support@grolier.co.uk

battles will be the same. Your arsenal includes snipers, remote control detonation and new weapons that may literally rip you apart.



Nightmare Creatures

With excellent graphics this third-person 3D perspective adventure is comparable to Tomb Raider. Playing the part of either Father Ignatius Blackward or Nadia F, you must find and destroy the cause of the virus that is turning Londoners into flesh-eating zombies. The game is set in a spooky atmosphere, with great sound effects and music, realistic smoke and fog. Nightmare Creatures pushes game

PCW DETAILS

Platform
Windows 95
Limitations Limited tracks, cars and race duration.
Sales contact
0181 944 9300
Technical support
0181 944 9000

graphics and audio to their limits so you will need a fairly powerful machine to appreciate all the features at their best.



Jetspeed

Jetspeed, from HP, is an office network racing game for up to four players. Designed to communicate the benefits of network-sharing printers and servers, you race in a virtual office environment. There's a full screensaver function and a selection of animated and 3D sequences to download. Network-ready, and with single and multi-player options you can choose from three LAN race circuits and

PCW DETAILS

Operating system
Windows 95
Limitations
Early-levels demo.
Sales contact
+45 8680 2700
Technical support
None

a selection of cars which can be swapped between a London taxi, a pickup truck, a Jaguar XK8 or a black F355 racing Ferrari.

FreeHand 8

FreeHand 8 has been developed to combine the sophistication required for PostScript print output with the need to generate compact graphics for web pages. It offers an ideal authoring front-end for Flash. You can use the familiar

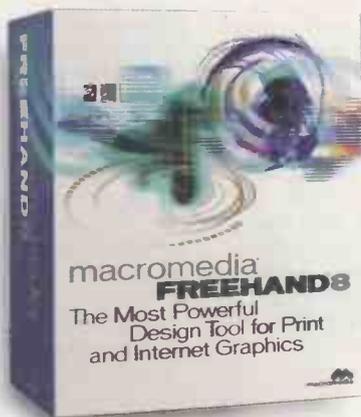


illustration environment to create effects, layouts, or entire animation sequences and transform any multi-object blends or text on a path, into Flash animations, thus creating vector morphs and animated text. Other features include printable transparency capabilities which keep documents in an editable vector format, and a magnifying lens which can be useful for creating live insets or annotations. You can also export and import new file formats including Corel 7, WMF, and EMF, DCS 2, Flash 2 and the latest versions of Acrobat, Illustrator, Photoshop, and Insta.HTML 2 which provides an easy way to transform FreeHand files into a WYSIWYG HTML format.

PCW DETAILS

Platform
Windows 95
Limitations
30-day trial
Sales contact
0181 358 5857
Technical support
None

EarthTuner

EarthTuner combines RealAudio and RealVideo with a database of audio, video and web links, to access radio, TV, and net broadcasts from the web. By selecting from this huge list of sites providing streaming media, you have instant access to programs being broadcast from around the world. Choose stations in a number of ways: from an animated globe, to a browse window, using the integrated search engine to find any radio station whose name you can remember.





Spinner

Spinner lets you access over 100 channels of music via a simple, free, interface that works with your web browser. With immediate access to Title, Artist, Album and Channel information, you know exactly what you're listening to, and on which Spinner.com channel you're hearing it. View the album cover of the current track, pre-select seven favourite channels, customise two channels with favourite songs and see what's playing on any other channel by rolling over it with your mouse. Then, you can go ahead and purchase the CD online.

WaveLab 2.0



WaveLab 2.0 is a fast audio editor that enables real-time processing during playback in an easy-to-use graphics interface. This application contains all the tools you need to record, edit and make detailed analyses right through to a final cut and mastering, with quality results in 24-bit, using an appropriate audio card. The package can be used to archive files using the integral database. WaveLab can

communicate with most current samplers, via SCSI and can transfer multisamples in a matter of seconds. WaveLab is designed to allow you to add third-party plug-ins and processing tools, expanding your system to suit your particular working requirements. And, to realise good ideas spontaneously, WaveLab's speed-optimised audio editor lets you take care of the smallest detail in real time, whether you are adding more punch to the bass, boosting the high frequencies, or filtering out noisy notes from a clumsy bass player — and, you don't need an audio engineering qualification to do it.

PCW DETAILS

Platform
Windows 95
Limitations
Full version
Sales contact
0800 376 7070
Technical support
None

Software Library

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

Essential Utilities

• **New**

WebLeech 2.1

(Windows 95/NT)

The purpose of this application was to enable the user to download files which are attached to web pages, but without having to click on each link and file individually to save them. Instead, a list

of available files is created and either all or selected files can be downloaded. (Freeware)

• **New**

Microsoft Excel Viewer

(Windows 95/NT)

Excel Viewer 97 is a tool that lets Excel users share their spreadsheet files with more people than ever before! (Freeware)

• **New**

Microsoft Word Viewer 97

(Windows 95/NT)

Word Viewer lets those who already use any version of Word to share their documents with users who do not. (Freeware)

• **Add/Remove**

4Good 1.0

(Windows 95)

The utility that helps rid you of those

unwanted entries in Control Panels' Add/Remove list. (Limited use shareware)

• **Adobe Acrobat Reader 3.01 + Search**

(Windows 3.1/95)

The free Adobe Acrobat Reader lets you view, navigate, and print PDF files across all major computing platforms. (Fully functioning reader)

• **DirectX 6**

(Windows 95)

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

• **EzDesk for Windows 1.8**

(Windows 95)

A utility that manages the desktop icons' layout. EzDesk can restore a desktop icons' layout to a previously saved arrangement.

(Limited function shareware)

• **Fontastic 4.2**

(Windows 95)

Fontastic is a powerful font management tool designed for Windows 95. It allows quick and easy access for viewing all the fonts stored within your system as well as providing printed samples. (31 day evaluation)

• **GIF Construction Set 1.0Q**

(Windows 3.1/95)

The quickest and most professional way to create transparent, interlaced and animated gif files for web pages. (30-day shareware.)

• **Graphics Workshop 1.1Y**

(Win 3.1/95)

A superlative image management package that allows you to view, convert and catalogue your images in a wide variety of formats. (30-day shareware.)

• **Microangelo 2.1**

(Windows 95)

Provides access to icons of all sizes and colour formats used by Windows 95. Browse, manage, create, and edit icons from 8x8 to 64x64 pixels in size and up to 256 colours. (30 day trial)

• **MIRC 5.41**

(Windows 3.1/95)

Provides a user-friendly interface for use with the Internet Relay Chat (IRC) network. The network is a virtual meeting place where people from all over the world can meet and talk. (30-day shareware.)

• **NearSite 6.1**

(Windows 95)

NearSite allows you to retrieve and store internet files so you spend less time online. NearSite bookmarks can be set to automatically retrieve web pages from the net and keep them refreshed as often as you wish. (30-day evaluation)

• **Net Toob 3.5**

(Windows 3.1/95)

Net Toob Stream enables playback of online streamed, as well as online and offline downloaded MPEG-1, Video for Windows (AVI), QuickTime for Windows (MOV), QuickTime VR "object" files, Autodesk Animations (FLC/FLI), WAV audio and MIDI audio. It is reliable, easy to use and integrate, and works with multiple browsers.

• **Netscape Communicator 4.05 - Standard Edition**

(Windows 3.1/95)

One of the premier internet suites, including Netscape Navigator. (Free version)

• **Paint Shop Pro 3.11**

(Windows 3.1)

Fully-featured painting and image-manipulation program. Features include powerful

painting tools, photo retouching, image enhancement functions, batch file format conversion and support for over 30 different file formats.

(30-day shareware.)

• **Paint Shop Pro 5.0**

(Windows 95)

The latest version of this popular graphics editor, with powerful new features such as complete layer support, Picture Tube brushes, CMYK separations and pressure-sensitive tablet support. It includes enhancements to Paint Shop Pro's flexible painting and retouching brushes, adjustable cropping and selection tools, and image enhancements.

(30-day evaluation)

• **SpellWrite for Windows 1.6/2.1**

(Windows 3.1/95)

A unique utility that can spell-check any Windows program instantly (e.g. email, accounts, database etc) from a designated hot-key. It has an 85,000-word dictionary in UK format.

(30-day shareware.)

• **VuePrint Pro 6.0**

(Windows 3.1/95)

VuePrint is the most widely used Windows program for viewing images. You don't need to know anything about images or file formats to use VuePrint, just tell it to open a file and it automatically displays any images it finds.

(15 day evaluation)

• **WinZip SR 6.3 SR-1**

(Windows 3.1/95)

Industry-standard compression/decompression utility with

automatic built-in disk spanning support for multi-disk Zip files.

(21-day evaluation version)

New This Month

• **Asteroid Impact**

(Windows 3.1/95)

Enjoy seemingly endless levels of asteroid blasting, rock smashing, mayhem. This is massive and relentless obliteration on a grand scale, and loads of fun.

(Shareware)

• **Alma Page Generator**

(Windows 95)

A simple utility to transform the life of most web site developers. Massive sites can be created using database-driven pages but requires no CGI scripts. Runs on any server. (21-day evaluation)



◀ **NEW THIS MONTH, THE MOTHER OF ALL BATTLES — CAPTURE THE WORLD**

• **Critical Mass**

(Windows 95)

Critical Mass is an original, hideously addictive game set in the future, where you are the commander of a squadron of spaceships. You will

Campaign — a user-education initiative to advise and educate computer users regarding the importance of correct display selection on their machines.

(Freeware)

management principles to help you stay in control of your time and information. It provides you with a system that supports delegation, planning, tracking and workgroup interaction. The underlying principle is to help you make the best use of your time.

(Sponsored free version)

• **Exclusive Firefight**

(Windows 95)

The latest release from the stable of Sean O'Connor's Windows Games is Firefight, a WW II real-time simulation game. It relies on the use of artificial intelligence to create the most realistic and fun game of this genre to date, while having a user interface so simple and intuitive that you can learn to play in minutes.

(Shareware)

• **Mother Of All Battles**

(Windows 95)

A great strategy game for two to six

human or computer players. The object of the game is to capture the world, starting from your single home city. Each city can build units (using a range of weapons from tanks, to planes, paratroopers, submarines or even aircraft carriers) in order to explore the world and defeat your enemies.

(Limited demo)

• **Turbo Solve Pro**

(Windows 95 & NT)

Turbo Solve! Pro is a powerful, easy-to-use, 32-bit word puzzle solving program for Windows 95 and NT, capable of solving a wide variety of word puzzles including crosswords, anagrams, in-words, pair-up puzzles, word searches etc.

(Shareware)

• And, there's lots more to keep you amused: Microfile Pro, Star Stream Birthday Reminder, Table of Contents, Terrapin FTP Browser and WordSpin.



▶ **TURBO SOLVE PRO — THE PUZZLER'S FRIEND**

• **AntiViral Toolkit Pro**

(Windows 95/98 & NT)

A complete package of protection against computer viruses. AVP is easy to use and has a very large antivirus database.

(Limited Demo)

• **Auto ShutDown**

(Windows 95 & NT)

Automated shutdown scheduling utility for your computer.

(Shareware)

be sent on one of 30 different types of mission, ranging from protecting a convoy, to attacking an enemy starbase, or defending Earth.

(Limited demo)

• **CheckScreen**

(Windows 3.x/95/NT)

This software was produced by the Monitors Matter

• **Easy Zip 98**

(Windows 95/NT)

Easy Zip 98 is a comprehensive Zip Manager that perfectly accommodates your everyday needs.

(Freeware)

• **Edesk '97**

(Windows 3.x/95)

A fuss-free PIM based on time

CD-ROM

HELPLINE

01274 736990

ICV Entertainment Section

The first-ever dedicated entertainment section in this month's CD-ROM is brought to you by In Chair Viewing. ICV is rapidly establishing itself as a front runner in non-game multimedia entertainment. Since its conception three years ago, the company has gone from strength to strength placing its work on over seven million CDs around the world, from movie promotions for Armageddon and Tomorrow Never Dies, to enhanced music CDs for Garbage, Brian May and Sean Lennon, amongst others.

The ICV Entertainment Section requires Windows 95 or NT. Your display should also be running in 16-bit or thousands of colours. The program will detect whether your PC is running at these levels and, if necessary, will prompt you to reset your graphics card if necessary.

In this first ICV Entertainment Section, the stops have definitely been pulled out with world exclusives from Garbage and the Beastie Boys, a trailer from the new Nicholas Cage film "Snake Eyes" as well as the excellent "Legacy" video from Mansun.

Garbage

Another In Chair Viewing exclusive, this is the first time that this interview with the band has been publicly available in any form. Garbage discuss their latest album Version 2.0 which entered the UK chart at number one. There is also a chance to see excerpts from the excellent videos from I Think I'm Paranoid and Push It. When Garbage lead singer

Shirley Manson saw the multimedia work that In Chair Viewing had produced for the band, she personally requested that their website be based on it. So once you've seen the entertainment section, go and visit www.garbage.com to find out more about the band.

Mansun

A chance to view part of the Legacy video, recently released as the first single from Mansun's new album, Six. For more information on the band and their forthcoming tour dates, check out the Parlophone website at www.parlophone.co.uk

Beastie Boys

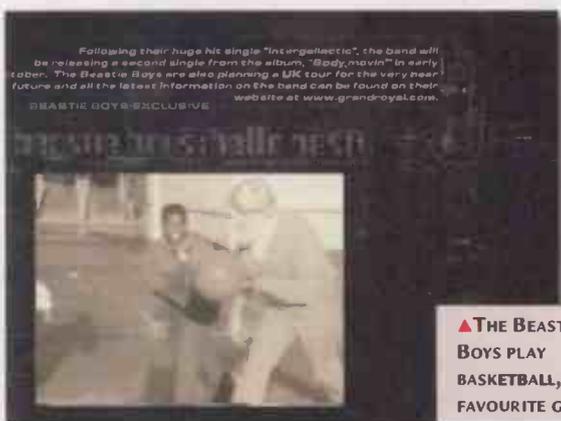
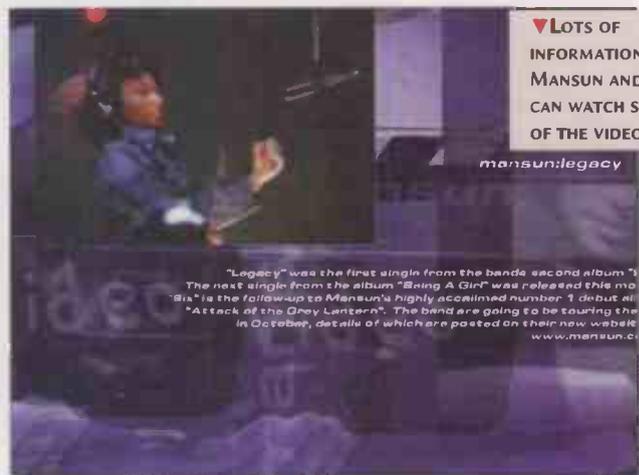
An insight into the way-out world of the Beastie Boys sees the band doing the other thing that they love — playing basketball. This feature coincides with the release of the band's Hello Nasty album and precedes the release of their second single from that album, Body Movin'. The Beastie Boys will be touring Europe in the new year and you can find out more from the band's web site at www.grandroyal.com

Snake Eyes

A trailer for the forthcoming Brian de Palma film Snake Eyes, featuring Nicholas Cage and Gary Sinise.

In this suspense thriller, tarnished police detective Rick Santoro (played by Nicholas Cage) is drawn into an intricate conspiracy plot to assassinate the US Secretary of Defense at a heavyweight boxing match. Cage joins forces with old friend and Department of Defense staffer Gary Sinise to untangle the events preceding the assassination, find the mysterious woman who spoke to the Secretary before the assassination, and pin-point the suspects in a crowd of 14,000 fight fans. The Snake Eyes trailer plays full-screen ICV Video which enables an ordinary personal computer to play full-screen and fluid video with no installed software or MPEG cards. Not only this, but you no longer need to worry about having the right video software or having to install material onto your hard drive. ICV Video needs no installation and plays directly from the CD-ROM drive, leaving no residue whatsoever on the computer.

▼ LOTS OF INFORMATION ON MANSUN AND YOU CAN WATCH SOME OF THE VIDEO, TOO



▲ THE BEASTIE BOYS PLAY BASKETBALL, THEIR FAVOURITE GAME



► THE SNAKE EYES TRAILER PLAYS FULL-SCREEN ICV VIDEO ON YOUR PC



▲ LEAD SINGER OF GARBAGE, SHIRLEY MANSON

CSI COMPUSERVE.

CompuServe trial

The UK's leading Online Internet Service offers fast and easy access to the internet and a one-month trial which includes free: 650 hours of online time, personalised email address and web space. The offer is valid for the first month only and the free online time must be used within the first month. All prices are set in US Dollars but will be charged in your local currency, based on the prevailing exchange rate.

PCW DETAILS

Platform

Windows 95 and 3.1

Limitations

One month free, billed if use of service is continued

Sales contact

(Account enquiries.)
0845 3551000

ClaraNET

ClaraNET trial

ClaraNET offers full internet access, email, the worldwide web and newsgroups in packages, including free 24-hour technical support. There is no connection nor start-up fee and 25Mb of free web space is included free with your account.

The ClaraNET trial is free for a month — you will be billed at the end of your trial month if you wish to continue using the service. Please read the "terms and conditions" online for full information.

PCW DETAILS

Platform

Windows 95 and 3.1

Limitations

One month's free membership, 650 free online hours, to be used in first month.

Sales contact
0190 134819

JOBWORLD

Jobworld.co.uk is a free service which provides you with access to thousands of new IT, business and finance vacancies every day. All you have to do is browse the site by job sector or search on a specific set of job skills or requirements. The Jobworld Email Alert service offers extra freedom by sending only details that match the job seeker's preferences,

allowing the recipient to control exactly what information is sent and when. Jobworld also offers links to job sites overseas, a guide to IT contracting and comprehensive lists of jobs from the top recruitment agencies in the UK. Jobworld.co.uk — be the first to know!

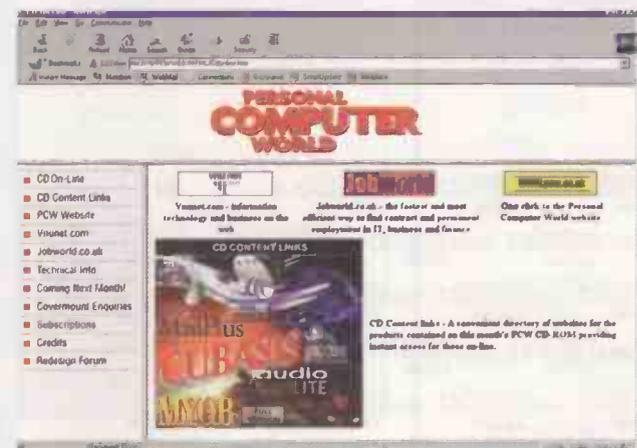


PCW CD OnLine

Access the internet direct from the opening screen!

By clicking on the web link banner at the top of the main screen, you can run your browser and access the PCW CD OnLine direct from the the disc. CD OnLine gives you up-to-date access to sites and information relating to the content of this month's disc. And you have access to the

Personal Computer World web sites, Vnuset.com and Jobworld.co.uk, plus up-to-date Technical Info about the CD and a preview of what's on next month's disc! And if you have enjoyed the magazine and the CD, subscribe via email while you're online!



VNUNET

Vnuset.com offers speed of delivery, accuracy and a breadth of coverage from five market-leading weeklies: *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 vnuset.com.

More detailed information is available in a wealth of in-depth articles, news analyses and product reviews from our stable of monthly publications, including such titles as *Personal Computer World* and *Management Consultancy*, plus some of the best editorial material from our portfolio of 15 business and consumer titles.



REVEALED!

THE SECRET OF THE RICH AND FAMOUS

Lotus SmartSuite Millennium Edition

1•2•3

spreadsheet

WORDPRO

word processor

ORGANIZER

time and contact manager

APPROACH

database

FREELANCE GRAPHICS

presentation graphics

SCREENCAM

multimedia tool

NEW! FASTSITE

intranet document publisher

COMPATIBLE

advanced file transfer technology

CSI COMPUSERVE.
Free Internet access for one month^{††}

WORK THE WEB

So that's what's on the desktops of hundreds of the UK's most successful businesses. But what exactly leads companies such as British Aerospace or United Biscuits to prefer the award-winning Lotus SmartSuite?

We'll take a look at the new Millennium Edition. Exploiting the rapidly evolving Internet and intranet technologies, it delivers radically improved performance.

It's innovative too. Start pulling web data straight into your spreadsheet. Discover fast and simple web publishing with Lotus FastSite, just one of over 100 new features. Then add the fact that a recent study showed Lotus SmartSuite 97 to have a considerable cost advantage over Microsoft Office 97*.

Understand now why people want to keep it to themselves? To order call

0800 123 222

or visit www.lotus.com/ukss



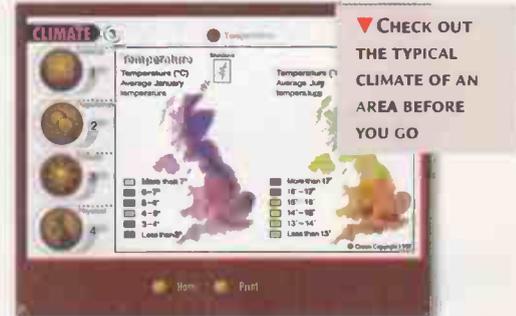
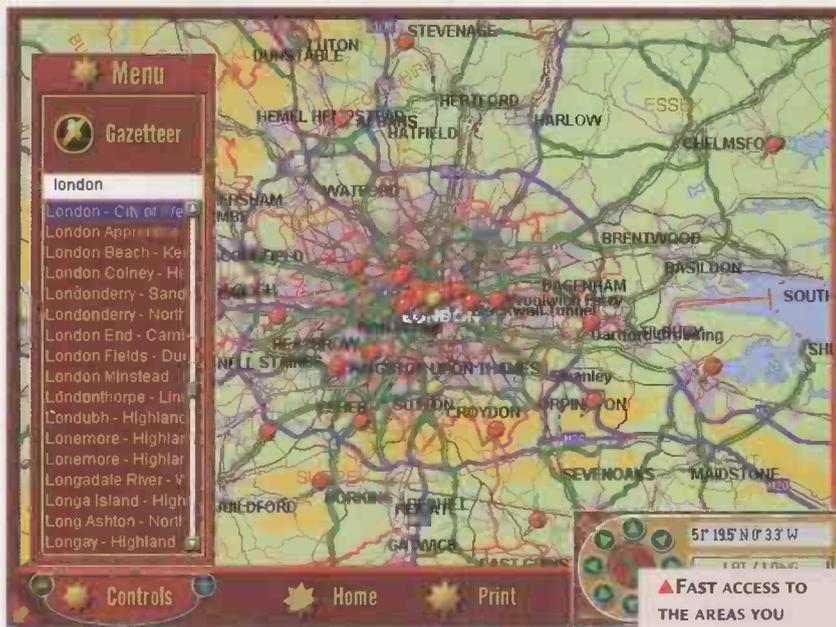
Upgrading to Lotus SmartSuite Millennium Edition costs just £162[†]

Lotus.

An IBM Company

The OS Atlas 2

Find your way around Great Britain



Whether you simply want to find your way around London, or to find details about economic and social statistics in the European Union, then look no further than this month's cover disc and the interactive Ordnance Survey Atlas of Great Britain (OS Atlas 2). This second edition OS Atlas from Attica, gives you easy-to-use, high quality-reference and map information with the added facility of multimedia so it can be used for fun or serious study. There are five main areas in its content: Ordnance survey maps, Map Skills, Quiz, GB Data and EU Data.

The OS Atlas 2 offers faster access than before to a huge range of mapping detail with full coverage of Great Britain at 1:250,000 scale, plus extracts at 1:50,000, 1:25,000 and 1:10,000. The Atlas provides a comprehensive gazetteer of 45,000 locations with fast access to mapping of a precise area of interest. And there is the added bonus of a zoom capability to enlarge all maps and a full-screen print facility for maps and plans. The map display can be easily customised by switching certain features on or off. For example, you could tailor a map to only show you the railways and water features of a particular location.

The new additions to OS

Atlas 2 includes 45 city centre and town plans, a locator map for fast and easy navigation, and distance measuring, in addition to over 300 Media Pin hotspots. These hotspots give you access to pictures, text, video or landscape models illustrating sites of cultural, architectural or historical interest in any given area. And yes, that does include snapshots of the racing at Silverstone and the "Corkscrew" ride at Alton Towers! **Statistical information maps** of Great Britain are included, together with European Union facts and figures so, at the touch of a button, you could discover the employment rate in Finland or military expenditure in Italy. There is also a map skills section, which provides guidance and activities on using and interpreting map legends and symbols, and understanding latitude and longitude. You can also test your geographical knowledge of Great Britain with the Around Britain Quiz.

The system you will need to run the OS Atlas 2 CD is a 486DX 66MHz

processor, 8Mb RAM, Windows 3.1, 16Mb RAM Windows 95, 8Mb hard disk space (minimum 4Mb), SVGA display of 256 colours, a double-speed CD-ROM drive, Microsoft mouse or compatible, a 16-bit sound card, headphones or speakers. Additionally, you will need to be running MS-DOS 5.0 or later, Microsoft Windows 3.1 or later, or Windows 95. You will also need Microsoft CD-ROM Extensions 2.2 or later. Full installation instructions are provided.

PCW DETAILS

Platform
Windows 95 and 3.1
Limitations
Full version
Sales contact
Attica 01865 791346
Technical Support
0345 413166

CD-ROM

HELPLINE

01274 736990

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® Pentium® 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 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

WOULD YOU BUY FROM THE SAME VENDOR AGAIN?

DAN WAS VOTED No 1 IN THIS CATEGORY BY READERS OF PC PRO IN THE 1997 ANNUAL SURVEY

"Just about every single one of Dan's customers is happy with the service they received."

PC Pro Quality and Service Awards October 1997



dantum 2 WS

Dual Pentium®II Processor option

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

with single processor	333MHz	400MHz	450MHz
8.0GB UDMA EIDE	£ 1654	£ 1868	£ 2030
4.1GB WIDE SCSI	£ 1776	£ 1990	£ 2152
9.0GB WIDE SCSI	£ 1945	£ 2159	£ 2321

with dual processor **PLEASE CALL FOR DUAL PROCESSOR SYSTEM PRICES**

Above prices exclude VAT@17.5%.

dantum 2 Duo Server

Dual Pentium®II Processor option

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

with single processor	333MHz	400MHz	450MHz
4.1GB WIDE SCSI	£ 1963	£ 2177	£ 2339
9.0GB WIDE SCSI	£ 2132	£ 2346	£ 2508

with dual processor **PLEASE CALL FOR DUAL PROCESSOR SYSTEM PRICES**

Above prices exclude VAT@17.5%.

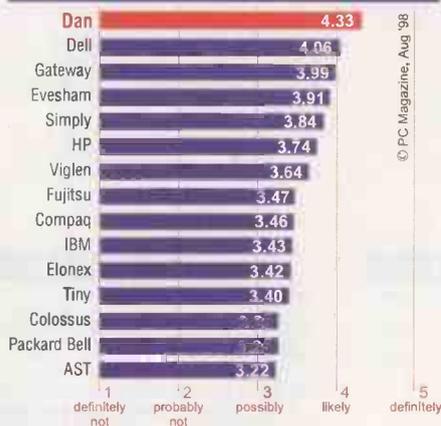
go direct to dan

vendor? One which gives the happiest customers?

you get both.



LIKELIHOOD OF REPURCHASING FROM THE SAME VENDOR



The performance difference between two makes of PC is often measured in fractions of a second. These polls clearly show that service, support and overall reliability are now just as important to users as speed, if not more so.

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



All Dan PCs are year 2000 compliant

PC Magazine's brand loyalty league table. PC Pro's 1997 PC Awards (October issue) indicated the same customer confidence.

1997/98 Annual Awards

from Computer Magazine Reader Surveys and Editorial Teams

Service & Reliability Award
PC Magazine, 1993-8 Surveys

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

Best Service Award
PC Pro, 1997 Survey

Best On-Site Maintenance
PCW 1997 Survey

Best Customer Service Award
PC Plus 1997 Survey

Best Network Servers Award
PC Direct Hits 1994-8 Surveys

Best Budget PC
What PC? 1997 Annual Awards

Best Professional PC
What PC? 1997 Annual Awards

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

dan Ultimate 2

with Pentium®II Processor

- Intel® Pentium®II Processor with 512KB Cache Memory
- 64MB PC100 SDRAM (1x64MB)
- Fast 6.4GB Hard Disk Drive
- Iomega 100MB Zip Drive + cartridge
- ATI 8MB Xpert'98 AGP Video Card
- 17" Iiyama L/R N/I Monitor (A701GT) (Viewable size 16.2" - 405mm)
- 32MAX Speed EIDE CD-ROM
- SoundBlaster AWE 64 OEM
- Hi Fi Power Speakers (150W PMPO)
- 56KBPS VoiceFax/Modem (UK only)
- MS IntelliMouse™, Windows UK Keyboard
- Midi Tower Case with PSU
- 1 Year On-site Maintenance
- Software: Windows 98 or 95 (specify) MS Works 95, Serif Page Plus, Intuit Quicken 6se & Encarta'98 US

333MHz	£ 1334	£ 1568	Incl. VAT
400MHz	£ 1540	£ 1810	Incl. VAT
450MHz	£ 1695	£ 1992	Incl. VAT

dantum 2 /MS

with Pentium®II Processor

- Intel® Pentium®II Processor with 512KB Cache Memory
- 32MB PC100 SDRAM (1x32MB)
- Fast 3.2GB UDMA Hard Disk Drive
- ATI 4MB 3D Charger AGP Video Card
- 14" Super VGA L/R N/I Monitor (Viewable size 13.32" - 333mm)
- 32MAX Speed EIDE CD-ROM
- Sound Blaster 16 Soundcard
- Hi Fi Power Speakers (150W PMPO)
- 56KBPS VoiceFax/Modem (UK only)
- Microsoft IntelliMouse™
- Windows UK Keyboard
- Desktop Case with PSU
- Software: Windows 98 or 95 (specify) MS Works 95, Serif Page Plus, Intuit Quicken 6se & Encarta'98 US

333MHz	£ 864	£ 1016	Incl. VAT
350MHz	£ 917	£ 1078	Incl. VAT
400MHz	£ 1070	£ 1258	Incl. VAT

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

WE ARE CONSTANTLY REVISING OUR PRICES AND SYSTEMS.

CALL NOW FOR LATEST OFFERS.

All systems have Lifetime Guarantee (first year full back-to-base parts and labour, then lifetime free labour – excludes certain monitors 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 & 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.

PHONE OR WRITE NOW FOR YOUR FREE INFORMATION PACK

Name: _____ Company: _____ PCW

Address: _____

Postcode: _____

Tel No.(Day): _____ Tel No.(Eve): _____

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Internet: www.dan.co.uk e-mail: sales@dan.co.uk



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

dan

technology

**Business
PCs, Workstations
and File Servers**

networking

All prices exclude delivery
& VAT @ 17.5%. E. & O.E.

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

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

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

dantum

AMD®/IBM® Processor Based System

- 32MB RAM
- Choice of Hard Disk Drive
- Choice of AMD **K6 Processor** or IBM **686 Processor**
- 512KB Pipeline Burst Cache Memory
- ATI 2MB 3D Charger Video Card
- 14" Super VGA L/R N/I Monitor (Viewable size 13.32"-333mm)
- 32MAX Speed EIDE CD-ROM
- Fast EIDE PCI HDD Controller
- 1.44MB Floppy Disk Drive
- Desktop Case with PSU
- 1 Parallel & 2 Fast Serial Ports
- Windows UK Keyboard
- Windows 98 or 95 (please specify)
- Microsoft IntelliMouse™
- MS Works Suite

Call for
AMD K6-2
CPUs

AMD or IBM Processor	K6-266	K6-300	IBM-300
3.2GB	£ 590	£ 606	£ 595
4.0GB	£ 601	£ 617	£ 606
5.0GB	£ 613	£ 629	£ 618
6.4GB	£ 626	£ 642	£ 631
4.1GB SCSI	£ 932	£ 948	£ 937
9.0GB SCSI	£ 1101	£ 1117	£ 1106

8.0GB HDD upgrade from 6.4GB £ 28
4MB 3D Charger PCI video card upgrade £ 6

dantum 2

Pentium® II Processor Based System

- 32MB PC100 SDRAM (1x32MB)
- Choice of Hard Disk Drive
- 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
- Fast EIDE PCI HDD Controller
- 1.44MB Floppy Disk Drive
- Desktop Case with PSU
- 1 Parallel, 2 Fast Serial & 2 USB Ports
- Windows UK Keyboard
- Microsoft IntelliMouse™
- Windows 98 or 95 (please specify)
- MS Works Suite

Pentium®II Processor	333MHz	350MHz	400MHz
3.2GB	£ 756	£ 812	£ 970
4.0GB	£ 767	£ 823	£ 981
5.0GB	£ 779	£ 835	£ 993
6.4GB	£ 792	£ 848	£ 1006
4.1GB SCSI	£ 1098	£ 1154	£ 1312
9.0GB SCSI	£ 1267	£ 1323	£ 1481

8MB Matrox Productiva AGP video card upgrade from 4MB 3D Charger AGP £ 23

dantum 2 WS

Dual Pentium® II Processor Option

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

Single Processor	333MHz	400MHz	450MHz
8.0GB UDMA EIDE	£1654	£1868	£2030
4.1GB WIDE SCSI	£1776	£1990	£2152
9.0GB WIDE SCSI	£1945	£2159	£2321

As above with 2 CPUs installed as standard

Dual Processor	333MHz	400MHz	450MHz
8.0GB UDMA EIDE	£1856	£2284	£2608
4.1GB WIDE SCSI	£1978	£2406	£2730
9.0GB WIDE SCSI	£2147	£2575	£2899

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

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/266MHz/W
dantum/266MHz: £ 590
16-bit Ethernet card £ 17
Workstation price £ 607

Best Seller Station
dantum 2/333MHz/W
dantum 2/333MHz: £ 756
Intel Express Pro card £ 45
Workstation price £ 801

Power User Station
dantum 2 WS/W
dantum 2 WS/333MHz: £ 1654
Intel Express Pro card £ 45
Workstation price £ 1699



6 Years Winner

Annual P.C 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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ISO 9002:EN 29002 (BS 5750 Pt 2)

solutions



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- Database design
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Pentium® II Processor Based System

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

Pentium®II Processor	333MHz	350MHz	400MHz
4.0GB	£ 874	£ 930	£1088
6.4GB	£ 899	£ 955	£1113
4.1GB <small>WIDE SCSI</small>	£1194	£1250	£1408
9.0GB <small>WIDE SCSI</small>	£1363	£1419	£1577

18GB Wide SCSI HDD from 9GB Wide £ 471

dantum 2 Duo Server

DUAL Pentium® II Processor Option

- 128MB PC100 SDRAM (1x128MB)
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- Choice of single or dual Intel® Pentium®II Processor with 512KB Cache Memory
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- 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	333MHz	400MHz	450MHz
4.1GB <small>WIDE SCSI</small>	£1963	£2177	£2339
9.0GB <small>WIDE SCSI</small>	£2132	£2346	£2508
As above with 2 CPUs installed as standard			
Dual Processor	333MHz	400MHz	450MHz
4.1GB <small>WIDE SCSI</small>	£2165	£2593	£2917
9.0GB <small>WIDE SCSI</small>	£2334	£2762	£3086

18GB Wide SCSI HDD from 9GB Wide £ 471

dantum 2 RAID Server

DUAL Pentium® II Processor Option

- 128MB PC100 SDRAM (1x128MB)
- 18GB SCSI HDD (3x9GB HDDs in RAID 5 config. with HotSwap capability + spare/redundant 9GB HDD worth £440)
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- ATI 2MB 3D Charger Video Card
- 14" Super VGA L/R N/I Monitor (Viewable size 13.32"-333mm)
- 32MAX Speed SCSI CD-ROM
- Adaptec RAID PCI controller
- Intel Express Pro UTP Network Card
- Dual Port SCSI Controller (Ultra & Wide)
- 1.44MB Floppy Disk Drive
- File Server Case with PSU
- 1 Parallel, 2 Fast Serial & 2 USB Ports
- Windows UK Keyboard
- Microsoft IntelliMouse™
- Windows NT Server (5 user licence)

Single Processor	333MHz	400MHz	450MHz
9.0GB <small>WIDE SCSI</small>	£4248	£4462	£4624
As above with 2 CPUs installed as standard			
Dual Processor	333MHz	400MHz	450MHz
9.0GB <small>WIDE SCSI</small>	£4450	£4878	£5202

Call for information on LVD SCSI Drives

For Novell Netware File Servers: you must upgrade the EIDE CD-ROM to SCSI add £ 30 (plus £110 for Adaptec AHA 2920 SCSI controller if needed)

Network upgrades for dantum systems

Miscellaneous

15" Colour Monitor from 14" SVGA £ 31

Network Hubs

8 Port 10 base-T Mini Ethernet Hub £ 31
 16 Port 10 base-T Mini Ethernet Hub £ 106
 Intel stackable 10/100 base 12 Port Hub £ 852
 Intel stackable 10/100 base 24 Port Hub £1326

Network Cards

16-Bit Network Card Ethernet £ 17
 (NE2000 comp. -Thin Ethernet/Twisted Pair)
 16-Bit Network Card Ethernet (3COM509) £ 57
 32-bit PCI Ethernet Card (3COM900) £ 59
 32-bit PCI 100Mbps base-T Ethernet Card (3COM905) £ 49
 32-bit PCI Intel Express Pro 100UTP Card £ 45
 Intel Express Pro 100UTP Server Card £ 356

Uninterruptible Power Supplies - UPS

1000VA UPS Interactive (APC) £ 388
 700VA UPS Interactive (APC) £ 238

Tape Streamers for Servers

(Controller & Backup Software not included)
 2GB (4GB comp) DAT Streamer +90m tape £ 357
 4GB (8GB comp) DAT Streamer +120m tape £ 533
 12GB (24GB comp) DAT Streamer +125m tape £ 760

5 Years Winner & Runner-up

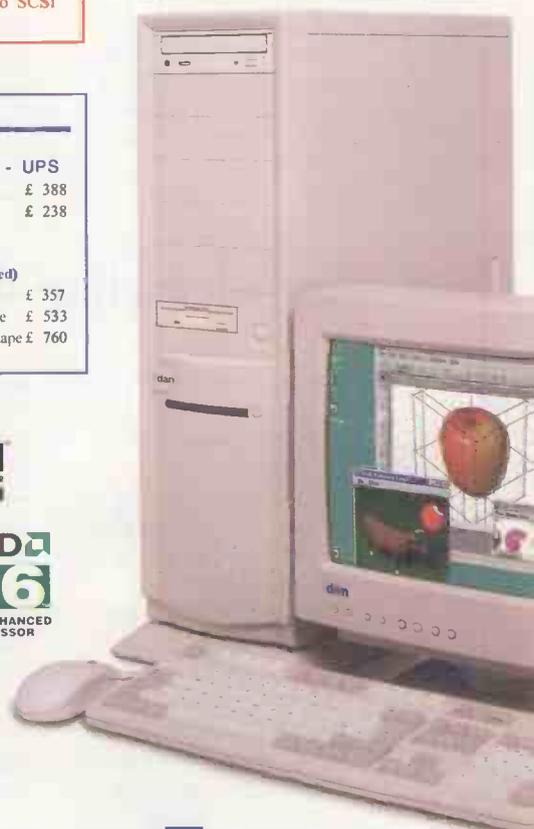
Network Server Category, Readers Survey – Direct Hits 1994, '95, '96, '97 & '98

"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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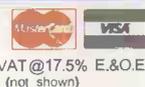
Opening Hours – London/Leeds Showroom: Mon-Fri 9.30am-6pm

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Internet: www.dan.co.uk e-mail: sales@dan.co.uk

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



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 (not shown)

dan technology

Inside stories

▶ **NETWARE WINDOW?**
NT 5.0's release has been delayed by at least a year. Some see this as a chance for Netware 5.0, due to be shipped 20th September, to revive the fortunes of Novell. *See page 42*

▶ **NEW WAVE INPUT**
Wave power takes a new meaning with a device from Toshiba that reads gestures. *Input systems special on page 29*

▶ **SET-TOP BOXING**
Digibore TV endeavours to persuade couch-potatoes to use STBs like shopping trolleys. The real innovation could come from PC users. *Page 41*

▶ **XML BRIEFING**
Clive Akass reports on a next-generation web language which lets machines hold meaningful conversations. *Page 40*

▶ **1GB DRAM MODULE**
Samsung has made a DRAM module that holds 1Gb, as the market for low-capacity chips continues to slump. *Page 36*

NEW COMMS

Slow lane to future on BT Highway

British Telecom has launched its Highway hybrid ISDN and analogue service, putting what must be the final squeeze on audio modems.

BT Highway splits a standard line into two channels which can be used in either digital or analogue mode, in any combination. It also gives you two extra numbers: digital and analogue. It is not the hoped-for cheap digital service and looks only marginally less dated than audio modems. But it does offer a convenient upgrade path at much the same cost as a second standard line. Many modem users find they need a second line to receive calls while they are online.

BT says terminal-adaptor makers have cards ready from as little as £50 and, unlike some older models, these will

not overload your serial port (*see Point of View, p28*).

Converting from an existing standard line costs (inc VAT) £175.08, with a quarterly rental of £81; or you can pay an initial £116 plus £120 a quarter, with the first £45-worth of calls free. Startup charges for a new connection will be £292.58 or £233.83, depending on the same options. Business prices are slightly different and, remember, all must be compared with the cost of two standard lines.

BT Highway replaces your standard phone jack with a book-sized white box (*see picture*) bearing four sockets: two ISDN and two analogue. As with straight ISDN, two lines can be aggregated to give a line speed of 128Kbps, though this incurs a double-time charge. Even a single line at 64Kbps is faster than a



56K modem, which delivers 40-50Kbps. An advantage is that you can still use your old equipment and Select Services, like caller diversion and caller display. But ISDN looks old hat, with ADSL and cable modems coming soon.

BT marketer Vishal Khakhar does not see cable presenting competition. "ISDN guarantees you bandwidth. The speed of a cable modem depends on how many people are online." He said xDSL, when it comes, will be sold as an extension to the Highway service. It offers from 1Mbit/sec downstream.

CLIVE AKASS

Highway hotline 0800 800845
www.highway.bt.com

PROCESSORS

Vendors like 450 chips

PC vendors have flocked to support Intel's **450MHz Pentium II** processor. Several manufacturers unveiled products shortly after the chip's release, including Dell, Acer and IBM. Gateway also announced plans to use the chip.

Intel says that the 450MHz will give approximately a ten percent better performance than the 400MHz processor for a similar price. An Intel spokesperson stated that users could expect better speech recognition and

better DVD with the 450MHz. He said, "The Celeron is a good basic processor. But if you really want to push out the boat and have something that will last for a few years, you'll want to go for the 450MHz."

Intel also said that it was working with games and children's software developers to help them "harness all the power and performance" of its latest processor.

SUSAN PEDERSON

Read our 450MHz PC group test on page 160

DESKTOP

iMac perks up Apple

The iMac is flying out of UK shops, despite reports of complaints from US customers. Apple's online support site has been flooded with messages from users having problems with Epson printers, the USB and machine upgrades. Apple has now released a software upgrade which, it says, solves most of the problems.

Apple refused to comment on the user complaints and said it had no solid sales

figures yet. But Mac resellers in the UK have reported brisk sales and hundreds of enquiries and that there had been "many, many orders". Another dealer said that it was nearly out of stock. Inteco

analyst Pete Day was surprised by the response, as he had thought that Apple had priced the iMac out of the market. "They've obviously hit on a product formula, though," he said.

SUSAN PEDERSON



Companies put 'spy' in laptops

Companies can monitor their laptops for games and mucky pictures using a new service set up by offline-storage specialist, Netstore.

Laptops have replaced desktops at many firms, either to help people work at home or because staff spend a lot of time travelling. This scattered equipment is a nightmare for IT staff who have to update and audit data and software — a tricky task, even on fixed networks.

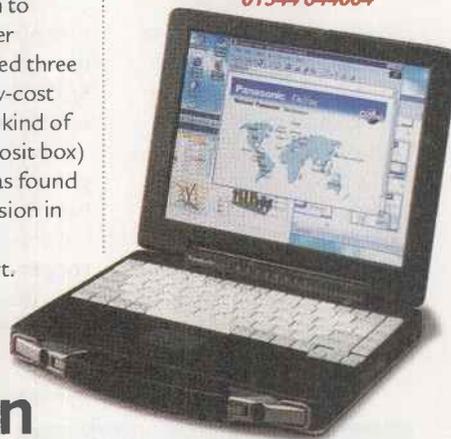
Netstore takes over the task by installing updates, such as the latest anti-virus patches, when users log in to collect email or synchronise data. It will also optionally download the "spy" module

to monitor what is on the laptop. Chief technology officer Jeff Maynard says it can be used only with the user's permission. "The reason we do it is to ensure there is no unlicensed software on the machines which can cost the company a lot of money if discovered," he said.

Netstore has just had a £3m capital injection to develop this and other schemes. It was started three years ago to offer low-cost encrypted storage (a kind of electronic safety-deposit box) over the net. But it has found that there is an explosion in demand for laptop management support.

Ian Catlin, advanced technology guru at Cisco, which uses Netstore, said he had no intention of prying into how staff use their laptops. "We couldn't, even if we wanted to. There is nothing to stop them renaming files as something innocuous like sales.txt."

**Netstore www.netstore.co.uk;
 01344 644004**



1 in 3 notebooks break or are stolen

Companies reckon about one in three of their laptops will be stolen or broken during their working life. Cisco's Ian Catlin (see above) says the figure for his company is at least 30 percent — and that's in just 14 months, after which new machines are bought in.

One reason for the high breakage level is that laptops

have a much rougher life than desktops. But manufacturers, too, are to blame, according to a Gartner Group report last year which criticised them for not paying enough attention to robustness.

They seem to be getting the message. Panasonic claims to have concentrated on low-cost ruggedness with its new ToughBook 45, which boasts

anti-shock features and an alloy-protected screen.

Prices (exVAT) start at £1,499 for a 233MHz MMX model, including a three-year warranty, a 4Gb disk, and 32Mb of RAM. Prices (exVAT) of a 266MHz Tough Book 71 range (pictured, above) start at £2,299.

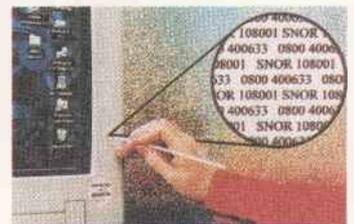
Panasonic 0500 404041

short stories



► **STAR BUY**
 Computers beat printed star maps hands down as a way to make sense of the night sky. But you don't want to lug your laptop around when you space out and gaze at the Great Out-There. Slip your CE palmtop into your pocket, however, and you can take advantage of Sticky Software's £20 Pocket Universe.

It can be bought online from www.mobilesoft.com



► **STAR BUY**
 Here's a dotty way to protect your PC. SelectDot stamps it with an identity number the size of a pinhead and registers it with a national database, so that if your machine gets stolen, its ownership can be traced.

Selectamark 01689 860757
www.selectamark.co



Dinobot

Shops are already preparing for Christmas — and Barney, a purple interactive dinosaur, looks as if he could be a winning present. He can be a standalone playmate or, plugged

into a PC, an interactive teaching aid in conjunction with any of five CDs. Tiny Computers is selling Barney with a PC as part of an early-learner package. Prices start from £899 (ex VAT). www.tiny.com

Dun roaming net

Debt collecting services have come to the net. Just fill in the details of a commercial debt at the Euler Trade Indemnity site. Collection is "processed swiftly by our professional team," said managing director,

Tony Bushell. Commissions start at eight percent for the first £5,000, reducing to two percent for sums over £10,000. ETI fees for international dunning are higher. **ETI 0171 512 9333; www.tradeindemnity.com/yourdebt.htm**



'That'll teach you to withhold his pocket money for spending too long on the net'

short stories

MMX UPGRADES

Sunbelt is offering Nova Max MMX-class upgrades to Pentium machines clocking between 75MHz and 150MHz from £80 (ex VAT).
Sunbelt 0181 715 9913



NT UNDELETE

A version 1.1 of Network Undelete for NT has been released by Executive Software, which claims five times more data is lost to accidental deletions than to viruses.

www.execsoft.co.uk
01342 327477

EZ-SCSI 5.0

Adaptec has shipped version 5.0 of its £55 (ex VAT) EZ-SCSI utility for managing multiple SCSI devices under Windows 98. New features include automatic driver update.

Adaptec 01276 854500

STUDIED RESPONSE

MathSoft has updated its Studyworks Science and Maths CD-ROMs for GSE and A-Level students.

01276 452299
www.mathsoft.co.uk

NEW CHIPS

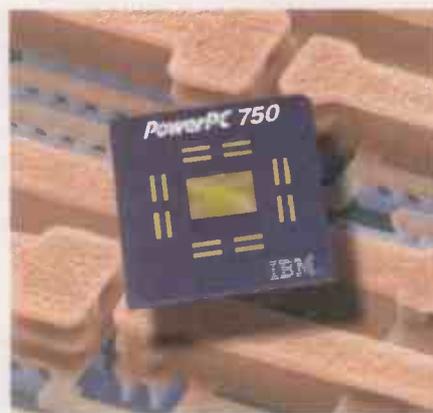
IBM ships first fast copper

IBM has shipped the first chips using its new copper connect technology. They include a PowerPC 750 used for embedded applications. The new chips use copper rather than high-resistance aluminium for electron paths, allowing the chip to run either faster or cooler.

The new 750 uses a design that ran at 300MHz on aluminium; copper allowed it to clock 400MHz. A similar 33 percent speed increase could be gained on x86 PC chips made by IBM for the likes of Cyrix and AMD. IBM makes some Cyrix chips for itself and brands them under its own name. The company says it will build copper chips to order for other companies. IBM Microelectronics' Rupert

Deighton said none had yet been received for PC chips. "If someone came to us with an x86 design we would build it." Most copper chips in the pipeline are for specialist uses, although IBM plans to use copper in its S/390 RS/600 and AS/400 server chips.

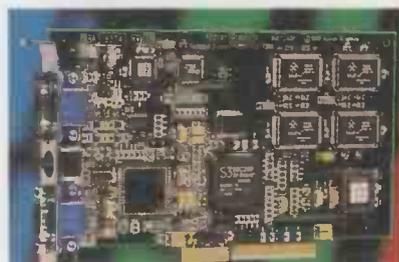
"You are not necessarily going to get the maximum benefit simply by taking an old design and doing it in copper, because it may have been designed taking the limitations of aluminium into account," Deighton said.



More improvements

will be seen next year when copper is used with IBM's new Silicon On Insulation technology. Intel rubbished both advances, but Deighton said: "The longer they stick with aluminium, the happier we'll be."

www.chips.ibm.com



Dual video card spots AGP in the market

Imagine says this is the first dual-channel graphics card to use Intel's new, fast AGP port. It lets you run twin screens at 800x600 in 16.7 million colours. A PCI version is available at the same price (ex VAT) at £320, or £370 with video-capture facilities.

Imagine 01727 844744

POINT OF VIEW

Entering cyberspace without a MAPI

A friend who runs the London office of an international news agency decided to get on the net. Seduced by those flash TV adverts, he asked BT: "Please give me an ISDN internet link." An engineer duly put in an ISDN line.

"That's as far as we go," he announced — leaving my friend, whose technical knowledge starts and ends at the on-off switch, with a mysterious socket and a box marked BT Ignition. I offered help. The box held a Motorola-built terminal adapter (TA) with a PC serial lead. A twin ISDN line passes 128Kbps; a standard serial port passes 115Kbits.

I checked with Bill Peachey, technical director at Hayes, who agreed that the TA could overload the port. Most people use only one 64Kbit ISDN line at a time, but with compression, data-rates even on a single line can top 115Kbps. Few net providers support that compression, according to Peachey, but people should surely be told that their TA is hobbled without a port upgrade. I was amazed to find only Windows 3.1 disks in the box to link to BT Internet. Rashly, I decided to install,

and regretted the decision when a prompt advised me to rate the line at 19.6Kbits. I aborted the install when, without warning, it overwrote Windows 95's MAPI. DLL — the very messaging module my friend would need to file his stories. I finally linked to BT Internet using software from an old PCW cover disc. It did not recognise the ISDN line, but I have to say BT's helpline quickly solved that problem. However, BT will have to get its act together if it wants to create a mass market for ISDN.

Clive Akass



gets a user's eye view of a BT ISDN kit

Input shorts

LETTER PADS

These foldable mouse mats can be used for promotions, and vendor, Data Design, says they make for happy mice.

www.data-design.co.uk

INTERACTIVE PLASMA

Mayflower is offering what it says is the first plasma touch-screen, which can be used with its Softboard software. This allows groups of people to collaborate on a live PC document.

Mayflower 0171 267 0100

INPUT SYSTEMS SPECIAL

Hand sensor waves in gesture control

A motion sensor developed by Toshiba could lead to a more human way of **communicating with machines**. In the short term, the system, which can recognise a hand against any background and follow its movements in real time, should help people with disabilities and may be included in games.

Already it has been used in a computerised version of the ancient game of Scissors, Paper, Stone, and it could



trigger sound in new forms of musical instruments.

In the longer term it will allow gestures to complement or stand in for other input systems such as speech, mouse, or keyboard language, in much the same way as we now use gestures in conjunction with speech.

Writing on pad for dual input

Pen-driven digitiser pads have yet to take off in the mass market, though they are much used in CAD and graphics studios. Perhaps one reason for this is that a mouse is easier to use for some purposes, so you keep having to swap devices.

Now, Calcomp is offering a **£99 digitiser** (see column, right) that comes with a five-button mouse and a two-button pen. Both are

cordless, programmable and need no power. If the mouse is sitting on the 5in x 4in



Creation Station pad, the pen is disabled. Pro versions come

with larger pads, a choice of pens, and a cross-wire mouse with 18 programmable buttons.

Rival Wacom has launched a new professional **Intuos range** of tablets, including A4 and A6 starting at £129 (ex VAT). Options include a digital airbrush (pictured, left) and an inking pen, stroke pen and lens-cursor mouse, all at £50 (ex VAT) each.

CalComp www.calcomp.com;
Wacom www.wacom.de

RIVAL 2 tablets



Creative Station from CalComp comes with mouse and pen for £99 (ex VAT). Larger professional models are available.

www.calcomp.com



Wacom Intuos A4

Part of a new professional range. Prices range up to £549 (ex VAT) for an A3 pad with pen and mouse.

Computers Unlimited (dealer)
0181 358 5858; www.wacom.de



Wacom Lens Cursor £50 (ex VAT). A similar item is available from CalComp.

(Contact as above)

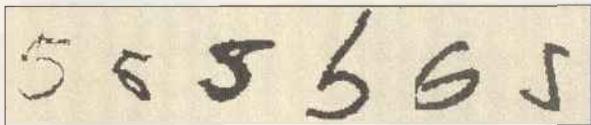
SPEECH INTERFACES

Eight European firms are working to establish a best practice for machine speech interfaces like the one in BT's voicemail system. Standards set by the EC-funded DISC program could be used in PCs and speech-operated appliances.

Good recognition is only half the battle, says Cambridge-based Vocalis, one of the DISC companies. Researcher Klaus

Fallenschmid says just as important is the dialogue structure and how it is used. Vocalis is also working on mixed-mode systems which take spoken choices from visual menus. Recognition in these systems is much helped by the fact that the context is known. The same goes for machine-reading of forms filled in by hand, a speciality of another Cambridge firm, Neuroscript.

Sorting out the meaning behind a bunch of fives



Writing is located using a colour-coded background which is subtracted to isolate the text. Probabilistic and neural methods can be used to recognise, say, the various 5s printed above. Phone numbers, names and addresses can be checked

with a database of valid forms, with enough precision to support a wide variety of applications: for instance, to read car numbers snapped by police.

Vocalis 01223 846177, www.vocalis.com. Neuroscript 01223 421270, www.neuroscript.com

THIS.

and it takes up LESS space.

Can do all this.

FASTER,

CHEAPER

Things of the past: answerphones, fax machines, separate hands-free phones and the space they all used to take up. Now you can get all this and more with the 3Com U.S. Robotics 56K Professional Message Modem. On top of this you get state-of-the-art modem performance – worldwide Internet access at an unbeatable

3Com U.S. Robotics

56Kbps*. It even stores voice mail and fax messages when it's switched off.



The 3Com U.S. Robotics 56K Professional Message Modem

The package includes free internet/online trials, so you can start surfing the web the instant the modem is installed.

Like all our 56K modems, it allows downloading at up to 56Kbps*, while still supporting 33,000bps and other modem speeds. And you need have no fear of the future – the flash memory allows for upgrading via software download.

For more information call us on Freephone 0800 22 52 52 or visit our website at:

www.3com.co.uk/pcw_1198

- For ease of use built to look and feel like a telephone answering machine**.
- Stores fax and voice messages even when PC is switched off.
- Remote retrieval of voice messages even when PC is switched off.
- Flash memory allows future upgrades.
- Operates at speeds up to 56Kbps at new V.90 standard (so you can spend less time on line) but also supports lower speeds.
- UK list price only £199 inc VAT.

* Due to varying line conditions, the download speed you experience may be lower.
** Can be used as a sophisticated stand-alone answerphone which can be operated remotely or in the office without booting up the PC.

*Capable of receiving at up to 56Kbps and sending at up to 33Kbps. Actual download speeds you experience may vary due to varying line conditions. Requires compatible phone line and modem configuration. Operates with both V.90, the recommended V.90 standard, and V.42bis technology protocols. Standard officially announced in February, 1998 and release expected in September, 1998. © 1998 3Com Corporation. All rights reserved. 3Com and the 3Com logo are registered trademarks of 3Com Corporation or its subsidiaries. All specifications subject to change without notice.



Christmas resurrection for the Commodore 64

For many, the Commodore 64 dredges up happy memories of a bygone age. Now, the cyber-ghost has been resurrected by Netherlands-based Web Computers International, which plans to have Commodore 64s piled high in Dixons stores this Christmas.

The "new" £299 (inc VAT) version is a PC called Web.it which can run C64 software using a software emulation. It uses an AMD 66-100MHz Elan 486 processor, with 16Mb RAM (which is expandable to 32Mb), plus a whopping 16Mb of ROM holding Windows 3.1. In addition, there's IBM's PC DOS 7, Netscape Navigator, Lotus AmiPro WP and

Lotus Organizer. A variety of C64 game favourites are bundled.

Like the original C64,



everything is inside a single keyboard, with an output to TV. There is also a VGA connector for optional monitor, a floppy drive, and a 56K modem. There is no hard disk, nor for that matter a C64-compatible cartridge port, but there is a connector for a PCMCIA card unit and an infra-red port for an optional wireless keyboard. You don't get a mouse, but there is a laptop-style touchpad instead.

Targetted customers will be first-time buyers with little money. Web Computers says this is the first in a family and that its target is to sell 250,000. This is ambitious indeed when you consider the now infamous Commodore curse. First, Commodore was thrown a

lifeline by Escom, which then went belly-up. Next, Gateway 2000 bought the Amiga technology and promptly suffered some bad quarters' financial results. And Web Computers has licensed the name from the present owner, Tulip, which recently almost went bust.

IAN BURLEY

Web Computers International
www.webcomputers.net

A MicroDrive moment

The disk-drive industry has for ten years been vying to create the **smallest rotating media drive** on the planet. Today's smallest is 2.5in, with the result that most storage for small devices is based on some type of flash RAM which is expensive and tops out at about 50Mb. Now IBM has introduced a MicroDrive, with a rotating disc about the size of a US quarter. It stores 170Mb or 340Mb, measures 1.5in x 2in, and has to be placed in an adapter to work in a PC Card slot.

The new drives comply with the Compact Flash Type II standard and so can be used in any PC Card slot. But you can imagine it being deployed directly into cellular phones and digital cameras. This is a real breakthrough, tripling the capacity of current flash RAM devices at about half the price. They will not be available until mid 1999, but are bound to make an impact on all types of digital devices.

I have been using an iMac for some time now and I can tell you that this is one sweet computer. It seemed large when I first saw it, but when I pulled mine out of its box, I was struck by the fact that it really is just about the size of a 17in monitor. I would not hesitate to recommend it to anyone seeking a first computer. The early rush is very encouraging for Apple. It pre-sold 150,000 units and I expect that the 400,000 it can produce by the end of September will be sold out. Apple officials think they can have as many as a million shipped to stores by the end of the year, and even that may not meet demand. At least 15 Silicon Valley stores opened at 12:01a.m. on launch day and had a mad rush of buyers. Apple is on a high and its morale is soaring. I'll be interested to see how long it lasts.

Tim Bajarin 
letter from Silicon Valley

GRAPHICS Quark attempts Adobe buyout

Adobe's slowing sales and sinking share price tempted its rival, Quark, into an attempted buyout for an unstated premium over the current share price.

Quark claimed that it would "divest" Adobe PageMaker, rival to its own XPress publishing package, to avoid US anti-trust problems. Adobe rejected the bid on the grounds that it was not in the interest of its customers.

Quark, which has a much smaller net income than Adobe, threatened a hostile bid, but as we went to press Wall Street appeared sceptical that the bid would succeed.

Adobe had come to the fore earlier in August when it said that it expected to announce, at best, break-even results or a small third-quarter loss. Co-founder Charles Geschke said Q3 Japanese sales were expected to drop 40 percent.

Alasdair Boyle, Adobe's managing director in the UK, said that sales had slumped partly because there had been a lull in upgrade revenues, although it will be shipping Illustrator 8.0 later this year.

Adobe also unveiled its high-end publishing system, K2, which is trumpeted as a rival to Quark XPress.

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ETELKA CLARK AND SUSAN PEDERSON REPORT FROM ECTS IN LONDON

Lego CDs click into place

LEGO gave a sneak preview of its range of CD-ROMs for children at ECTS, including three new creativity products that will appear this month.

Lego Creator, which has a suggested retail price of £39.99, gives kids the chance to play with virtual bricks and create complex models. The models can be brought to life and then combined to create entire Lego worlds, complete with sound effects.

Aspiring engineers will get a kick out of *Lego Loco*, an online train set that comes complete with little Lego commuters to ride the trains and explore the town. Priced at £29.99, the software allows your child to design an entire railway network and manage the signals. If they're on a network, they can send trains to other users.

Fans of Lego's Western and Pirates themes will enjoy *Lego Chess*, a real-time 3D strategy game that creates a story around the game. In the Western version, the Sheriff pursues a band of outlaws that have robbed the bank, while the pirate version involves a group of sailors in search of buried treasure



▲ LET'S HOPE THAT LEGO LOCO TRAINS RUN ON TIME

who must outwit pirates along the way. Humorous cartoons are played whenever a piece is taken, and a friendly tutorial is included to help absolute beginners. All the above products are released on 11th November. Lego also previewed some products that will start appearing in the second quarter of next year, including *Lego Land*, a theme-park design game, and *Lego Friends*, which will be part of the *Lego Software for Girls* series.

The REAL Neverending Story continues

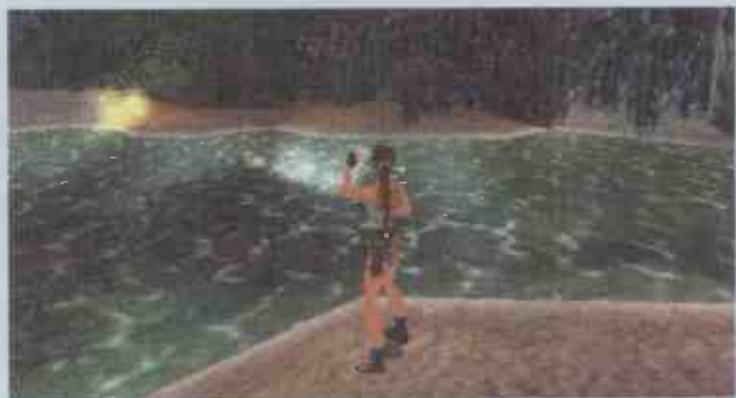
THE Munich developer Discreet Monsters is preparing to launch an authentic 3D real-time adventure called *The REAL Neverending Story*. Based on Michael Ende's novel *The Neverending Story*, this game features an intelligent combination of action, suspense and skills, in addition to brain-teasing puzzles and tricky combat situations, building up into a powerful story with captivating special effects.

Starring the dauntless hero Atreyu, the game follows his thrilling encounters with Falcor the luck-dragon, the Rock Biter, and the Childlike Empress in the Ivory Tower. *The REAL Neverending Story* will be out in early 1999.

Gangsters

Eidos is releasing a real-time strategy game called **Gangsters — Organised Crime**. Due out in October, this game is set in a Chicago-like town in the prohibition days of the twenties. *Gangsters* is a strategy game where crime definitely pays. From extortion and intimidation to street execution and all-out gang warfare, *Gangsters* creates a world where you are "da boss" with the power of life and death over those you control. Played in a virtual city populated by over 5,000 individual characters, this game looks like it is set to be one of the most talked-about games this Christmas.

Lara returns in Tomb Raider III



JUST when you thought all the Tomb Raider hype had finally died down, Eidos is reviving Lara, the world's most famous cyber-babe. The divine Ms Croft will soon be gracing our computer screens in **Tomb Raider III**.

In a game that surpasses even her own earlier adventures, Lara travels the globe, from the deserts of

Nevada to the islands of the South Pacific. The new game consists of five new levels which can be played in any order, and it has a faster game engine than before. Lara will have new costumes and vehicles, and greater agility.

Tomb Raider III will blast into the shops in November and will be priced at £39.99.

CAMCORDERS

Digi videos

Eight in ten camcorders sold are analogue but digital sales are beginning to rise, according to Sony. It hopes its new **DCR-PC1** will reinforce this trend. The PC1 is about the size of a Walkman and boasts an 810,000-pixel sensor, a 2.5in LCD monitor screen, and a 10X optical zoom. The InfoLithium battery lasts a claimed three hours with the LCD screen off. It has a fast i-Link Out, in addition to standard PC and TV outputs. Street price will be about £1,400 (inc VAT).

• **Hitachi will ship** a digital camcorder next year using DVD RAM rather than tape storage, sources say.



Sony 01932 816000

NEW SDRAM CATCHES THE BUS

Samsung has developed a memory module holding 1Gb of SDRAM, fast enough for Intel's new 100MHz system bus. The 168-pin DIMM holds 36 250Mbit SDRAM chips stacked in layers and will be used in servers, high-end workstations and video systems. The first should appear early next year.

The 1Gb modules are the second claimed breakthrough by Samsung within a few weeks. Earlier it announced the development of the 64Mbit Rambus memory modules and was ready to begin mass-production. Samples have been shipped to major manufacturers who expect Rambus chips to supersede SDRAM in the next couple of years. Samsung forecasts that its Rambus

chips will take half of the world DRAM market: it plans to make up to one million a month by the middle of 1999. World sales are expected to rise from \$20.7bn last year to \$58bn in 2001, according to analyst, Dataquest. But market researcher Semico forecasts a continuing decline. And Hitachi and Mitsubishi are shutting down fabs in the US because of a DRAM sales slump.

Significantly, Semico says there is a demand for higher-density DIMMs. It forecasts a shakeout of manufacturers, partly due to the difficulty of making fast memory.

ADDITIONAL REPORTING, MIKE MAGEE

Samsung 0181 391 0168,
samsungelectronics.com

Web searching, the natural way

Web searching is time-consuming and tedious despite the advent of intelligent search engines, so it was interesting to hear Microsoft's Steve Richardson talk in Cambridge about how it can be improved by natural language processing (NLP). Microsoft reckons NLP achieved a three times better hit rate than conventional searches in tests with well-known web search engines.

A team from Microsoft Research, Cambridge, will shortly be taking part in an international competition of text retrieval systems at Washington. "How to increase precision is a hot topic for us," says Richardson, one of some 60 NLP workers based at Redmond, Washington.

Microsoft wants to build an understanding system for unstructured natural-language text in multiple languages. Among its resources is MindNet, a knowledgebase drawn from two dictionaries: the Longman Dictionary of Contemporary English and the American Heritage Dictionary. MindNet analyses the relationships between words and their similarities. "We realised that in MindNet we

had...an architecture for processing any text," says Richardson. "If you had the power to take any text and turn it into a structure, an intelligent index for a document database, you had a dynamic repository for a conversational interface."

Workers at Microsoft Research, Cambridge, are also working on the design of electronic books (e-books), which has a long way to go, according to director, Professor Roger Needham. "There are various aspects...What sort of physical display do you hold? How do you protect intellectual property?" The e-book interface is his team's particular concern. "When display technology gets to the point that [you have a device] you can actually put in your breast pocket, we would hope to know how to use it."

Publishers will prefer a special-purpose device with built-in copyright protection but Needham hopes a way can be found around their fears. He asks: "Could you get to a situation when you can buy content and read it

on a laptop without the owner of the

content feeling it may get distributed further, illegally? This is a mountain with a lot of bones on it."

• **Cambridge company, Tadpole**, doubled its turnover overnight with the takeover of its US competitor RDI for £3.7m, making it the only manufacturer of mobile Unix workstations and servers, worldwide. RDI gives Tadpole a product line which is well accepted in government circles. Tadpole has also just launched its Voyagerli UltraSPARC-based mobile servers (pictured above), with a 20Gb disk and support for up to 1Gb RAM. And its Java-based Cartesia software for screening geographical (GIS) information has recently been released.



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www.research.microsoft.com;
www.tadpole.com; www.geofox.com

Caroline Swift



continues her reports from Silicon Fen

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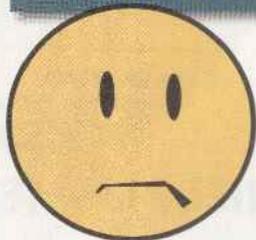
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short stories



MORE NET, LESS SMILES

People who use the internet are more likely to experience loneliness and depression, according to a study by Carnegie Mellon University. The study found that people's unhappiness increased in proportion to their internet usage, even if they used email and chat rooms.

NEWSQUEST MOVES ONLINE

A regional newspaper group is hoping to make it easier to join a "digital community" by providing internet access for its readers. Newsquest plans to offer unlimited internet access for approximately £75 per year, starting in October. The group is already known for other electronic publishing ventures, such as its This is... local guides.

For more information, call 0171 420 2700 or see www.newsquest.co.uk

WINDRUSH WEB SITE



The BBC is celebrating 50 years of black British culture with an online guide to its Windrush

documentary series about West Indian emigrants to the UK during the forties and fifties. The web site has a large section on black British writing, including reviews, author biographies and a literary timeline. You can also send electronic postcards of Windrush immigrants or submit your own family photos.

www.bbc.co.uk/education/windrush

PORTALS

Gateways up for grabs

The internet portal market has started to heat up after many major companies scrambled to establish themselves as gateways to the web last month. Yahoo!, Excite and Amazon all sent a direct challenge to traditional internet service providers by announcing a range of new services designed to keep users on their site for longer. An internet portal is a site that combines a number of services, such as a search engine, chat room, shopping section and personalised settings.

Yahoo! launched its Clubs service, which features personalisation tools, email, chat and bulletin boards. The launch followed a similar announcement from the search-engine company Excite, which has also started branching out with a number of major additions to its My Excite personalised web service. The Communities



scheme allows users to not only get their own web site, but also to set up special communication facilities between groups of friends, relatives or those with the same special interest. It has additionally launched a free UK email service similar to Microsoft's Hotmail and plans to roll out a much broader selection of content that is tailored to each country.

Online bookshop,

Amazon.com, jumped on the bandwagon by buying up an email community networking service and a search-engine company for US\$270m. It

plans to combine the two services with its own shopping service on one site in order to provide shoppers with a more personalised experience.

Microsoft has decided to get in on the act, too, by announcing that it would be rolling all of its sites into one by the end of this year, most likely under the name of MSN.com, as well as developing its own search engine.

For more information, see: www.amazon.com
www.excite.co.uk
www.microsoft.com
www.yahoo.co.uk

WRINKLES

Good news for grey-timers

A monthly newspaper catering to the over-50s has moved online. **Mature Tymes** offers a reunion page, competitions, a contact board and holiday information. It also has links to other sites with information on music, science, motoring, technology training and

crafts and hobbies. More than 20 percent of people aged 50 and over now own a PC, and the so-called "grey market" is one of the fastest growing age groups on the internet today.



You can find it at www.maturetymes.co.uk.

Good grief, Moncrieff!

Scottish clan is holding a vote, via the internet, for a new tartan as part of its 750th birthday celebrations. It is the first time that a tartan has been democratically elected. The Moncrieffs say

their old pink and green plaid is boring and "unsexy" and have called for new design suggestions from clan members around the world. Voting closes on 31st October.

<http://ourworld.compuserve.com/homepages/clanmoncrieff>

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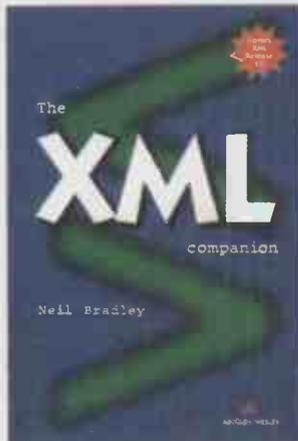
MISTRAL
QUITE SIMPLY, WE DELIVER

The XML-files

Clive Akass reports on XML, which enables machines to have meaningful conversations.

TV, computers, desktop-publishing and the web have all at some point been likened in importance to Gutenberg's invention of movable type. Yet Jeremy Verity, senior consultant at Thomson Consulting International, unabashedly makes the same comparison as a measure for the likely impact of XML (eXtended Markup Language), which is set to become the next-generation web *lingua franca*. Gutenberg, he says, ushered in our world by enabling mass publication; XML is ushering in the 21st Century world by enabling the full possibilities of mass interactive communication.

XML certainly has ramifications that go way beyond its roots in the print industry. Like HTML, it is more or less a subset of SGML, the cumbersome but potent mark-up language used largely to generate standard-format publications such as manuals or dictionaries. Like HTML, it is platform neutral, uses undisplayed descriptive tags and is policed by the independent World Wide Web Consortium (or W3C, which released XML version 1.0 in February).



◀ A GOOD ROUND-UP OF THE SUBJECT BY VERITY'S COLLEAGUE, NEIL BRADLEY. ANY BOOK ON XML IS LIKELY TO RAPIDLY GO OUT OF DATE BUT THIS COVERS v1.0 AND ASSUMES NO KNOWLEDGE OF EITHER SGML OR HTML, ALTHOUGH SOME FAMILIARITY WILL HELP. • £24.95. ADDISON WESLEY. ISBN 0-201-34285-5

Unlike HTML, it uses meta data (i.e. data about data). Hyperlinks aside, HTML is simple text. XML adds information on the meaning of the text. There are two main types of XML communication: machine to machine, and machine to person. The latter is traditional publication in the broadest sense, and XML offers it significant advances.

As PCW has discovered, adapting documents formatted for print for

re-publication on the web can be no small task, particularly if, like most magazines, you design pages using Quark XPress. But documents held in XML format contain all the information needed for their assembly, styling, formatting and publication for any target audience using any medium — including the web. Explorer 4.0 supports XML and so will Navigator 5.0. This is where Thompson Consulting, an offshoot of the publishing house, comes into the picture. Verity is not alone in seeing this type of multi-medium publication as the future of the industry and his company has just launched a module, called Te@ms, for managing digital content.

Machine-to-machine (in effect, program to program) XML is still more intriguing. Because it can include information about data types, it can be used to exchange information between programs, including relational databases. It is also seen as a means of democratising Electronic Data Exchange, currently the domain largely of big businesses using expensive private lines and a tricky encoding scheme. An XML version of this will allow EDI transactions over the internet.

XML is seen as likely to replace not only Rich Text Format (RTF) as the standard platform-neutral word-processor file format, but also CSV and the like as the standard interchange format for databases. Eventually it will allow search engines to become a lot more intelligent. The W3C is developing an XML-based Resource Description Framework (RDF) to support metadata on the web for purposes such as digital libraries and searching. The next version of Microsoft Office uses XML. Verity reckons advanced XML browsers and XML/EDI will be in widespread use next year, and that by 2002, XML will be used in all communicating devices.

XML is ushering in the 21st Century world

CUT YOUR CLOTH TO SUIT YOUR PURPOSE WITH EXTENDED MARKUP LANGUAGE >>

All-purpose XML

XML is easily tailored for specialist uses and has already sprouted a host of application-specific versions. Perhaps the best known is Channel Definition Format (CDF) used for internet push technology, and Synchronised Multimedia Integration Language (SMIL) for

synchronised multimedia presentations. Others include Astronomical Markup Language (AML), Bioinformatic Sequence Markup Language (BSML) for genetic engineers, Chemical Markup Language (CML), Classified Ads Format, and the Notes Flat File Format (NFF)

interchange format for the Lotus Notes/Domino platform. There's an Open Financial Exchange (OFE) for financial data, and Open Software Description (OSD) for describing software packages for automated distribution. Others cover printed music, maths and real estate.

Back seat driver

If PCs take **second place to TV sets**, who will be in the driving seat? Clive Akass views the picture.

Computers will take a back seat to TV sets for digital interactivity, according to a new Ovum report. This would appear to have deep implications for the PC industry, but you have to be clear about what is meant by "take a back seat".

The report, *Digital Television: How to survive and make money**, predicts a battle between net access providers and broadcasters for revenue from interactive services which, within five years, will generate an estimated 20 percent of digital broadcasters' income. All will try to keep punters on their patch: net providers by creating fast-access portals to popular services, and broadcasters by creating what Ovum principle consultant John Moroney calls a "walled garden" of compelling content.

Broadcasters would like to block viewers from accessing the net at all, to prevent leakage of revenue, says Moroney. They have no option if they are to remain competitive, so the TV's set-top box (STB) will have an internet port. But a surprising amount of interactivity can be had without it. This is because

web content, including entire sites, can be piggy-backed on to a TV signal. For instance, a TV advertisement may invite viewers to visit the Mercedes web site. Then, a hyperlink connects not to the Mercedes web server but to the STB, instructing it to strip the site from the TV datastream and cache it locally. Only if the viewer decides to buy a car and fills in an on-screen form, need the internet be accessed, and then for only the few seconds it takes to squirt the details to

It will be nerds with PCs who will be pushing at the edges, not couch potatoes with STBs

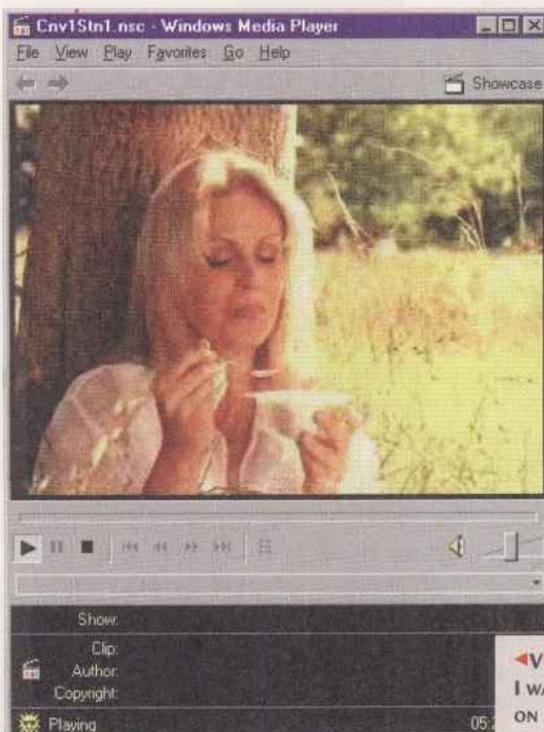
Mercedes. The form will cover only the goods required and personal details will be collected from a smartcard slotted into the STB.

Maroney predicts that 80 percent of interactivity will take this form. Just 20 percent will occur over the net, which will be used mainly by the kind of people who are already using it, and for much the same reasons. But his perspective is that of the major broadcasters and he assumes that a TV-capable PC will cost around £1,000. Some industry figures are already talking of sub-£500 PCs — not a great deal more than the cost of an early digital receiver. Adaptec and the Korean company Telemann already make digital PC TV cards and the UK manufacturer Pace (a major STB contractor) plans one for next year. Moreover, viewers are unlikely to be content with a walled garden, however compelling the content,

and they will balk at having to buy different STBs for different services. A PC should offer far more flexibility, controlling access to multiple digital data streams via cable, satellite, terrestrial broadcast, ADSL or whatever. Fronting them can be software that not only acts as a program guide, messaging and news centre but also works out the best paths (balancing cost, speed and quality) for sending or receiving data.

No-one knows how these systems will be used in the long run, but they will be used in ways that no-one has imagined. This innovation will come from below, not from the dictates of media moguls. You can bet your boot-disks that it will be nerds with PCs who will be pushing at the edges, not couch potatoes with STBs. Which is why I'm getting rather fond of Eutelsat, whose Convergence 1 Internet service with Easynet I wrote about last month.

This is still a nerd zone, with little content and flaky prototype software demanding obscure parameters (rather like the early web). But Eutelsat is alone among the satellite companies in encouraging experimentation with PCs. I finally managed to get some TV out of Convergence 1 (as opposed to Eutelsat's 350 conventional channels) last month: some clips of an IPTV datastream put out by Cisco; a fashion show using the Streamworks player; and Channel 5 via Microsoft's media player (see picture, left). All were low frame-rate with poorly-synched sound in small windows, as I had no hard-wired decompression. But it shows what can be done. This is not data being squeezed down narrow web pipes. It is data falling fast from the sky. It means you, too, can become a broadcaster. There is scope here to evolve a new type of broadcasting economy. I'm told it will be possible to get an aerial that receives both SkyDigital and Eutelsat. If Eutelsat plays its cards right and rides the Sky wave, and the trendies of the arts and music worlds spot the possibilities, it could even become fashionable.



**VIA EUTELSAT'S CONVERGENCE 1,
I WAS ABLE TO PICK UP CHANNEL 5
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VOX POP

Should we wait for NT 5.0?
Collected by Susan Pederson



ANDY MULHOLLAND,
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DIRECTOR,
CAP GEMINI

Quite a few people will buy Novell for tactical reasons. There are some good features and it's the right price. Its server system is good too, but the tie-in to the desktop is not so great. That is what's going to keep Microsoft in the driving seat.



FRANCES REAY,
WINDOWS PRODUCT
MARKETING
MANAGER,
MICROSOFT

I do not think the long rollout period will have a negative impact. We are carrying out intensive testing so that by the time we ship, our customers will be happy to use it. Having a product that is ready to be deployed is worth the wait.



PIM BILDERBECK,
SENIOR RESEARCH
ANALYST,
IDC EUROPE

The delay will hurt Microsoft in the short-run but, long-term, the market focus is more on the development of NT than NetWare. Many companies and businesses will wait and see at first, but I think there is a lot of confidence that Microsoft will solve this issue. You cannot ignore NetWare, though. It has a large installed base and a lot of companies are using it.



PETER JOSEPH,
CORPORATE
STRATEGIST,
NOVELL UK

Microsoft's track record on delivery is not good. Because of the testing we've done, some companies are going to roll out NetWare 5 right away. There will always be people who wait, but many cannot wait any longer. They're going to have to make a choice.

SHIPPING NEWS

Third beta delays NT 5.0

Microsoft's unexpected decision to add a third beta to the rollout of Windows NT 5.0 will push back the final shipping date of the product until late next year, according to analysts.

Microsoft originally expected NT 5.0 to ship in the first half of this year. In fact, it began shipping the second beta version of Windows NT 5.0 operating system at the end of August, which will go out to about 200,000 users worldwide.

Microsoft has created a lot of marketing hype but it's not delivering, according to Peter Joseph, a corporate strategist for Novell UK. "We've been pushing out the beta of NetWare 5 and people are suddenly asking, 'why do we have to wait for

NT? We don't have to wait for Microsoft's promises'," he said. Although he doesn't see NetWare 5 and NT 5.0 as direct competitors, the window of delay still leaves Novell in a much stronger position. He said, "If you're waiting for the technology and what it's promising, look at what we're offering today." Novell shipped NetWare 5 on schedule in September.

The second beta of NT, which was originally scheduled to ship on 30th June, is believed to contain most of the features of the final version, including directory service software. Microsoft has said it has eliminated most of the main bugs, or showstoppers, in NT 5.0. Simon Moores, chairman of the Windows NT Forum in the UK, expected

Microsoft to have worked on simplifying the product.

"Microsoft is trying to tighten down the code by removing what it doesn't need. At 30 million lines of code it's still a very big product," he said.

Kirsten Ludvigsen, the programme manager for IT market watcher International Data Corporation, thought that users would want to evaluate NT 5.0 before they used it. "That's what any sensible LAN manager would do," she said.

A spokesperson for Microsoft claimed that a delay to the final product was not a foregone conclusion, but said that the longer rollout would mean happier customers in the end.

ADDITIONAL REPORTING BY
PETER BRANTON,
VNU NEWSWIRE

THE LOTUS POSITION

Lotus reveals Organiser 5.0

Lotus has announced details of the next version of its time management software, Lotus Organiser. It is also launching a new campaign to protect its cc:Mail user base.

Lotus Organiser 5.0 will have enhanced contact management features, including support for group scheduling, a simplified user interface, and extended information management capabilities. The upgraded user interface features new views and navigational capabilities, including a calendar navigation toolbar. The product was due out in the US by the end of

September, but no UK release date has been announced.

Lotus is also launching a campaign to encourage its cc:Mail users to upgrade to its products. The 14 million user base will be eligible for an upgrade to Lotus cc:Mail Release 8.3 (which shipped in September) or an upgrade to the Lotus cc:Mail multi-mode client and Lotus Domino Server, or an upgrade to Lotus Domino Mail Server with Lotus Notes client. Lotus is counting on the PC version of its eSuite productivity suite to rescue the ailing product after the network computer (NC) version faltered due to poor take-up of the NC itself.

When Lotus originally launched its eSuite, it chose to target the NC thin-client market initially, but the strategy was not as successful as was first hoped for. The personal computer version of eSuite is expected to ship later this autumn.

Lotus eSuite is a Java-based application family which consists of Workplace and Devpack — a Java development kit. Workplace includes email, a spreadsheet, a calendar, chart and presentation graphics, as well as an address book.

PETER BRANTON,
VNU NEWSWIRE

The Publisher's Award for Outstanding Achievement 1998

"The winning company is being presented this award for their investment in infrastructure which has matched their high volume growth; in particular we would like to recognise the emphasis they have placed on improving their Customer Service and system reliability.

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They have clearly demonstrated all round improvement in their product and service levels and we have no doubt that next year they will prove to be a keen challenger against top tier

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Jonathan Ross, PCW Publishing Director (May 1998)



PC Direct Awards

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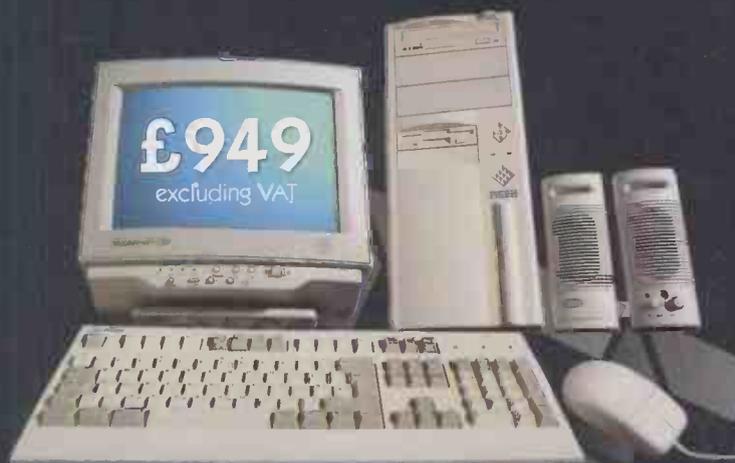
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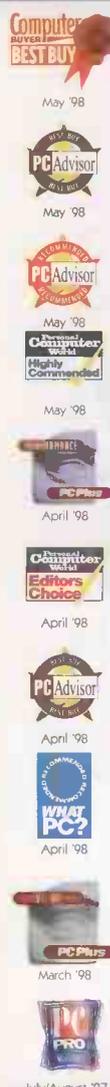
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Our Editor's Choice award goes to a machine that was head and shoulders above the others.

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PCW Editor's Choice - April '98

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PC Pro - April '98

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October '98



September '98



September '98



July '98



July '98



July '98



July '98



July '98



June '98



May '98



May '98



May '98



May '98



April '98



April '98



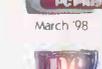
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short stories

▶ PATENTED ADS

A web marketing company has snapped up the rights for the practice of paying internet users to read online advertisements. California-based CyberGold received the US patent for the practice of rewarding online consumers, and plans to license the concept to other online advertising companies. CyberGold stands to gain significant influence over online marketing, because the practice could be applied to the internet, intranets or interactive TV.

▶ SPAM NO MORE

California has taken a decisive lead in internet legislation by banning junk email. Spammers can be sued by internet service providers under the new law, and will face up to \$50 in damages for every message they send.

▶ TOMORROW, TODAY

Delve into the weird and the wonderful with the Beeb's new webzine, which showcases the latest happenings in the world of science and science fiction. Tomorrow's World +, which is located at www.twplus.beeb.com, is the place to go if you want to settle a scientific argument, explore the logistics of time travel or simply regale everyone with stories of your close encounter with the Loch Ness monster.

SERVICES

Internet access gets cheaper

The increasingly cut-throat internet access business has got even more competitive with the launch of two new services.

Tia Net is offering unlimited nationwide internet access for £4.90 (ex VAT) per month. Users get 5Mb web space and five POP3 mailboxes, with up to ten aliases for each mailbox. There is no setup fee and a 7-day, 24-hour technical helpline is also available. Each account also comes with a free call-forwarding service, which allows you to forward a designated number to any other phone number in the UK, including mobiles. Free voicemail is also included with the service, allowing the service to call you back with your messages or remind you of appointment details that you've recorded earlier.

Cable and Wireless (C&W) also rolled out its internet access service, which is based on a charge per minute rather than a monthly subscription. A special promotional rate is available for C&W cable telephone customers until the end of November. Until then, customers will pay 45p per hour to access the



CABLE & WIRELES

Internet Lite service, while

non-customers will pay normal national call rates. After the trial, C&W customers will pay 1.66p per minute at weekends and 2.5p per minute, while non-C&W customers can use the service for 2.95p per minute.

C&W's Internet Lite service is modelled after AOL's, which provides customers with a variety of services in addition to simple

internet access. C&W, however, is selling itself on offering lifetime access with the promise of an email address for life. Members pay a one-off £10 subscription to C&W, and after that, just connection charges.



SUSAN PEDERSON

(ADDITIONAL REPORTING BY VNU NEWSWIRE)

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Music stores setting up web sites

Traditional music retailers are moving onto the net to match their online competitors. Tower Records announced that it would be setting up a UK-based internet shop for music, books and video in mid-November, while Virgin said that it would be establishing

a UK-specific site around Christmas time. The announcements were made shortly after the US-based net music store CDNow launched its European service. Tower Records plans to put over 600,000 entertainment titles online. The service will be available in

150 currencies and will be served by 40 distribution centres worldwide. Customers will be able to check out reviews, audio samples and track listings before buying.

Tower Records 01223 880 111, www.tower.co.uk; Virgin 0800 005003; CDNow www.cdnow.com

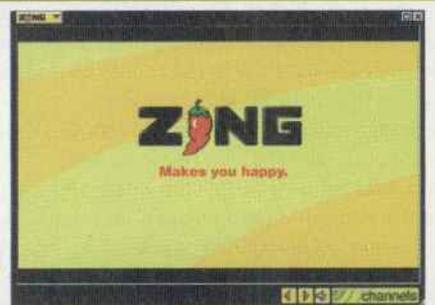
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Micron shows off its winning team

Top US vendor **challenges market leaders** in a bid for the middle ground.

PC vendor Micron invited me to its first analysts' summit last month. The company is number three direct seller in the US but is way behind Dell and Gateway, and it has pulled in a top-notch management team to push up sales.

Most important was new CEO Joel Kocher, who created Dell's direct sales model and is credited with defining this type of marketing. Joel is what I call a spitfire. He speaks like a southern preacher and is one of the fiercest competitors I've met.

New vice president of commercial business is Scott Bower, a top IBM marketer who is credited with helping make the ThinkPad a success; former Apple marketer Mark Gonzales is VP of world sales and marketing. Behind them are design, manufacturing and supply

teams good enough to make Micron a serious player.

Ten years ago fewer than one in a hundred PCs were sold direct, rather than via a reseller; today, the figure is

Micron has created the Mpower, a form of obsolescence protection: I think it has potential

closer to one in four and the market is growing. This segment of the industry is hot. Market leader Dell has gone for corporates; Gateway focuses on consumers, and both chase the middle ground, the small- and medium-sized businesses. This is where Micron is putting all its efforts. It has created

something called the Mpower, a form of obsolescence protection. This is not the first such scheme but I think it has potential. It has two aspects:

➤ **Trade-ins.** Other companies have tried this in the past, but usually only with their own makes. Micron will take models from some 13 major vendors; it puts the PCs through a certified green disposal program.

➤ **Trade-ups.** You can move to a more powerful system after a year. A recent survey found PC obsolescence is a major issue with buyers.

Micron is also challenging the market leaders on bang per buck.

Chief technology officer, Dean Kline, expects it to offer a full 450MHz for under \$2,000 (about £1,250) this Christmas and a 600MHz system for the same price next year.

Intel loses out in low-price PC market

Chip-maker takes a wrong turning in the run-up to Christmas.

It is hard to believe that Intel has taken so long to get its act together with its new Celeron chip. In late August, it finally introduced a Celeron with cache to speed up this low-end processor. You may remember that the performance of the first Celerons paled in comparison to chips from AMD and National Semiconductor.

Intel has lost at least 50 percent of the sub-\$1,000 market to these competitors over this shortsighted strategy. Last October, I spoke to former Intel president, Andy Grove, about this segment of the market. At the time, Intel did not even have a chip that could be used in the sub-\$1,000 PC market segment. I asked him what Intel was going to do about it. His response was that Intel believed people are willing to pay for value and performance, and that Intel was well positioned to take advantage of that trend.

Unfortunately for Intel, he was very wrong. Demand for sub-\$1,000 PCs



◀ **CELERON, MINUS ITS CRUCIAL CACHE, LOST INTEL AT LEAST 50% OF THE SUB-\$1,000 MARKET**

system with a CeleronA at 333MHz sells for \$1,199. This tells me that Intel has no intention of playing in the sub-\$500

went through the roof last Christmas and continues to remain strong. Even worse, prices have dropped further. We are starting to see the first sub-\$500 systems hit the market. Sure, they are low-speed 200MHz systems, but analysts expect these to get a lot of attention this Christmas.

Intel's prices are still too high to get any of their powerful systems under \$1,000. Sources say that the 333MHz Celeron costs vendors close to \$200. So, it isn't too surprising, then, that Compaq's new

arena. While it might allow some vendors to price powerful systems at the \$999 range by Christmas, Intel still seems willing to give up a large chunk of this market.

I suspect AMD and National will try to exploit this chance to extend their reach, which means we could see 333MHz AMD systems for as low as \$799 going into Christmas. Clearly, the PC business is a tough place to be these days. But it's a great time to be a consumer.

SECURITY

Encryption loophole shut

Researchers at IBM and at a Swiss university have developed new encryption technology to safeguard information sent over the internet from even the most skilled computer hackers.

The new method addresses the potential flaws, discovered earlier this summer, in the SSL (secure sockets layer) encryption system used by many web sites to protect information travelling across the internet. IBM says it is aware that, although the loophole is small, it needs to stay one step ahead of hackers to eliminate consumer fears over the security of online transactions, therefore securing the future of ecommerce.

The new technology, called the Cramer-Shoup Cryptosystem, was developed

by top mathematicians at IBM's Zurich Research Laboratory in conjunction with the Swiss Federal Institute of Technology. The inventors claim that this effectively closes the back door on so-called active attacks and is unbreakable even to the most aggressive of computer hackers.

Current cryptosystems are based on extremely advanced mathematical problems that are thought to be insoluble and therefore impossible to crack. However, hackers use active attacks which bypass the underlying mathematical problem by sending a series of cleverly constructed messages to a publicly accessible server. A skilled hacker could then decode encrypted messages that pass through the network by analysing the server's pattern

of responses to the bogus text. The Cramer-Shoup method blocks these attacks by adding another series of calculations which ensure that the server leaks no information when responding to the bogus text. IBM hopes that by adding this extra security layer, it will further allay any of the fears consumers may have concerning the security of online transactions, which is a major obstacle to the growth of ecommerce across the internet.

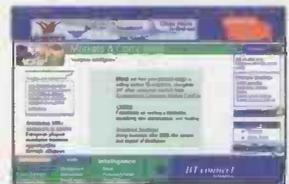
IBM plans to incorporate the new systems into a future version of its Vault Registry software, its public key infrastructure product, which allows ecommerce transactions to travel across organisational boundaries in a private and secure manner.

ANGELA SOANE,
VNU NEWSWIRE

short stories

GET CONNECTED

BT has launched an online information and communication service for small and medium-sized businesses. The "BT connect to business" service includes internet access, web hosting facilities, business content and email for £12 per month (ex VAT) for a single dialup



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www.btconnect.bt.co

I LIKE IT, BUT...

Home internet users are getting online because of curiosity and peer group pressure, according to a study by research company INTECO. Although users also want email and the ability to work from home, the study found that most of them didn't really have a pressing need to get online. Most users appreciated the net but could not identify a critical application for it.

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Yell Top 10 web sites



Now that the days are getting shorter and the skies are getting drearier, it's the perfect excuse to curl up on the sofa with a nice cup of tea and check out the new



autumn telly season. Toaster at www.toaster.co.uk is a comprehensive electronic programming guide that has television listings for all UK terrestrial, satellite and cable channels. It plans to start offering customised listings as well as custom TV schedules by email. But if this

isn't quite cerebral enough, you should head over to The Poetry Society at www.poetrysoc.com. With competitions, news and reviews, it has enough to keep you occupied throughout the long winter months ahead.

1. BBC Science in Action
2. Berghaus www.berghaus.com
3. Lycos Weather
<http://weather.lycos.de/weather/gb/gb.asp>
4. The Museum of Science & Industry in Manchester www.msim.org.uk
5. The Poetry Society www.poetrysoc.com
6. RAC www.rac.co.uk
7. Scottish Tourist Board
www.holiday.scotland.net
8. Shop Guide www.shopguide.co.uk
9. Toaster www.toaster.co.uk
10. United Kingdom Parliament
www.parliament.uk

Top 10 Products Last month

Peripherals

10P	Umax	1
90 V/FX EXT	3Com	2
220p Scanner	Umax	6
MMX	Evergreen	7
ouse PS2/Serial	Microsoft	-
oard Elite	Microsoft	-
2 Mouse	Mitsumi	-
5/586 Proc U	Evergreen	9
ouse V3.0 (95)	Microsoft	-
100c	HP	-

Windows software

u/g CD	Microsoft	1
+Books! u/g	Microsoft	2
50,000 Clipa	IMSI	-
sl 98 Microsoft	Microsoft	-
o V5 Fp CD	Digwork	-
C/Vup u/g CD	Microsoft	-
+ IE 4	Microsoft	-
entials 98 C/U	Microsoft	-
UK/EU Bundle	Microsoft	7
n T/Type V8	Mindscape	-

DOS software

V7 DOS Educ	Borland	1
V7.0	Borland	3
2 upgrade	Microsoft	4
mander V5	Symantec	8
10 User CD	Novell	-
5 for DOS	CA	-
1 User Lic	Novell	-
emote 3.2	Microsoft	3
V5 Host	Symantec	-
S User	Novell	-

CD-ROMs

stricted Access	EA	1
	FastTrack	9
	Guildhall	-
a Britannica	Acclaim	5
n Teaches Typing	Mindscape	-
	FastTrack	-
Upgrade	Microsoft	-
Ultimate Dossier	Eidos	-
Time	AA	8
	Europress	-

Games

ame	EA	-
er	Sold Out	2
nger 97/98	Gremlin	1
Behind E Lines	Eidos	3
	EA	-
f Time	Europress	4
: Replay	GT Int'l	5
p Manager 2	Eidos	8
Unfin'd Business	Eidos	-
Falcon	Sold Out	-

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

Action space game to be sold via shareware



A new game, called **Robosaurs Versus The Space Bastards**, caught my eye this month. Not only because of the outlandish title, but also its superb gameplay. This platform game lets you choose from characters that are based on certain famous action-film actors. Robosaurs will not be published in the traditional manner. Instead, its producer, Krusher Productions, plans to sell it exclusively through the shareware model as perfected by iD software with Doom. Take a look at the web site at www.spacebastards.com — but we do stress that this site is for adults only.

Have you ever wanted to come face to face with disaster? With **Emergency**, the new game from ASCII Entertainment, you can do just that. This real-time strategy game will have you coping with disasters at every turn. It is your job to co-ordinate the activities of the full range of emergency services: fire, police and allied emergency rescue — all within a budget. You are given a mission, which could be a raging forest fire, a plane crash or a nuclear power-plant meltdown. But if you get it wrong, people will die. Don't miss our full review in next month's issue.

Mindscape, the publisher of those cute little Norns, in **Creatures**, is now launching **Creatures 2**.

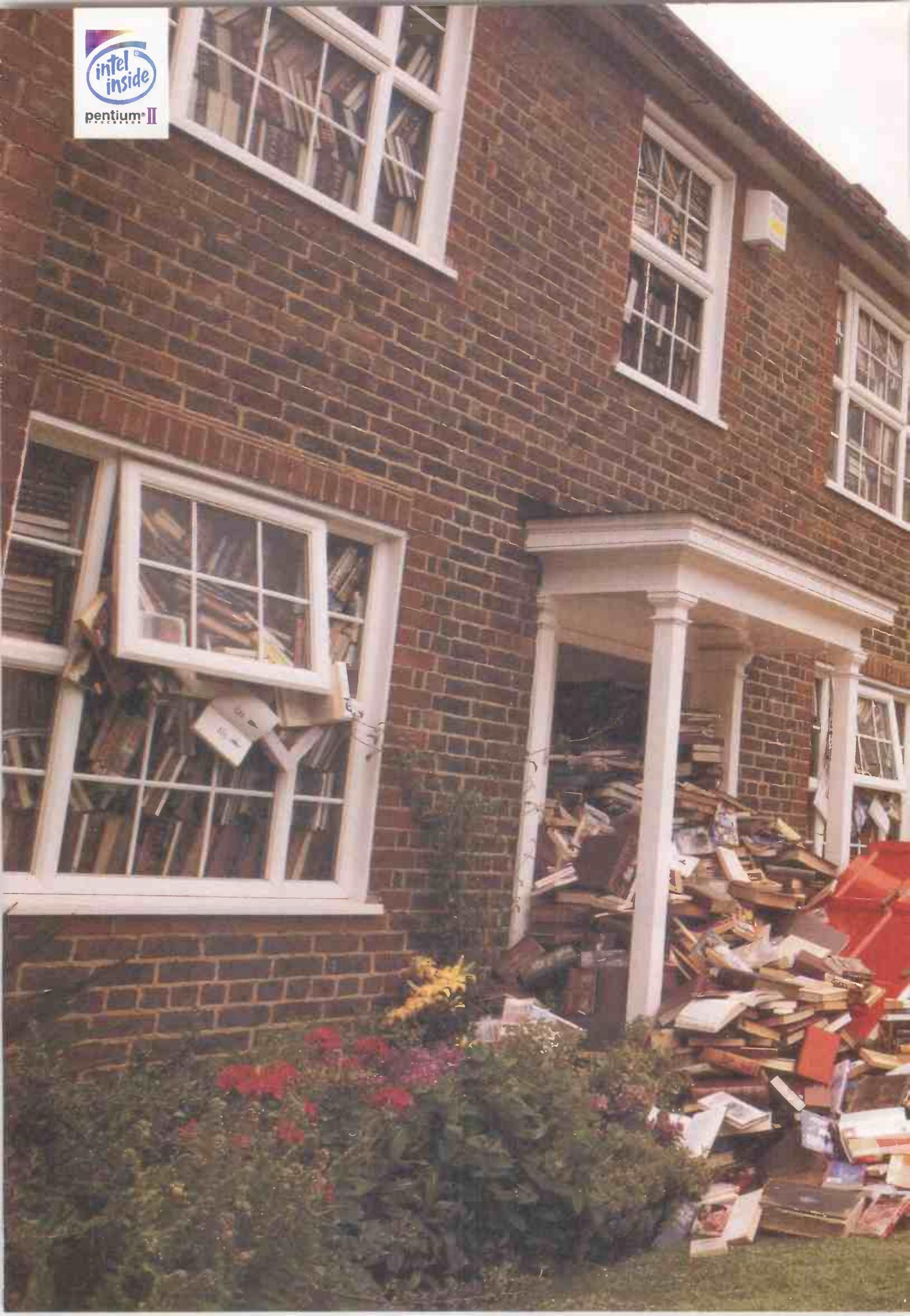
The follow-up to the artificial-life software which has sold over 500,000 copies, takes A-life technology several stages further. To find out how **Creatures 2** is different to the original, read the *PCW* review in next month's *Screenplay* section.

Europress is offering an amazing deal. **Total Insanity 2** gives gamers the chance to pick up *Worms 2*, *Star Trek Generations* and *Titanic - Adventure Out of Time* for an all-in price of just £29.99. For more information, call Europress on 01625 855000.

Act now to enter a nationwide quest for the undisputed **Quake II champion**. If you are aged 18 or over, register and play online via Wireplay's **Quakeadelica** web site this September at www.quakeadelica.com.

ETELKA CLARK

Reviewed games (p311): *M.A.X. 2*, *Vangers - One for the Road*, *The X-Files*, *Outwars*, *Deathtrap Dungeon*, and *Cannon Fodder*.





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People **watching people** on WebCams is all the rage. Sad or what, says Michael Hewitt.

Who are you looking at?



Watching paint dry used to be the generally accepted benchmark against which to measure relative degrees of boredom. Today, however, now that the introduction of Dulux Vinyl Silk has, if not exactly

rendered the experience truly exciting, then at least introduced into it an element of suspense, we need a new yardstick. Thanks to the internet, I believe we may have one: watching life as viewed through a WebCam.

Two distinct WebCam oeuvres have emerged. In the first, the camera shows 24-hour coverage of something reasonably immobile, like a piece of scenery or a city skyline. In the second, the WebCam is mounted in a living room or bedroom and records whatever, if anything, goes on in front of it during the course of a day. The first falls down because of the current limitations of the technology. The concept is sound enough — people do like looking at spectacular views and will often spend hours at it — but it manifestly fails when combined with the internet because computers cannot deliver the requisite breathtaking vistas. Take, for instance, a WebCam I have come across which displays the Manhattan skyline. In real life, this is probably one of the most spectacular sights in the world. However, reduce it to a gimpy 3in x2in image in the corner of a VGA monitor and, unless a meteorite suddenly descends, or a largish prehistoric lizard turns up to eat a few of the inhabitants, you may as well be looking at East Croydon.

The second type of WebCam coverage, the fly-on-the-wall variety is, I fear, a far more worrying trend. In days of yore, if you had very little life to speak of, and that little you did have was of such stultifying tedium that, in comparison, 24 hours stuck in a lift with a Jehovah's Witness provoked a major adrenaline rush, there were just two options: either keep it to yourself, or write a column about it for *The Independent on Sunday*. Now, though, such people are sticking little cameras on top of their computer monitors and broadcasting their sorry existence to the rest of humanity. And, I am afraid, the rest of humanity, or at least a good proportion of the 80 million of them connected to the internet, is eagerly tuning in.

The person who started this nonsense, a 20-something American designer called Jennifer Ringley, proclaimed her "Jennicam" project to be an example of performance art. Maybe. It is also an opportunity for teenagers to log on to her site and watch her undress before she takes a shower or goes to bed. They could, of course, log on to the Penthouse or Hustler web pages and cop a view of some slightly more aesthetically packaged bodies, but that's by the by.

Whatever, Ringley has inspired a host of imitators. Today, it seems that there are few human activities which are not viewable via the net: birth, eating, sleeping, marriage and root-canal surgery, to cite but a small number. It was even reported a few weeks ago that a couple intended to lose their virginity on the internet. This turned out to be a publicity stunt, but I've no doubt that it will come. But when it does, it will be boring. Real life is generally boring. At least from an onlooker's point of view. That's why, whenever they make a film starring, say, Bruce Willis, they always have him blowing up an asteroid with a nuclear bomb or kicking Alan Rickman from the top of a skyscraper,

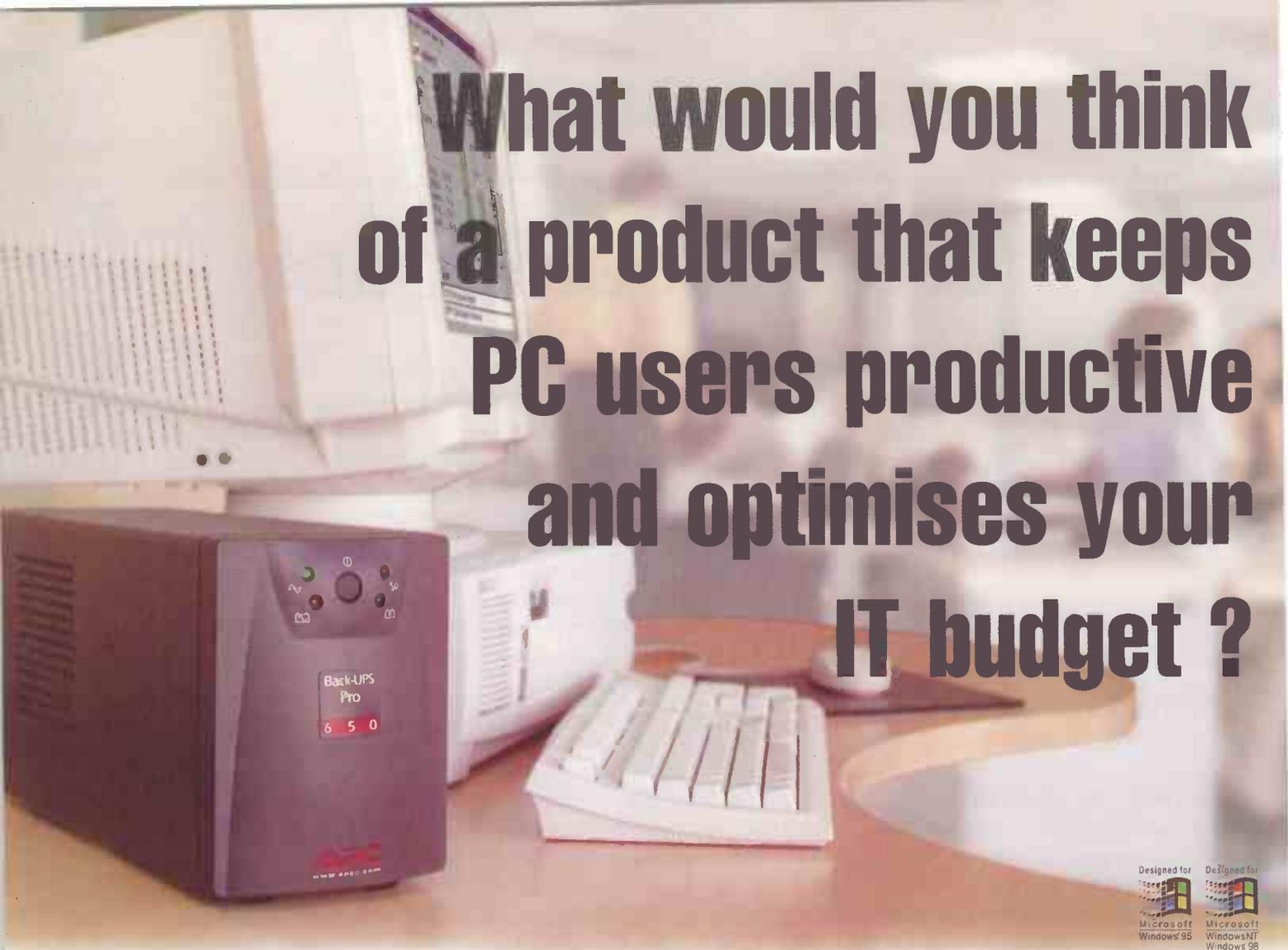
Today, it seems that there are few human ACTIVITIES WHICH ARE NOT VIEWABLE via the net: birth, eating, sleeping, marriage and root canal surgery, to cite but a small number

rather than just showing him doing nothing but sipping coffee or undressing before he goes to bed.

It's this infantile need that many people have, to scream "Look at me! Look at what I'm doing!", to whom these fly-on-the-wall WebCams are pandering. It is the same exhibitionist urge which prompts people to jump up and down, waving "Hello Mum!" placards behind John McCrick whenever he performs his horse-racing commentaries. It is the same inner demon that drives people to appear on television's Stars In Their Eyes and send obviously staged videos in to You've Been Framed. It's pathetic. But then again, these online antics do, for the time being at least, spare us the sight of one thing which would definitely be more boring — a WebCam view of paint drying. Give them time, though, give them time.

Mike.hewitt@mjh1.demon.co.uk

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(*) Source: Contingency Planning.

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Tower Pentium II w/17" Monitor	8	12	23

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PC brand used : _____ # of PCs on site : _____

UPS brand used : _____ # of UPSs required in the next 6 months : _____

The shortcomings of Windows 98 may cause the **cash cow of upgrades** to dry up, says Barry Fox.

Watershed 98



If you could see me now, you'd see a happy man. A man who finally got rid of Windows 98 and went back to Windows 95. It wasn't easy, because my original upgrade had chewed up all my Windows 95 settings and spat them out, leaving me

with the need to re-install everything from scratch. But it's been worth it. Things that stopped working when Windows 98 got hold of them now work again. Well, most of them. My RealMagic MPEG-1 decoder seems to have died with the shock of it all, and as Sigma no longer has any visible interest in the UK market, it's probably a write off. But that's a small price to pay for a 98-free life.

Since writing about the problems of upgrading a working PC from Windows 95 to 98 I have received a steady stream of calls and emails, all with a common theme of miserable frustration, cold panic and wasted working time. Writes Peter Allison: "Glad to read I'm not the only one with Win98 problems, as Microsoft might have me believe. System crashed on setup...after five hours on the phone Microsoft told me it was due to FAT on hard disk being partially converted to FAT32 ... Luckily I've two hard disks and it only affected one."

"You are not alone!" writes the IT Manager for the London Symphony Orchestra. "Your experience mirrors mine exactly - I spent a week trying to upgrade from 95. Having eventually installed it, my computer has never been the same.

Thankfully I just tested 98 on my home PC. It will be a long time before I let it go anywhere near the LSO."

"I have had exactly the same problems, only until now, I didn't know why recovery didn't take place," says Norman Wollons. "I lost the machine for a week, while I got drivers for my CD-ROM, and with DOS book in hand, wrote config.sys entries to make the CD work under DOS. It took a further couple of weeks to get the system something like back to normal."

Meanwhile, PC World, part of The Dixons Group, has agreed to subsidise customers who bought Windows 98 with a DVD-ROM drive, in the misguided belief that the PC would then play DVD movie discs. Those who can prove they were misled will get around 50% off the price of a graphics card that works with MPEG-2 decoder software. But this offer came only after I had

pulled rank as a journalist and complained to the Advertising Standards Authority. And even then I had to ask PC World to tell me about the offer. The ASA is satisfied that PC World is no longer misleading the public. But weeks later, Microsoft's web site was still promising that "with Windows 98 you can watch a full-length movie". I have asked the ASA to look at this, too.

So what does Microsoft have to say about all this? In June, when I first started to uncover problems with Windows 98, Anne Mitchard, Marketing Manager for the Personal Systems group and Microsoft's frequent spokesperson on Windows 98, ignored my questions until prodded from other quarters. She finally called me on the 8th of July and promised to get back with a considered comment on my core question: how could Microsoft release Windows 98 with so many inherent problems already well known to Microsoft's own technicians - for example, the risk of the upgrade fatally crashing during conversion of the Windows 95 registry? By my deadline for this column, near the end of August, despite two faxed reminders, I had still heard nothing from Anne Mitchard. Although it will be no short-term consolation to those

The Windows 98 debacle could prove a watershed. By never saying sorry, Microsoft gives PC users, both personal and corporate, THE STRENGTH TO SAY NO to each next upgrade

who are struggling to make things work or staring at a Blue Screen of Death, the long-term future looks good.

Until now PC users have been carried along by the insidious brainwash that constant upgrading is essential. New software has needed more disc space, memory and processor speed. Often the benefits have been marginal, but the vicious circle of hardware-software interdependence has generated a vital revenue stream for Intel and Microsoft. The Windows 98 debacle could, however, prove a watershed. By ducking comment and never saying sorry, Microsoft finally gives PC users, both personal and corporate, the strength to say no to each next upgrade. In the crazy computer industry, big companies' fortunes can change with extraordinary speed. Windows 98 could make Microsoft next.

100131.201@compuserve.com



Crash.



Boom.

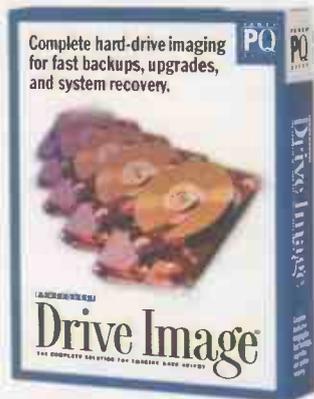


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Holographic data storage is in the pipeline, and Brian Clegg foresees the end of the magnetic disk.

The future is crystal clear



Home users with a modern PC on their desk have it cushy when it comes to disk space. Okay, you can never have too much storage; but even with the disk-eating capabilities of a modern game, the 5Gb-plus that you'll find in a decent

machine will last a while. Businesses have a harder time of it. Not only is the average corporate PC less well specified, there is a whole hierarchy of storage with which to cope. There is the local storage on the PC, storage for the networks and storage for the mainframes — and all of them are feeling the pinch.

Until recently, the only options have been magnetic. Either you kept the information on a hard disk, backed it up to floppy (given infinite time) or used some form of tape. But now, the optical revolution is taking place. The recordable CD-ROM is fairly commonplace. Drives are cheap and the disks themselves are affordable. Yet the capacity, while impressive compared with a diskette, is limited. Thankfully, DVD has arrived — or has it? When DVD was first specified, it seemed a wonderful idea.

Unfortunately, bickering among the members of the consortium and the inability to settle on a clear standard has left the whole DVD format in a risky state. Few businesses are yet prepared to go down that route. Should you go with the original read/write standard, DVD-RAM, or the breakaway Sony/Philips offering, DVD+RW? In either case, while DVD will provide a great backup and distribution medium once the squabbling is over, it is no replacement for the hard disk. It is simply not fast enough. Recognising that the ability to cram hard-disk capacity into a small space will run out as the manufacturers reach the limitations of magnetic domains, there is frantic research being carried out to find the next generation of storage. Business waits with baited breath. PC hard disks might be big these days, but serious databases measure their capacity in terrabytes (one million megabytes is one Tb).

The best bet for the future would seem to be holographic storage. In this experimental technology, data is stored on a crystal, using lasers — exactly the

same interference-pattern approach as is used for 3D holographic pictures. The technical problems are significant, though. The accuracy of the laser positioning and the sensitivity of the material used to recapture the data correctly is a nightmare. But once these problems are overcome, the data centre managers will be dancing in the street.

A holographic store could reach transfer rates of 100Mbps, because it can pull a huge chunk of data out at one time. The compactness of the storage means that it would be quite feasible to pack 2Tb into the same space as one of today's PC hard disks. Data will not be lost because of moving parts breaking down. In fact, the crystal itself should be able to sustain a fair amount of damage before any data is lost. This Star Trek technology may not be too far away, either. IBM, at the forefront of holographic-storage research, believes it should be commercially viable in less than ten years' time. It's a case of don't hold your breath, but the end may be in sight for our old friend, the magnetic disk.

• **A while ago, I mentioned a problem** I had experienced with an ISP. Here's another salutary tale.

The compactness of the storage means that it would be QUITE FEASIBLE TO PACK 2Tb INTO THE SAME SPACE AS ONE of today's PC hard disks. Data will not be lost because of moving parts breaking down

Like most businesses I have my own internet domain, which I use for my email address. But I access the net via an ISP, so my outgoing mail goes through the ISP's server. Recently, for a whole week until I noticed, all my outgoing mail disappeared. The ISP had decided (without bothering to tell anyone) to send any outgoing mail that wasn't from one of their mail addresses into a black hole. When I complained, they pointed me to an alternative server. It seems incredible that a company can take an action that makes mail disappear, without telling anyone. It was claimed that this was for security reasons (which is why I'm not naming names) but anyone who uses a different outgoing mail address ought to be regularly checking that the mail gets through. You never know when you will be next!

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NO SURCHARGE ON CREDIT CARDS

Apparently, if you spend more than **one hour a week online**, you're a geek. Too right, says Paul Smith.

Sad, but true



Recent scientific tests have shown conclusively that I am a sad geek. A huge international study of online usage has proven, beyond a reasonable doubt, that I — in common, I must add, with everyone else online — have no life.

Apparently, spend more than one hour a week online, and you start to lose friends (*friend [n]*: a person known well to another and regarded with liking, affection, and loyalty). Now, this comes as something of a surprise to me, as I have always thought of myself as rather a happy geek, as any of my IRC mates will confirm. I am happily — nay, delightfully — married to Del, although admittedly she was chosen on the somewhat spurious grounds that her name sounded oddly comforting. (I was seeing a woman called Compack at the time so, of course, it could have been worse.)

My circle of close friends does not end there, though. Oh no, far from it. Because, of course, there is also Edward. He is a dear and loving soulmate, whose capacity for warm affection is outshone only by his importunate need for feeding (but that is a common cat thing and I can't argue with it). I also have another friend and his name is Sean, and he really is sad. But that's another story.

So, having comprehensively torn down the fallacious conclusions of this (ha!) "study", I will now turn to the provenance of its shortcomings. And, yes, the eagle-eyed reader will have noticed that I have mentioned its damning methodological flaw already: it looked at those who spend "one hour a week online". Of course, now that I have spelt it out, you will find it risible, but I must say it is shocking to find yet another example of supposedly intelligent people spouting off on a subject about which they clearly know nothing. It is obvious: you cannot spend just one hour online per week. It is ridiculous. It is preposterous. It is, as a geek would probably tell you, "too fine a level of granularity".

What they probably meant to say, these so-called scientists in their fancy white coats with their pocket protectors attached incorrectly, is that they were studying sessions of more than one hour each. For, email blinking aside, it is impossible to be online much

less than an hour at a time. Anyone who purports to do so is just not doing it properly. And the vain boast "Well, I have got a T1 line and can get everything done in a flash" cuts no mustard around here, mate. As everyone knows, faster connections to the internet do not less time online make. They just mean you get more done.

Rather late in my life I have discovered, to the united cheers of British Telecom shareholders everywhere, another net-based time and money displacement activity: online gaming. I missed the whole networked Doom thing because, frankly, mindlessly shooting aliens held no appeal for me. However, I have recently been "reviewing" — and I use that word in case Del reads this — a game called Tom Clancy's Rainbow Six, about leading a counter-terrorist team in various situations. It is simply brilliant and just sucks great chasms out of my time-space continuum. The one problem with it is that both the computer-controlled "tangoes", as we TC pros call them, and many of my own troops, are suicidally moronic.

I need real people controlling them. Hop over to the (free) Internet Gaming Zone and you can get all the

Email blinking aside, it's impossible to be online

MUCH LESS THAN AN HOUR AT A TIME.

Anyone who purports to do so just isn't doing it

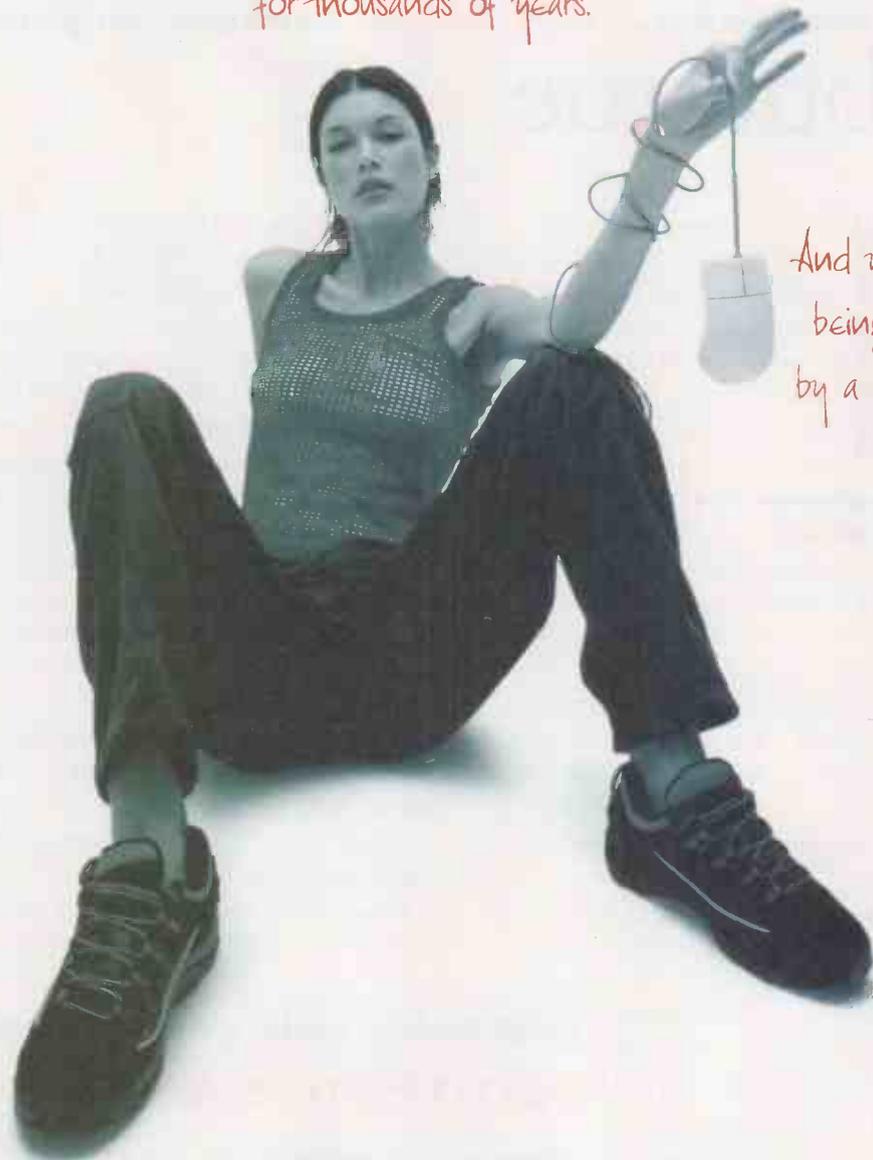
properly. It's too fine a level of granularity

real people you need. It is dead simple to join games. Just choose a game, and that game's host will launch the game on your PC and you're in. It is *sooooo* cool! And, despite being in the far-flung UK and possessor of a bandwidth-challenged dialup connection, I have no latency problems whatsoever.

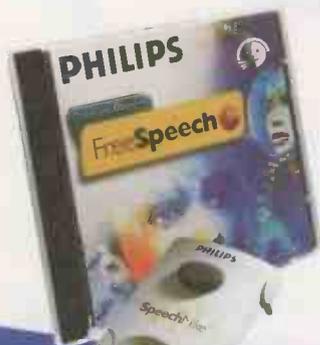
All this adds up to whacking great phone bills. I am still awaiting a response from British Telecom about my 0.5p a minute at all times Friends & Family ISP proposal, and I am off now to the launch of its Home Highway ISDN-for-everyone launch to see whether that will be any cheaper — or at least free to journalists. And all this as I wait to be asked to join the West London ADSL trial. Now, with so much excitement going on in my life, who dares call me sad?

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SILLY BURGLARS

I liked your review of CyberAngel 2.0 (Reviews, PCW September) but a fundamental problem springs to mind. If a "sensible" burglar were to reformat the hard disk and install the

umpteenth copy of Windows 95 off a bootleg CD before selling it on, where would that leave CyberAngel?

NICKY BIANCHI
bianchi@orbit.net.mt

Conspiracy Theory

With the significant advances in hardware performance over the years, software applications should now perform at the speed of light. But thanks to Windows, this is sadly not the case. Perhaps the hardware and software manufacturers are actively or passively in league here? After all, nothing perks up the sales of hard disks, memory chips and application-software upgrades quite like the latest Windows release. A slim Windows-compatible OS, including all the best Windows features present and past but abandoning the increasing amount of dross and bloat, and enabling all of us to work faster and cheaper... now that would certainly attract my attention and my money.

RICHARD BROWNING wintonhouse@clara.nt

PCW replies > Hang on, wouldn't Windows CE fit the bill? Just imagine, a Windows 95 lookalike, complete with the pocket Office applications running adequately on a PC spec of yesteryear. It's probably understandable that Microsoft isn't keen to dish out an Intel version on floppies for us to try.

LETTER OF THE MONTH

Net Loss

Demon Internet and now Virgin Net have largely succeeded due to low price and the necessity for you to get your own content on the web. Frankly, they could put information on how to watch paint dry on their own servers as far as I care. I can watch BBC TV (for which I already pay £91.50 a year) to get

PCW replies > Our October Reliability Survey indicated that PCW readers agree with you, Kenneth: content-free ISPs are their preferred choice. We hope you enjoy viewing web sites and avoiding any unique ISP content with your star prize of a Taxan 17in monitor.

the news, weather and share prices, or I can switch on the radio. I can read newspapers at between 30p and 50p a day and magazines of any description for up to a fiver a month. In short, there is nothing, based on an ISP's own content, worth inflating my phone bill for. As long as it has information on re-configuration in case I change my email package, or something fundamental about my connection method, or a damn good 24-hour helpline, that is all I need.

KENNETH HENRY kennethh@netcomuk.co.uk

NOTE: Many thanks to everyone who has written to us with their comments on the new-look PCW. The postbags have literally been overflowing, but please keep your feedback coming. If you have any strong feelings, good or bad, about our new look, don't hesitate to contact us at newlook@pcw.co.uk

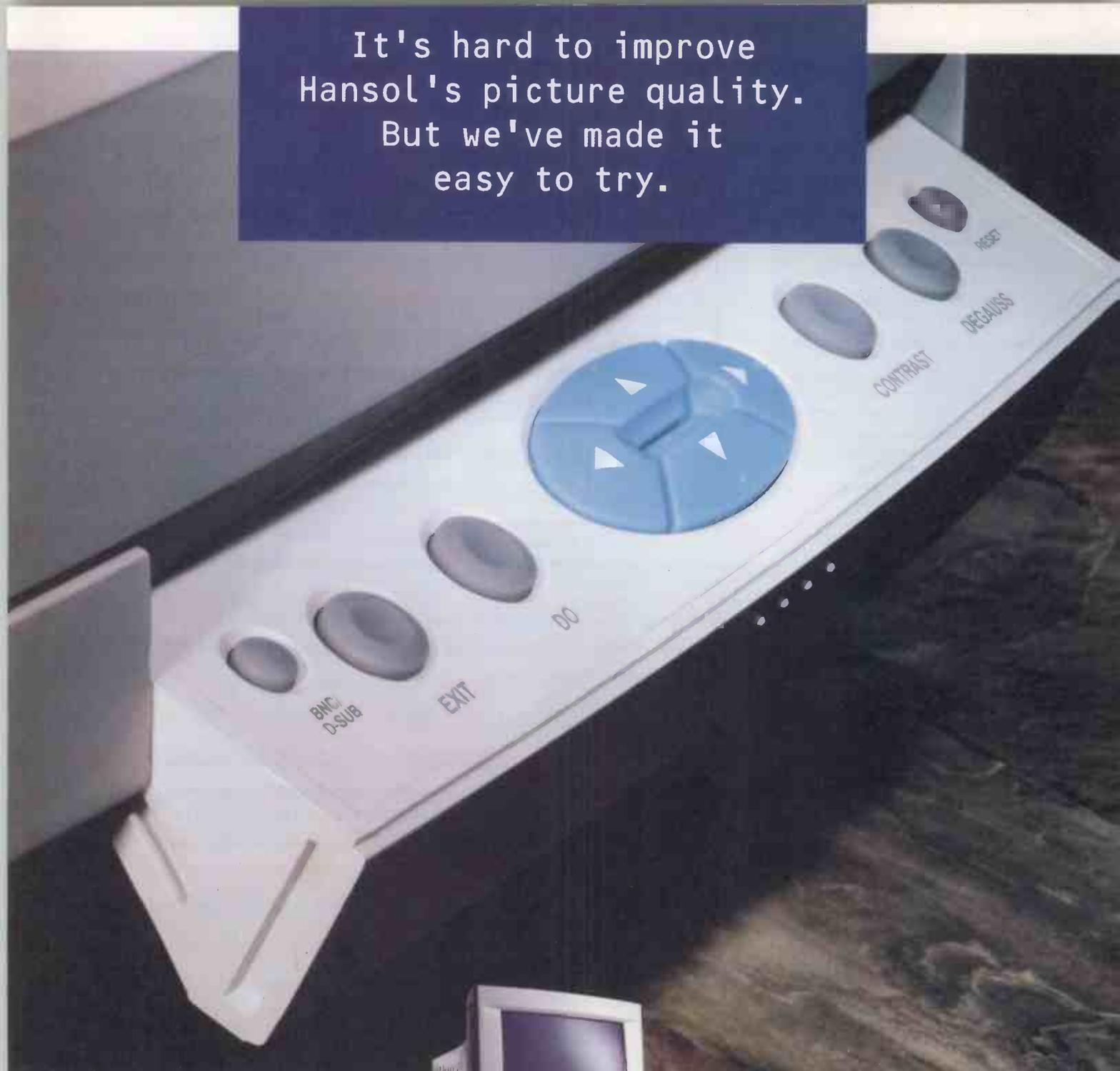


MAC THE KNIFE

I am a Mac user. When a friend gave me a copy of your magazine with a review of Apple's new G3 PowerBook (September) I prepared myself for the worst. I would, however, like to thank you for an outstandingly refreshing, open and honest review. I avidly buy the two major Mac magazines, and, I am afraid to say, I doubt I will ever read a fair review like that about one of the "opposition's" products. Thank you again!

STEVEN
s.william@ndirect.co.uk

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Damn Yankees

As an English computer user I am becoming more and more frustrated with the IT world. Granted, the internet started in the United States and Microsoft is American, but I still don't think that the way we are treated by these companies is at all fair. We always get the latest software far later than in the US, whether it be games or simple software patches or fixes. AOL conducts general maintenance of its systems periodically, and this involves a certain amount of downtime of systems such as mail or perhaps chat and so on. However, AOL does not wish to inconvenience its American customers, so it performs this maintenance during the night, in US time zones. Unfortunately for anyone living outside the "Land of Opportunity", this occurs smack bang in the middle of the daytime. But of course, AOL does not try to develop a way of making things better by developing a parallel mail server to take over during such operations.

ANTHONY MITCHELL Anton25@aol.com

Jonathan Bulkeley, md of AOL, replies >

Upgrades and maintenance are essential to ensure that AOL provides the best possible service to members worldwide. As the

servers are located in the US, the majority of work must be carried out there, but we always try to minimise the disruption through careful scheduling. However, in looking for ways to reduce any inconvenience to members, we adopted a new policy earlier this year of rolling maintenance and upgrade work. This means that instead of all members being unable to access a particular service, only a small percentage (for example, generally around five percent for mail) is affected by the work and this tends to be for shorter periods than previously. This move has been welcomed by members in the UK and across Europe.

SHOOT THE ROUTER

Gary Wooding's letter about automatic routing on switchboards (*PCW October*) is spot on. However, he does not mention the most annoying feature of all. When you use a cordless phone with the keypad built into the handset, the call is a continuous pantomime of holding the receiver to your ear to hear what's required — thus missing the chance to press the keys for what you need — alternating with holding the receiver in front of you to press the buttons so you can't hear the recorded message, and you fail to do what's necessary. The upshot is you have to go through the whole thing two or three times as a rehearsal in order to get it right.

JOHN DEAN

john-dean@msn.com



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TOP TIP

Most people I know have problems with their mouse after a few months. Invariably, the rollers have become caked with dirt, impairing the mechanism and leading to jerky, imprecise movements. I recommend using a shiny-surfaced mouse mat which is occasionally cleaned with furniture polish. It makes the mouse smoother to use and prolongs the interval between cleaning.

GRAHAM DERRICK

gderrick-alderhey@mail.u-net.com

THE EMAIL OF THE SPECIES

Why do organisations publish email addresses if they don't use them? I recently moved house and sent out change of address notices to all the relevant organisations that published an email address. The response? A certain mobile-phone network kept sending bills to my old address. When I rang and told them that I had informed them by email of my move, their response was: "We don't check email, another department does that". A large motoring magazine: "Oh, someone else in the parent company must have picked up that message, it's up to them whether they forward it to us." Yet another: "An email address for the membership department! What is it?" So, if you have an important message to send, don't do it by email!

DAVID BARON dpbaron@hotmail.com

MICROSOFT SOFTWARE FOR THE OVER-FIVES

Following John Skinner's letter (*PCW October*) regarding the sale and use of Microsoft products, I have a couple of points. Anyone aged five years or over in full or part-time education at a DfEE registered educational institution is eligible to purchase the software. You will need to have your coupon verified by your school or college before Microsoft will ship the software to you, though. Subject to school offices being closed during holiday periods, there is no other reason why existing students should not be able to obtain the software before starting university or college. With regard to the disappointment expressed that very little, if any, paperwork comes with edu-pack software, take heart, John. Even the full retail Microsoft products come with very little paper-based documentation nowadays, such is the extent and perceived benefits of online help/documentation. Visual C++, for instance, has not shipped with a full set of "free" paper manuals since v1.5 in 1993.



NIGEL MELLOR nigel@osdtd.demon.co.uk

Irreconcilable Differences

I cannot believe you have the gall... the pure and irresponsible lack of concern for your readers. I loaded your cover-mounted CD-ROM, quickly browsed through the items, and just as I was about to close down

I noticed under "Audio" a header called "Rave eJay". I installed it. Well, you will soon be getting a letter from my wife, and possibly her solicitor, headed "Failure to Meet Marital Commitments". And one from my neighbours for the noise level. I can't stop myself... I'm changing career to become a full-time mixer.

ROBERT PANDORAS
@breathe.co.uk

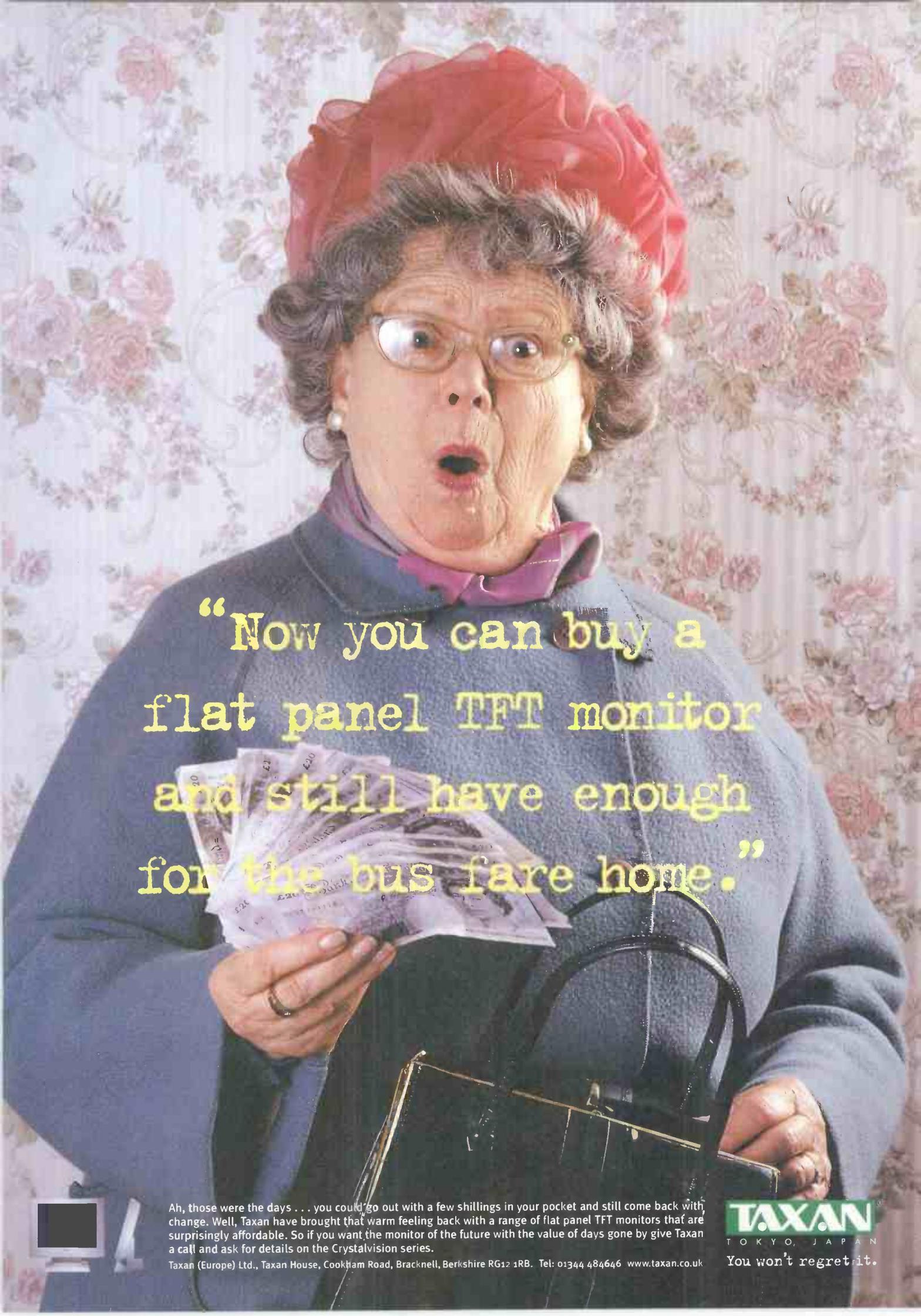
LAUGHING ALL THE WAY TO THE BANK

Regarding Mr Wong's letter (*PCW September*), connection costs in the UK are not just bad compared to the US, which, with its 200 million population, can be expected to be far more competitive, but they're also terrible compared to Australia with its 18 million population and a couple of phone companies. You can get connected for about AU\$30 per month (about £12.50) and, aside from the 30c *only* local call fee to dial in, that's the end of the bill-paying. The range of ISPs provide everything, from pay-as-you-go to unlimited time/data downloads for this price. Since having moved to the UK, I've been shocked at how expensive it is to connect here, and at the poor speed and service of the UK's (London) ISPs. Why is it so expensive? What "extra" service is provided?

Whatever happened to the great cable revolution that was going to deliver ISDN-speed data lines, along with great cable TV and phone lines, to every home? How do the phone companies justify charging per minute when the population of users is so much larger and the technology is generally at such a low level?

TONI S tonis@dircon.co.uk

CLIVE AKASS replies > BT may offer us xDSL connections at 1Mbit/sec next year, albeit at premium rates. Cable companies got bogged down trying to flog entertainment in the satellite-dominated UK market (cable rules satellite in the US, where most of them originated). There has been a big shakeout in the cable world this year and, with competition from digital broadcasting, you can expect changes to occur thick and fast over the coming months. The hope is that this will bring prices down, too.



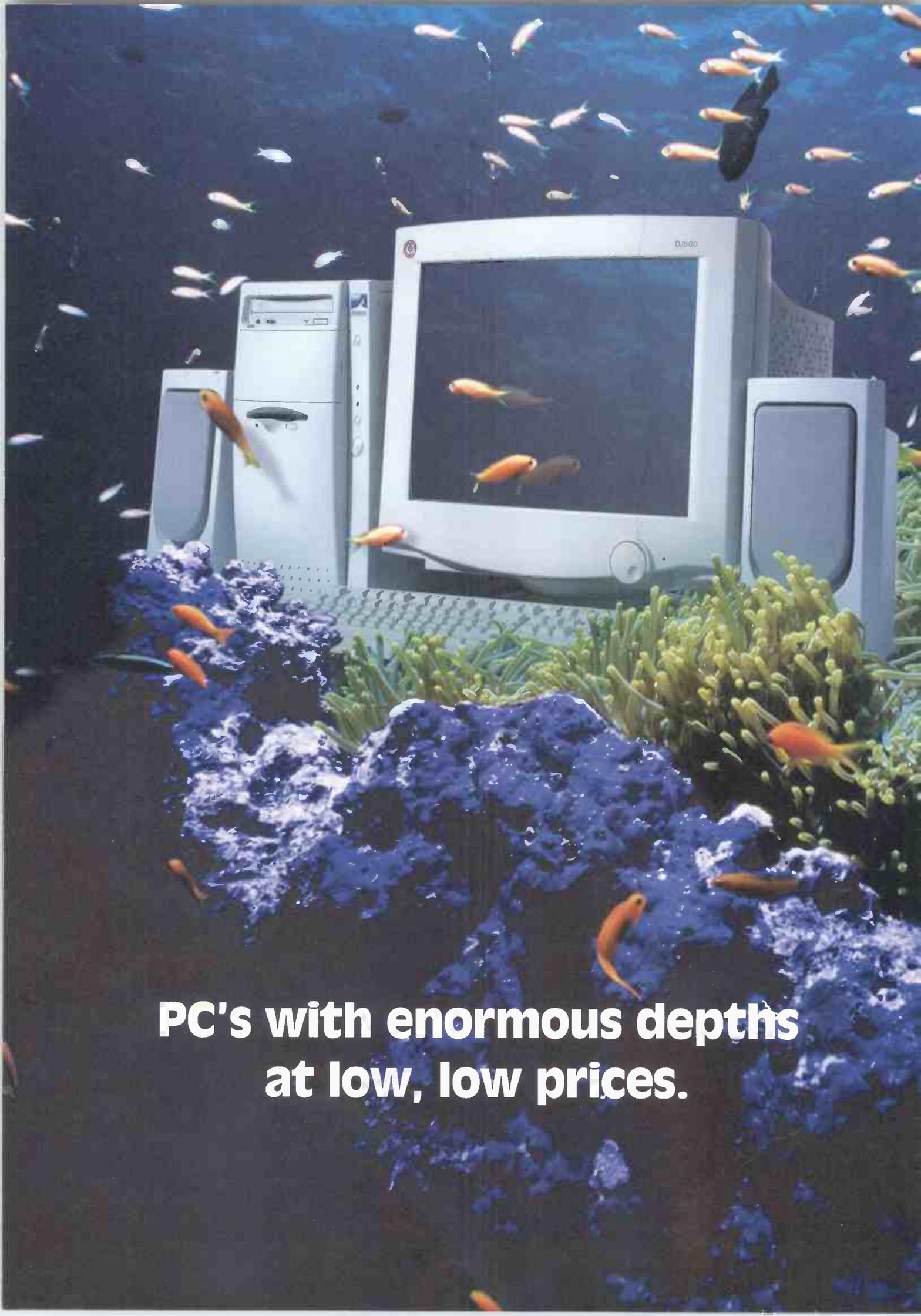
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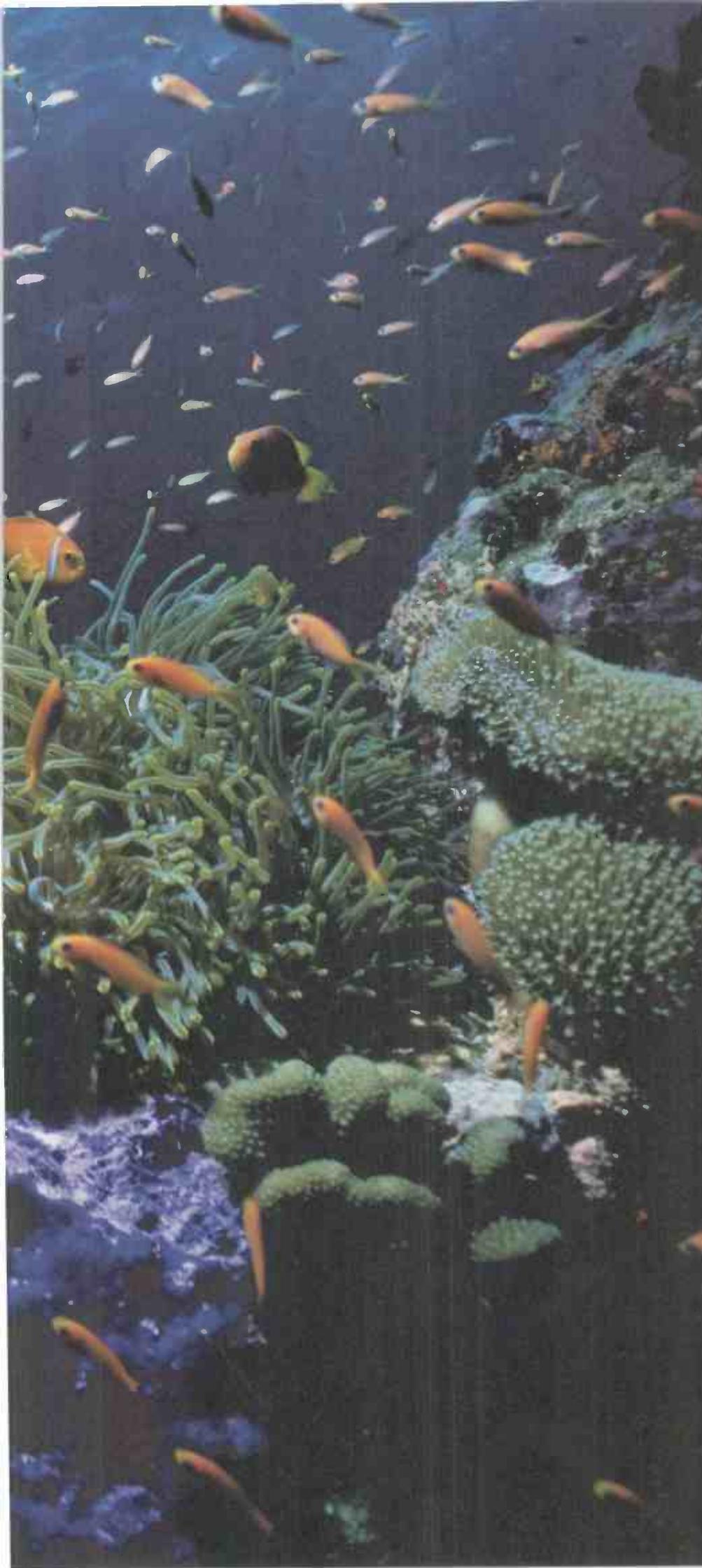
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NEXUS



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

£1259

- Intel Pentium® II Processor
- Intel® 440BX AGP set
- 512k Internal cache
- 128Mb SDRAM, expandable to 768Mb
- 8.4Gb Ultra DMA hard drive
- LS-120Mb Superdisk™ drive (Iomega® 100Mb Internal Zip™ drive alternative)
- ATI® Xpert 98™ 8Mb 3D AGP graphics card with MPEG DVD decoding
- 17" 0.28 SVGA colour monitor
- DVD-ROM x2 drive
- Aureal® A3D™ 64 voice PCI soundcard
- 300 Watt (PMPO) stereo speakers
- 56k voice fax & data modem
- 105 Key Windows® 98 keyboard & mouse
- ATX mini tower or desktop case
- 4 PCI & 2 ISA slots 1 AGP
- 2 USB ports
- Headset Microphone

- **SOFTWARE**
Microsoft® Windows 98*

AGP enhanced software bundle:
Red Line Racer, G-Police, Tonic Trouble, O-Zone, Beyond the Third Dimension, F22 Air Dominance Fighter.

Lotus SmartSuite 97 including:
WordPro 97, Organiser 97, 1-2-3 97, Approach 97, Freelance Graphics 97

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 97
IBM Via voice continuous dictation software
IBM Antivirus 3

Pipex Dial 5 - one months free Internet access account. No credit card required. (Software supplied on CD-ROM with on-line documentation where appropriate).

PROTEUS



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 second generation DVD-ROM drive, the Proteus represents superior performance and future proofing which will satisfy the most demanding PC power user.

£1499

- Intel Pentium® II Processor
- Intel® 440BX AGP set
- 512k Internal cache
- 128Mb SDRAM, expandable to 768Mb
- 13.6Gb Ultra DMA hard drive
- LS-120Mb Superdisk™ drive (Iomega® 100Mb Internal Zip™ drive alternative)
- ATI® Xpert 98™ 8Mb 3D AGP graphics card with MPEG DVD decoding
- 19" 0.26 SVGA colour monitor
- DVD-ROM x2 drive
- Aureal® A3D™ 64 voice PCI soundcard
- 300 Watt (PMPO) stereo speakers
- 56k voice fax & data modem
- 105 Key Windows® 98 keyboard & mouse
- ATX mini tower or desktop case
- 4 PCI & 2 ISA slots 1 AGP
- 2 USB ports
- Headset & Microphone

- **SOFTWARE**
Microsoft® Windows 98*

AGP enhanced software bundle:
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Lotus SmartSuite 97 including:
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Corel Draw Suite 7 Select Edition Inc.:
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IBM Worldbook Encyclopedia 97
IBM Via voice continuous dictation software
IBM Antivirus 3

Pipex Dial 5 - one months free Internet access account. No credit card required. (Software supplied on CD-ROM with on-line documentation where appropriate).

PC UPGRADES

HP CD Writer Plus 8100i
One of the fastest CD Writers available the new HP8100i features up to 24 speed read and 8 speed write. CD-RW format time now reduced from approx 70 to only 5 mins. Includes free CD-R and CD-RW disks and CD authoring and backup software.
£249 +VAT (£292.58 Inc)

Desktop Imaging Bundle -
Award winning printer / scanner bundle. Umax Astra 610P 3600bit flatbed scanner with Epson Stylus 440 Colour printer and Adobe PhotoDeluxe photo-editing software. Bi-directional parallel cables included.
£185 +VAT (£217.38 Inc)

Iomega Zip drive 100Mb internal
£59 / £69.33 Inc VAT

LS 120Mb 3.5" Disk Drive
£59 / £69.33 Inc VAT

PCI 10/100 baseT Network Card
£29 / £34.08 Inc VAT

Lexmark 1000
Colour printer, superb value.
£89 / £104.58 Inc VAT

HP-690c+
Windows Inkjet printer, 300dpi resolution - Excellent quality.
£129 / £151.58 Inc VAT

HP-6L
Windows & DOS laser printer from the market leader.
£239 / £280.83 Inc VAT

HP-890c
Windows Inkjet printer, 600 x 600dpi resolution - Award Winning Quality.
£199 / £233.83 Inc VAT

Compact PC Digital Camera
£125 / £146.88 Inc VAT

Monitor Upgrades
15" -19" upgrade £249 / £292.58 Inc VAT

Flat panel displays
High quality DSTN and TFT flat panel displays are now available to replace conventional CRT monitors in environments where either space or heat constraints make CRT use less suitable. Please call for flat panel display upgrade option.
From £499 / £586.33 Inc VAT

MS Office Pro 97 Upgrade: Word 97, Excel 97, Powerpoint 97, Outlook 97, Works, Access 97
£249 / £292.58 Inc VAT

Microsoft® Office 97 SBE upgrade:
Word 97, Excel 97, Publisher 97, Small Business Financial Manager 97,

NOTEBOOK UPGRADES

Autoroute Express GB, Outlook 97.
£159 / £186.83 Inc VAT

Mini Docking Station

Port replicator and network connectivity in a portable format
£129 / £151.58 Inc VAT

56k PCMCIA fax modem
£99 / £116.33 Inc VAT

Notebook storage options

LS-120Mb Superfloppy £109 / £128.08 Inc VAT
Iomega 100Mb Zip Drive £109 / £128.08 Inc VAT
DVD-ROM x2 drive £249 / £292.58 Inc VAT

Worldwide Warranty

Atlantic Panacom notebooks are covered by a worldwide collect & return warranty. If your Panacom notebook has a problem anywhere in the world, we'll collect, repair & return it to you usually within 72 hours.

WARRANTY

All Atlantic PC systems comes 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. Extended hours support line is offered for assistance whenever you need help or advice on service or upgrading.

What the papers say

Personal Computer World
"Atlantic have put together an undeniably impressive package. The Proteus was an impressive overall performer, scoring well in our tests. We were won over by the performance of the 19" monitor.
Conclusion: A generous package for techno-junkies
(Atlantic Proteus 400MHz PCW Sept '98)

PC Home
"This is a fast machine, is upgradable and has great build quality. Setting it up was very easy. The Atlantic Systems Axis makes a convincing case for an all-round family PC."
(Atlantic Axis 333MHz PC Home Sept '98)

PC Advisor
"...this Atlantic machine performed confidently throughout our rigorous testing procedures. The Atlantic gives good performance for an excellent price."
(Pro 97 Recommended PC Advisor Sept '97)

PC Home
"A damn fine machine. The Atlantic PC was head and shoulders above the others."
(Pro 98 PC Home Jan '98)

Buy now pay later

Atlantic offer standard finance (17.9%APR) or the option to buy now pay later 0% interest free if you prefer. 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 six months to make 24 monthly payments, 23.9% APR.

Windows 98

All Atlantic PC's are always supplied as standard with Windows™ 98, with full support for Universal Serial Bus. USB support gives you the ability to easily add upgrades to your system such as video conferencing without fuss-simply 'plug & play'. We can also configure Windows98 multiple monitor support for graphics applications users.



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PD2000-1



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EDUCATIONAL LEASING



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INSURED PARTS AND
LABOUR WARRANTY
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Intel Pentium® II Processors

350MHZ £1259 Inc VAT £1501.65 *Per Month £47.95

400MHZ £1359 Inc VAT £1619.15 *Per Month £51.70

450MHZ £1459 Inc VAT £1736.65 *Per Month £55.46

Nexus 450G

Spec as Nexus 450 with ATI® 8Mb All-In Wonder AGP TV tuner/video input & 3DFX 12Mb Voodoo2 3D graphics

450MHZ £1699 Inc VAT £2018.65 *Per Month £64.46

Intel Pentium® II Processors

350MHZ £1499 Inc VAT £1783.65 *Per Month £56.96

400MHZ £1599 Inc VAT £1901.15 *Per Month £60.71

450MHZ £1699 Inc VAT £2018.65 *Per Month £64.46

Proteus 450LVD

Spec as Proteus 450 replacing hard disk with Seagate Cheetah SCSI LVD (80Mb/sec) 9.1Gb HDD & Adaptec 2940u2w controller

450MHZ £2399 Inc VAT £2841.15 *Per Month £90.73

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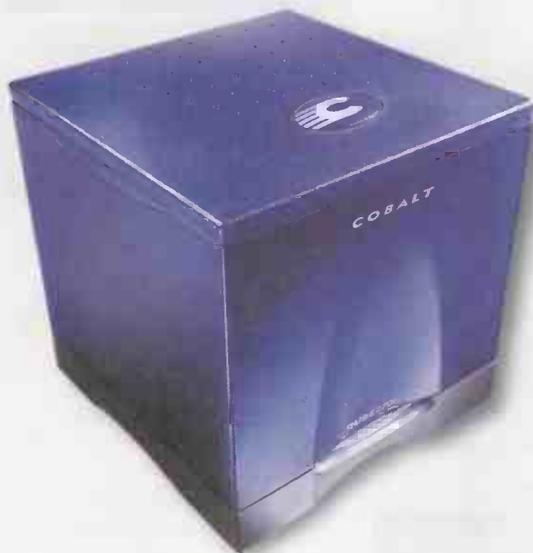


◀ Silver Machine

While other manufacturers continue to produce ever larger and more vulgar speakers, Sony has done its usual trick of outclassing all of them. The SRS-Z1000PC speakers are small but superbly made. They're clad in a weighty metal housing, and the drive units look like mini versions of real hi-fi speakers. They've got two inputs, so you can hook up your computer and your hi-fi at the same time. The lack of a subwoofer is made up for by the sheer quality of the drive units.

Price £147 (£125 ex VAT)

Contact Sony
0990 424424
www.sony.com

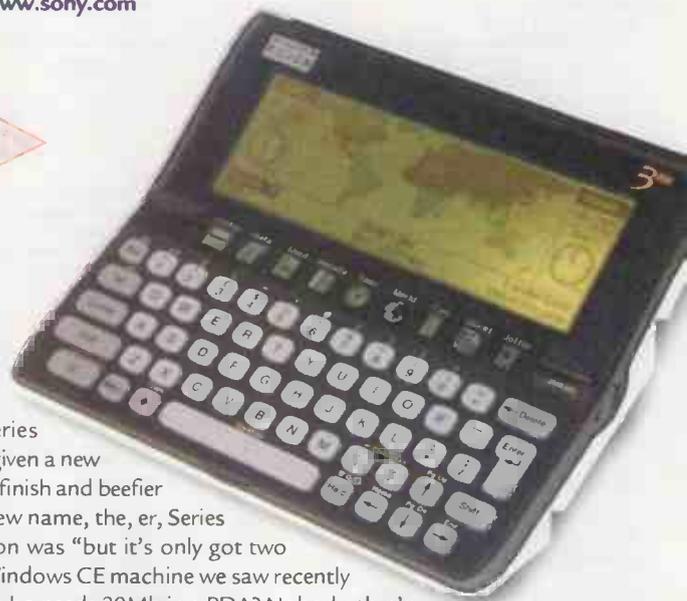


Back to the Future ▶

Look familiar? Everyone loves retro, but this is an oldie with a new twist. Psion's series .3a/3c design has been given a new lease of life with a sexier finish and beefier processor, plus a fab new name, the, er, Series 3mx. Our initial reaction was "but it's only got two megs of memory!" A Windows CE machine we saw recently had 10 times that. But who needs 20Mb in a PDA? Nobody, that's who, except maybe mad people.

Price £269.95 (£230 ex VAT)

Contact Psion 0990 143050
www.pSION.com



△ Blue Condition

Cor! In our opinion, a boring-old server has absolutely no business looking this sexy. For that's what it is — the CobaltMicro Qube is a Pentium 200, designed as a basic small business internet/intranet and email server for installation with the minimum of fuss. But that means it's liable to be shoved in a corner and forgotten about, which would be verging on criminal. The little sweetie's less than a foot square, so we'd be tempted just to stick it on a shelf and look at it. Full review next month.

Price From £935 (£795 ex VAT)

Contact Mintra 0161 256 4030
www.cobaltmicro.com

Digit(al) Joy ▼

Question: how many buttons and switches are there on a Gravis Xterminator gamepad? Answer:

loads, but we kept losing count.

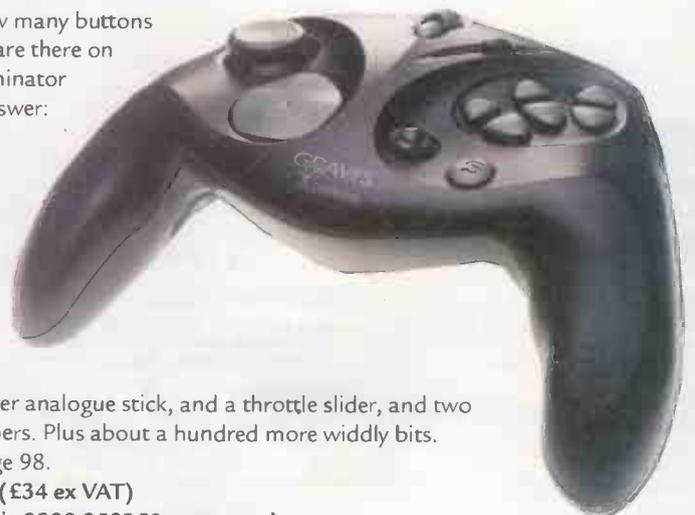
"Festooned" is a word that springs to mind — with

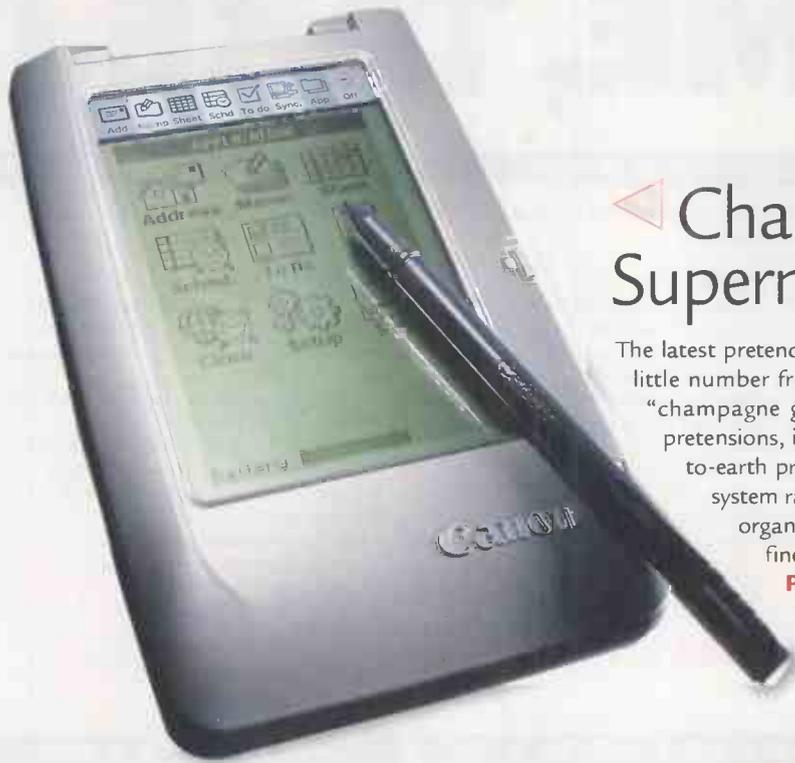
buttons, that

is. And a proper analogue stick, and a throttle slider, and two analogue flippers. Plus about a hundred more widdly bits. Review on page 98.

Price £39.95 (£34 ex VAT)

Contact Gravis 0800 252359 www.gravis.com





◀ Champagne Supernova

The latest pretender attempting to wrest Psion's PDA crown is this little number from Canon. The colour is officially described as "champagne gold" — 'nuff said. But despite its high-society pretensions, it's a good-old East End lad at heart with a down-to-earth price, running as it does on Canon's own operating system rather than Windows Palm CE. This puts it into the organiser rather than palmtop-computer league, which is fine if that's all you want from your handheld.

Price £150 (£128 ex VAT)

Contact Canon 0181 451 6600

www.canon.co.uk

The White Stuff ▶

Despite the fact that the internet's bandwidth is decreasing rather than improving, companies continue to try and tell us that internet video cameras are a Good Idea. At least Logitech has put some flair into the design of the QuickCam Home. It's pushing the camera not as an internet videoconferencing tool, but as a means of sending "video email", and has done some clever things with compression and such-like to reduce file sizes. Who knows, it could catch on.

Price TBC **Contact** Logitech 0181 308 6582 www.logitech.com



◀ Kids' Stuff

If, like one particular member of PCW's editorial team, you spent your entire childhood sitting cross-legged in front of an enormous box of plastic building bricks absorbed with constructing an even bigger car/spaceship/robot than the last one, this will make your day. Merge the sad hobby of your childhood, i.e. Lego, with the sad hobby of your adulthood, i.e. computers, and *voilà!* You have Lego Mindstorms, the best reason yet to find a partner and produce sprogs. Review on page 92.

Price £160 (£136 ex VAT)

Contact Lego 0845 606 2043

www.legomindstorms.com

Filmtastic ▶

More retro! Only this time it's unintentional, we think. The Panasonic DVD-L10 is a bang-up-to-date portable DVD movie player.

Only it looks just like CD players from the time when TV presenters were unaccountably spreading peanut butter on the discs and trying to convince us that this was a real advantage of the format. But whatever, it's so hip and happening and now and trendy that our esteemed Editor himself has deigned to review it on page 91.

Price £999 (£850 ex VAT)

Contact Panasonic 0990 357357

www.panasonic.co.uk



THIS TIME, TAKE IT

Notebook



SAVANNAH

- Intel® Pentium® Processor with MMX™ Technology 166MHz
- 32MB EDO RAM
- 256KB cache
- 2.1GB EIDE hard drive
- 128-bit PCI video with 1.5MB DRAM
- 12.1" TFT SVGA colour screen (800 x 600, 64K colours)
- Swappable floppy drive and 20 speed IDE CD-ROM drive
- Lithium ion battery with 5 hours' life
- Keyboard and touchpad pointing device
- 1 x PC Card type III or 2 x PC Card type II slots
- 1 x parallel, 1 x serial, 1 x PS/2, 1 x infrared, 1 x USB port
- Dimensions: 298 x 243 x 40mm (WxDxH)
- 16-bit stereo sound; built in microphone & speakers
- Optional port replicator
- Microsoft Windows 98 and Office 97 SBE pre-loaded

£1,175.00 £1,380.62 inc VAT

SAVANNAH ELITE

- Mobile Intel® Pentium® II processor 266MHz
- 512KB pipeline burst cache
- 64MB SDRAM
- 4.1GB Ultra DMA hard drive
- Neomatic PCI Video Chipset with 2MB RAM
- 14.4-inch TFT XGA 1024 x 768 colour screen
- Internal 24 speed IDE CD-ROM drive (removable)
- Built in wavetable synthesis
- 1 x PC Card type III and 1 x PC Card type II slots
- PS/2 Touchpad interface
- 1 x parallel, 1 x serial, 1 x PS/2, 1 x infrared, 1 x USB ports
- Dimensions: 264 x 318 x 54mm (WxDxH)
- Built in stereo speakers and microphone
- Built in Digital PC Camera
- Mini Dock Interface Connector
- IRDA and Games/Midi Port Interface
- Li-ion battery
- Microsoft Windows 98 pre-loaded

£1,895.00 £2,226.63 inc VAT

Low profile desktop



PC-6350N/I

- Intel® Pentium® II processor 350MHz
- Intel 440BX AGPset
- 512KB cache
- 32MB SDRAM (100MHz)
- 3.2GB Ultra DMA hard drive
- 32 speed IDE CD-ROM
- On board Intel 740 AGP with 8MB SDRAM
- On board 16-bit PCI audio (Yamaha 740)
- On board Intel 10/100Mbps Ethernet with Wake on Lan
- 2 x PCI, 1 x PCI/ISA shared slot
- 15-inch colour monitor
- 1 x ECP/EPP parallel, 2 x 16550A serial, 2 x USB
- Dimensions: 420 x 420 x 115mm (WxDxH)
- 105-key Windows 95 UK keyboard, Microsoft Intellimouse
- Microsoft Windows 98 pre-loaded
- Intel LANdesk Client Manager (DMI 2.1)
- Intel WFM 1.1a
- Advanced bios virus protection

£855 £1,004.63 inc VAT

PC-6400N/I

- Intel® Pentium® II processor 400MHz
- Intel 440BX AGPset
- 512KB cache
- 64MB SDRAM (100MHz)
- 8.4GB Ultra DMA hard drive
- 32 speed IDE CD-ROM
- On board 16-bit PCI audio (Yamaha 740)
- ATI Xpert98 AGP 2X 8MB SDRAM
- 2 x PCI, 1 x PCI/ISA shared slot
- 15-inch colour monitor
- 1 x ECP/EPP parallel, 2 x 16550A serial, 2 x USB
- Dimensions: 420 x 420 x 115mm (WxDxH)
- 105-key Windows 95 UK keyboard, Microsoft Intellimouse
- Microsoft Windows 98 and Office 97 SBE pre-loaded
- Intel LANdesk Client Manager (DMI 2.1)
- Intel WFM 1.1a
- Advanced bios virus protection

£1,180 £1,386.50 inc VAT

Mini tower desktop



PT-5233/X

- Intel® Pentium® processor with MMX Technology 233MHz
- 512KB cache
- 32MB SDRAM
- 2.1GB Ultra DMA hard drive
- ATI 3D Charger 4MB EDO
- 4 x PCI, 2 x ISA, 1 x PCI/ISA shared slot
- 32 speed IDE CD-ROM
- 15-inch colour monitor
- 1 x ECP/EPP parallel, 2 x 16550A serial, 2 x USB
- Dimensions: 180 x 415 x 341mm (WxDxH)
- 105-key Windows 95 UK keyboard, Microsoft Intellimouse
- Microsoft Windows 98 pre-loaded

£525 £616.88 inc VAT

PT-6300/I

- Intel® Celeron processor 300MHz
- 128KB full speed cache
- 32MB SDRAM
- LS-120 floppy drive
- 4.3GB Ultra DMA hard drive
- ATI Xpert98 AGP 2X 8MB SDRAM
- PCI 32-bit ProSound card
- 2 x PCI, 2 x ISA, 1 x PCI/ISA shared slot
- 32 speed IDE CD-ROM
- 15-inch colour monitor
- 1 x ECP/EPP parallel, 2 x 16550A serial, 2 x USB
- Dimensions: 180 x 415 x 341mm (WxDxH)
- 105-key Windows 95 UK keyboard, Microsoft Intellimouse
- Microsoft Windows 98 pre-loaded

£705 £828.38 inc VAT



All Elonex PCs are based on Intel® Pentium® processors and pre-loaded with Windows 95 as standard. Prices and configurations are subject to change without notice. Microsoft is a registered trademark, Windows 95 is a trademark of Microsoft Corporation. The Intel Inside logo and Pentium are registered trademarks and MMX is a trademark of Intel Corporation.

FROM ELONEX

Compact desktop



Book PC

- Intel® Pentium® Celeron processor 333MHz
- 128KB full speed cache
- 64MB SDRAM (100MHz)
- 4.3GB Ultra DMA hard drive
- On board ATI Rage Pro 4MB SGRAM
- On board 16-bit sound
- On board Intel 10/100Mbps Ethernet with Wake on Lan
- 1 x PCI, 1 x PCI/ISA shared slot
- 15-inch colour monitor
- 1 x ECP/EPP parallel, 2 x 16550A serial, 2 x USB, 1 x IR
- Dimensions: 280 x 350 x 85mm (WxDxH)
- 105-key Windows 95 UK keyboard, Microsoft Intellimouse
- Microsoft Windows 98 pre-loaded



PC PRO,
AUGUST 1998

£735 £863.63 inc VAT

Entry level desktop



PC - 5 2 3 3 H / X

- Intel® Pentium® processor with MMX™ Technology 233MHz
- 512KB cache
- 32MB SDRAM
- 2.1GB Ultra DMA hard drive
- Built-in ATI Rage pro with 4MB SGRAM
- 2 x PCI, 2 x ISA slots
- 24 speed IDE CD-ROM
- 14-inch colour monitor
- 1 x ECP/EPP parallel, 2 x 16550A serial, 2 x USB
- Dimensions: 420 x 413 x 106mm (WxDxH)
- 105-key Windows 95 UK keyboard, Microsoft Intellimouse
- Power management features
- Microsoft Windows 98 pre-loaded
- Intel LANDdesk Client Manager pre-loaded

£495 £581.63 inc VAT

Workstation



PTX - 6 4 5 0 / I

- Intel® Pentium® II processor 450MHz
- Intel 440BX AGPset
- 512KB cache
- 128MB SDRAM (100MHz)
- 10.2GB Ultra DMA hard drive
- ATI All in Wonder Pro AGP 8MB SGRAM
- 3 x PCI, 2 x ISA, 1 x PCI/ISA shared slot
- 32 speed IDE CD-ROM
- IDE Travan drive 4GB (8GB compressed)
- Sonic Storm 64 Voice PCI sound card
- Creative Labs CSW100 speakers with subwoofer
- 19-inch colour monitor
- 1 x ECP/EPP parallel, 2 x 16550A serial, 2 x USB
- Dimensions: 216 x 416 x 445mm (WxDxH)
- 105-key Windows 95 UK keyboard, Microsoft Intellimouse
- Microsoft Windows 98 pre-loaded

£1,795 £2,109.13 inc VAT

ELONEX FINANCE

Personal Finance

Elonex Finance are offering its customers the opportunity to take advantage of buy now defer payment for 12 months (apart from a 10% deposit). If customers settle within this period then no interest will be charged, or pay the outstanding balance in 36 convenient monthly payments. Credit available subject to status. Quotations are available upon request.

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Practical IT

reviews

One of the major pieces of hardware news this month is the release of **APPLE'S iMAC**. There's been a huge amount of interest in it since its announcement, so we've been giving it the once-over. You'll find our verdict opposite. On the PC side of things, **PACKARD BELL** is going for the throat of the high-street computer market with its new offering. On the **TECHNO-WIDGET** front, we've got one revamped and one brand-new **PDA** for those who still haven't taken the palmtop plunge. And for those with more money than they know what to do with, **PANASONIC'S PORTABLE DVD VIDEO PLAYER** will



lighten your wallet by a few pounds. Continuing with the video theme, **OMEGA'S BUZ** gets our thumbs-up. The tidal wave of **NEW FLATPANELS** continues apace, with 15in and 18in offerings from two of the major names in monitors. There's a **FINANCIAL FLAVOUR** to our software reviews, with a couple of tax and accounting packages — an area where a PC can be a godsend. On the fun side, there's a great piece of **PDA SOFTWARE** that'll interest you if you're a Londoner.



DAVID FEARON, *REVIEWS EDITOR*
david_fearon@vnu.co.uk

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VNU European Labs



VNU Labs tests all kinds of hardware and software, from PCs to modems to databases. All our tests simulate real-world use and for the most part are based around industry-standard applications such as Word, Excel, PageMaker and Paradox. Our current PC tests for 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

Apple iMac Different by design

Cool-blue, translucent and compact. As an object of desire, the iMac scores highly inside and out.

“Apple forgot how to be different.” That was one Apple executive’s recent explanation for all the problems Apple has been through in the last couple of years. Well, it may not be perfect, but the iMac certainly is different. From the cool-blue translucent case to the tips of its translucent cables, the iMac boasts one of the most eye-catching designs that the personal computer industry has ever seen. You notice the main case first, of course, but a closer look reveals that the mouse is translucent as well, as are the keycaps on the keyboard.

The iMac is an utterly desirable object of technolust, no doubt about it. The surprising thing about it is that its insides are just as impressive as the outside. It’s a compact all-in-one unit that houses both the main motherboard and the 15in monitor. The iMac is aimed primarily at the consumer and education markets, so a compact and simple design was one of Apple’s main design aims.

All the cables feed into a small panel on the right-hand side of the unit. Pull the panel down and you can also see one of the system’s main innovations. It has no parallel or serial ports, or specific connectors for the keyboard and mouse: all its expansion options are provided by two USB ports. The keyboard connects to one of the ports and also acts as a hub that allows you to connect additional USB peripherals such as the mouse, digital cameras, scanners or external storage devices.

The only other connections with the outside world are the built-in 56K modem and the 100Mbit Ethernet interface. These two features add to the iMac’s value for money but they also bring us to one of its weaknesses: the machine has no floppy-disk drive. The

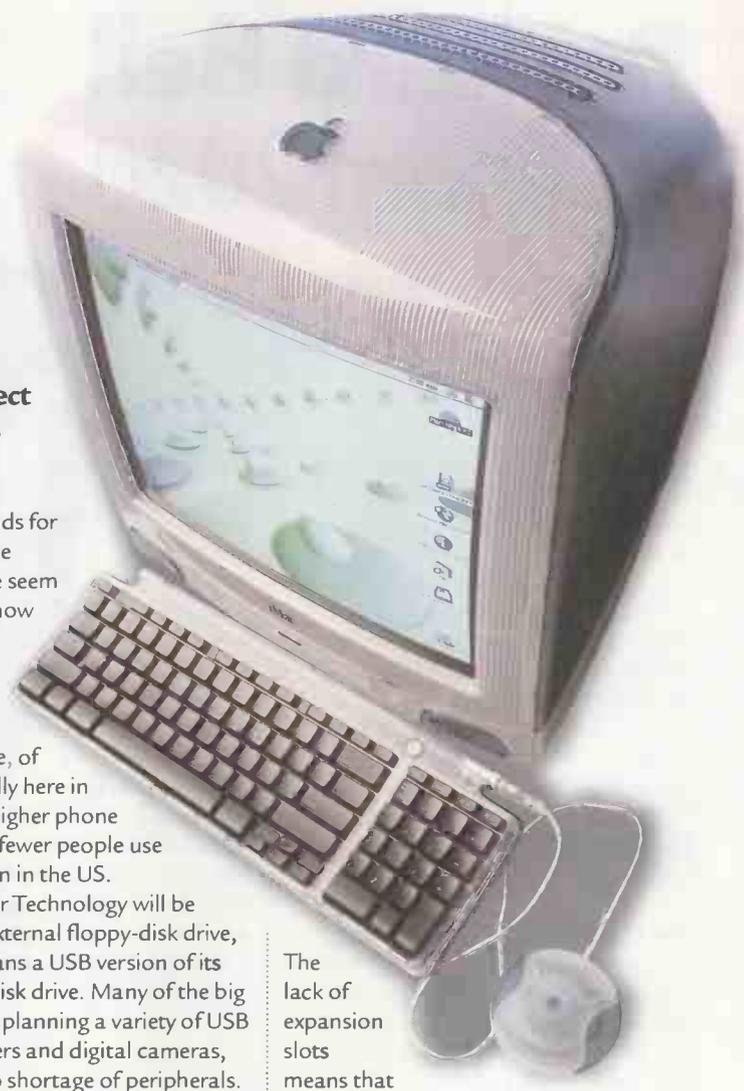
“i” in iMac stands for internet, and the people at Apple seem to think that’s how we can send all our files and documents to other people.

That’s nonsense, of course, especially here in Europe where higher phone bills mean that fewer people use the internet than in the US.

However, Newer Technology will be producing an external floppy-disk drive, and Imation plans a USB version of its 120Mb SuperDisk drive. Many of the big players are also planning a variety of USB printers, scanners and digital cameras, so there’ll be no shortage of peripherals.

The iMac represents excellent value for money. It is based on a 233MHz Motorola G3 PowerPC processor, with 512Kb of high-speed backside cache. Apple claims that the G3 is almost twice as fast as a Pentium II running at the same clock speed. In fact, its performance depends very much on the type of software you run on it, but there’s no denying it’s a fast machine.

The processor is backed up by 32Mb SDRAM, 4Gb hard disk, 24X CD-ROM and 56K modem. The graphics chip on the motherboard is an ATI 3D Rage IIc with 2Mb VRAM, which handles both 2D and 3D graphics. That’s just as well, because the iMac doesn’t have any expansion slots. If you want to boost 3D graphics performance you can increase the VRAM to 6Mb, but you don’t have the option of adding a dedicated 3D graphics card. The G3 processor and ATI chip can handle 3D games such as Quake and MDK with no trouble, but dedicated gamers who want their slots will have to buy one of Apple’s other models.



The lack of expansion slots means that the iMac won’t be suitable for all users. However, its striking and innovative design is well-suited for the home and education markets at which Apple is aiming. And, although it breaks the £1,000 barrier that is so important in the consumer market, the iMac still manages to pack in some pretty powerful hardware. Above all, the iMac proves that Apple has learnt to be different again, and it should sell bundles this Christmas.

CLIFF JOSEPH

PCW DETAILS



Price £999 (£850 ex VAT)

Contact Apple 0870 6006010

www.apple.com

Good Points Looks gorgeous. Good value for money.

Bad Points No floppy drive or PCI slots.

Conclusion A superb machine for the home or education, but serious gamers may prefer a machine with more expansion potential.

Packard Bell Platinum 2020

With its powerful, high-tech Platinum range, Packard Bell is cornering the **PC retail** market.

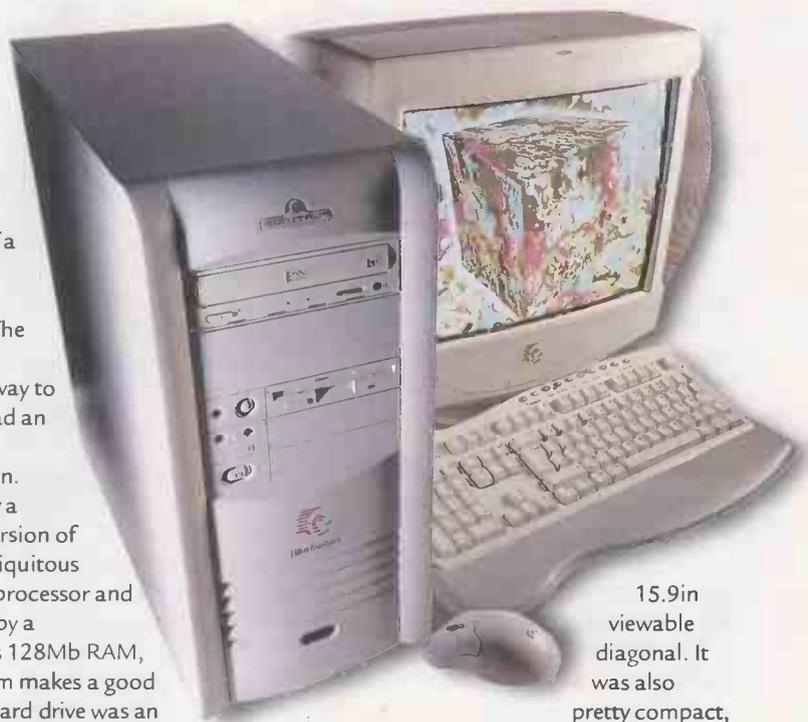
Packard Bell is up with the giants in the PC sales league. This is down to several factors. First, the company has a powerful brand. Second, and more pertinently, Packard Bell sells its PCs almost exclusively through the Dixons Stores group — so you'll see them in Dixons, PC World, Byte and Currys. Since there has been a certain shift towards buying PCs on the high street, Packard Bell has come out well. However, historically the machines themselves have tended to be respectable rather than outstanding, and perhaps slightly overpriced.

The Platinum range of PCs is designed to appeal to the advanced home user. They are well-specified and fast, and will endure the rigours of modern gaming as well as hardcore greedy applications, too. It also makes use of new technologies, with, for instance, the

presence of a DVD-ROM drive as standard. The model that winged its way to our Labs had an impressive specification. Powered by a 400MHz version of the now ubiquitous Pentium II processor and backed up by a thunderous 128Mb RAM, the Platinum makes a good start. The hard drive was an 8.4Gb UDMA Maxtor model; this was slightly disconcerting, as the specification stated it would have a 10Gb drive.

Packard Bell has chosen to use branded components only, and this makes for lots of interestingly uncanny names. Starting at the bottom we see the Packard Bell own-brand "MediaBooster" motherboard based on the Intel 440BX chipset, currently the most advanced chipset for Pentium II processors. The whole system itself is quite stylish, with speakers and subwoofer built in to the monitor, an easy-to-access "Gulliver" midi tower and a "Legacy MediaControl" keyboard containing quick-access keys to the various multimedia functions. You get the point about the branded components, anyway.

The Platinum also makes use of emerging technologies, or to be more precise, those which have hatched but are not yet flying. For example, everybody knows about DVD, but most people don't yet have a DVD-ROM drive. The 17in monitor arrived with a slight magenta bloom towards the top right-hand corner, but this was soon fixed by degaussing the monitor manually several times. That aside, the monitor had a



15.9in viewable diagonal. It was also pretty compact,

considering the built-in speakers.

The graphics card included was an 8Mb ATI 3D Rage Pro-based card which fitted into the AGP slot. The Rage Pro features hardware assist for DVD decoding: in other words, it won't completely decode a film but will help with some of the scaling operations. The graphics capabilities were duly put to the test using the PCW benchmark sword and emerged with a respectable overall score in the Final Reality graphics benchmark. Also worth mentioning are the 64-voice sound card — fairly unusually, a PCI version — and an internal 56Kbps voice modem. The rest of the system was tested using SYSmark 98, when the results continued to hold their own.

There is plenty of room for upgrading — one ISA, two PCI, one shared PCI/ISA and one DIMM slot within the chassis. There are also three front-loading bays, one 5.25in and two 3.5in.

A plethora of software goodies is provided — from MS Word and Works 4.5 to the DVD version of Blade Runner and a wealth of communications software. And all this for £1,761 including VAT. Packard Bell is clearly getting the message with its pricing.

JIM HARYOTT

PCW DETAILS



Price £1,761 (£1,499 ex VAT)

Contact Packard Bell 01628 508200

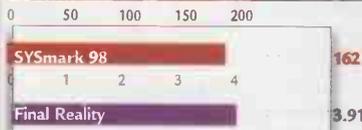
www.packardbell.co.uk

Good Points The Platinum 2020 is well-specified and has a marvellous software bundle. It also benefits from good documentation and ease of use, plus the reassurance of high-street buying.

Bad Points The price, while good for a high-street PC, can still be undercut elsewhere.

Conclusion The Platinum 2020 is a great top-end high-street PC. But you can still do better by buying direct.

PERFORMANCE RESULTS



Siemens Nixdorf Scenic Mobile 800

A high-end notebook with some **novel features**.

Technical innovation is not always easy to achieve. As a result, many of the notebooks that pass through the PCW Labs are all very similar, with slight differences in build quality and components. The Siemens Nixdorf Scenic Mobile 800 stands out from the crowd for one simple but innovative reason — it has a detachable keyboard.

The whole of the front of the notebook lifts off, so the keyboard and trackpad can rest on the desk. The keyboard communicates with the notebook via infra-red, with an IR port on the front of the notebook and the back of the keyboard. You can put the notebook up to 3m away at an angle of up to 120°, and a little way above or below the main unit. If the keyboard temporarily loses contact with the main unit, keystrokes will be stored, then sent once it's in range again. But don't expect to go away and type your novel and then feed it into the notebook — it will only remember a few dozen characters. The battery in the keyboard recharges when it's reattached to the main unit.

The removable keyboard would be useful in presentations, enabling you to set the notebook up for your clients to see and use the keyboard to control the presentation from a comfortable distance. It's also better in terms of ergonomics than the average notebook, as the keyboard is at a more comfortable height to type on, plus you can place the main unit back on your desk and raise it up, so the screen will be further back and at eye level. As the screen is a 14.1in TFT, you can probably dispense with a second monitor on your desk and, of course, a second keyboard and mouse, although there are ports on the notebook for all these devices should you need them.

Despite all the advantages of the removable keyboard, it's not wonderful to use. The keys and trackpad are housed in fairly flimsy plastic. If you're a heavy-handed typist, you'll feel the housing needs to be much tougher to withstand the pressure. It could also do with some

rubber feet underneath to stop the keyboard from sliding across your desk as you type. The trackpad hasn't been very well thought out either. It's responsive, but the buttons which sit at either side are awkward to use.

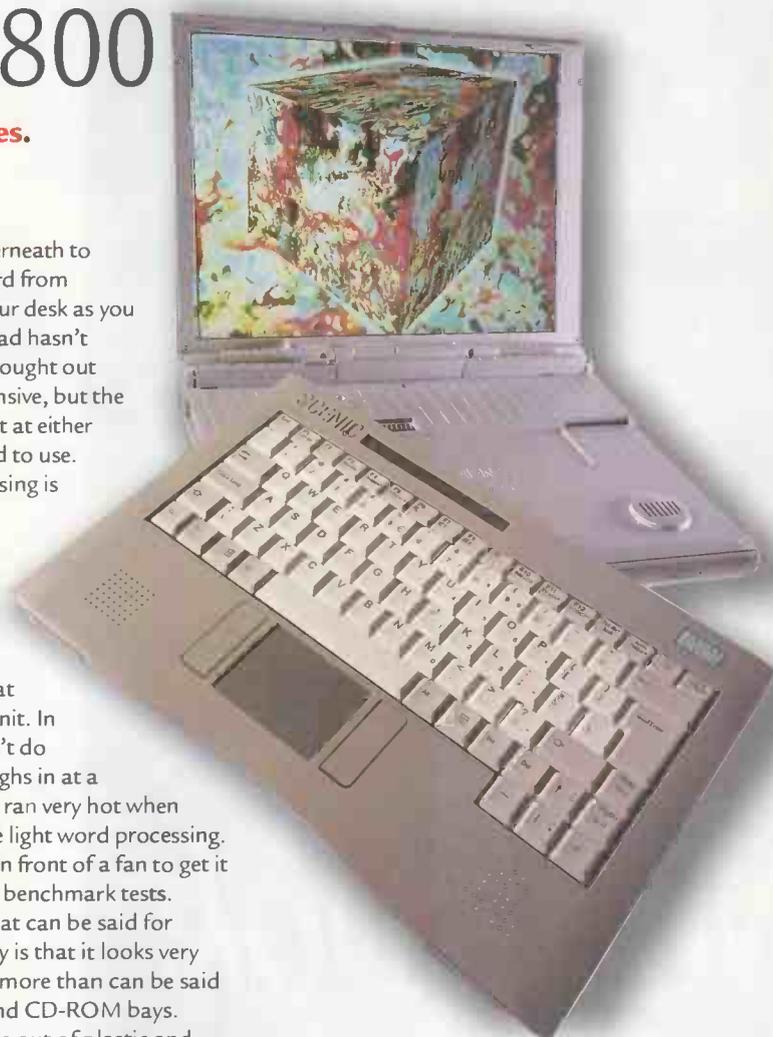
The unit's casing is made of magnesium alloy, which is supposed to keep the weight down and conduct heat away from the unit. In our tests, it didn't do either. It still weighs in at a heavy 3.8kg and ran very hot when just doing a little light word processing. We had to sit it in front of a fan to get it to complete our benchmark tests.

One thing that can be said for magnesium alloy is that it looks very stylish, which is more than can be said for the floppy and CD-ROM bays. These were made out of plastic and felt insubstantial. Another poor design point is the lack of a cover over the rear ports, leaving them open to dirt and damage.

But all is not doom and gloom. The 5Gb hard disk is partitioned into three segments and loaded with a number of useful utilities. Meanwhile, the 14.1in XGA screen is driven by an ATi 3D RageLT Pro chipset, backed up with 4Mb of SGRAM. This would allow an external monitor to be driven at up to 1600x1200 at 85Hz in 64K colours. The processor is a mobile PII 266 and there's 64Mb of system RAM.

All things considered, the Scenic Mobile 800 suffers from trying to be too clever. The removable keyboard is a superb idea, but needs to be refined before it can prove its worth. And, of course, the heat problem needs to be addressed.

ADELE DYER



PCW DETAILS

★★★★

Price £5268 (£4499 exVAT)

Contact Siemens Nixdorf 01252 373035

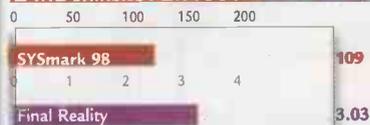
www.sni.co.uk

Good Points The removable keyboard is a nice idea.

Bad Points The nice idea doesn't work well.

Conclusion Too many gimmicks and too little thought have gone into this notebook.

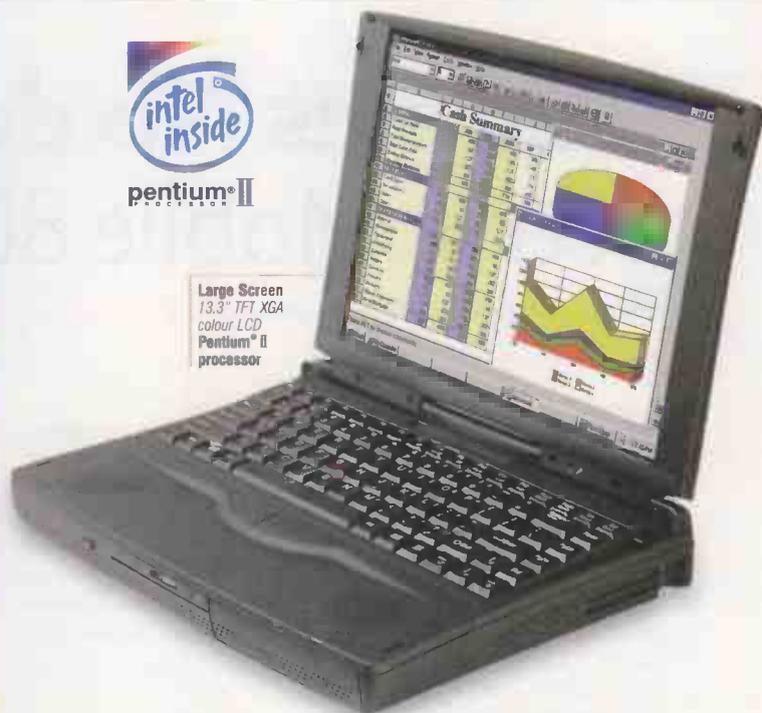
PERFORMANCE RESULTS



Mobile Multimedia, latest technology, affordable

The Ultimate Notebook

Editors' Choice PC Magazine, March 1998



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

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

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Intel® Pentium® II processor 266MHz low voltage	Intel® Pentium® II processor 300MHz low voltage
Intel® mobile module specification	Intel® mobile module specification
Intel® 440BX PCiset	Intel® 440BX PCiset
512K pipeline burst cache	512K pipeline burst cache
48Mb EDO RAM exp. 144Mb	80Mb EDO RAM exp. 144Mb
4Gb removable hard disk	6Gb UDMA removable hard disk
13.3" TFT XGA colour LCD	13.3" TFT XGA colour LCD
2Mb 128-bit SVGA graphics Optional upgrade to 3D 4Mb SVGA extra £75 + VAT	2Mb 128-bit SVGA graphics Optional upgrade to 3D 4Mb SVGA extra £75 + VAT
24x speed removable CD-ROM drive Optional upgrade to DVD-ROM drive with decoder PC-Card extra £250 + VAT	24x speed removable CD-ROM drive Optional upgrade to DVD-ROM drive with decoder PC-Card extra £250 + VAT
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	ClipperCom™ 56K World data/fax modem with GSM

Standard Notino AS6000 features

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PC Magazine was looking at systems, for people wishing to invest for the first time. The Hi-Grade Axion PV2 233 had the best balance of performance, latest technology, quality components and the right price tag and was therefore awarded the "Editor's Choice" award. This system has also won the PC Advisor "Recommended" award.

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VGA ATI Expert 98 AGP graphics card with 8Mb RAM	VGA ATI Expert 98 AGP graphics card with 8Mb RAM
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64-bit 3D sound PCI card	64-bit 3D sound PCI card
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17" Colour SVGA monitor	17" Colour SVGA monitor
3COM 3C905 10/100Base-T PCI Ethernet card	3COM 3C905 10/100Base-T PCI Ethernet card

WINPUTER PV2 333	WINPUTER PV2 333+
Intel® Celeron® processor 333MHz with 128K cache	Intel® Celeron® processor 333MHz with 128K cache
512K pipeline burst cache	512K pipeline burst cache
Intel® 440EX AGPset	Intel® 440EX AGPset
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 • 105-key keyboard • 2 button PS/2 mouse • Windows 95/98 • 1 year on-site warranty for labour and parts.

Software: Lotus SmartSuite 97, Network Q Rally Championship, Worldbook Encyclopaedia, Body Works v6, Azrael's Tear, Captain Claw, Family Doctor, Oregon Trail, Design It 3D, Key Home Gardener, Typing Teacher, Kitchen Gourmet.

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Philips Nino

Chic and cheerful

The range of **Windows CE palmtops** grows with this stylish offering from Philips.

The Nino is all about style. Sure, this review is going to tell you about the processor, the memory options, the built-in software, and all that jazz. But if you decide to become a Nino owner, I bet that the styling is a significant factor in your choice. Why? Well, for a start, the choice of PDAs is now very wide, and the technical specs are often similar. Secondly, and more importantly, this is simply a very stylish bit of kit.

The Nino fits comfortably into the hand (13.3x8.7x2.2 cm) and weighs 200g including the two AA batteries. It comes with a set of NiMH rechargables, and a recharger. Philips claims about 12 hours per recharge (I reckon a bit less, but then, I use the backlight reasonably frequently). The unit is roughly the same size as a 3Com Palm, being 1cm longer. The comparison with the Palm is significant, since that must be the main competitive target for all of these up-and-coming machines running Microsoft Windows CE for a Palm-size PC.

The screen is significantly better than a Palm's. Not only is it backlit and touch sensitive, it also has four shades of grey and a resolution of 320x240.

Just like the Palm there is no physical keyboard, so all data is input through the screen with a pen. There are several alternative methods, however. There's a virtual qwerty keyboard from which you can select letters with the pen tip, then there are two flavours of character recognition. One of these, the annoyingly

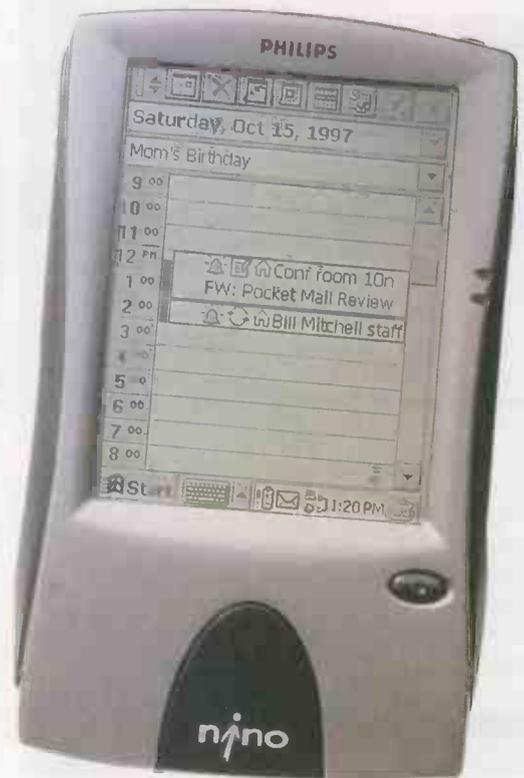
capitalised smARTwriter, requires a degree of training but it repays the effort. All you have to do is show it how you like to form your characters by entering several examples. Then you can print on the screen — no cursive script — and as soon as you pause for breath, the software will turn your characters into text. Accuracy is fair to good, and the system is certainly usable for inputting notes. The second flavour of character recognition requires you to learn a character set and is similar to Graffiti on the Palm.

A whole host of other software is included: the standard CE pocket apps

If you decide to become a Nino owner [I bet] that the styling is a significant factor in your choice

— NoteTaker, Voice Recorder, Channels, Calculator, Solitaire, and Tegic T9 smart keyboard; and ART Pocket Commander and the Nino Expense Manager.

The Nino is based around a 75MHz RISC processor and comes with 4Mb of RAM. An 8Mb version should be available by the time you read this, although prices are not available at the time of writing. Philips assures me that the former is fine if you use the Nino as a data repository for contacts, agenda, and so on. In other words, 4Mb is enough if you don't go loading lots of extra software like I did. The temptation was just too great, because there is so much software becoming available for these machines — games, street maps and the like. The result was a continual string of complaints from the Nino that



its brain was full. This condition actually hung the machine several times and it had to be rebooted — a technical term meaning that I removed one of the batteries for a second.

There is a unidirectional microphone that can be used for recording memos and this function can be controlled via buttons built in to the side of the machine. The microphone can also be used, after another training session, for voice activation. I liked the machine a lot, but I never actually got around to talking to it. At least, not in public. There is also an IrDA infra-red transceiver which can be used for, among other exotic functions, beaming your business card to other happy Nino owners.

PC synchronisation software and a rather cute docking station are provided with the Nino, and by the time you read this, the optional 19.2Kbps modem should be out with European approval.

MARK WHITEHORN

PCW DETAILS

★★★★★

Price £299.99 for the 4 Mb version (price for the 8Mb version not available)

Contact Philips 0800 961445

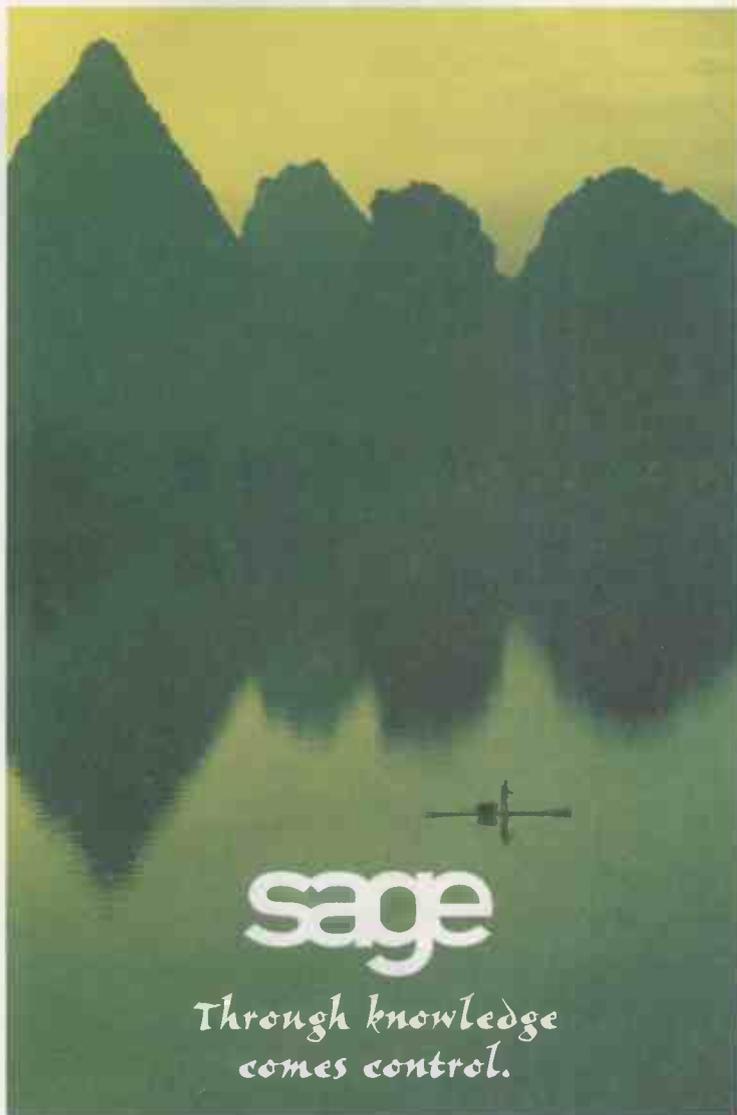
www.philips.com

Good Points Style and screen.

Bad Points 4Mb just isn't enough for play time.

Conclusion A fine machine to be used as a mobile data store.

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*From an independent survey, circulated in June 1994 by the faculty of IT of the ICAEW.

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Psion 3mx

A classic case

Psion's most popular palmtop gets a revamp.

When innovative UK-based computer manufacturer Psion hurriedly called a press conference recently, the hushed tones of the attendees carried predictions of an announcement of a new machine. But while the expectation was of a Series 5c or even a Series 6, what we got was rather less exciting. A blast from the past, the hugely popular Psion Series 3, has been given a new lease of life in the form of the 2Mb Series 3mx.

It doesn't look appreciably different. Sure, the case has a sleeker look and smoother feel than its rubberised predecessor, the 3c, but that that's just a cosmetic makeover. The clamshell case is exactly the same design as before, but that's not a criticism because it's a fine one. Flip it open and still, no difference. The keyboard has the same, small, vaguely pearlescent buttons topped off with a line of membrane-style shortcut icons for the various applications. These, too, remain unchanged. You get a competent word processor and spreadsheet, flexible agenda-cum-calendar, reasonably versatile contacts database, limited jotter facility, user-friendly calculator and a novel though not entirely useful digital audio-recording program. You even get a patience card game to while away those in-between moments of productivity.

Viewed individually, none of these applications represents excellence. But

as a collection of professional applications, there are very few

electronic organisers that can compete.

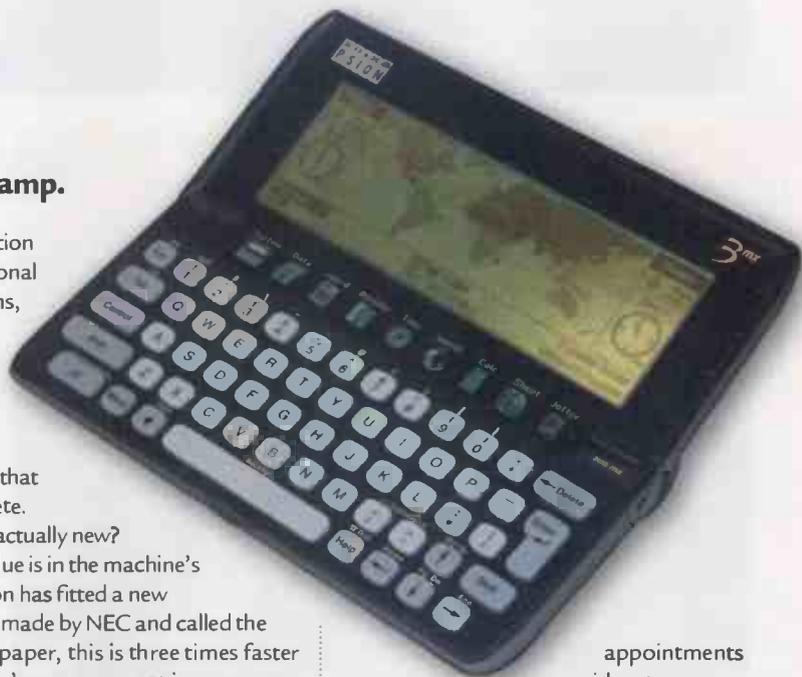
So what's actually new? Well, the clue is in the machine's name. Psion has fitted a new processor, made by NEC and called the "mx". On paper, this is three times faster than the 3c's processor, yet it consumes equivalent amounts of power and costs little more to produce.

If it sounds like a good thing, that's because it is. The 3mx's applications now zoom along — and they could hardly have been described running slowly on

The 3mx's applications now zoom along — and they could hardly have been described as running slowly on earlier incarnations

the machine's earlier incarnations. Where once you would have had to wait maybe a second or two for the Series 3 to respond to certain actions, now things happen more or less immediately. It is easily the fastest of its kind on sale.

Of course, there's more than just speed to consider when buying a PDA (personal digital assistant). Perhaps the most important aspects are the screen and keyboard, simply because you will be using them most of the time. We've already mentioned the keyboard, which is for the nimble-fingered, certainly, but quite usable. The screen is almost beyond criticism, however. The ocean-green background offers a near-perfect contrast to the crisp, black pixels displayed upon it. It's also big enough that you can easily edit spreadsheets and documents, and view a week's worth of



appointments without squinting. The machine even has a zoom feature, so you can choose how much information to squeeze onto the display. And then there's battery life. The latest organisers might boast colour screens, pen-based operation and highly graphical environments, but these features come at the cost of power. Few such devices can manage double-figured hours, and most will conk out after about 4-5 hours of average use. The 3mx's manual claims up to 80 hours — certainly you can comfortably bank on 25, and often you'll get even more. In terms of average daily use, you're looking at a couple of months or so before you have to get friendly with the battery compartment.

A final word about software. The Series 3mx has an impressive suite of applications, but it is also wholly compatible with other Series 3 machines. If you've already got software, this means you won't have to throw it away if you upgrade, and, if you're just starting out, there's a huge library of existing titles to choose from. What's more, for a limited period Psion is bundling the 3mx with a software voucher. Pop this in a post box and in return you'll receive a copy of AutoRoute.

SCOTT COLVEY

PCW DETAILS

★★★★

Price £269.95 (£230 ex VAT)

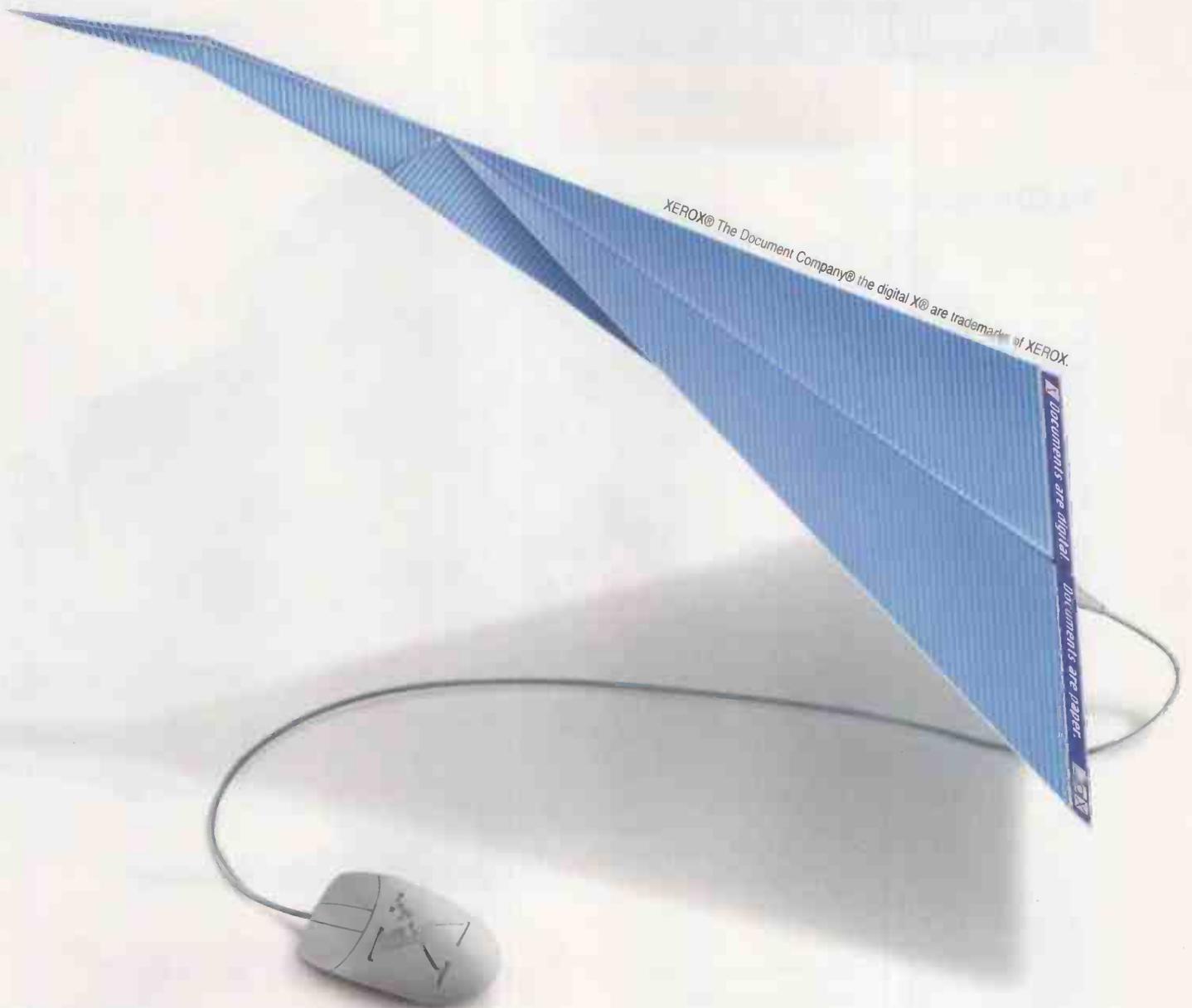
Contact Psion 0990 143050

www.pSION.com

Good Points A classic design, superb battery life, loads of software.

Bad Points Not exactly state of the art.

Conclusion The Series 3mx is a great electronic organiser but not a huge step forward. Psion is aiming it at first-time buyers and, if you're one such, you won't be disappointed.



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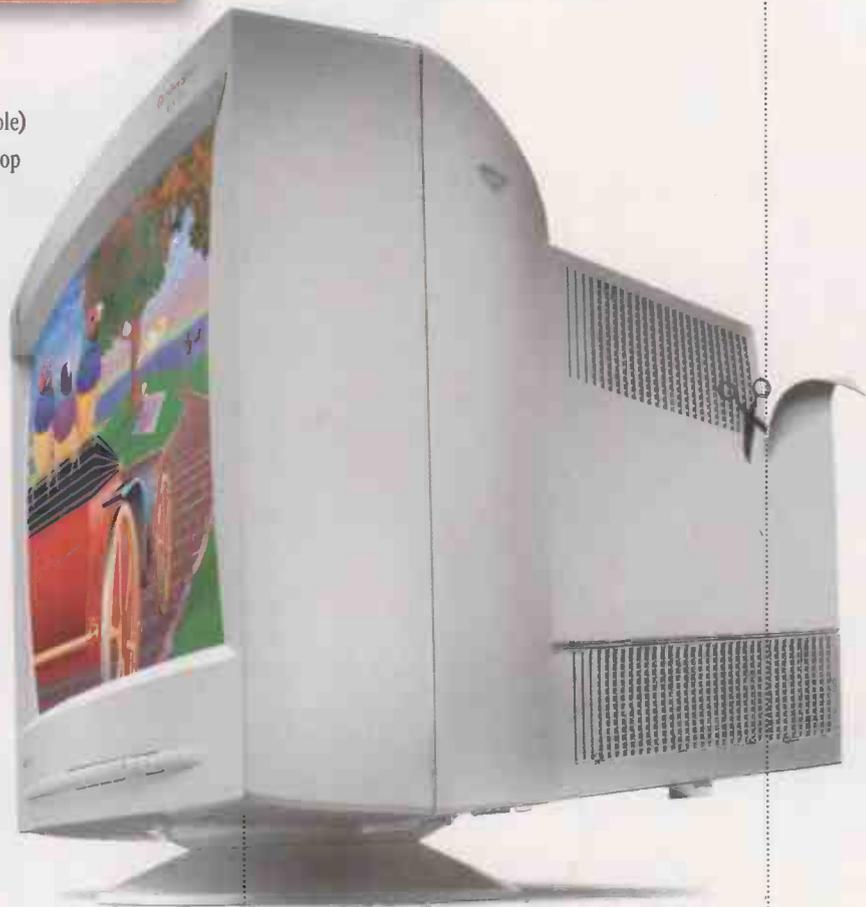
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0800 833 648

www.viewsonic.com/europe



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Eizo FlexScan L66

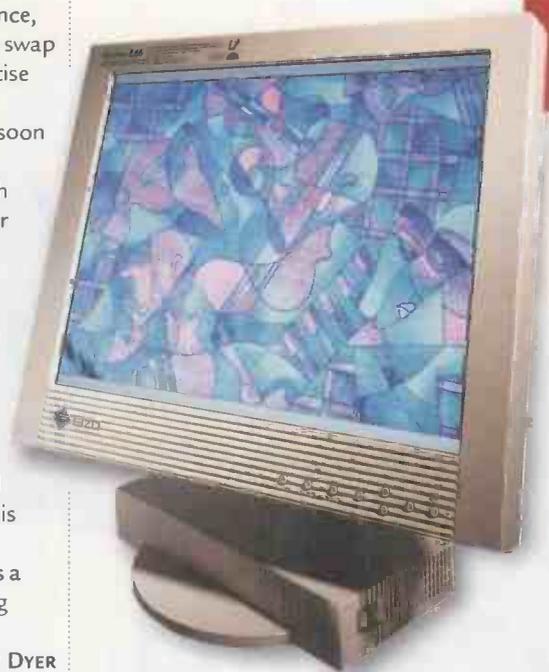
A big flatpanel monitor with a big price.

The high costs and low manufacturing yields involved in making large TFT screens has meant that up to now, most flatpanel monitors have stuck at the 15in mark. However, Eizo now has this 18.1in model. It is not the largest flatpanel monitor available — NEC has a 20in display — but it represents a significant step forward.

The extra size makes it ideal for financial institutions with more money than space, who will use this screen to display large spreadsheets, but it also means that the resolution can be pushed

up from the standard 1024x768 on 15in models, to 1280x1024. Dual analogue inputs connect two computers at once, and there is a switch on the front to swap between inputs. You can also prioritise one input, so the screen will automatically display that input as soon as it is activated. The OSD is comprehensive and easy to use, with an information option to check your current settings. There are three customisable colour settings.

Overall, the quality of the display was good, although the top of the screen was noticeably darker than the bottom, a problem none of the controls could address. The on/off button is sensibly positioned at the front of the base, which itself is small and houses a USB hub. The FlexScan L66 is also available as a free-mount model, so it can be hung on a wall.



ADELE DYER

PCW DETAILS

★★★★

Price £2783.58 (£2,369 ex VAT)

Contact PDS 01483 719500

www.eizo.com

Good Points Screen size equivalent to a 19in CRT but much smaller footprint.

Bad Points Cost.

Conclusion One for those with significantly more money than desk space.

Sony CPD-L150

Sony style applied to an LCD.

Like all the Sony's equipment, the company's monitors have always cost a little bit more but have generally been stunners. Now Sony has dipped its toe

into the LCD waters with its first flatpanel monitor, the CPD-L150. This 15in TFT screen runs at 1024x768 at up to 85Hz. Remember, though, that refresh rate is not as important with LCD panels as it is with conventional monitors.

The first thing that struck us about this monitor was its vibrancy and very even luminosity. Adjusting the clock-phase settings is a doddle. However, as is so often the case, the auto-adjust button seemed to make the screen worse than it was before, in this case creating clearly visible banding. The controls are all managed through an OSD and a series of six buttons running, unusually, up the side of the screen. There are four colour-temperature settings. The monitor sits on a very small base, giving it a tiny footprint. Alternatively, it can be wall-mounted. The VGA cable and power

cables are well hidden behind the unit. There is just the one input, so you can't attach the monitor to more than one feed as with the Eizo unit (above). However, it does have a very wide viewing angle of 140° and can be tilted forwards or backwards through an angle of 30°. Overall this is a sound flatpanel monitor, and is a creditable first effort on Sony's part.

ADELE DYER



PCW DETAILS

★★★★

Price £1404.13 (£1195 ex VAT)

Contact Sony 0990 424424

www.sony-cp.com

Good Points Bright and vibrant.

Bad Points A little overpriced.

Conclusion A good monitor, but better deals can be found elsewhere.

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www.iLIBRA.com

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Panasonic DVD-L10

Portable home cinema

The world's first **portable DVD** player.

If you're a self-confessed gadget freak with a grand burning hole in your pocket, then why not swap it for the world's first portable DVD player? At 160x160x43mm and weighing 910g without battery, Panasonic's DVD-L10 resembles an early portable CD player with its silver finish and retro angular sides. Open the lid, however, and you'll find a 16:9 widescreen active matrix TFT colour display measuring 147mm across its diagonal. A button under the screen cycles through the display aspect ratios of 4:3, zoom, or anamorphic-stretch.

The PalmTheatre, as it's more charmingly known, is just that, a portable home cinema on which you can watch DVD feature films or listen to old-fashioned audio CDs: it will even play those dodgy-old Video CDs if you have any lying around, but not CD-R discs. The rechargeable clip-on battery is good for around 2.5 hours — enough for all but the longest director's cuts. Rather messily, the battery supplies its juice through a short external cable which plugs into the same socket used by the supplied AC adapter.

The unit is essentially a portable version of Panasonic's full-size DVD-A150 (£399). It shares the same 10-bit video DAC, although with a slightly lower video-signal-to-noise ratio, and the same spec audio DAC which can handle 96kHz 24-bit audio DVDs. Round the back is an S-Video output, along with a pair of mini-jacks for audio and composite video. The audio jack, cunningly, supplies converted analogue stereo or, with the supplied optical adapter, raw digital PCM, Dolby Digital AC3 or MPEG audio for an external decoder. With the supplied remote control, this makes the unit suitable as a home player connected to your TV and surround sound system. More clever still, both audio and composite video jacks can be used as analogue inputs, turning the PalmTheatre into a colour stereo monitor.



The literature doesn't mention an anti-shock memory like a modern portable CD or MD player, but the PalmTheatre still seems fairly oblivious to mild knocks and shakes. A pair of built-in speakers deliver tinny but acceptable sound for their size. The image is bright but unsurprisingly most resembles watching video on a notebook computer. Come to think of it, you could spend a bit more and buy a notebook with a DVD-ROM drive and do essentially the same thing, and you may be able to tweak software to play titles from multiple DVD regions. We have found that most DVD players for PCs, whether decoding in hardware or software, ask you during installation which region you are in. At this point you could select Region 1, allowing you to play back the wide range of North American titles available. Unfortunately, you can only have one region installed at a time, and most packages only allow you to change it a few times. One trick is to set up two Windows hardware profiles with, say, Region 1 drivers installed on one, and Region 2 installed on the other, offering the best of both worlds.

The UK PalmTheatre is fixed in hardware as a Region 2 device, so will only officially play UK PAL or Japanese NTSC titles. Unofficial hardware tweaks are being offered by some specialist

dealers on full-size Panasonic players to play all regions, so it may be possible to modify the unit if you want to play US or other foreign titles; we couldn't find anyone who could do this at the time of writing, though. Anyone unwilling to dabble should evaluate the currently limited range of Region 2 UK titles in the shops and decide whether they're prepared to keep their fingers crossed for more in the future.

Interestingly, most of the shops we visited in London were prepared to sell either the Region 2 UK PalmTheatre or the Region 1 US version. Either way, it's still a versatile, sexy gadget, but I'm not sure who's going to buy it other than a mobile-movie addict.

GORDON LAING

PCW DETAILS

★★★★

Price £999 (inc VAT)

Contact Panasonic 0990 357357

www.panasonic.co.uk

Good Points DVD movies for the home, office, caravan or train.

Bad Points Relatively short battery life and messy battery cable.

Conclusion Sexy, but a notebook with DVD may be a more flexible choice.

Lego Mindstorms

Not just kids' stuff



A hot new gadget that is literally a mindstorm.

Some people say Wagon Wheels are smaller now than they were when you were a kid and, in truth, it seems that most things have got smaller as you have got bigger. Something that has reversed the trend, though, is the work of those clever people at Lego, which just seems to have got bigger, better and more diverse as the years go on. Now, with Lego Mindstorms, they seem to have surpassed even themselves, by venturing into the formerly uncharted territory of programmable plastic bricks.

With a staggering 700 building components in the box — we're reluctant to call them bricks as they include tubes, wings, bands, wheels and all manner of strange and unusual attachments — this is a mammoth set. Delve a little deeper and you'll find yourself coming across light sensors clever enough to know the difference between red and blue, and pressure gauges with built-in switches to make your creations turn or move on their own. Perhaps the most important and impressive bricks, though, are two large blocks bigger than the rest: these are the driving force behind Mindstorms.

The first, shaped somewhat like the nose cone of a NASA Shuttle, attaches to your PC's COM port. The second, a more conventional rectangular shape, is the basic block around which you will build your models. Each sports an IR device — transmitting on the nose cone and receiving on the block — that allows you to program the actions of your creations using the simplistic drag-and-



drop

PC

software.

Once you have "constructed" your commands on-screen in much the same way that you build your model by putting subroutine bricks on top of one another, it can be transmitted to the model and, because it is written to the remote memory, the PC can be turned

If you don't have children of your own, borrow a few, then take them with you when you buy. You'll feel less embarrassed...

off. Stored in the receiving brick, it can now be activated using the four buttons on top of your model. If this all sounds a bit intimidating, an extensive set of animated tutorials will take you through everything from installing the batteries to completing your first model, a scaled-down version of the Mars Pathfinder buggy. Leading you through one brick at a time and showing exactly how each should be attached, it then moves on to the rather more important matter of how you tell the model exactly what you want it to do.

Of course, every brick in the Lego range is a standard size, which means that when you've exhausted the possibilities offered by the basic kit you can add to it to create an infinite number of possibilities. Two eight-stud bricks can be joined in no less than 24 different ways. Add another, and a

total of 1,060 connection possibilities present themselves. With such a large set, we sometimes found it difficult to find what we were looking for. Although the pieces were sorted into a semi-logical collection of bags, it still took us a good ten minutes to find the sensor bricks, even though we knew exactly what we were looking for. We also found the software's insistence that we complete the training sessions before being let loose on the programming language a little irritating: we would

have liked to be able to get straight into the product and use it.

According to Lego's web site, which also explains that in Latin the word Lego means "I put together", Lego bricks are played with by more than 300,000,000 children in 130 countries. With the arrival of Mindstorms, we feel it's time to redress the balance. Over ten years of development in partnership with MIT have made this set too much fun to be confined to the kids' bedroom. If you don't have children of your own, pop out and borrow a few, then take them with you when you buy the set: you'll feel less embarrassed. But whatever you do, don't let them get hold of it — you'll never get it back.

NIK RAWLINSON

PCW DETAILS

★★★★★

Price £160 (£136 ex VAT)

Contact Lego 0845 606 2043

www.legomindstorms.com

Good Points Innovative, extensive, endless fun.

Bad Points Difficult to find pieces. Bossy software.

Conclusion Guaranteed to bring out the kid in everyone.

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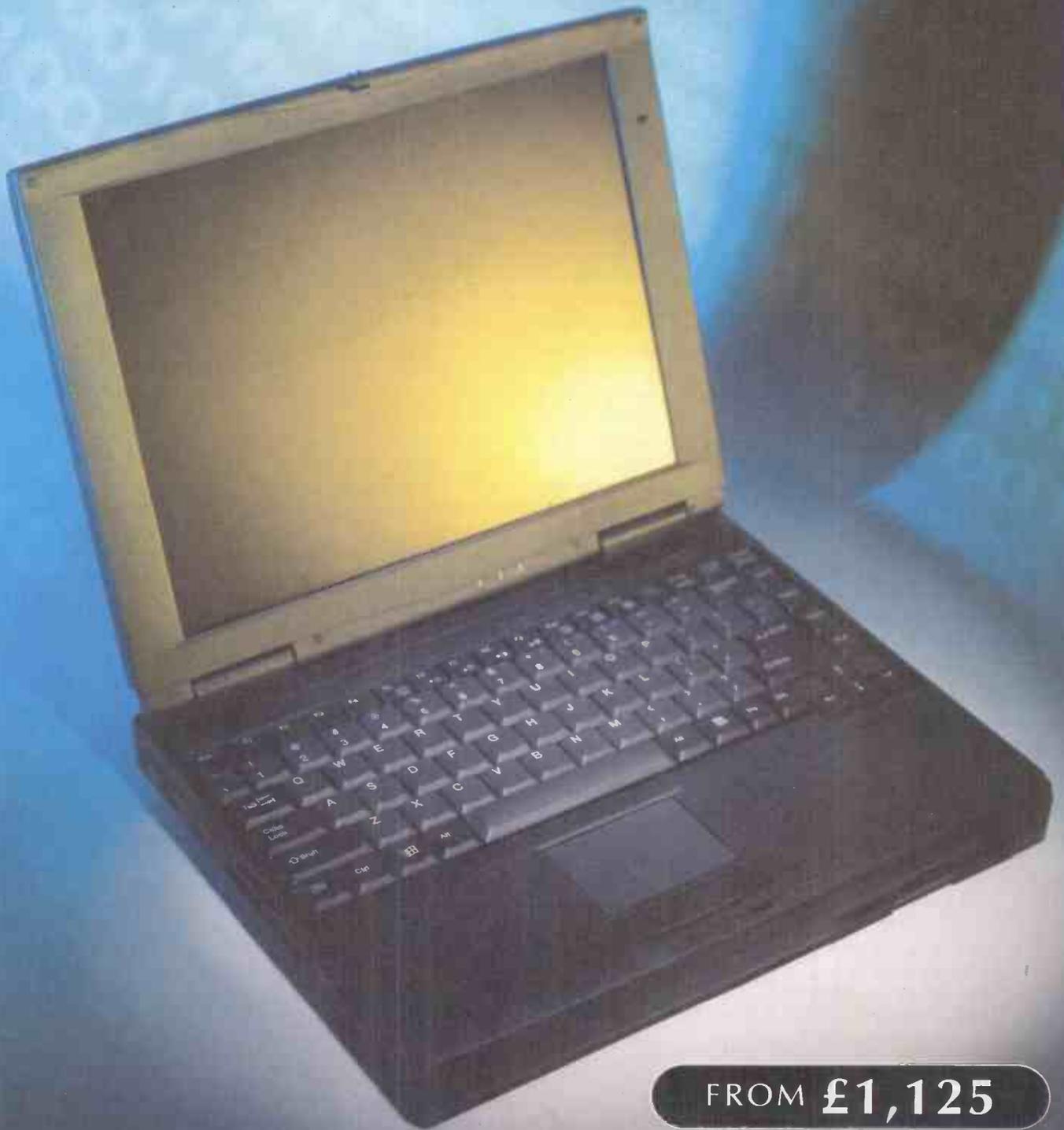
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www.umax.co.uk

Yamaha WaveForce 192XG

Sounds good: an **audio card** that's a boon to music and games.

The WaveForce 192XG is the first in a line-up of low-cost PCI sound cards from Yamaha. Using a combination of hardware and software, it can produce up to 192 instrument voices from three independent synthesisers. The core processor integrates a monophonic S-VA (Software Virtual Acoustic) tone generator and a 64-voice, 2Mb WaveTable ROM based on the popular DB50XG daughterboard. The S-YXG50 software synth provides an additional

128 voices, equal in quality to the DB50XG. This is the first audio card to offer S-VA synthesis, a technology that was once exclusive to professional MIDI instruments. It generates sound by running virtual simulations of acoustic instruments to reproduce music with greater realism than WaveTable alone. There are 256 instruments to play with, which can be accessed using any MIDI sequencing package. Note that this is a highly processor-intensive application and requires a 233MHz Pentium II to run.

Games support comes in the form of Direct Sound, Direct Sound3D, A3D and SoundBlaster compatibility. Inside, the card has connectors for CD audio,



auxiliary and video devices, such as DVD. A Tad port enables compatible modems to be connected to provide two-way telephonic communications. There are connectors for speaker and line output, mic and line input. Audio from the mic input can be routed to the three internal effects buses, including reverb and chorus settings. Bundled software includes a 100-track MIDI sequencer, an audio-file player with 100 classical-music MIDI files.

STEVEN HELSTRIP

PCW DETAILS

★★★★★

Price £69.99 (£59.56 ex VAT)

Contact Yamaha Kemble 01908 366700

www.yamaha.co.uk

Good Points Easy installation. S-VA synth. Downloadable sound support. Price.

Bad Points Slight hiss when instruments are played back.

Conclusion Wide range of high-quality features for musicians and gamers alike.

Iomega Buz

The Buz is a **real steal** compared to its costlier video-capture competitors.

After almost cornering the market for portable storage devices, the Buz is Iomega's latest venture. It's aimed at multimedia producers and home video enthusiasts. The package comprises a PCI card and a snazzy purple break-out box for connecting the VCR or camera, plus MGI Videowave SE for editing. The card has video capture hardware as well as Ultra Wide SCSI and can be used to connect other SCSI devices.

The rugged break-out box is a particularly useful component. It eliminates the need to fiddle with cables behind the computer or under the table. It sits on top of the system, and connecting a VCR or camera to it is a straightforward process. VCRs come with S-Video or composite video outputs. The box is capable of accepting both types. We first tested the Buz on a new 333MHz Pentium II with 64Mb RAM and a fast hard drive. True to

Iomega's claim, the card captured full-screen MJPEG video with no frame loss or distortion. However, the capture rate became irregular on an older Pentium 133 with 32Mb RAM. You'll also need Windows 98 or Window 95 OSR2 and two free system IRQs. For these reasons, some older systems won't be compatible with the Buz. The unit doesn't capture audio: for that, you'll need to use your existing sound card.

Videowave SE isn't competing with the likes of Adobe Premiere, but it's fine for basic edits, captions and fades. And compared to its costlier counterparts like the Pinnacle DC 30 and the Fast AV Master, the Buz provides almost equivalent versatility at a much lower price.

AJITH RAM



PCW DETAILS

★★★★★

Price £189 (£161 ex VAT)

Contact Iomega 0800 973194

www.iomega.com

Good Points Full frame, full motion analogue video capture. Dual-use SCSI card. Useful software bundle and tutorial.

Bad Points Needs a reasonably powerful PC. No digital video capture.

Conclusion The ideal solution for digital video editing enthusiasts on a budget.

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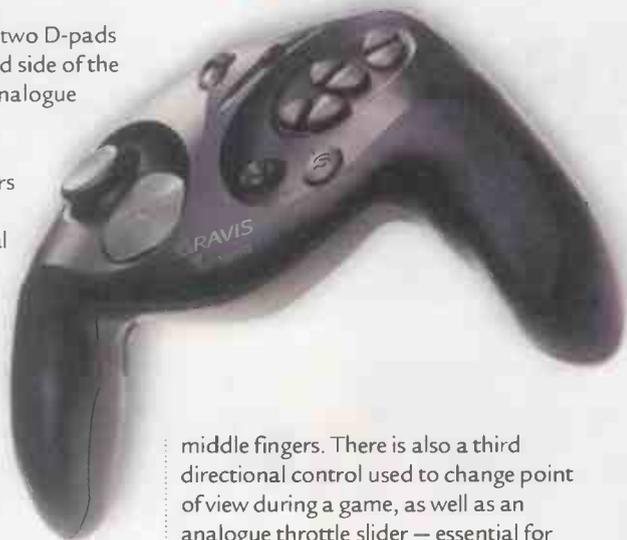
Gravis Xterminator

It's a **gamepad** with knobs on.



Gamepads have traditionally been associated with consoles, with PC games generally being controlled via joystick. But the excellent Xterminator digital gamepad from Gravis looks set to change all that. Our first impression was that the ergonomics were excellent. Solid without being overly heavy, the positioning of the numerous buttons and directional pads (D-Pads) feel natural, a sure sign of good design. The Xterminator offers both digital

and analog controls, with two D-pads positioned on the left-hand side of the gamepad. Top left is the analogue controller: similar to the analogue control on the Nintendo 64's pad, it offers pretty much the same response as a conventional joystick. Controlling it with a thumb rather than a hand takes some time to get used to, but we found it precise and well weighted. The other D-Pad is digital and offers eight-way control.



middle fingers. There is also a third directional control used to change point of view during a game, as well as an analogue throttle slider — essential for flight sims. Finally, there's a switch that, when pressed, allows a second set of pre-programmed controls to take over, effectively doubling the amount of commands you can give through the pad.

PAUL TRUEMAN

PCW DETAILS



Price £39.95

Contact Gravis 0800 252359

www.gravis.com

Good Points Sensitive analogue controller. Squillions of buttons.

Bad Points No plans to bundle games with it. Gamepads don't suit everyone

Conclusion If you like gamepads, you'll love this.

The best thing about the Xterminator is how much else the designers have managed to cram on while still making it a delight to use. There are analogue flippers on the underside, and digital triggers lower down operated by your

8x8 ViaTV Phone

Two-way **videoconferencing sans PC.**

Recent months have seen the release of the Quickcam VC from Connectix and Creative Labs' WebCam II — cheap, user-friendly cameras that sit atop the monitor and send the images down the phone lines. The idea behind the ViaTV from 8x8 takes a slightly different tack: to take the PC out of using the videophone. The principle is the same as that of internet videoconferencing devices. But the ViaTV

Phone sits on top of the television, and sends the pictures directly down the phone line through its own internal modem to the other videophone. As well as being able to hook up to other TV Phones, 8x8's camera can also make video calls to any other videophones that use the H.324 standard for modem-to-modem connections over the phone

lines. The camera connects to the TV via the SCART socket, and to the existing phone line via a two-way socket into which you plug the line from your telephone. It

took us about five minutes to set up, ready for our first attempt at

PC-less videoconferencing. Once you have phoned the recipient of your call, you can then initiate the video-connection. Using the buttons on the phone, you can bring up menus that can alter picture quality as well as frame rate. The picture at its "fine" setting was impressively sharp but its frame rate dropped dramatically, and any sense of continuous movement was lost. At the "fast" rather than 'fine' setting, the frame rate was very impressive although the picture was pretty awful.

PAUL TRUEMAN



PCW DETAILS



Price £399 (£339 ex VAT)

Contact ViaTV 0800 9808889

www.8x8.com/europe

Good Points Ease of use.

Bad Points Can't combine good motion-video quality with a sharp picture.

Conclusion Nice idea, poor performance.

Tax 98 vs Quick Tax 98

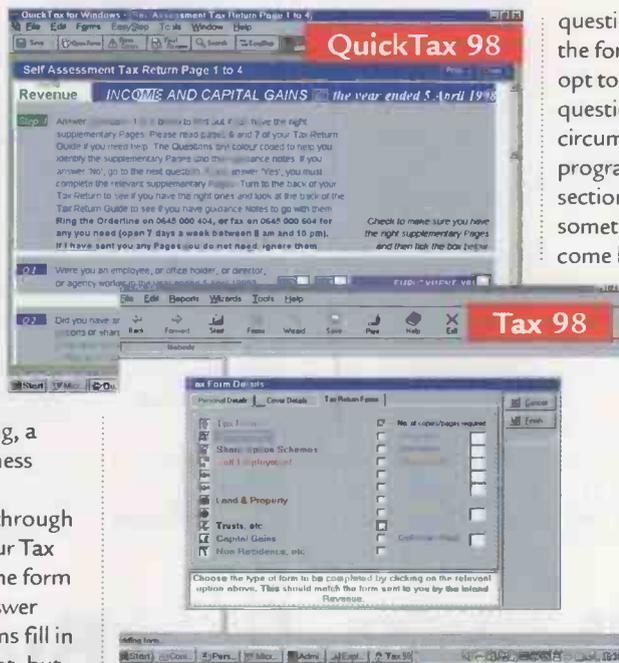
Salvation for DIY tax returns

Efficient and **reliable software** to help you sort out your self-assessment.

With the Inland Revenue apparently determined to continue its drive to make us all tax inspectors, several software publishers have responded to our anguish by producing software that aims to simplify these arcane matters. Two such are **QuickTax 98** and **Tax 98**. Both are by major business software publishers, the first by Intuit, of Quicken and QuickBooks fame, and the second by SB Software Publishing, a division of MAP Pastel, the business accounting software specialists. Both programs aim to lead you through the often-baffling sections of your Tax Return via guided interviews in the form of on-screen questionnaires. Answer them accurately and the programs fill in your Return for you. Not only that, but they print it out too, ready for you to send off.

QuickTax 98 installs without problems, and is ready to run immediately. It comes with a slim manual with enough guidance to get you started. There was no manual with **Tax 98**, but we were looking at a preview version. **QuickTax 98**'s install does have a couple of idiosyncrasies. It insists on installing onto your C: drive — if you prefer to keep your personal data elsewhere, perhaps for ease in backing up, well, tough. It also needs a password to run, involving telephoning the publisher with an "activation key" apparently generated from your address and telephone number. Though even with a password installed, you can't print anything until you have registered the software first — or at least filled in the registration form — almost as if it were shareware. Not a program to install over the weekend.

Both programs let you enter data directly into on-screen forms, with **QuickTax** having the more frighteningly realistic representations. In both programs, you do need to know, of course, exactly how to fill in the boxes.



It's also up to you to choose the right forms in the first place. In both programs, you can access the standard Windows Help search box. **Tax 98** has the edge here, its help screens being generously illustrated and leavened with wit. In addition, both programs offer context-sensitive help. Again **Tax 98** is more elegantly implemented. Moving the mouse pointer over a form's numbered boxes changes the icon to a question mark which, when clicked, displays the Inland Revenue's notes for that question. Similarly, moving the mouse pointer over certain words and icons offers you a relevant tax tip, a little more hit-and-miss. **QuickTax** has instructions and notes reproduced from the Inland Revenue's own forms and offers advice on saving tax, which you can call up separately. **Tax 98** has its Tax Glossary and Tips, although these tend to brevity, but scores with other tools like tax code and liability calculators.

On the other hand, **QuickTax 98** can hold your hand all the way through, with its EasyStep on-screen interview in which it automatically fills in the forms' boxes according to your answers to its

questions. Even if you've decided to fill in the forms without its assistance, you can opt to switch it in at any time. The questions vary according to your circumstances: if you're employed, the program skips the self-employment section automatically. If there's something you don't know, you can come back to it later (if you forget, **QuickTax** will remind you). At the end of the procedure, you can ask the program to check for errors for you. If it finds any, it takes you back to them, right down to the individual box, for correction.

Both programs will print your Tax Return for you to send off to your tax office, including your attached notes and calculations. Both programs also let you prepare Returns for any number of people.

JAMES TAYLOR

PCW DETAILS

Tax 98

★★★★

Price £19.99 (£17 ex VAT)

Contact SB Software Publishing
0161 630 7000

www.sbpublishing.co.uk

Good Points Lots of help. Useful tax liability calculators. Low price.

Bad Points Awkward installation. Not so intuitive in use.

Conclusion Does the job efficiently and is remarkable value. Pity about the password palaver.

QuickTax98

★★★★★

Price £29.95 (£25 ex VAT)

Contact Intuit 0800 585058

www.quicktax.co.uk

Good Points EasyStep interview questionnaire. Realistic forms. Inland Revenue guides.

Bad Points Not so easily integrated with Quicken as the advertising suggests.

Conclusion Almost makes self-assessment a pleasure.

WinForecast 32

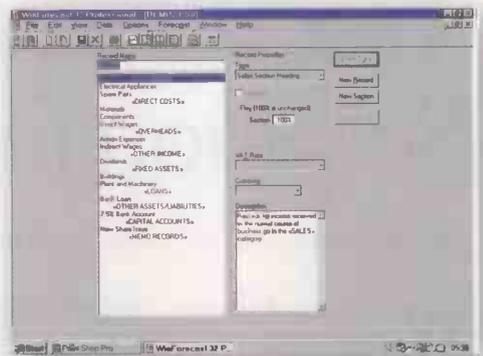
The latest version of PASE's **financial forecasting software** offers 32-bit speed and better integration. Although aimed at accountants, especially in practices or multi-department corporate organisations, this isn't accounting software in the usual sense of that term. It won't record your daily transactions nor do the books. What it does do is calculate the financial effects of changes to your predicted income or expenditure. You can then decide whether these changes will benefit your profit and loss, balance sheet and cashflow.

The obvious alternative to WinForecast 32 is the spreadsheet, which can also offer automatic totalling, carrying forward, analysis, calculation by formulae and percentage, and the ability to work backwards from a target position. It takes a lot of trouble to get up and running though, and won't give you the same level of sophistication as WinForecast 32. Getting your data into

WinForecast is by database-like entry screens, or you can import data from a spreadsheet. You can also hotlink to a database or spreadsheet. Entry fields can include complications like PAYE, National Insurance and pensions, income tax, and overdrafts. You can also enter any opening balances, and allow for overheads, credit period and discounts, to produce an accurate facsimile of your trading patterns.

Getting your manipulated data out of WinForecast is done through the Report Generator. Installed separately, this is a Word 95 or 97 template which allows data, graphs and Reports from WinForecast 32 forecasts to be incorporated in Word documents. The way in which the data is presented to Word can be customised from WinForecast. Tough, of course, if you haven't got Word.

JAMES TAYLOR



PCW DETAILS

★★★★★

Price £249 plus VAT single licence, to £949 server licence with multi-year & consolidation

Contact P.A.S.E 01289 307000

www.atlantic-coast.com

System Requirements Windows 95 or NT, 8Mb RAM, 8Mb hard-disk space.

Good Points Flexible and fast.

Bad Points The price may make small businesses think twice

Conclusion Useful for small businesses; indispensable for accountancy practices.

Adobe PhotoDeluxe Business

Adobe is better known for its professional graphics packages like Photoshop, but it hasn't cut corners on PhotoDeluxe. It has simply taken the most useful features and made them even easier to use with a spin toward the small business. PhotoDeluxe has a simple task-orientated user interface. All of the regular features can be accessed from the six tabs on the left-hand side.

The tasks are divided up into logical sections. In Get and Fix Photo, you can import your own photos from virtually any source and then use the touch-up tools to fix your image. You can remove dust and red-eye as well as unwanted elements — such as a troublesome ex-boyfriend. A huge number of special



effects are included, ranging from adding silhouettes, motion effects and tinting. The special projects section is especially useful and includes business cards, labels, report covers, stationery and flyers. You can even design presentations.

The Send and Save function guides you through how to export your work, whether it's to your hard disk, a printer, or the web. Although helpful at first, it

can get irritating to have to walk through all the steps, so the more common methods of export are included in the pull-down menu at the top. Considering the price, PhotoDeluxe Business Edition has an amazing amount of functionality and you'll never get stuck wondering what to do next. You'll probably want to use it on a fairly fast PC, though, or you may find it is a little sluggish.

SUSAN PEDERSON

PCW DETAILS

★★★★★

Price £93 (£79 ex VAT)

Contact Adobe 0181 606 4001

www.adobe.com

System Requirements Pentium processor, Windows 95 or NT4.0, 16Mb RAM, 70Mb disk space.

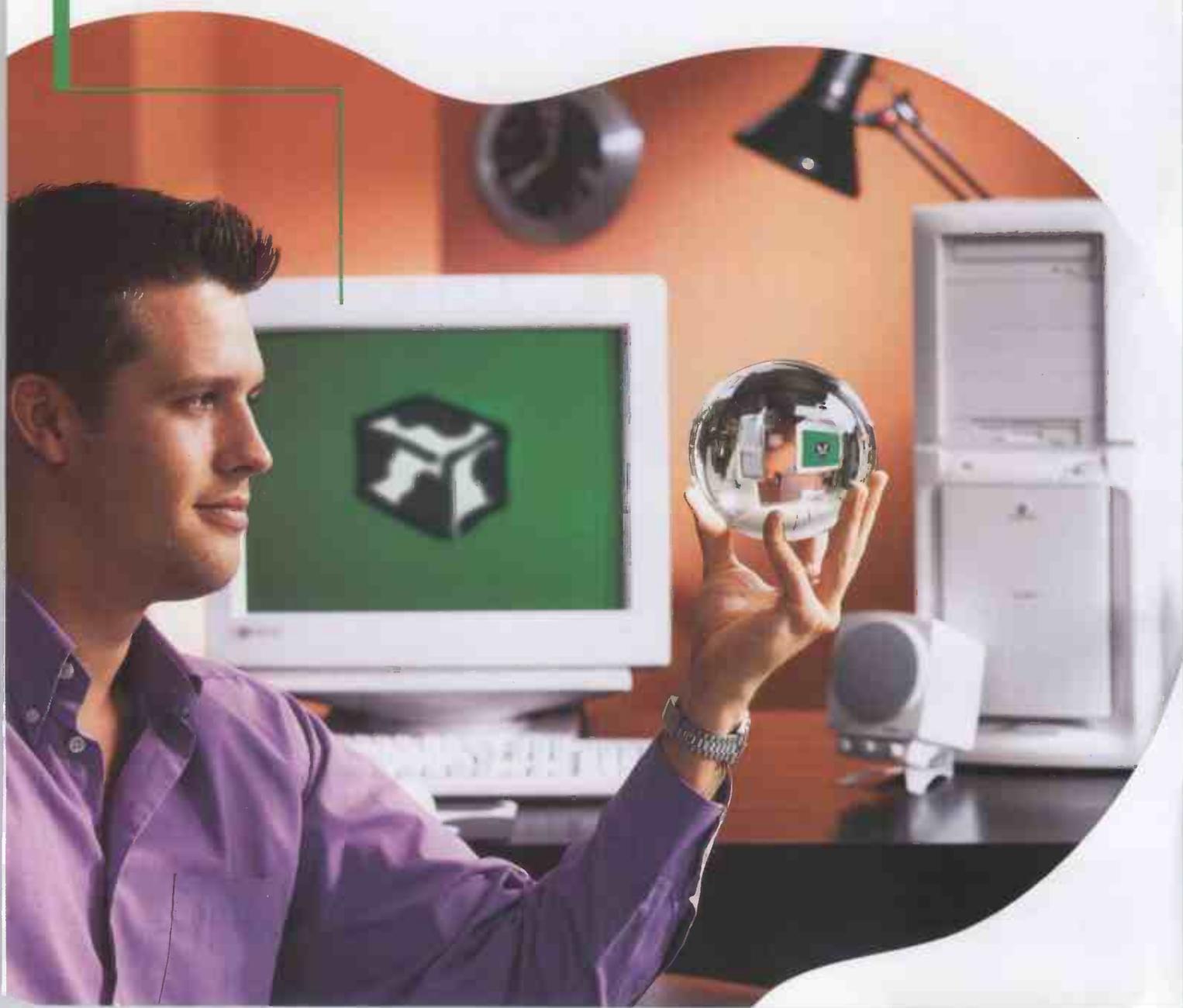
Good Points Perfect for someone who wants to spend more time running their business than fiddling with software.

Bad Points Once you know how to do something, the step by step process grates.

Conclusion A great graphics package for the small business with a decent-spec PC.

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Let's talk about totally new way your PC.



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your future.**

**Let's talk about
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Let's talk about your

Gateway™

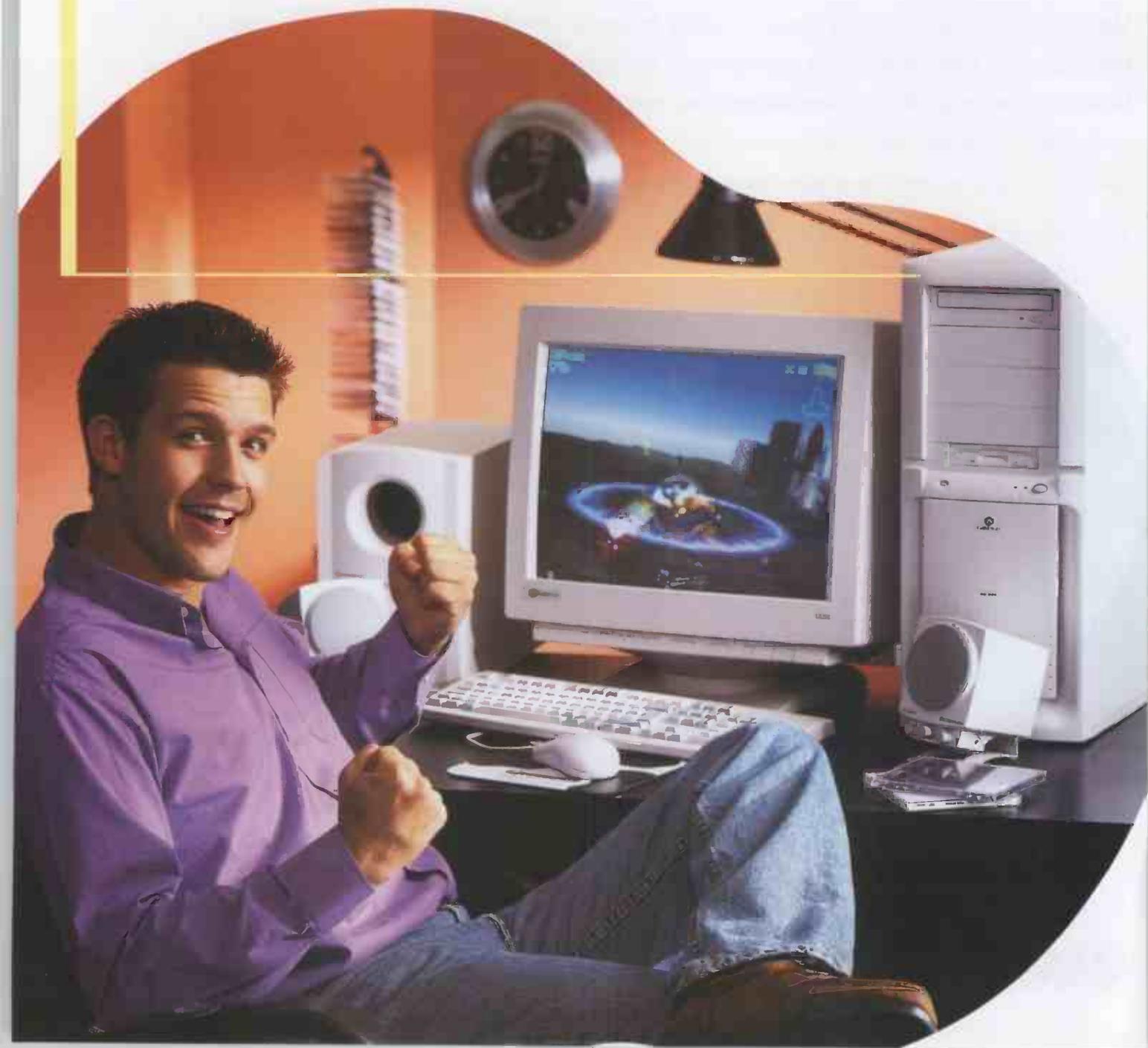
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The superb Gateway G6-450XL we built for Jon is the latest in today's technology. We built in an Intel Pentium II processor, 450MHz, the fastest in the range. It's also got a massive hard drive, DVD drive, the best soundcard and speakers in our range plus a Voodoo2™ 3D graphics accelerator. It's a system which will run applications with ease so Jon can experience the most mind blowing sound and intense graphics possible this side of the 21st century. Of course, there's nothing in Jon's G6-450XL that he didn't ask for. And in two years' time, when he trades it in towards a new Gateway through the Your:)Ware trade-in, his next PC will be custom-built for him in exactly the same way. But faster.

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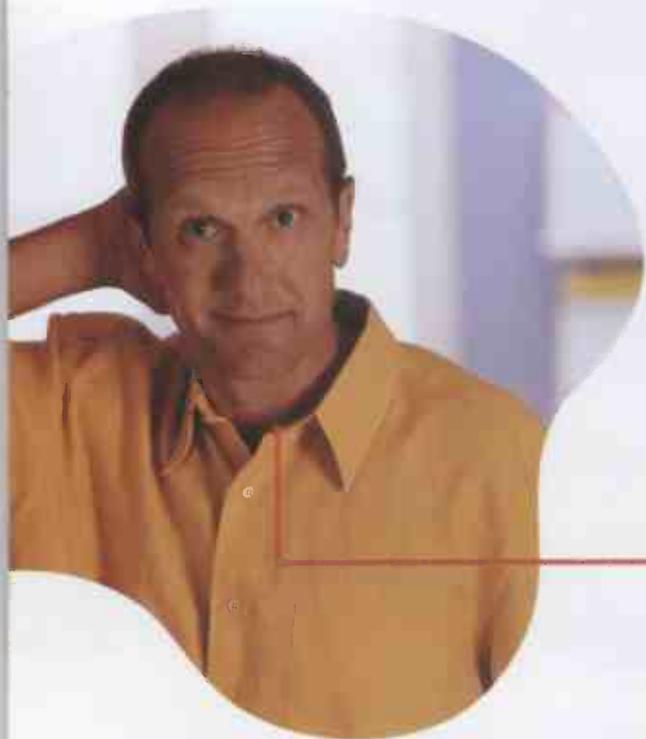
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INDIVIDUALLY TAILORED TO SUIT THEM.



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Internet, while still carrying out their separate tasks. The result: a comprehensive

long-term network solution that works for the whole company, and grows with it.

And for on-going support, Jane's pleased that the Gateway freephone lines are open

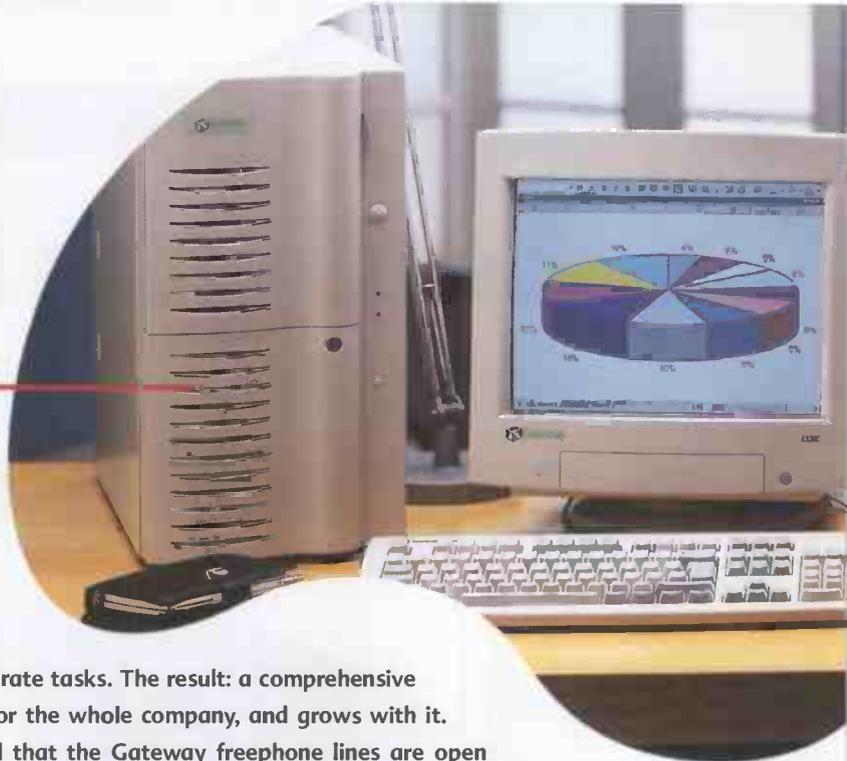
Monday to Saturday until 10pm, for hardware support from a trained technician, with one year on site support.

There's also our faxback and website to refer to, with a guaranteed e-mail response within one working day.

Neil and Jane are very pleased that they decided to talk to us. We're very pleased we could help.



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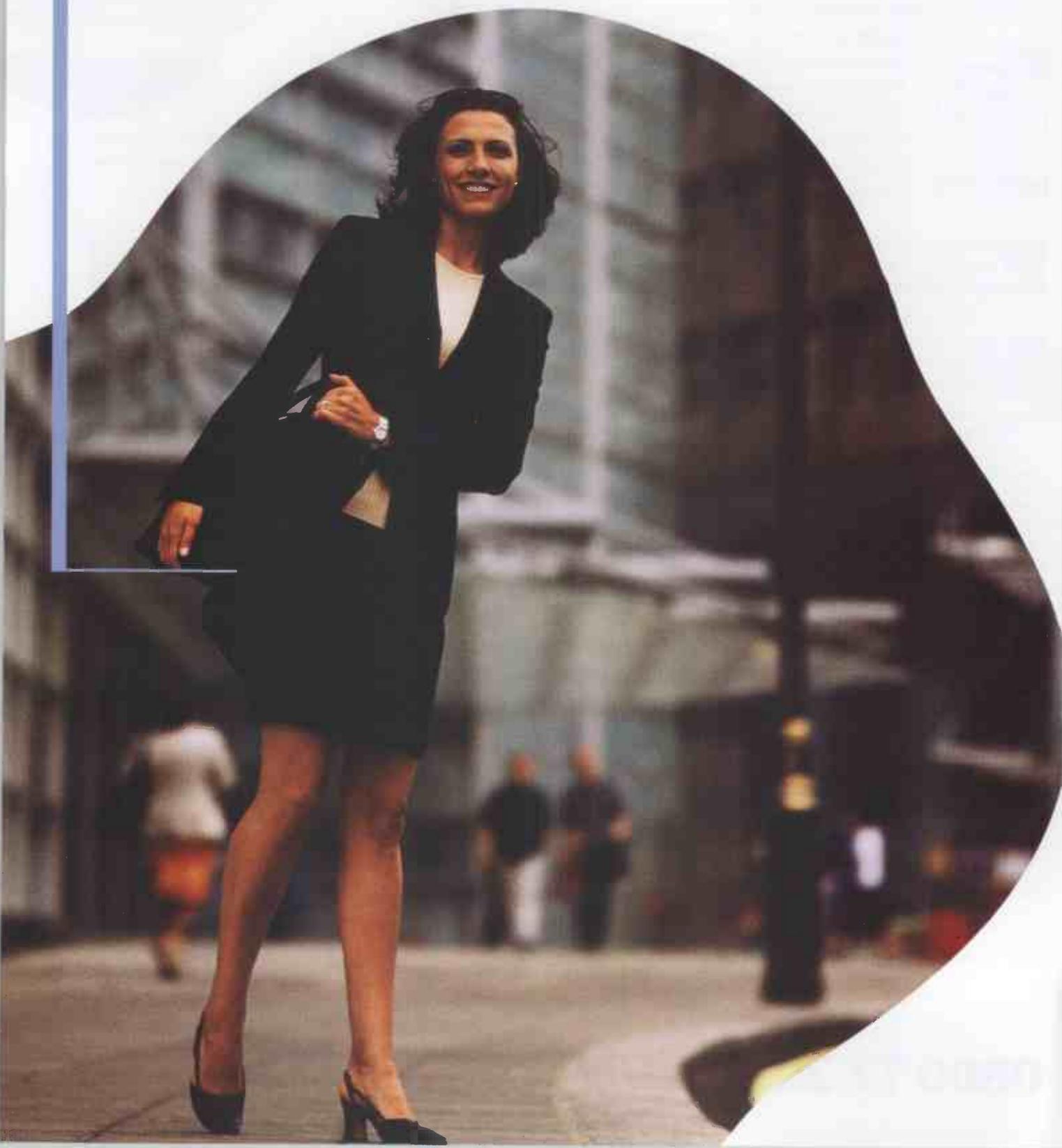

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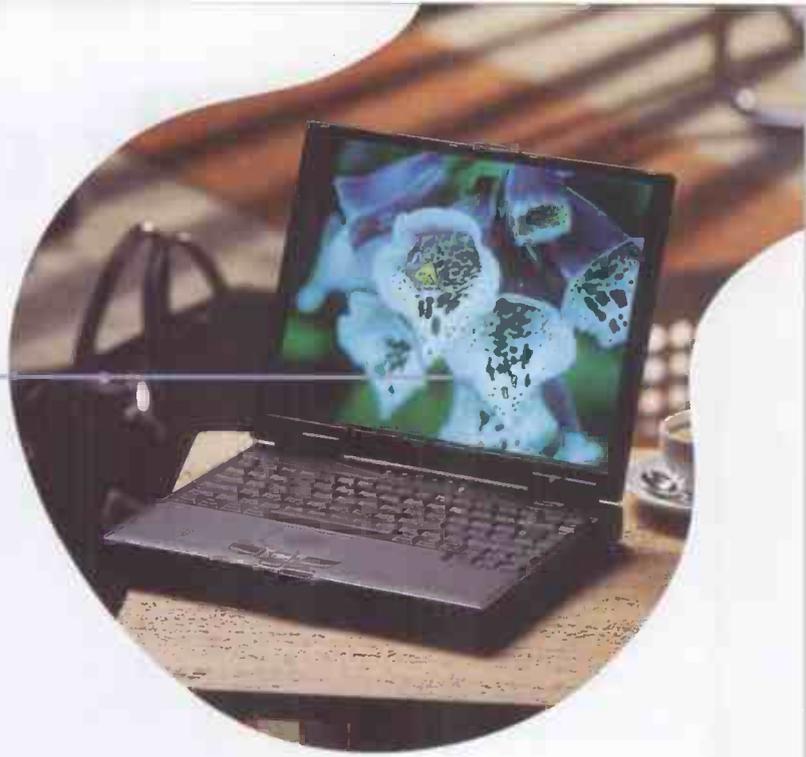
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If you dream about a notebook with a screen as big as a desktop, but weighs in at a mere 3 kilos, you need something like the one we built for Lucy. Gateway's lightest notebook, the Gateway Solo 5100 has a 14.1" screen, which has the same viewing area as a 17" desktop, meaning she can show off her latest work to best effect. Lucy's also got an Intel Pentium II 266MHz processor and a 6.4GB hard drive so she's got massive power and storage at her fingertips. The fully loaded MS Office 97 Small Business software keeps her working and in touch with the office whenever she needs to. It's probably why her colleagues don't see much of her these days.

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- **3.5" 1.44MB Modular Floppy Disk Drive**
- 8X min/20X max 150ms CD-ROM
- Neo Magic 128-Bit 2.5MB SGRAM
- Wavetable Sound with Stereo Speakers
- Lithium Ion 50Whr Battery
- Classic Carrying Case
- MS Windows 98
- MS Office 97 Small Business Edition 2nd plus MS Encarta 97 (US version) and MS Money 97
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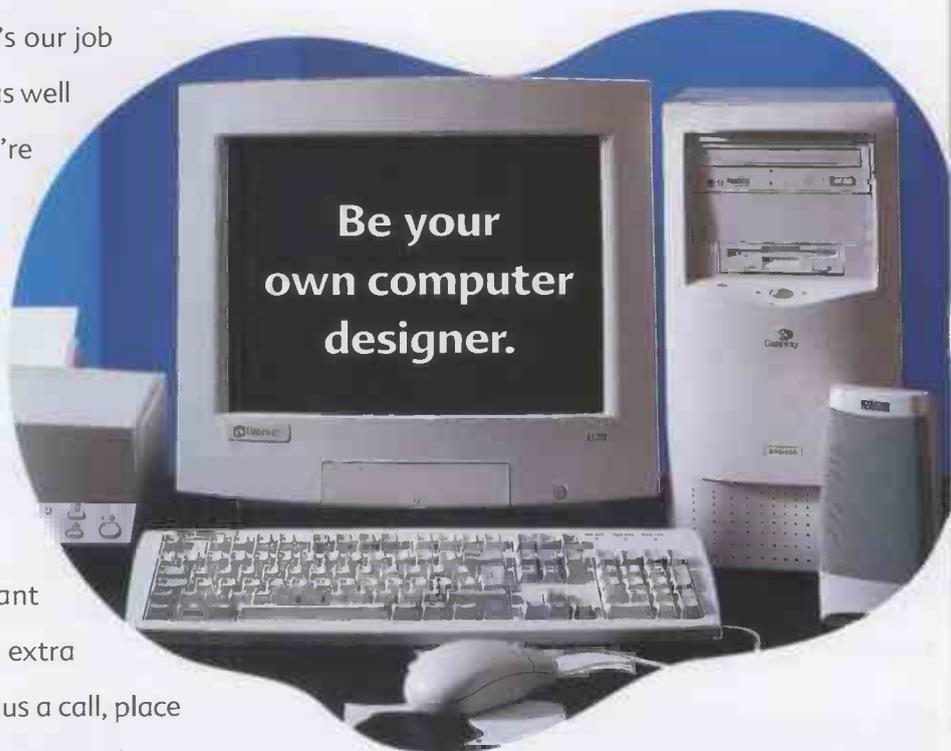
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Let's talk about your

When you call Gateway, the first thing you'll discover is that we ask a lot of questions. It's our job to find out exactly what you need, as well as what you don't. After all you're building your own PC, and it helps us to help you get exactly what you want. Our trained sales staff will do everything within their power to help you choose which software and system configuration that suits you best.

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Have you ever wanted to re-design your home or garden, create your own family tree or consult one of Britain's top TV chefs? With this bundle you can do all of this and more.

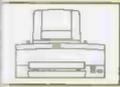
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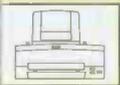
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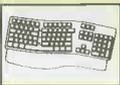
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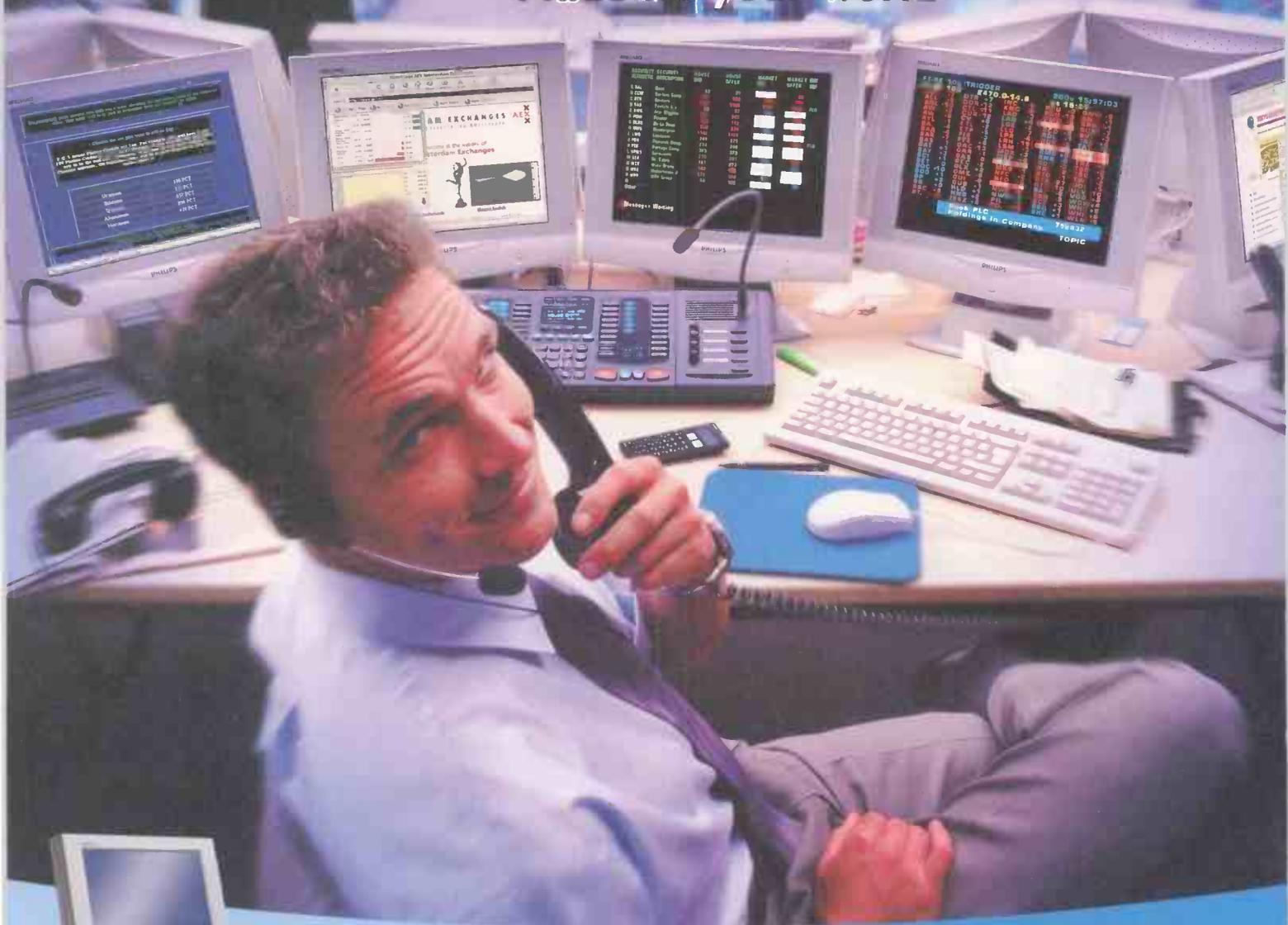
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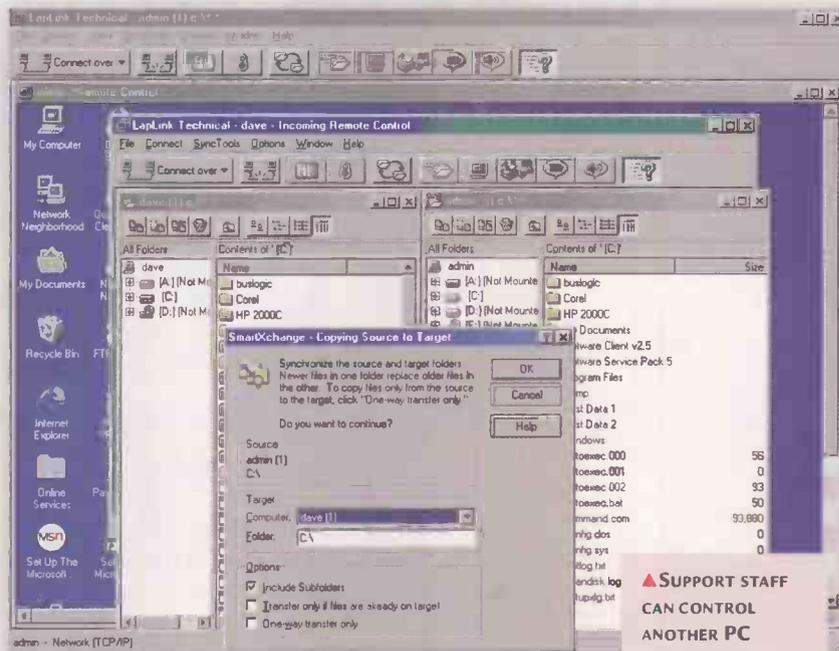
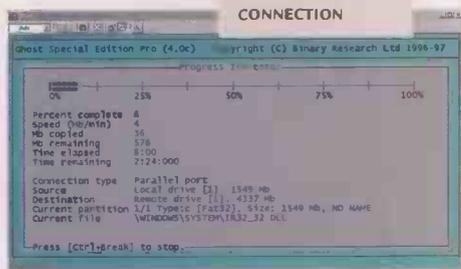
LapLink Tech v1.5

LapLink has been growing at meteoric speed. It is now capable of connecting and supporting a whole host of connection methods.

LapLink has gone from strength to strength to become a standard-setter in the realms of mobile computing and remote access. It now supports myriad connection methods backed by a host of useful tools. LapLink Tech v1.5 targets technical support staff directly and brings in some extra tools specifically aimed at easing their life. Standard serial or parallel links for local connections are available and both types of cable are included. Or, you can dial-up a remote PC directly, using modems, or link across a network. Both IPX and TCP/IP protocols are supported so, for the latter, you can access another PC over the internet for the price of a local call. Using this method can leave both systems wide open, and it's reassuring to see that LapLink comes with some tough security measures.

There are four main differences between this version and the standard LapLink. LapLink Tech now includes print redirection so a user running a remote control session can load a document on the remote PC and print it locally on their own printer rather than copying it across first. Alternatively, documents on the local PC can be printed directly onto a remote printer attached to another system running LapLink. A Chat facility allows keyboard-related conversations between LapLink users and this has now been beefed-up with support for full-duplex voice communications. Not all sound cards support this, so

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you may have to use half-duplex. In this mode, you must wait for the other user to stop talking before you speak. To help, the Voice Chat window has a small indicator in the corner that turns green when it's your turn to talk. The other two utilities are not actually a part of LapLink and are installed separately.

Ghost SE is a DOS utility for cloning complete hard disks or partitions. Support staff will find this useful as they can create a hard-disk image and restore it to a new PC. A complete byte-for-byte image, including the boot sector, can be taken so that a standard set of applications can be applied to multiple systems. Unfortunately, Ghost SE is haunted by a few minor problems. I cloned a Windows 98 system with a 750Mb hard disk onto another bare system using a parallel-port connection and it took over one and a half hours — try this with 6Gb of data and you'll be waiting the best part of a day. Ghost SE supports removable media so I cloned the same system to a Jaz disk which took 16 minutes, while restoring the image to the recipient PC took only 12 minutes. A further problem will be hardware conflicts if the recipient is not identical to the donor machine; on my system, Windows 98 spent another half-hour running a new hardware discovery routine. After that it worked fine, but

Windows NT will not be so amenable. Virus protection is Dr Solomon's WinGuard, which loads as a background task and provides real-time virus scanning. Open a file, load a floppy disk and read it, download something from the internet or copy a file from another PC, and WinGuard will check it first before allowing it on to your PC.

LapLink Tech offers no major improvements over the standard product. However, the extra utilities will undoubtedly prove useful and turn what is already an extremely good remote access product into a great one.

DAVE MITCHELL

PCW DETAILS



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Contact Traveling Software 0800 374849 www.travsoft.com

Good Points Supports a wide range of connection methods, backed by good security.

Bad Points Disk cloning over parallel connection is excruciatingly slow.

Conclusion No radical improvements but still one of the best remote access products around.

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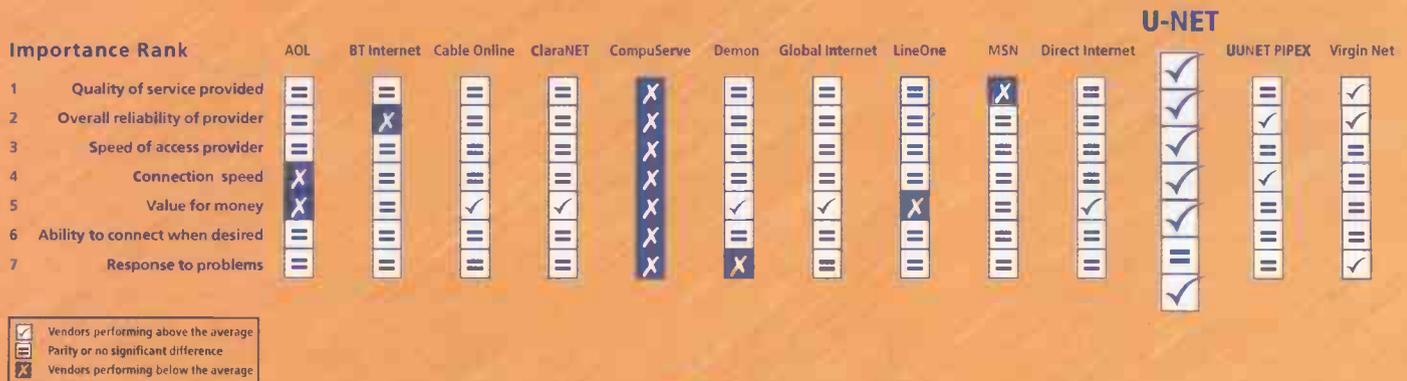
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Macromedia Fireworks

Fireworks really sparkles and makes creating complex web graphics a simple affair.

Web sites are no longer just graphics and text. Although there is no substitute for quality content, it certainly helps if it is presented well. You are not, after all, going to have many repeat visitors if the presentation of what you have written is ugly or inaccessible. Macromedia has made creating complex web graphics simple. It was formerly necessary to use a number of packages to generate many effects, but with Fireworks this is no longer true. Far more than the simple image editor it appears to be, this package is a powerful tool for generating economical elements while retaining high image quality.

First time users would be wise to start working through the tutorials in the manual, which start by introducing the user to the 32 basic tools and the toolbars used to generate and customise images. Each lesson is presented as a case study, outlining a problem and its solution. Launching with a look at image maps, it shows that users no longer need to create the base image in one package before either loading it into an image mapper or embarking on the rather fiddly process of working out the coordinates themselves.

Fireworks cuts out the need to switch packages, by using the same selection tools utilised in the original drawing process to define the map hotspots. Similarly, its innovative use of a layered effect allows for the easy creation of animated gifs. It was previously necessary to paint several images, each of which would be loaded into a generator for sequencing.

Fireworks is intelligent enough to realise that a multi-layer image could potentially be an animated gif and presents this as a file-type option in the Save dialog. Before committing yourself to exporting your work, an option for previewing the animation allows for image-quality

A powerful tool for generating economical elements while retaining high image quality



tweaking and the fine-tuning of timings between frame changes.

One of its most impressive functions is its simple creation of rollover buttons; in effect, an image that hides another behind it — rolling the mouse over one reveals the graphic beneath. This is most often used to “highlight” a button but can be put to good use by placing context-sensitive help beneath an image that links to another part of your site. It’s a simple concept, but it takes a certain amount of complex programming to put to use. By setting up the initial image and the rollover on separate layers, Fireworks will allow you to export the graphics with the associated HTML section which can then be copied and pasted into your own pages. Drop shadows with faded edges, as well as highlights or emboss effects

employing a portable light source, can be applied with a single mouse click. Further, Fireworks understands that users may start

with an original image from a digital camera or scanned photo onto which they wish to overlay drawn elements. While the images retain their bitmapped format, the vector objects are formed using paths and brushstrokes, which effectively means they can be edited and

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filled without damaging the

underlying structure of the photograph. With a 30-day trial version available on the net, Fireworks is not a fully-fledged web-page creation package, but then, it doesn’t set out to be. It will not generate award-winning pages from scratch, sorting out tables, frames and style sheets; that is left to the likes of FrontPage 98 or HotDog. Fireworks will, however, generate the JavaScript coding necessary to create impressive content. Its real strength, though, lies in its ability to produce space-saving graphics that retain their original high-quality look. It does this well, and will enable even the greenest of web designers to produce graphics and menu elements that lend an air of quality previously only available to those who could afford the services of a professional developer.

NIK RAWLINSON

PCW DETAILS

★★★★★

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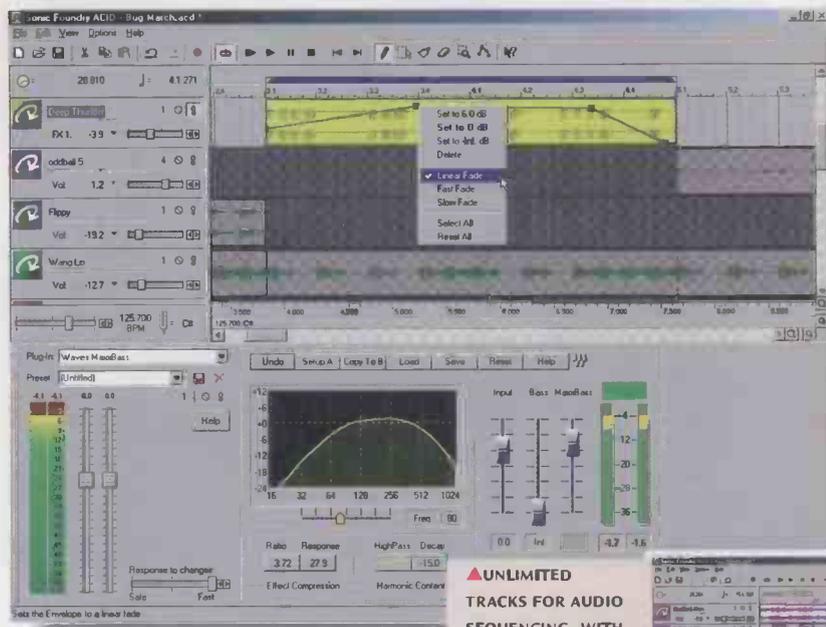
Good Points Easy to use. Logical interface. Impressive results using the minimum of web space. 30-day free trial on the net.

Bad Points Don't expect it to produce your whole site for you.

Conclusion A must-buy product for anyone serious about web design.

Sonic Foundry Acid

This music production tool with **editing facilities** and a wide selection of samples is a real breakthrough.



Acid is a breakthrough loop-based music production tool. Its concept and approach to making music is entirely new. It enables users of all skill levels to produce high-quality, royalty-free music from a wide selection of audio samples. What sets Acid apart from any other multi-track audio recorder with editing facilities is its ability to recognise the key (pitch) and tempo (speed) of any audio sample and then make it "fit" musically within an arrangement. If you have worked with audio samples in the past, you'll appreciate how time consuming this can be using traditional pitch-shifting and time-stretching processes. Moreover, these processes may not always yield high-quality results. With a mixed bag of

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samples loaded into an arrangement, piecing a tune together simply involves selecting the pencil tool to "paint" elements on to a musical canvas. Acid takes care of the technicalities; all you need is an ear for what sounds good. The installation takes up only 5Mb of disk space for the program files. On the CD there's over 500Mb of audio samples (pop, rock and dance) to kickstart your collection.

The main screen is divided into three areas: track view, track display and a multi-function window. Tabs in the bottom right of the window allow you to view the Media Explorer, file properties, audio mixer and up to eight DirectX plug-in effects. Acid's Media Explorer works in much the same way as the Windows Explorer, showing the available drives and folders in a tree structure. With the File Preview option enabled,

audio files can be auditioned in context with the tune on which you're working. Double-clicking the file creates a new track for the sample and the pencil tool can be used in the track display to paint the sample into place. Once a sample reaches its end, it loops back to the start, enabling you to carry on painting.

Audio files are played back according to criteria set in the audio properties view. These include whether or not a sample should be time-stretched and/or pitch-shifted to match the key and tempo of your arrangement, and whether files should be played from hard disk or loaded into RAM. Despite being flagged as a loop-based production tool,

Acid will also work with single-shot samples, or non-looping material. Saving a file with these settings is known as Acidizing and all the audio samples on the CD come pre-Acidized ready for use. A multi-

function slider in the track view lets you alter settings for volume, pan and effect send levels. The effect sends are configured as pre-fader, which allows insert-type signal processors to be used on individual tracks. Settings can be automated throughout a mix by superimposing envelopes over audio regions. Linear and logarithmic curves are available. The key and tempo are configured globally with the tuning fork and BPM slider, and markers can be placed above the timeline to change these at any point.

The concept is simple but Acid can be used to create complex mixes with the minimum of fuss. The time-stretching and pitch-shifting algorithms are among the best I have come across, and with support for multiple-output sound cards, Acid is well-suited to more professional applications that may require external mixing and processing.

STEVEN HELSTRIP

PCW DETAILS

★★★★★

Price £249 (£212 ex VAT)

Contact SCV London 0171 923 1892

www.sonicfoundry.com/acid/

System Requirements 133MHz Pentium, 32Mb RAM, Windows 95 or NT. Pentium II recommended for real-time effects.

Good Points Easy to use. Flexible. Multi-I/O support. Comprehensive syncing. Stable.

Bad Points Response from plug-in effects is slow. No scissors tool.

Conclusion A simple yet powerful audio package with plenty to offer every type of user.

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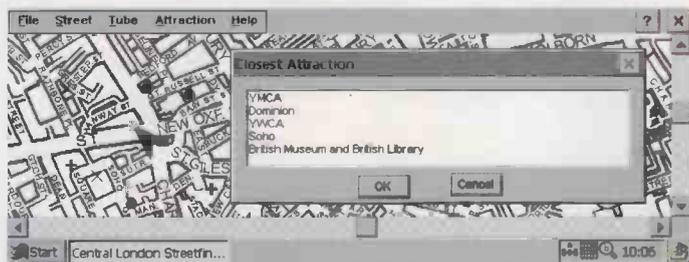
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London Access

London Access makes **finding your way** around the capital almost instantaneous.

You can usually spot a tourist in London because his rucksack will contain a brand new London A-to-Z which is furtively consulted on street corners. Indigenous Londoners, on the other hand (on anything but their commuter run) may have a battered copy sticking unselfconsciously out of their jacket pocket because they understand that almost no-one, apart from London cab drivers, can carry the knowledge in their heads.

London Access provides what is essentially the equivalent to a London street map, but with a major difference. Instead of the index in the back, it has an electronic finder. As you begin typing a street name, it will display a gradually diminishing list of streets that match the characters you are typing. As soon as you see the one you want, you can select it and the pointer on the map will jump to the correct location. The "find" is almost instantaneous on an HP 620. You can



◀ FIND
YOUR WAY
IN
LONDON,
FASTER
THAN A
SPEEDING
BULLET

PCW DETAILS



Price £30 (ex VAT)

Contact Dynamical Systems Research
0171 584 0084

www.londonmap.com

Good Points Fast. Portable.

Bad Points Doesn't cover the outskirts of London.

Conclusion Go on — treat yourself.

also search for "attractions" such as museums, theatres and so on, and there is a useful option to find the "closest attraction" to your selected street. One minor gripe is that the map doesn't cover all of London and not even as much as a printed A-to-Z. For example, going east, it peters out around Whitechapel. So, oddly, the built-in London Underground planner knows all the tube stations, even if the map doesn't show where they are. Nevertheless, this is a minor gripe compared to the advantages. If you already have a Windows CE machine, buy London Access and sell your A-to-Z to a tourist.

MARK WHITEHORN

Inspire 3D

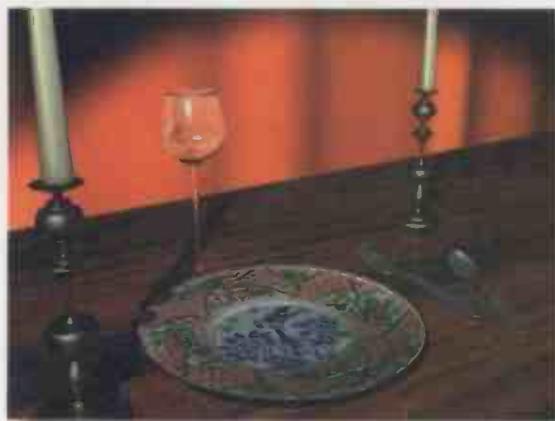
With this light version of LightWave 3D, aspiring animators will be able to **create and manipulate** objects with ease.

This is the latest 3D package from NewTek, famous for its LightWave 3D, one of the most versatile high-end software packages in computer animation. It has been used to create some of the most memorable special effects in Hollywood blockbusters like Titanic, Starship Troopers and Lost in Space.

Inspire 3D is a "lite" version of LightWave, boasting about 90 percent of its features. Like LightWave, Inspire 3D is split into two applications: the Modeller and Layout (renderer). Modeller is the application used to create objects. Manipulating 3D objects in the Modeller is slightly different from touching up 2D pictures in more common image-editing programs like Photoshop. This is because a 3D object has three axes and all three must be manipulated. The Layout tool is the application used to create the surface texturing of objects. For instance, if the 3D object created in the Modeller were a ship, you could add

surface textures such as metallic hull plates, wooden boards for the deck and glass cabin windows. Rendered scenes can be animated by specifying a series of key frames. The software takes care of rendering objects in between each of the key frames, creating a fluid animation. Inspire can render still images up to a resolution of 8000x8000 pixels, but animations are limited to 640x480, to prevent its use in professional TV or video work. Inspire 3D also lacks support for multiple processors. But even considering these limitations, it's still a versatile animation package.

AJITH RAM



◀ USE THE LAYOUT
TOOL TO CREATE
SURFACE TEXTURES

PCW DETAILS



Price £441 (£375 ex VAT)

Contact AMGfx 0171 468 3444

www.newtek.com

Good Points Has many features previously available only in high-end animation packages.

Bad Points Steep learning curve.

Conclusion A comprehensive package for aspiring animators and hobbyists.

Resolutions up to 1600 x 1200 @ 85Hz

Easy to use advanced on-screen digital controls



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RealPlayer Plus G2 BETA

Useful improvements for an already excellent multimedia streaming software product.

Real Networks continues to tweak its multimedia streaming software. Beta versions of the various components of RealSystem G2 are available at the company's web site, and Real Networks is continuing its practice of giving away the basic Player and charging for the more sophisticated Player Plus software.

Web authors can now stream two new datatypes, RealText and RealPix, that allow high-resolution pictures and scrolling text to be streamed along with RealVideo and Audio. Real Networks claims that its SmartStream technology can eliminate rebuffering by improved communication between client and server: the bandwidth can switch between settings of 14.4K to 56K according to the client bandwidth and



▲ THE REDESIGNED REALPLAYER INTERFACE

subsequent packet loss, thus minimising rebuffering. You will only notice this difference, though, if the author of the page has used the RealSystem G2 to encode the Real file, so it should be a while before the long-term benefits are felt. Other, more tangible improvements are to be found with the redesigned interface. The Plus

version offers one-touch channels and picture-quality controls are now included, as well as a 10-channel graphic equaliser. These are useful improvements to what was already an excellent product. But as the software becomes more ambitious, the more it exposes limitations in the delivery medium. So, until there is a delivery system capable of transferring megabytes per second, the RealPlayer Plus is as good as it gets.

PAUL TRUEMAN

PCW DETAILS

★★★

Price US\$29.99

System Requirements Windows 95/NT, P133, 16 Mb RAM.

Contact Real Networks www.real.co.uk

Good Points User-friendly. Lots of options.

Bad Points Still struggles to play decent video at 56Kbits/sec.

Conclusion Miles ahead of the competition but limited by bandwidth

Truster 2.40

With your very own lie detector machine you may never again fear telesales canvassers.

Five double-glazed windows for the price of one sounds too good to be true, but how can you be sure when you get cold-canvassed at the end of a busy day? Originally designed for counter-terrorism, Truster is now available to the public and could well help you to decide. The main requirement is a phone with a standard receiver base. The receiver is plugged into a splitter box, one cable from which is put back into the receiver socket on the phone base while the other goes to the sound card. The software samples voices at the beginning of each conversation to calibrate itself before passing judgement.

Analysis is shown as a series of graphs, with a text judgement ranging from "Truth" to the rather more incriminating "Outsmart" or "False Statement". It does this by measuring the changes in the speaker's voice, as a lie induces a

▶ 'I'LL RING YOU BACK... HONEST'

slightly increased pulse which draws blood away from the vocal chords. In most of our tests we found its results to be fairly reliable as long as an unsuspecting subject was telling fairly serious lies. Once we confronted our callers and they began to backtrack, Truster cleverly warned us that what we were hearing was "Avoidance/Voice Manipulation". We were a little concerned that when we ran the same lengthy recorded message through Truster several times, it gave different judgements on each occasion, throwing some doubt on its claim of 85 percent accuracy.

NIK RAWLINSON



PCW DETAILS

★★★

Price £111.63 (£92 ex VAT)

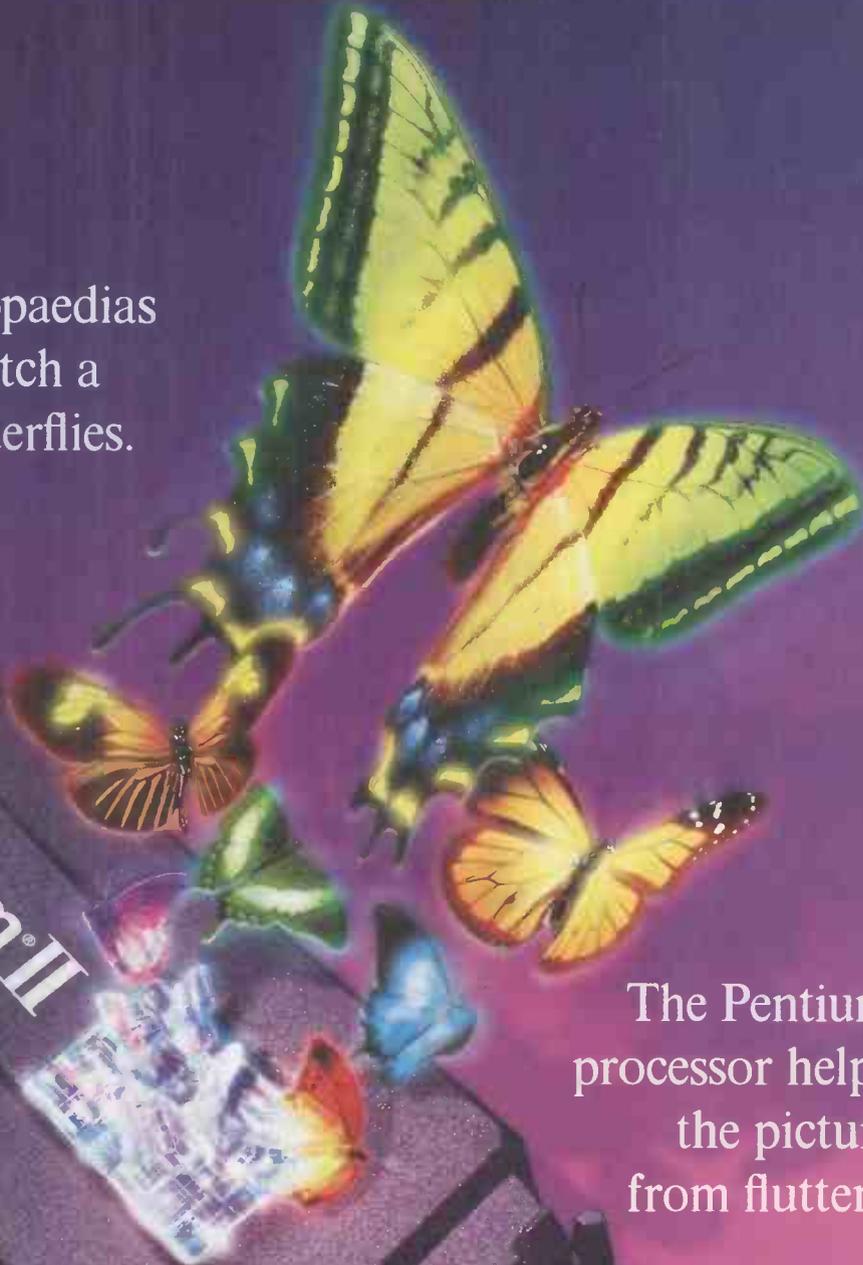
Contact Hundred Islands Technologies 0171 720 3555 www.truster.com

Good Points Easy to use. Gives a unique slant to conversations.

Bad Points Expensive. Should only be used as a guide.

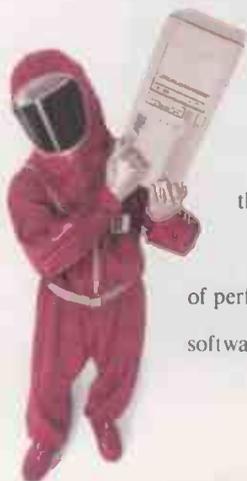
Conclusion Fun, but potentially insidious. For entertainment only.

Interactive encyclopaedias
let your kids watch a
video clip on butterflies.



The Pentium® II
processor helps keep
the picture
from fluttering.

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Smooth-running video. That's just one
way the Pentium® II processor can enhance
the experience of today's popular software.

In fact, it's engineered to deliver an array
of performance improvements. With today's optimised
software, you can see graphics in lifelike 3-D. Not just



hear, but experience full sound. And enjoy a leap in
processing power that lets you get more out of today's
multimedia applications—whether they're educational,
entertainment or reference.

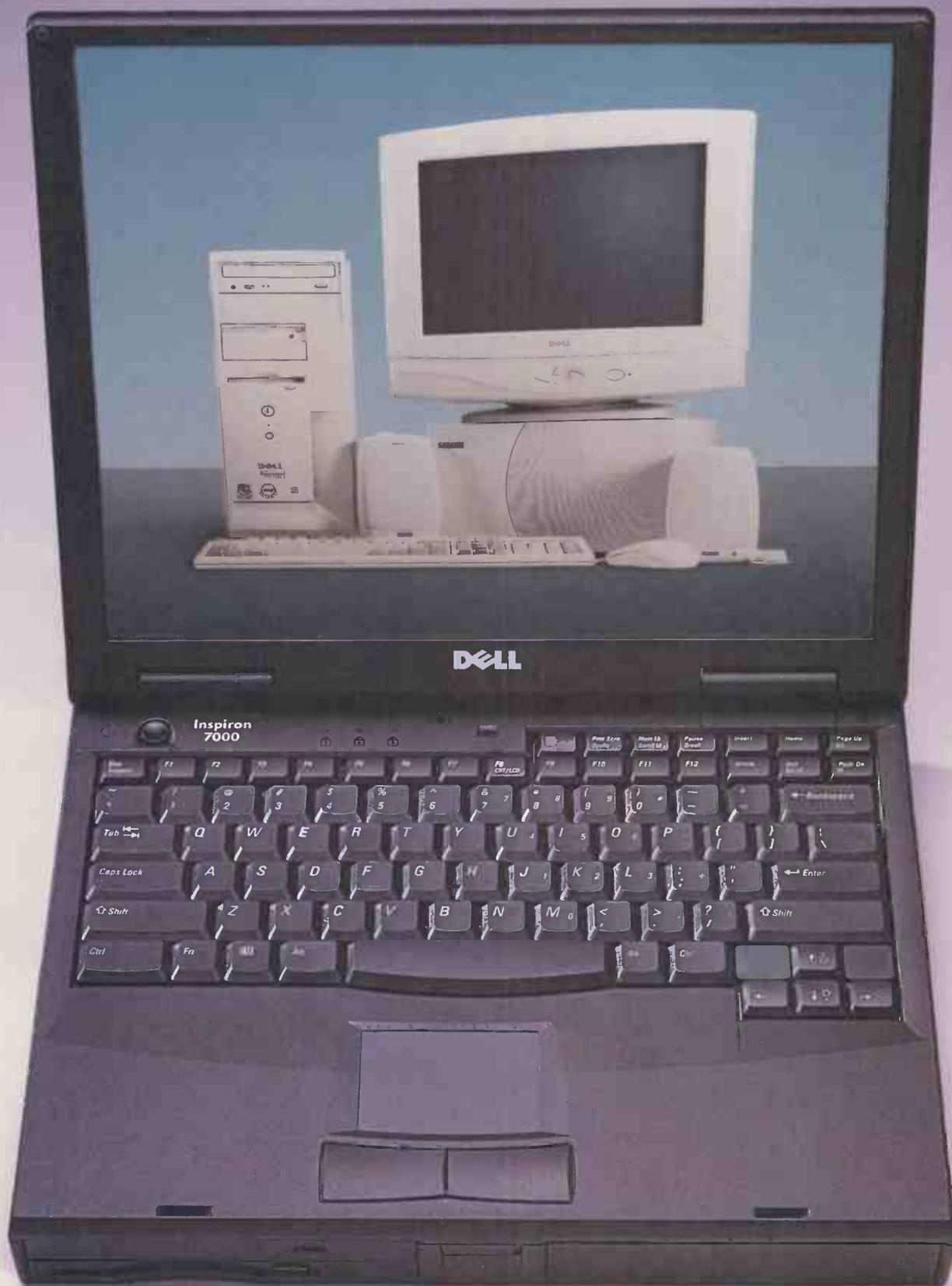
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- 2 Cardbus PCMCIA type II slots
- Lithium Ion Battery
- Touchpad with 2 buttons
- Zoomed Video Support
- Infrared communication port (IrDA 1.1 compatible)
- USB Port
- Microsoft Home Essentials 98
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3Com PalmPilot Pro & Desktop for Windows

Tested over six months

Keep your PC and organiser in **perfect harmony** as the last paper bastion takes it on the chin from this little

My old but trusty paper personal organiser had taken on a rather battered appearance some time earlier and was well overdue for replacement, but the small or non-standard keyboards on most Personal Digital Assistants (PDA) had always deterred me from "going digital". Six months ago, though, the unthinkable happened. Who knows? Maybe one day I'll find my organiser and I'll be able to look back on the whole episode and laugh; at the time, though, it was anything but funny. But there is a silver lining to all clouds and in this case it took the form of the PalmPilot Pro, which replaced my little black book.

Pocket-sized (8cm by 12cm and 1cm thick), the device has a large LCD for both display and input. A stylus, that slips neatly into the body for storage, is used to enter information either by tapping on a small representation of a QWERTY keyboard (which easily switches into a numeric keypad) or via the handwriting recognition area of the screen. The latter requires characters to be drawn in a particular way and although I wondered how practical this facility would be, text entry can be mastered swiftly and 100% accuracy is possible with just a little practice.

The built-in software includes a standard suite of address book, diary, notebook, To Do list and calculator. A game which lets you practice handwriting input, an email client and an expenses record are included, clearly indicating this is a product aimed at businesspeople. What makes the PalmPilot stand out is the HotSync utility which enables the records in the PalmPilot to be synchronised with those on a desktop

PC and vice-versa. Having installed the software, the PalmPilot Desktop, and connected a cradle to a serial port on the PC, synchronisation is achieved by pressing a button on the PalmPilot. The Desktop software mirrors the suite on the PalmPilot and data can be entered on either device. The HotSync process can be tailored to your needs and a number of options are offered, ranging from overwriting the records on one machine with those on the other, to merging all of the records and updating both. One drawback is that add-on software is needed to HotSync with systems other than the PalmPilot. That said, interfaces for all common PIMs appears to be readily available.

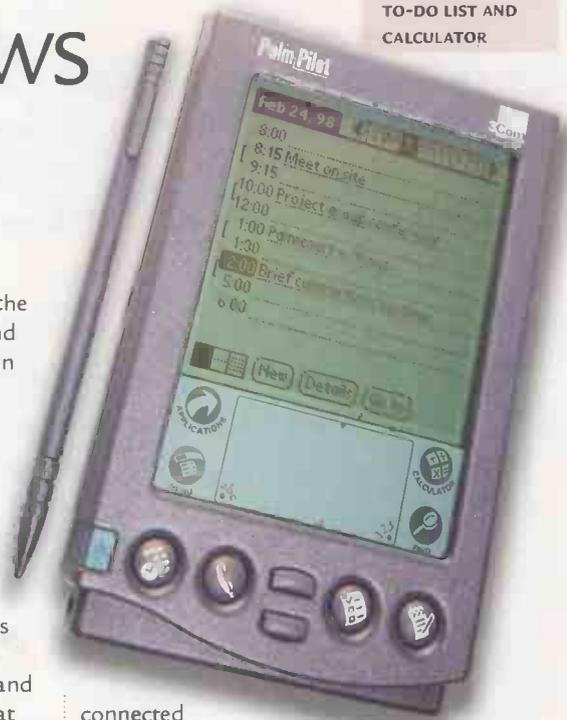
I tend to judge how good a piece of software is by how far you can get before having to refer to the instruction manuals. In this respect, the PalmPilot scores well. The software and communications link between PC and PalmPilot installed easily and the user interface is intuitive, offering more than just a functional front-end for the PC.

The PalmPilot Desktop is closely integrated with Microsoft Office, enabling data to be exported to MS Word, MS Excel or the system clipboard by dragging the required data on to an icon. Macros offering a variety of formatting options are included to make exporting data easy; addresses, for

example, can be used in a mail-merge or to produce labels.

Emails can be prepared on the PalmPilot and, following synchronisation, are ready to be sent from the PC. For those who really need to be able to communicate on the move, a PC is not essential and a modem can be

▼ ADDRESS BOOK, DIARY, NOTEBOOK, TO-DO LIST AND CALCULATOR



connected to the slot used for HotSync. Despite the lack of support for Outlook, the PIM and email client supplied as part of MS Office, the PalmPilot and its Desktop email system are well integrated with MS Exchange.

The acid test for any gizmo, though, is whether it ends up gathering dust on a shelf somewhere, the novelty having well worn off. Well, six months on, the PalmPilot is still with me. There are times when it would be nice to be able to jot down a quick note on paper, but this drawback is far outweighed by the benefits of being able to swap and synchronise my personal information between PC and Organiser. And, you know, there are some rather neat little accessories you can get for it, too...

GARY BEATON

Text entry can be mastered swiftly and 100% accuracy is possible with practice

PCW DETAILS

★★★★★

Price About £160 (£136.17 ex VAT)

Contact Infoline 0800 225252

www.palmpilot.com

Good Points You can ensure that your Organiser diary says the same as your PC.

Bad Points Needs a spare serial port to link to a PC. The handwriting recognition may not suit everybody.

Conclusion A convenient and practical replacement for the paper personal organiser.

Demon Internet

FAST WWW SERVICE, TECHNICAL SUPPORT AND AN EXCELLENT WEB SITE

Tested over three years

Demon takes the devilment out of the net, providing an inexpensive, quality service.

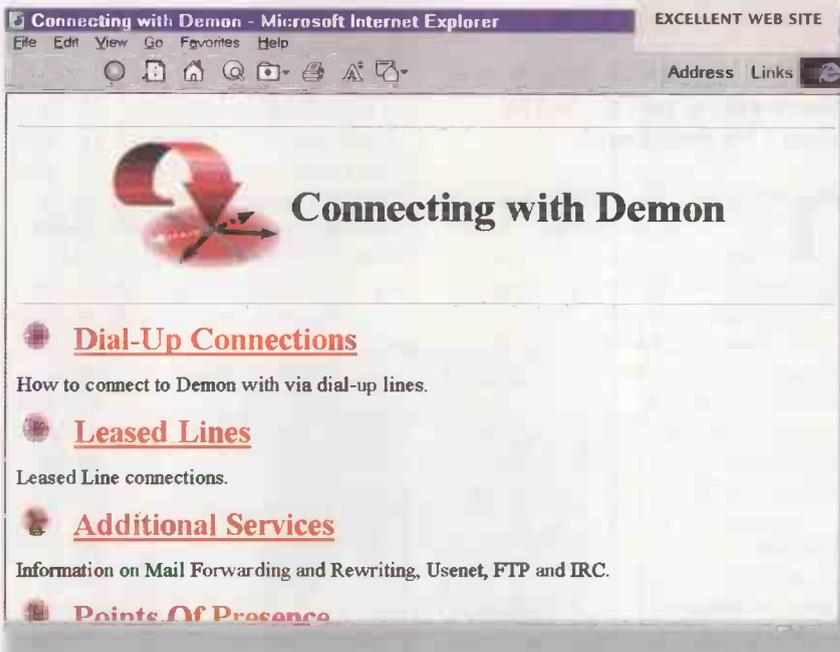
I migrated to Demon Internet three years ago after a couple of years online with CompuServe. I was spending more and more time on the web — expensive, with CompuServe fees added to the phone bill. I subscribed to both services for a while but couldn't justify the cost and opted to go with Demon, which seemed in the vanguard as the web developed.

I noticed immediately the faster WWW service from Demon — and missed the excellent moderated CompuServe forums. I still think CompuServe Forums are better than Usenet groups. Moderation in all things is my motto. With Demon I noticed how techie it all seemed compared to CompuServe. I have needed to use telephone support lines very few times in my years online. CompuServe were friendly and helpful; Demon *tried* to be helpful but were plainly exasperated by my relative lack of know-how. (I was renting some commercial web space and unsure how the system worked.) Since then I've solved my own problems, so it's been good for me in the long run.

Three years is a long time in comms, though, and these days Demon are pure pussycat, I'm told. The Demon service is volatile. I was tempted to

say diabolical, but my sense of fair play overcame my love of cheap jokes. Sometimes email is received and posted in a flash. Other times the mail system seizes and times out. Sometimes I just give up and try again later, but it can be very frustrating. Just like the Post Office, in fact. I can usually connect first go but am frequently informed that "the remote server has unexpectedly closed the connection". It's one of the net dilemmas: you never know whether your ISP is at fault or something has trashed your settings. But a friend suffers the

All in all, for a tenner a month you can't go wrong



same frequent cutoffs, so it's probably Demon. The Demon Web connection seems as fast as any other. I've worked at large companies where even a dedicated line doesn't improve access.

The bottlenecks are many — and mostly lie further out in the net. I've found the 5Mb of free web space useful. As a professional photographer I have my portfolio on-line; so far it's brought me in £700-worth of work. Not a fortune, but bear in mind that my Demon subscriptions from day one have amounted to less than £500. The amount of free space is now 15Mb, which is ample for most people.

CGI, which amounts to forms and hit counters, basically. But you can have RealAudio, so your home page can not only show your public how wonderful you are, it can tell them, too.

Which brings me to a gripe. I run an online Theatre, The Surrey Stick Figure Theatre of Death www.c-cat.demon.co.uk/theatre/. When I wanted to publicise it, I sent a four-line note of its existence to 25 humorous newsgroups. This was a small representative selection of the humour groups on Usenet, there

There are limitations, of course. You can only run a Demon supplied

was no commercial interest involved and it was strictly relevant to the groups' interests. Demon promptly closed down my site for excessive cross-posting — 25 from 26,000 newsgroups! The site was reinstated after emailed, faxed and snail-mailed apologies. If ever you hear ISPs bleating on about freedom of speech, remember they are quite happy to act as both prosecution and judge to stifle it themselves — and with no right of appeal.

All in all, for a tenner a month you can't go wrong. Demon have been around a long time (by ISP standards), and they run a superb web site at demon.net. I believe they are now distancing themselves from their techie past and becoming a more consumer-based service. Their new "fax by email" service and *Demon Dispatches* magazine show the trend, which will be hastened by the Scottish Telecom takeover.

DAVID THORPE

PCW DETAILS



Price £10 per calendar month (£11.75 inc VAT)

Contact Demon Internet 0800 458 9666 www.demon.net

Good Points Local call access, free web space, comprehensive service.

Bad Points Occasional email seizures, dropped connections.

Conclusion As good as any, better than most.

Packard Bell Executive PC

Tested over three years

Technology shifts greatly over three years, but a solid PC won't let you down.

Three years ago, technology was at the early Pentium stage and prices were not too savoury. It was at this time that my mother took me to Curry's to get a computer. The final decision was a Packard Bell multimedia system. It was based around a Socket 5 P60, with 8Mb RAM, a quad-speed CD-ROM drive, and a 504Mb hard disk. It came bundled with multiple pieces of software, most of which showed off the then high-tech hardware.



Windows for Workgroups 3.11 was the standard operating system, with DOS 6.22 underneath. There was no modem or any backup device as seen in similarly-priced systems. The hard-drive had more than enough room for Office, and only started to struggle when Windows 95 was installed. Inside, the case it was a bit of a mess. The processor was placed close to the fan, but this didn't provide adequate ventilation as it frequently overheated and crashed.

Recent installation of RAM passed easily, as two of the four SIMM sockets were not covered up by anything. The monitor

was a 14in model with a maximum resolution of 1024x720 at a flickery 60Hz. The colour is, to this day, even and crisp.

The Packard Bell Executive PC has served us well for the past three years, and has taught me lots about computing. Its original price of £2000 included a Canon BJC-4000 bubblejet printer, the quality of which was not great but was certainly adequate. One of its few down points of this system is that it is not upgradable without purchasing a new motherboard.

PAUL O'NEILL

PCW DETAILS



Price The Pulsar range starts from £1,099 (£935.32 ex VAT)

Contact Packard Bell 0990 500049

Good Points A very reliable PC.

Bad Points Expensive to upgrade.

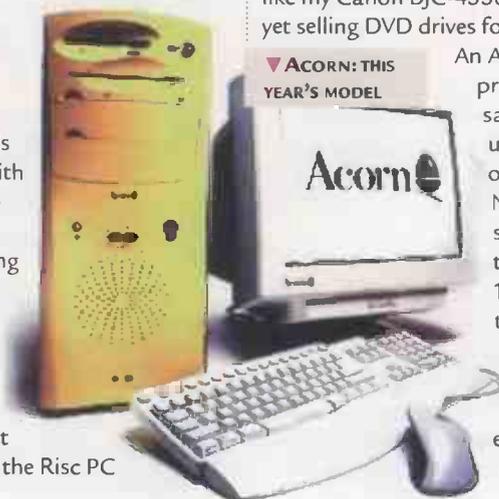
Conclusion A solid buy.

Acorn Risc PC600

Tested over four years

If reliability is what you look for in a PC, you will have to trade off a little flexibility.

When I first heard of the Risc PC600 back in 1994, I instantly wanted one. For around £1000, it offered 24-bit graphics, stereo sound and an operating system kept securely in ROM. It was also the first of Acorn's RISC machines with a slot for an Intel-compatible processor, allowing Windows-based software to be run at an acceptable speed. Acorn broke with its past by trying to make the Risc PC



use industry-standard hardware rather than with its own proprietary designs. Thus, the Risc PC uses standard SIMMs, the keyboard uses a PS/2 connector and, with an adaptor, ISA expansion cards can be used. However, increasingly, the Risc PC has been unable to keep up the pace with PC developments: Acorn's printer drivers do not currently support Photoreal printers like my Canon BJC-4550 and no-one is yet selling DVD drives for the machine.

▼ ACORN: THIS YEAR'S MODEL

An ARM600-series processor, the same series as used in the original Apple Newton, came as standard with the Risc PC. In 1996, I upgraded this with a 202.4MHz StrongARM processor; the effect was an approximate

seven times speed increase, and made the Risc (on paper) significantly faster than any Intel-based PC, albeit only for a few months.

Risc OS 3 has never been widely used outside of education. But, despite the launch of Window 95 and 98, it remains a capable alternative. Being stored in ROM, it never requires re-installing. Also, the OS rarely crashes. It might not be widely used; but, hey, at least it works.

ALEX SINGLETON

PCW DETAILS



Price Risc PC600 discontinued. StrongARM version around £800 (ex VAT) on the street.

Contact Acorn Computers 01223 725000 www.acorn.com

Good Points Reliable OS and PC co-processor.

Bad Points Lack of drivers and software.

Conclusion It's a lot more reliable than a Windows-based machine.

Cambridge

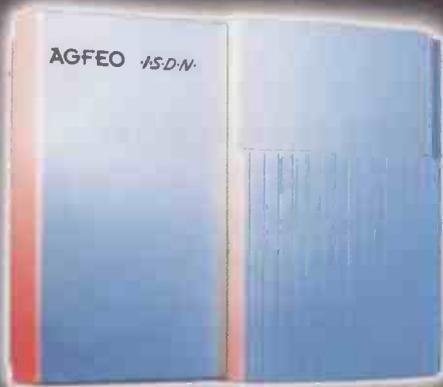
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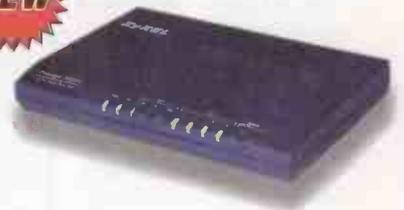
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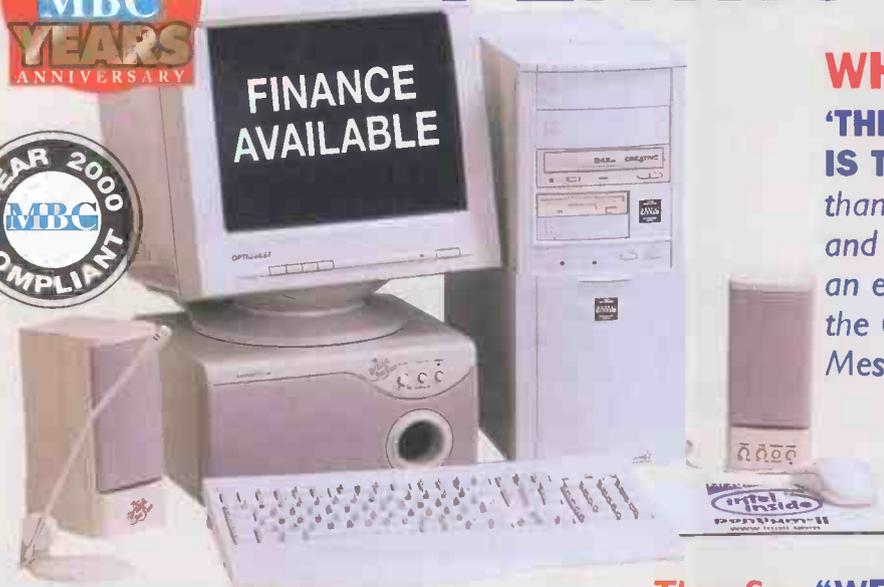
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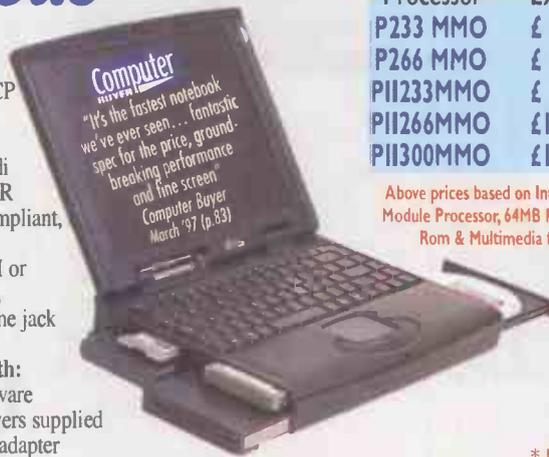


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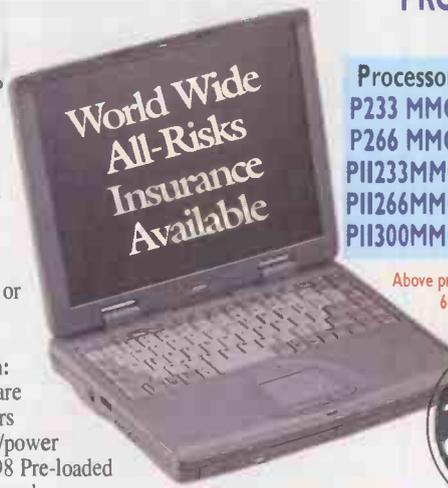
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The burgeoning low-end PC market is the **latest arena for competitive retail giants** — and now Tesco has jumped in. George Cole talks to PC World marketing director, Nicholas Cadbury, and Tesco product development manager, Ian Sinclair, about retailing and off-the-shelf PC prices.

Checking out the cheap end

LAST SUMMER, SUPERMARKET GIANT, TESCO, ENTERED THE HOME PC MARKET. Following sales trials of Siemens-Nixdorf PCs at its store in New Malden (where customers could buy one for £679) Tesco began selling higher-priced and higher-specified Siemens-Nixdorf PCs at its stores in Banbury, Gloucester, Brookfield, Brent Park and Twickenham, and is now selling Fujitsu PCs. It is no coincidence that Siemens-Nixdorf supplies Tesco's back-office system, and Fujitsu, the company's mainframes.

Lower-priced PCs are not new but whereas these have tended to be obsolete or end-of-line products, Tesco's machines offer a good specification, including a large hard drive, Pentium II processor, lots of memory and useful pre-installed software (see the panel on p126). Tesco also sells Lexmark printers in several stores, and is now even an ISP through its TescoNet service. Shortly after, the computer superstore PC World, which has 56 stores nationwide, announced two, new, lower-priced PCs at £599 and £699 — and neither were these low-end machines.

Vendors have seen the deals that are being offered in **THE SUPERMARKETS IN EUROPE**; they see enormous potential and we've been able to take advantage of this

We talked to Ian Sinclair, Tesco's product development manager for PCs and peripherals, and Nicholas Cadbury, PC World's marketing director, in a head-to-head interview. Many issues were covered, including whether UK PC prices were too high, whether software prices are likely to fall, and even what the PC of the future might look like.

Is a supermarket the ideal place to buy a PC?

Ian Sinclair: We believe it is. It's the simplicity of it — there's someone in-store to whom people can talk, the PC is at a good value price and it's a brand name. One of our criteria was that we had

to have the right level of expertise in the store and so the assistants selling the PCs have been supplied by the vendors, Fujitsu or Siemens-Nixdorf. Our customers have spoken; by buying the PCs.

Nicholas Cadbury: We don't believe it is. The customer segment and the market is fairly wide and it is important to offer a choice of product. Customers are not just looking for a box, they're looking for solutions. There is a variety of PCs which can offer different things. We think price is important but so, too, is service — and we don't just mean the person selling you the product. The ongoing relationship is important, too. Our customers don't just visit us once and then go elsewhere. They come back time and again to upgrade their PC and buy add-ons, and that's where the specialist company comes in. They also want the after-sales support to come from the store that sold them the PC — not someone else.

Ian Sinclair: After-sales care is important to us, which is why we offer an assisted install service with the price of the Fujitsu, and this will be part of our future services. We also offer on-site

repair. I think this is a big market and that there are a lot of people out there who don't have PCs, but do want to buy them. It's parents who want to get their kids on the internet or who see their children using computers at school.

There's room for everybody, it's all about offering more choice to consumers.

Is there enough competition in the PC retail sector?

Nicholas Cadbury: There's Dixons, Currys and PC World, but there are also others such as Tesco coming into the market. But the main competition we see is from the direct chains such as Time, Tiny, the Dells and Gateways. PC World doesn't just sell PCs to the home market, a fair chunk of our customers are from the SoHo [small office/home office] and SME [small to medium enterprise] sectors, and we don't think these people are going to other retailers.



photographs by Nick Dawe

Ian Sinclair: Customers have asked for our service. People have said they want to buy a PC at their local [Tesco] store. In New Malden, some people were buying six to 15 PCs for their small business. People come into our store, buy them and use them — and if they don't like them they can bring them back because Tesco offers a no-quibble guarantee.

Who are your target customers?

Ian Sinclair: We've only been doing this for five weeks, but from what I've seen, there seems to be three different types: those who are new to the PC market, people who have bought a PC before, and those from the smaller business sector who are buying systems for their office.

Nicolas Cadbury: We go across the board, from new entrants to SMEs. Dixons and Currys tend to cater for the new and the family PC while PC World caters for the slightly more experienced purchaser. SoHo and SME buyers are looking for more than just the purchase of a PC but also

getting it fixed into an office, upgrading software and so on.

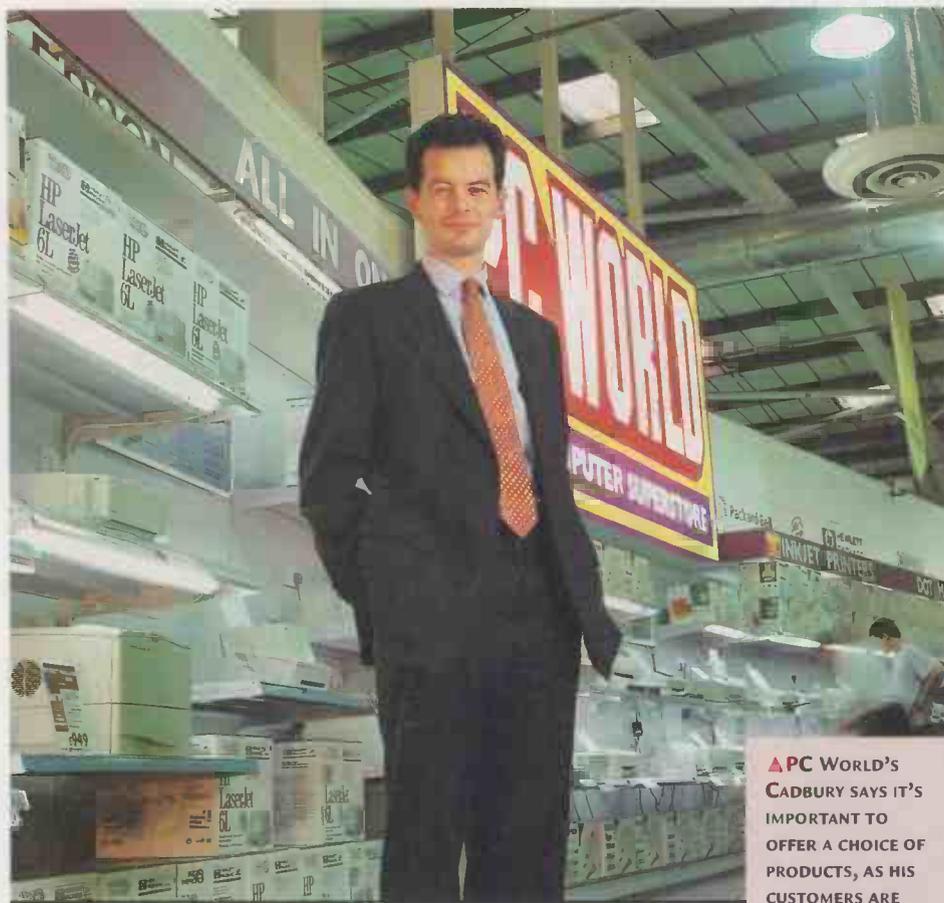
Ian Sinclair: We're looking at how we can move this forward. We already sell printers in some of our stores and we believe that TescoNet offers one the best ways of getting onto the internet. We may well extend our range of peripherals.

Is buying a PC the same as buying a fridge or a TV?

Nicolas Cadbury: I wish it were! It's getting closer in terms of price, which is good for the consumer, but a PC is a much more complex product. A fridge simply keeps your food cold but you can do so many things with a PC, from playing games to doing your business accounts. PCs need upgrading and feeding with consumables and peripherals. PCs are becoming more plug-and-play but the technology moves so fast that you need to be able to explain this to your customers.

Ian Sinclair: We sell TVs at Tesco, but not fridges. The key is to have a good post-sales package, with a telephone helpline, after-sales care and so on.

▲ **TESCO'S SINCLAIR BELIEVES IN THE SIMPLICITY OF BUYING A PC IN THE SUPERMARKET AS LONG AS THE RIGHT LEVEL OF ADVICE IS AVAILABLE FROM PROPERLY TRAINED STAFF**



▲ PC WORLD'S CADBURY SAYS IT'S IMPORTANT TO OFFER A CHOICE OF PRODUCTS, AS HIS CUSTOMERS ARE NOT JUST LOOKING FOR A BOX, THEY WANT A SOLUTION

Why have you launched PCs at these prices?

Ian Sinclair: We wanted to get a good value package. We didn't want to put PCs into Tesco stores at very high prices. A PC is not an impulse purchase, so we made sure our PC had a modem and used a Pentium II chip. We didn't go into PC World and see what price they were selling at. Neither did we carry out market surveys of high-street prices.

Nicolas Cadbury: Tesco has brought in a product at this price level, but at PC World we aim to be competitive across all levels. We've launched our Advent brand, which is aimed at the second-time buyer. The £599 and £699 PCs are

Prices are likely to come down, but the rate at which they do so will slow. **THERE WILL BE A £399 PC** but it won't do as much as one costing £599

part of our strategy. We saw a gap in the market for people who would like to own a PC but could not afford to buy one. PC prices have fallen throughout the world, so we can buy at a good price and sell at reasonable margins. The opportunity came to us — it wasn't a response to whatever Tesco was doing.

How can you afford to sell PCs with these specifications at these prices?

Nicolas Cadbury: It's a competitive marketplace and, because of the size of PC World, we have been able to get our product at competitive prices. *Ian Sinclair:* We've worked with our suppliers to get what Tesco feels are the right margins. We have the buying power, too. Vendors have seen the deals that are being offered in the supermarkets in Europe; they see enormous potential and we've been able to take advantage of this.

Are these PCs loss leaders?

Ian Sinclair: Tesco believes we are making reasonable margins, comparable to our other products. Our suppliers are making reasonable margins, too.

Nicolas Cadbury: PC World also makes reasonable margins. It doesn't mean we are making very large margins on a £1,200 PC, because there is a lot of competition from the direct marketers for higher-priced

PCs. So it's tough.

What effect will these lower-priced PCs have on the home market?

Nicolas Cadbury: We see it as a good thing. The home PC penetration in the UK is about 17 to 20 percent compared with about 28 percent for Germany, so there's a long way to go. These PCs will increase penetration and also give people an opportunity to buy a second PC for their home.

Ian Sinclair: This is going to get a lot more people into the market. PCs have got simpler thanks to Windows 98 and plug-and-play. It's getting easier to get onto the internet and the PC is becoming an everyday object.

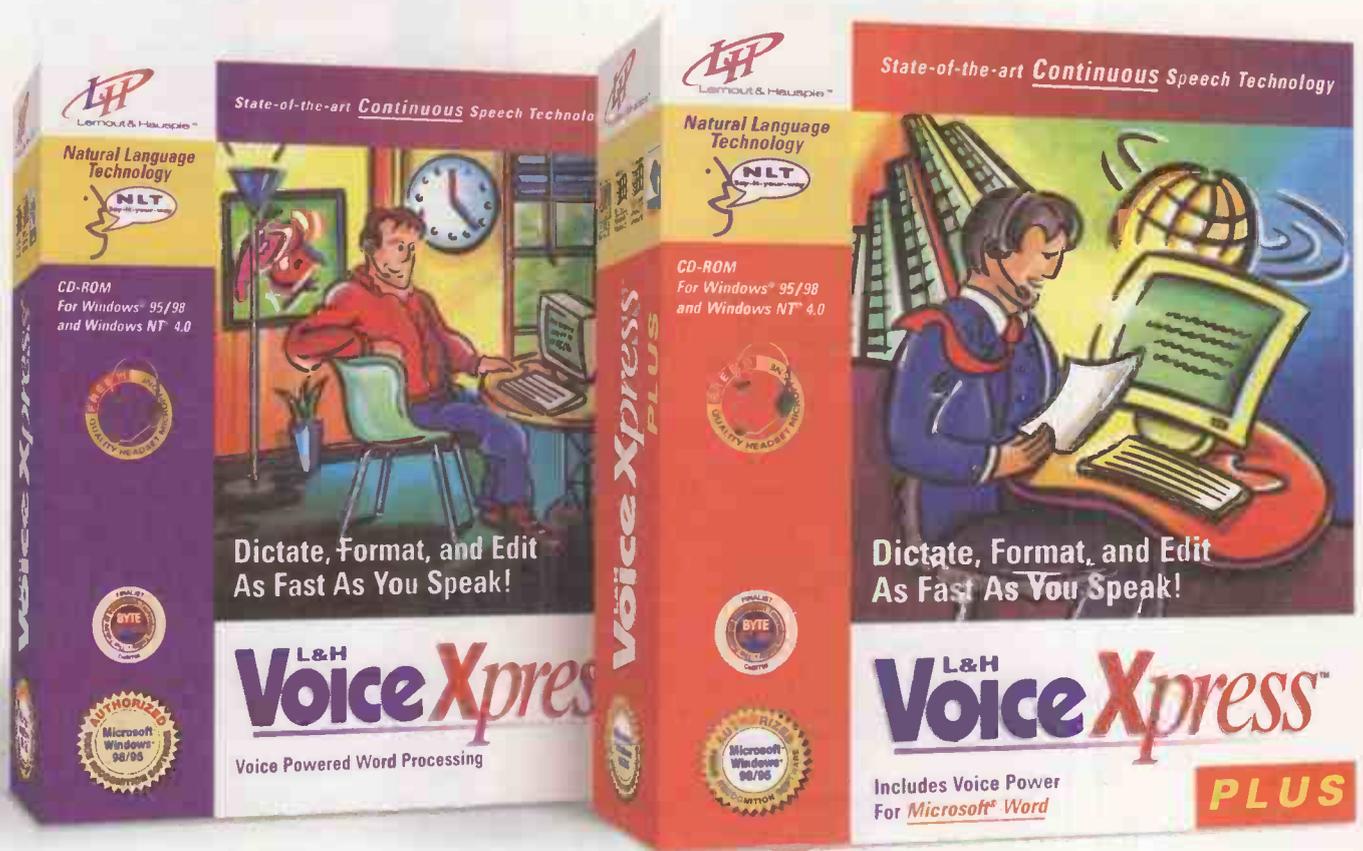
Are UK home PCs over-priced compared with the US and other European countries?

Ian Sinclair: At Tesco, we have been told by Siemens-Nixdorf and Fujitsu that UK prices are more expensive than in Germany or France. A *Sunday Times* survey showed that the average UK price is £1,189, in France it's £1,093, and in Germany £922. Judging by these figures, I would have to say "yes".

Nicolas Cadbury: It depends on what you're measuring. All I can say is that our average prices are not as high as this, so someone must be over-

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charging. You have to look at what you're getting. Germany is a more mature market, so users want a straight PC — are they getting a monitor with it?... and what's the VAT rate?... what's the exchange rate? There are a number of variables to consider. I'd say we're fairly well priced when compared with the US — you have to look at the total package.

Do you expect PC prices to get any lower?

Nicolas Cadbury: Prices are likely to come down, but the rate at which they do so will slow. There will be a £399 PC, but it won't do as much as one costing £599.

Ian Sinclair: You're going to reach a limit where they can't get any lower, but we're not there yet. The physical components inside a PC will be the limiting factor but, as I said earlier, I think there's scope for an even lower-priced PC.

Does buying a lower-priced PC mean sacrificing after-sales care?

Ian Sinclair: At Tesco, we offer a year's telephone support, while others offer only 30 days. We have a 1-year on-site repair service, and there's assisted install. We won't compromise our customer service. If we have to do more for our customers, then of course we'll do that. But it may mean that we need to offer these extra services as an option from which the customer can choose.

Nicolas Cadbury: After-sales care is a very important part of PC World's business. We have 200 people out on the road making repairs. Last year, our telephone helpline took 1.5 million calls. It's a 24-hour service. We achieve 4,000 visits each week. So, the answer is that you don't have to sacrifice support at these prices.

Are we likely to see software being sold at lower prices?

Ian Sinclair: We already sells budget software...

But what about top-end packages like Microsoft Office?

...At Tesco, we are looking at this but at the moment we have no plans for that. But if that's something our customers want we'll see what we can do about it.

Nicolas Cadbury: I don't see them falling, unless our suppliers are going to do something about it.



The margins we make on software at PC World are reasonable and we can't see the prices getting any lower.

Should people expect to upgrade their PC every 18 months?

Nicolas Cadbury: It depends on what you want to do with it. You could buy a PC for five years and never have to upgrade it. If you buy a family PC, you may wish to do different things with it as the kids grow up, so you will eventually want to upgrade.

Ian Sinclair: It's about consumer choice. If people want to upgrade, they will. People are not throwing away PCs, they're ending up in the kid's room — or rather the other way round!

Will today's PCs still be around in the same format in a decade's time?

Nicolas Cadbury: The digital TV set-top box is coming and if there's a market for them, PC World will sell them. I think the basic PC format will still be around, we'll just do different things with them, like networking from home.

Ian Sinclair: There's a desire for knowledge. When people see what you can do with a PC, it will encourage them to buy one. Today, you can find out the best train times by going to the Railtrack website rather than ringing them up. This type of service will drive the market. My only concern about set-top boxes is that they will have to be simpler to use than a VCR!

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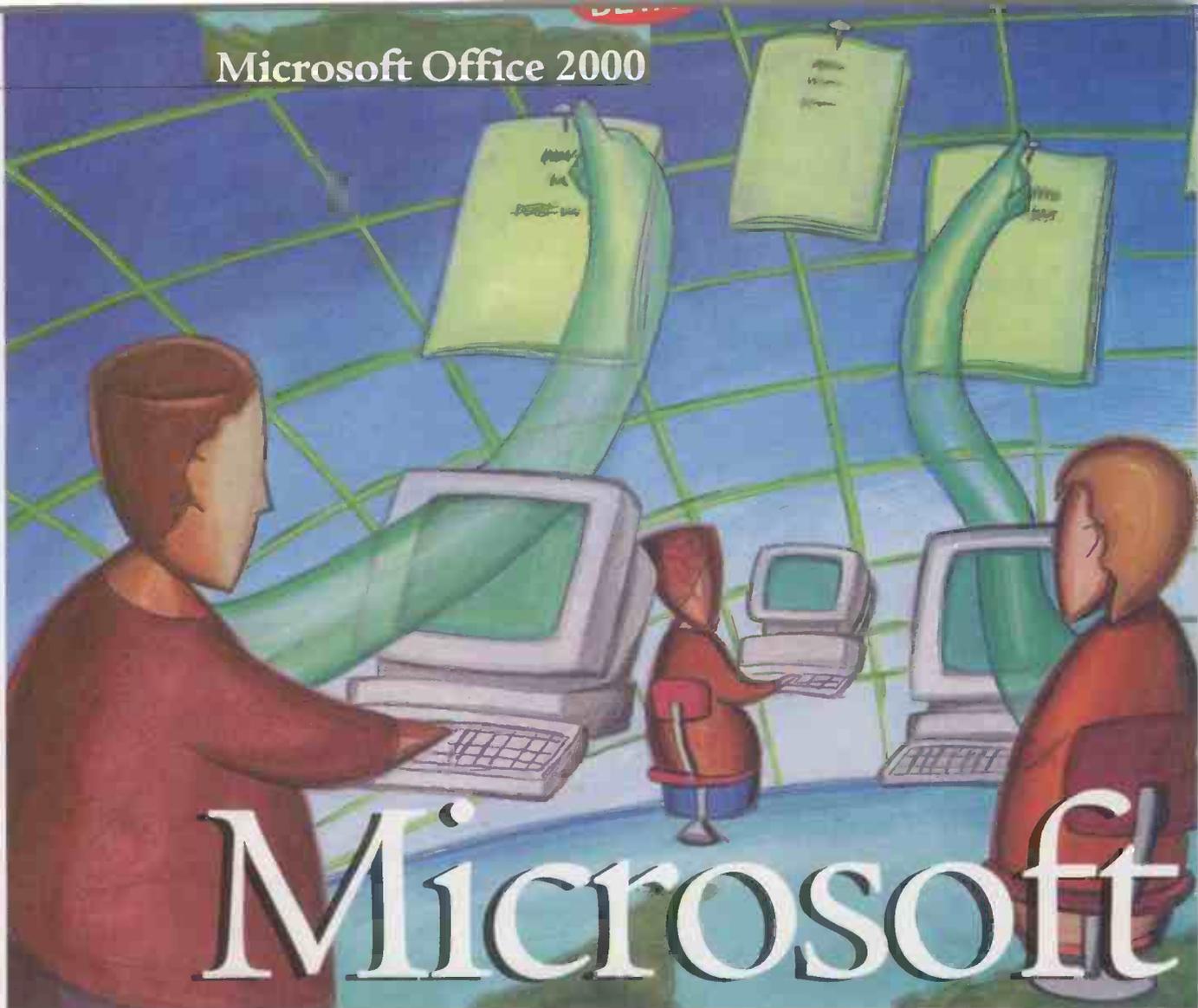
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NOT ONLY IS OFFICE 2000 SIMPLER FOR THE USER, WITH MORE FUNCTIONAL AND FLEXIBLE SOFTWARE, BUT ITS APPEAL TO COMPANIES HAS BEEN ENHANCED, TOO. TIM NOTT PREVIEWS THE BETA RELEASE.

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IT HASN'T YET BEEN GIVEN AN OFFICIAL LAUNCH DATE, BUT MICROSOFT OFFICE 2000 SHOULD APPEAR IN EARLY 1999. In August, 20,000 copies of Beta One went out to testers. So what has Microsoft been hoping to achieve with this release? The company is aware that 75 percent of all Office sales go to large organisations, and its first priority has been to reduce the total cost of ownership (TCO) by making installation, maintenance and user support easier. The second goal has to do with enhancing what Microsoft terms the "digital nervous system" of a company. In other words, the way in which information is distributed and accessed.

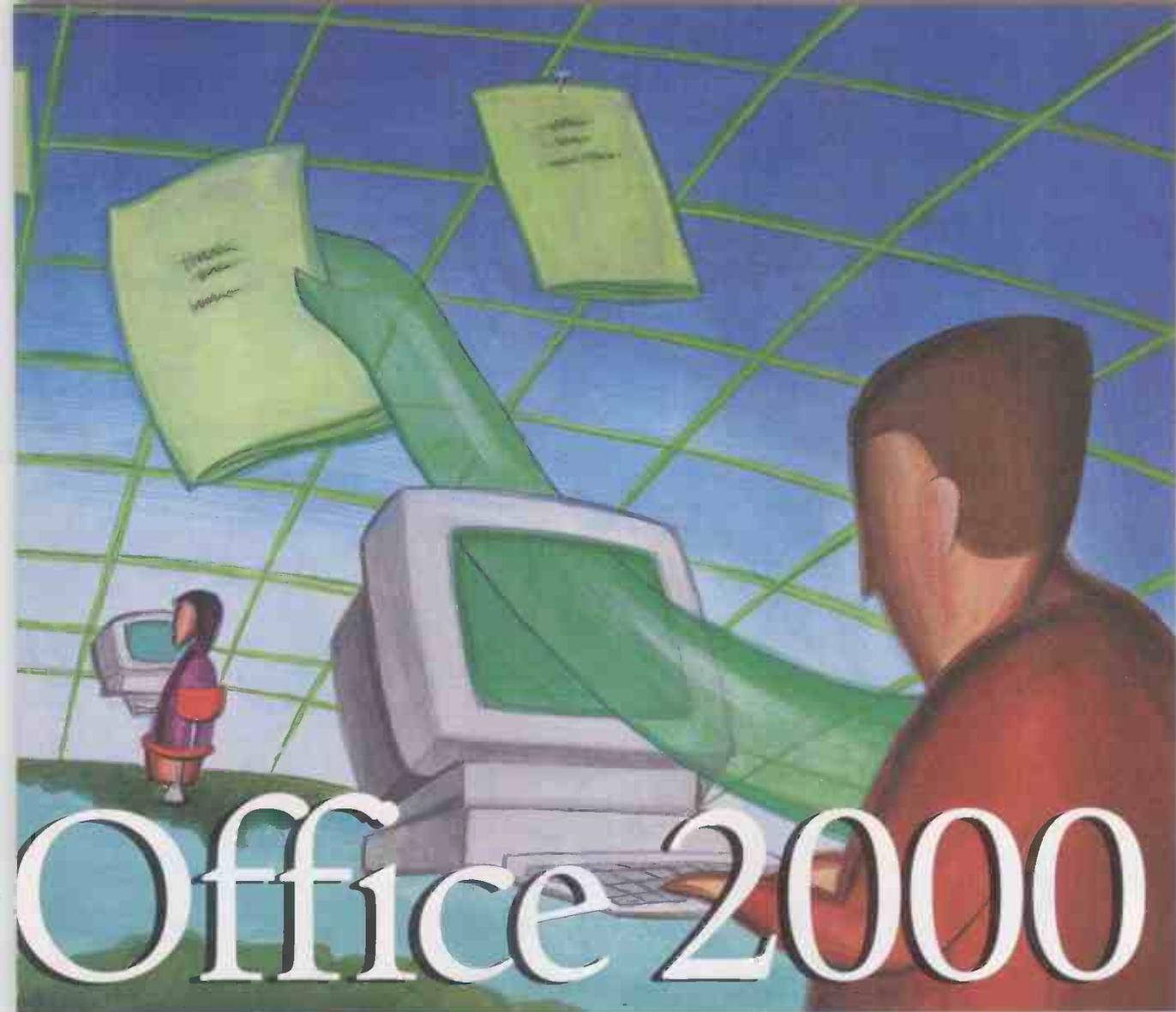
Although this approach might seem very "top-down" there is considerable end-user benefit in both directions. Taking the logical first step of installing the product, there are some welcome changes. Language has been a global issue for this release. There are now single language-independent executables for the main components instead of the previous 36 versions, with DLLs providing specific needs such as menu and dialog languages. This in itself should

contribute to minimising TCO for multinational organisations. It also means that different users can log-in to the same machine and work in different languages. And, with "Roaming User Profiles", visitors to other departments or branches of a networked organisation can download custom settings from a central server.

Complementing this is a Profile Wizard that allows a user's settings to be backed up and transferred to a new machine or location. Instead of buying extra proofing tools on a per-language basis, there will be just one language pack to buy, which will incorporate them all.

Another interesting innovation is "Install on Demand". If you've ever struggled through the custom install options of any major software package, you'll be familiar with that sinking "do I need this or not?" feeling. Most components now have four options: install to the local hard disk, run from the CD or server, don't install, or install on demand. Choose the last and the component will be visible on menus or shortcuts but the actual installation will be deferred until the first use, when the component will be installed from a server or CD-ROM.

A further, related feature is that of "Self-Repairing" applications. If Office 2000 detects a critical problem with a corrupted file, say, it will reinstall the files or entries rather than just display the traditional error message. Complementing



Martin Jones

this is the "Detect and Repair" tool in the Help menu which provides a similar service for non-critical files such as templates or fonts.

Throughout the suite, Microsoft has tried to "simplify the user experience" and the first evidence of this is the new "Smart" menus and toolbars. Drop a menu and instead of the full, complex, command list a shortened form appears offering the most commonly-used commands. Linger over the menu (or if you can't wait, click the arrow at the base) and the full set appears. If you select one of the hidden commands, this will be promoted to the shortened menu. Unused commands will be demoted, in time, to the also-rans. The toolbars work in a similar way if there is insufficient room to show the full set of buttons, and customising the latter (at least at a basic level) is now a lot easier as each toolbar has a pop-up checklist of the most useful buttons.

The Open and Save dialogs have been revamped, with Outlook-style icons providing shortcuts to the default document folder, Desktop, Web Folders Favourites, which is the same as in Internet Explorer, and History which isn't, but instead is a supercharged version of the Most Recently Used list.

Nestling in the Tools menu is the Advanced Find command which remains as cumbersome as ever. Microsoft's developers assert that this was not improved because "only two

percent of people use it". You can see why – and speaking as one of the two percent marginals it's a shame they didn't see fit to "leverage the web paradigm" and "simplify the user experience" to make multiple keyword searches as easy as using a web search engine. But Microsoft does claim to have improved the natural language query feature but admits that it is advanced users who express the most frustration at this. Anyway, it is now possible to get rid of the Office Assistant completely. Cutting and r dimensions with the introduction of a multiple clipboard.

Item	Region	Outlet	Sales
Tennis rackets	North	Retail	34
Tennis rackets	North	Direct	21
Tennis rackets	South	Retail	55
Tennis rackets	South	Direct	34
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Golf clubs	North	Direct	65
Golf clubs	South	Retail	87
Golf clubs	South	Direct	165
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Roller skates	North	Direct	45
Roller skates	South	Retail	95
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Football boots	North	Direct	132
Football boots	South	Retail	78
Football boots	South	Direct	54

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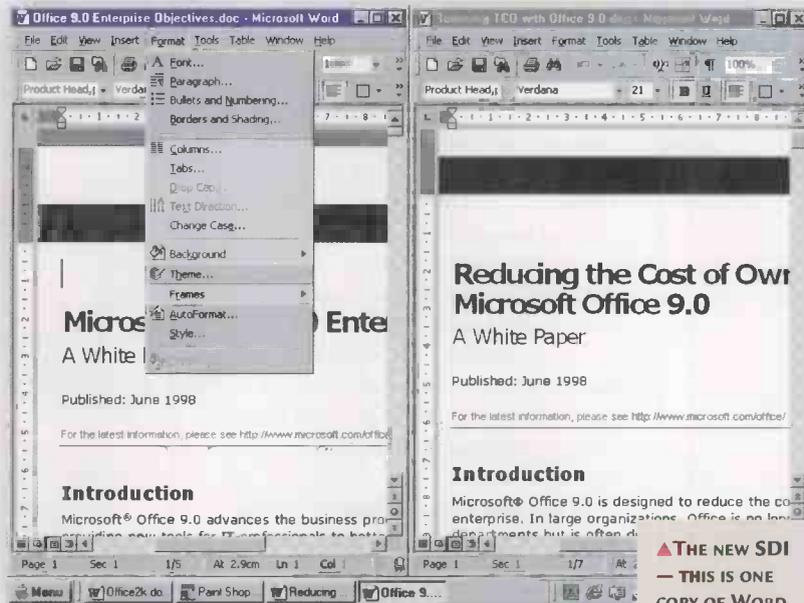
Hence the "cyber hunter-gatherer" can choose from up to 12 clips which can be sourced from outside Office, but only pasted into Office documents. One niggling complaint which Microsoft has at last addressed, is in following its own Windows 95 convention of having the document title precede the application on the Windows Taskbar button. So utilities such as WordPad display the document name first on the Taskbar button, while previous versions of Office still obstinately put the application name first, giving you a Taskbar full of buttons which unhelpfully just read "Micro...". In the beta version, though, this has a way to go. If you open multiple spreadsheets in Excel, the Taskbar shows a button for each, just displaying the Excel icon and the document name. Clicking on a button will make that document active within the Excel windows.

However, in Word, things work differently. The Word team has abandoned the multiple document interface (MDI), instead making each document appear as if it were loaded in a separate instance of Word complete with menus and toolbars. In fact, only one instance of Word is in memory. This is not only confusing for those who have grown up with Word's MDI, but also a waste of screen space. If you try to economise by hiding the toolbars in one of the windows, beware: close this document last, and that environment (or lack of it) will have "stuck" the next time you open Word.

Applications

One neat touch in Word is automatic language detection. Type a paragraph in French or German, and Word will recognise this and apply the correct proof-as-you-go tools.

Word also has a new Click 'n' Type feature which lets you set alignment and tabs



by double-clicking straight on to the page. Table creation has been improved to include floating and nested tables and at last you can display 24-bit colour images in documents.

The main thrust of improvements in Excel has been in the pivot tables and the new pivot charts. A simple sales spreadsheet might consist of regions by column and product line by row.

Although it was rumoured that HTML WOULD BECOME THE DEFAULT FILE FORMAT, THIS IS NOT THE CASE. The existing binary file formats remain unchanged

However, most real-world data will include other categories which could range from month or salesperson to categorising sales by outlet. Pivot tables let you manipulate this data quickly, to compare, say, sales of golf clubs in department stores in Manchester during the past month with those sold by mail order. A new Wizard simplifies the procedure of setting up pivot tables, with drag-and-drop placement of categories and data. Pivot tables can also be used to mine data from external sources such as OLAP (online analytical processing) providers or SQL servers.

Access (see p135) now supports Unicode fonts to allow multilingual versions of applications. PowerPoint sports in-place tables, multiple monitor support and animated GIFs. There's a new three-pane view of outline, slide and notes, as well as a general enhancement of "smartness" with text that auto-resizes, multilingual autocorrect, autonumbered bullets and the use of any graphic as a bullet. PowerPoint also ties-in the NetShow and NetMeeting technologies to broadcast presentations over an intranet with streaming sound and video.

Web stuff

The most interesting new feature, suite-wide, is the new HTML and web support. Although it was rumoured that HTML would become the default file format, this is not the case. The existing binary file formats remain unchanged and compatible with Office 97. The Access file format has changed to support Unicode fonts. In fact, HTML has become a companion format. Though there have been HTML export/import filters in previous versions of Office applications, this version improves things beyond recognition.

The goal here has been "Intranet Democracy". Whereas it has hitherto been easy for users to access documents on a company web site, this has been very much one-way. Converting and uploading documents has been far more difficult and often filtered through official or semi-official webmasters, resulting in information bottlenecks and "dead webs".

The first key feature is "round tripping", and this is where the companion format comes in. Office 2000 uses HTML, Cascading Style Sheets (CSS) and Extended Markup Language (XML) when you save as HTML, and it's the last of these that provides the magic touch. Attributes such as Document Properties or Page Setup, though not visible or supported in standard HTML are preserved as hidden XML objects.



drawings, are converted to .GIF or .JPG bitmaps for HTML display but the originals are also preserved. So, a .DOC file, say, can be saved to HTML then reloaded with no loss of data or formatting. This "round tripping" is transparent to the user. Second comes the concept of Web Folders. Once a user has the requisite permissions, they can save and open documents directly to or from a site (either on an intranet or the world wide web). Again, this is transparent: the Web Folders appear in the new Open/Save dialogs and the process is no different from saving to a local hard disk or a file server.

Both features are designed to empower the end-user, making intranets a truly two-way experience. But there's more to it than just circulating static documents. Documents saved to a Web Folder can host a discussion and comments can be added and viewed either within the application or a web browser. Users can also subscribe to a document and then be notified of changes, by email.

Another interactive trick is Web Components which provide live and working, spreadsheets, charts and pivot tables which can be edited and formatted in Internet Explorer. For those with more ambitious web publishing needs, a copy of FrontPage will be shipped with the high-end version of Office.

Despite the lack of voice input, which in any case faces the twin obstacles of needing powerful PCs and acceptance in crowded offices, Microsoft has done well in addressing its own goals. Both the reduced TCO and the intranet empowerment of end-users are vast improvements that should have everyone rushing to upgrade when the time comes.

Office 2000 vs the opposition

Microsoft is not the only company to realise the importance and growth of corporate intranets. **Lotus** has recently brought out its Millennium edition of SmartSuite, but although the new FastSite component makes it easy to assemble and publish documents to a web site, it doesn't provide the same lossless "round tripping".

Corel's WordPerfect Suite 8 comes with its WEB.SiteBuilder for creating and organising sites but it doesn't have the seamless HTML companion format of Microsoft.

Speech recognition is conspicuous by its absence in Office 2000. Both major-league suite competitors are already offering this: Corel has partnered

with Dragon to bundle its NaturallySpeaking package with WordPerfect Suite 8, and Lotus has parent company IBM's ViaVoice in the box with its SmartSuite Millennium. Both of these offer continuous recognition, so you don't have to pause... between... each... word as with most previous dictation technology. Although there are third-party add-on speech packages for Microsoft products, the company has made no bundling deals. Instead, it is pursuing the grail of speech recognition in-house and at operating system level. So far, this has only seen the light as a part of the Windows CE OS for issuing commands (not dictating text) to hand-held devices and the in-car "hands off" Auto-PC.

PCW DETAILS

Price and availability to be announced
Contact Microsoft Connection 0345 002000
www.microsoft.com/office/

Good Points Excellent intranet integration. Round-tripping of HTML and binary files. Lower TCO.

Bad Points No voice recognition.

Conclusion Microsoft has made a great effort to empower intranet end-users which is bound to pay off.

Overall Rating ★★★★★



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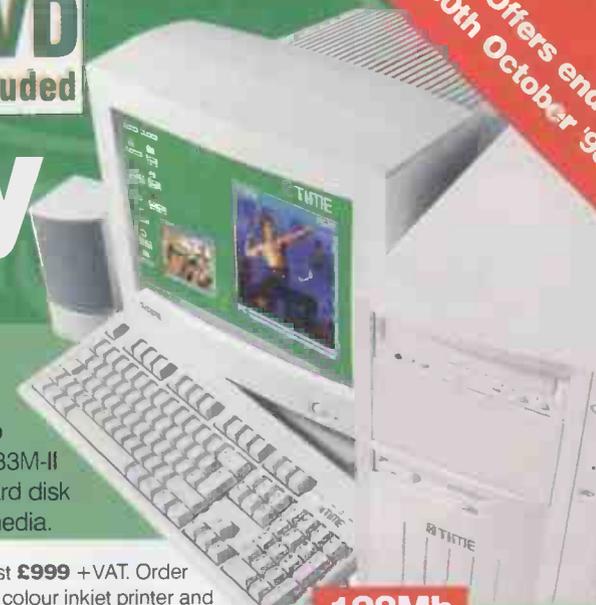
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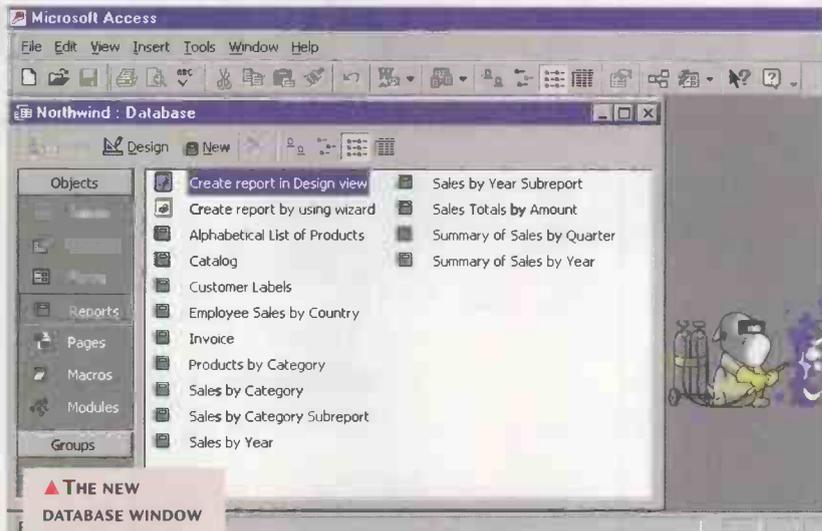
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Access 2000 & SQL Server 7

The improved Access 2000 comes with many benefits. Mark Whitehorn explains.

ACCES 2000 COMES WITH SOME REAL BENEFITS, MAINLY FOR LARGE corporations interested in publishing/sharing data across an intranet. But there are some excellent improvements for the developer and home user, too.

Access 2000 is a highly web-aware application. But although HTML is now on an equal footing with the other binary formats, this is not the case in Access. Its approach is to retain the .MDB file as the repository for complete Access applications; all the usual components are still stored there. However, forms and reports can also be published as separate entities called Data Access Pages. These are stored as HTML files outside the .MDB and can be posted as emails or placed on a web site. Data Access Pages



▲ THE NEW DATABASE WINDOW (AND ONE OF THE NEW ASSISTANTS TORCHING SOMETHING, POSSIBLY A BUG)

choose not to use the internal Access database engine, but elect for SQL Server (6.5 or 7) or an internal store available in Office. In either case, a Microsoft Access Project file (.ADP) is created instead of an .MDB file.

Client/Server Design Tools for creating and managing objects stored on the server, and also SQL Server-based Administration Tools for carrying out admin tasks including backing up and restoring a database, and database replication.

Another little something for the developer is the new Name AutoCorrect feature. Now, when a database object is renamed, the change is reflected automatically in dependent objects such as forms and queries. Other features include the ability to print the relationships diagram and the capacity to save Access databases in the format of earlier Access versions. All previous versions appear to be supported: 1.x, 2.0, 7.0/95 and 8.0/97. I couldn't confirm this in the beta but that's what the help system says. This will be useful in organisations with departments and individuals running a mixed bag of versions.

The user interface has undergone changes too, with the central Database Window looking very different. Instead of tabbed pages across the top, the tabs are back where they were in version 1.0 (on the left).

Access 2000 boasts, for the first time in several versions, some real improvements for developers. In addition, the web enablement will make it a boon for large corporations.

Now, when a database object is renamed, THE CHANGE IS REFLECTED AUTOMATICALLY in dependent objects such as forms and queries

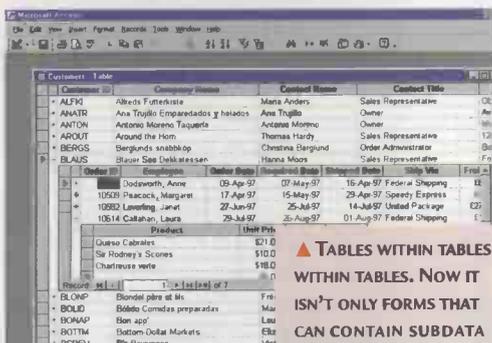
maintain a live link to the database, allowing web clients (using IE 5.0) to view, edit and report on data within the database.

As well as making live data easier to share, Microsoft has opened up an excellent upgrade path, from PC-based to client-server-based operation. When creating a new database, users can

Developers then proceed as usual, using Access as a front-end, so there is no overhead in learning new skills (Wizards have been updated to cope with the changes). The only apparent difference is that the available data types are those supported by SQL Server and field names must follow the conventions (for example, spaces are not supported in field names). But under the covers, the tables, stored procedures, views and database diagrams will be stored in the back-end DBMS. The result is that

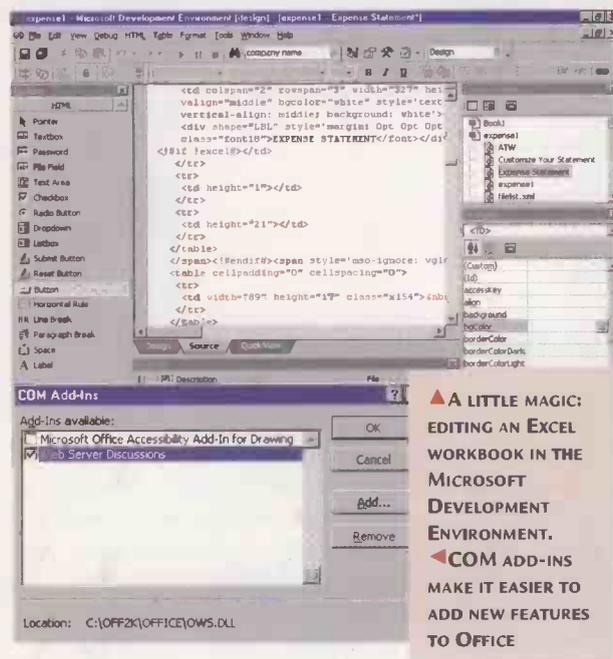
developing/upgrading to SQL server is almost transparent. In addition, for developers of client-server applications, Access 2000 includes

▲ TABLES WITHIN TABLES WITHIN TABLES. NOW IT ISN'T ONLY FORMS THAT CAN CONTAIN SUBDATA



Office 2000: The Developer's Perspective

There are now two distinct ways to **program Office**. Tim Anderson explains.



**▲ A LITTLE MAGIC:
EDITING AN EXCEL
WORKBOOK IN THE
MICROSOFT
DEVELOPMENT
ENVIRONMENT.
◀ COM ADD-INS
MAKE IT EASIER TO
ADD NEW FEATURES
TO OFFICE**

THE VISUAL BASIC EDITOR IN OFFICE 2000 IS DISAPPOINTINGLY similar to the one in Office 97, until you try a little magic. The functionality is hidden from end-users, but Tools/Customize in an application like Excel lets you add an Insert Script command. Select it, and instead of the Visual Basic environment, the new Microsoft Development Environment appears, as seen in Visual InterDev and Visual J++ 6.0. Your spreadsheet is there but in the form of XML and HTML code. The toolbox has standard and ActiveX HTML controls, and you can use scripts and dynamic HTML to enliven your Office web document.

Scripts can run on the client or the server. The snag is that the new scripts don't run in old Excel, so developers must take a decision. Is your new custom Office 2000 solution going to be primarily intranet-based, using the features of the Office Server Extensions along with standard web

document is edited using Office tools, both kinds of scripting will be preserved.

Looking at the web model, there are a host of development possibilities. Anything you can do with Active Server Pages or Dynamic HTML can be done in an Office document, too. Data Access Pages are a feature of Access 2000 that provide the easiest way yet to create fully scriptable web pages with dynamic data links. Data access is via ActiveX Data Objects, a COM-based technology which works well with remote data, unlike Data Access Objects used in previous versions.

Old-style VBA in Office

Office 97 was a breakthrough for developers, providing Visual Basic for Applications, complete with forms and class modules, into all the Office applications except Outlook. Outlook 2000 still lacks VBA, making do with cut-down VB Script.

Conversely, FrontPage 2000, part of the high-end version of Office, does

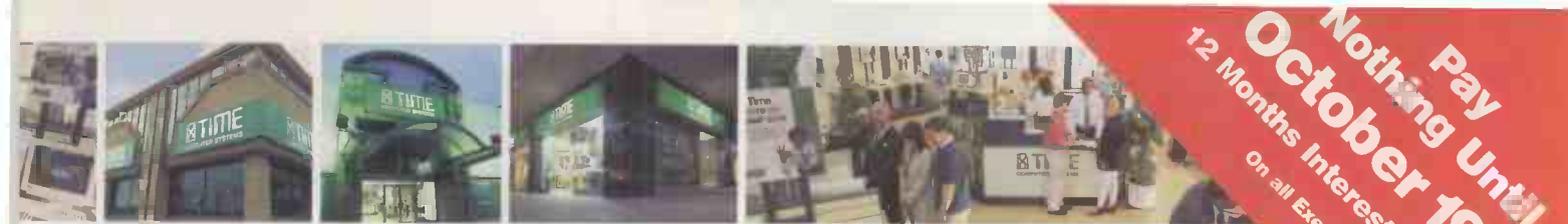
techniques? Alternatively, old-style VBA development still works, and better than before thanks to VBA 6 which uses the same runtime as the full Visual Basic 6. In this case, the problem is reversed, since normal VBA macros do not run when Office documents are viewed as web pages. It is not going to be easy, the consolation being that if the

now get VBA. A key change concerns add-ins; code libraries that add new functionality to Office applications. In previous versions these have little consistency, being disguised Excel workbooks, Word templates, or special dynamic link libraries created with a C++ compiler. Outlook 97 was the worst, requiring developers to delve into the depths of the Exchange API to create an Exchange Client Extension. Office 2000 still supports these methods, but in addition there are COM add-ins, essentially COM servers which are hooked seamlessly into the host application. You will be able to create these with Visual Basic, using the same techniques for all the Office applications including Outlook. Another improvement is that code modules can be digitally signed to prevent the spread of macro viruses.

Using a little magic

Microsoft Office has an indirect effect on Windows developers, by introducing new standards which users then expect in other applications. Two examples in Office 2000 are HTML help and the Windows installer. The old Windows help compiler converted Rich Text Format documents into help files read by various versions of Winhelp, the familiar help viewer. New HTML help compiles HTML source code into .CHM (compiled HTML). Developers can now use the same skills in building online help when creating web pages, and users get better readability with the web. Office developers can also customise the install scripts to create versions that both limit and extend what gets installed, for smooth deployment of an Office solution.

Full developer features are likely to be only in the Office Developer Edition, which will also include a runtime version of Access 2000 for deployment.

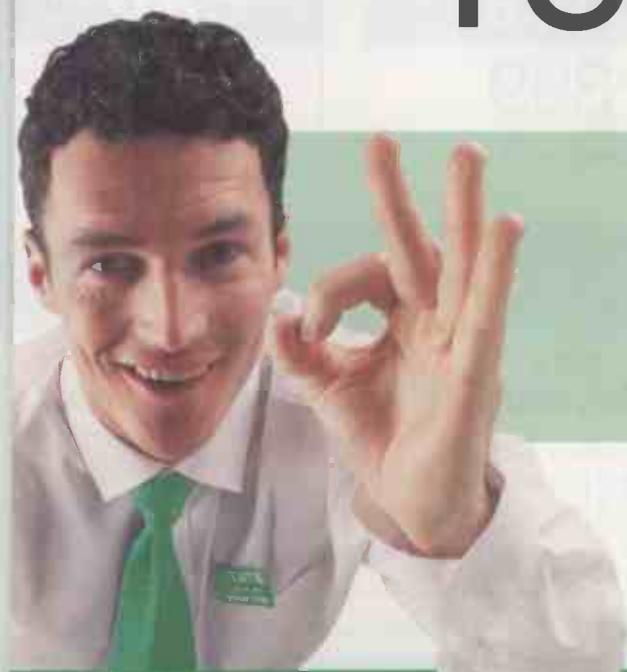


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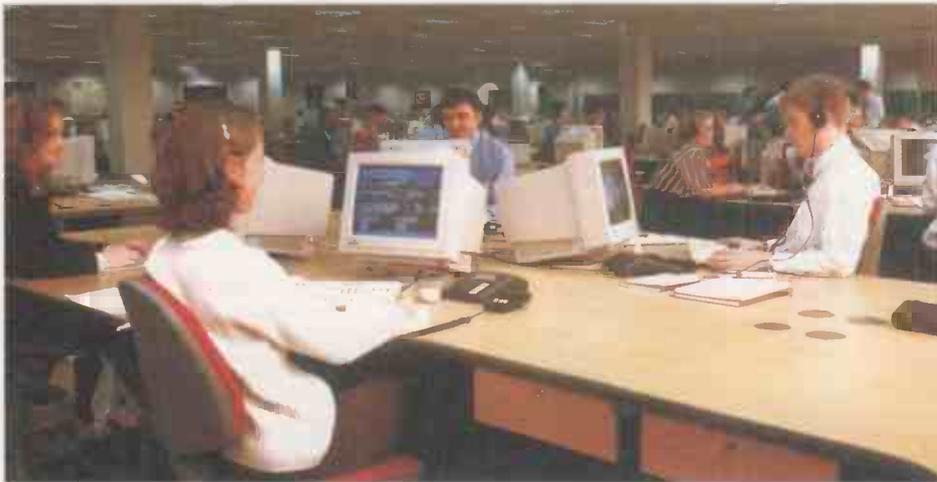
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Coventry - PH

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Tel: 01203 663 588 (near Comet)

Dagenham - PH

Unit 3 Merriellands Retail Park, Ripple Rd, Dagenham

Tel: 0181 517 2785 (near Wimpy)

Derby - PH

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(near Comet)

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26/27 St. James Centre, Edinburgh, Scotland.

Tel: 0131 557 5629

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Unit 6 Cameron Walk, Metro Shopping Centre, Gateshead Tel: 0191 461 0942

Gateshead - OW

Metro Retail Park, The Metro Centre (near The Link)

Glasgow -

34/38 Sauchiehall St.

Glasgow. Tel: 0141 331 0573

(near Thomas Cook)

Glasgow - OW

30/52 Finnieston Street, Glasgow

Guildford - PH

Ladymead Retail Park, Europa Park Rd. Guildford, Surrey

Tel: 01483 562 448 (near PC World)

Hedge End - PH

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Tel: 01489 795 975 (near Safeway)

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Tel: 01484 430 450

Hull -

Ferensway, Hull, East Yorks

Tel: 01482 223 802 (near Staples)

Huntingdon - PH

Unit B Huntingdon Retail Park, St Peters Rd. Huntingdon

Tel: 01480 459 392

Ipswich - PH

Unit 3 The Sandling Retail Park, Ransomes Way, Ipswich

Tel: 01473 729 308 (near Harvey's)

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Unit 5 Kettering Retail Park, Carina Rd. Kettering,

Northampton Tel: 01536 519 813

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Leeds -

Unit 13, Crown Point Retail Park, Leeds. Tel: 0113 243 2589

(near Comet)

Leicester - OW

Burton Street, Leicester

Lincoln - OW

Canwick Road, Lincoln

Liverpool -

Unit 3, Racecourse Retail Park, Ormskirk Rd. Aintree, Liverpool.

Tel: 0151 523 2929 (near Comet)

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Stephen Wickstead

Spies, lies & the internet

AS THE GOVERNMENT PREPARES TO REGULATE E-COMMERCE, ENCRYPTION BECOMES THE SUBJECT OF THE MOST HEATED POLITICAL DEBATE OF THE CENTURY. JOHN LEYDEN EXAMINES THE PRINCIPLES BEHIND IT AND THE POTENTIAL THREAT TO CIVIL LIBERTIES.

A LONG WITH THE PROVINCE OF SPIES AND CYBERPUNKS, encryption is hitting the mainstream as government legislation, expected next year, sets up a next-generation model for e-commerce. As the Government sets a framework for online trade, small business users might at first well wonder why the software of espionage thrillers is dropping onto their desktop. The answer is a simple one: trust. Potentially, fraud is easier across the internet because it might be achieved without leaving any trace — and certainly no eyewitness. Without an environment of trust and privacy, customers are highly unlikely to provide confidential information.

Of course, it's possible for an internet user to buy a book from Amazon.com or even carry out online banking, today. However, these models of business depend on existing business relationships. To establish more complex contracts online (for instance setting up a small business or buying a house) requires legal recognition and a framework to build a public key infrastructure (PKI). For the user, a PKI means complex online transactions can be performed seamlessly, which isn't really possible today.

There are four requisites for trusted communication: authentication, non-repudiation, integrity and encryption.

- **Authentication** means you can be certain who you are doing business with.
- **Non-repudiation** means no-one can deny having sent or received transaction data, establishing confidence that a contract entered into will be honoured. It's also important to know that a transmission hasn't been altered — and that's where integrity comes into play.
- **Integrity**, which goes without saying, is trust in fair and reputable business practices.
- **Encryption** is the process of scrambling a message in order to hide its content, thus providing confidentiality. Strong encryption is needed to prevent hacking but also frustrates law enforcement agencies when they seek to unscramble messages.

The British Government and the Clinton administration are concerned that the increasing availability of strong encryption techniques has important implications for the fight against serious crime, drug trafficking and terrorism. US

encryption regulations, enshrined in the Arms Export Control Act, classify strong encryption as "munitions", making it an offence for a US company to export it without a licence. The US has recently increased the strength of encryption allowed for export, from 40-key (relatively easy for a determined and skilled hacker to break) to 56-key, which is still breakable but would take longer. For e-commerce to gain the confidence of users, nothing less than 128-bit encryption will do.

The Government's Strategic Export Controls White Paper would make British restrictions on cryptography exportation even more restrictive than those in place in the US. The White Paper extends current regulations on exporting encrypted information, from printed and physical media, to encompass the spoken word and electronic media such as email.

BANNING THE EXPORT OF STRONG encryption is one of the routes government takes to control encryption. Some countries, like France and Israel, go further and ban the use of cryptography entirely. The other is establishing the ability to "steam open" its citizens' electronic mail. This is where the spectre of the state as Big Brother enters the door and a branch of applied mathematics becomes the subject of the most heated political debate of the late 20th century. To understand what all the fuss is about, it's first necessary to understand how encryption works.

With most commonly used forms of encryption, individuals would have two keys; one public and the other private. A message is signed with the author's own private key, resulting in a digital signature. This email message, attachment and the digital signature are encrypted with an algorithm using the recipient's public key. On receipt, this message can only be decrypted with the recipient's private key. By using the author's public key, the recipient can verify the sender's digital signature, proving the message is authentic and has not been tampered with.

In a public key infrastructure environment, digital certificates are used in combination with private and public keys to certify the identity of the sender of electronic communications such as email and web-based forms. The certificates are generated and managed by bodies called Certificate Authorities (CAs).

Privacy advocates, human rights activists and software vendors **OPPOSE KEY-ESCROW AS A COSTLY MECHANISM** that threatens civil liberties

To implement a framework for electronic commerce, the Government propose legislation on encryption giving legal recognition to these digital signatures for the first time. It will also implement a voluntary licensing scheme for CAs or other providers of cryptographic services. Licensed organisations would have to deposit copies of scrambling keys with bodies called Trusted Third Parties (TTPs). Those so-called "escrowed" spare keys will be available under warrant for covert use by police and security agencies.

Privacy advocates, human rights activists and software vendors, oppose key-escrow as a costly mechanism that threatens civil liberties. Encryption guru Phil Zimmermann, the inventor of Pretty Good Privacy (PGP) said: "If you build an infrastructure where you hand keys to government, you tempt good government to do bad. We feared this kind of regulation so we made PGP resistant to key-escrow."

"Voluntary licensing does not necessarily mean you can go the way you want and do without licensing," warned Zimmermann who went on to say that the global nature of electronic commerce meant that other countries (some of which practice torture and persecution) would

follow Britain's lead.

PGP is used by human rights organisations, including Amnesty International. In testimony to the US Senate, Zimmermann quoted from a letter he received in October

1993 from a Latvian, on the day that Boris Yeltsin was shelling his Parliament building. "Phil, I wish you to know: let it never be, but if dictatorship takes over in Russia your PGP is widespread from Baltic to Far East now and will help democratic people if necessary. Thanks."

IT'S NOT JUST PRIVACY ACTIVISTS AND software vendors overseas who are concerned about the Government's policy. The British Medical Association fear the Government's proposals for regulating the use of encryption will allow widespread tapping of personal medical information. The BMA is pushing to make sure medical data is exempt from the covert access to private electronic communications by law enforcement agencies. For its part, the Law Society is also warning its members to protect themselves against government spying by avoiding escrowed encryption. Despite arguments like these, the Government has not altered its plans substantially. Nigel Hickson, head of the DTP's Information Security Policy Group, said that the use of TTPs holding the keys for encryption is the best way to balance the conflicting needs of individual privacy and law enforcement, which

ENCRYPTION PROGRAMS

Setting the code

Algorithms

The most common forms of public key encryption programs rely on the fact that it is mathematically difficult to factor the product of two extremely large prime numbers. Using schemes like RSA a pair of keys (public and private), which are mathematically related to these two large prime numbers, can be produced.

To derive one key from the other, except by blind chance, relies on solving an almost impossible problem. Even stronger encryption could come in the future, based on the maths of elliptic curves.

Programs

➔ PGP (Pretty Good Privacy) is the cipher of choice for net-citizens. It uses several scrambling mechanisms, long key-lengths and is freely available on the internet.

➔ SSL (Secure Socket Layer) involves the secure wrapping of messages typically credit card transactions across the internet. This can be switched on from a server without a digital certificate.

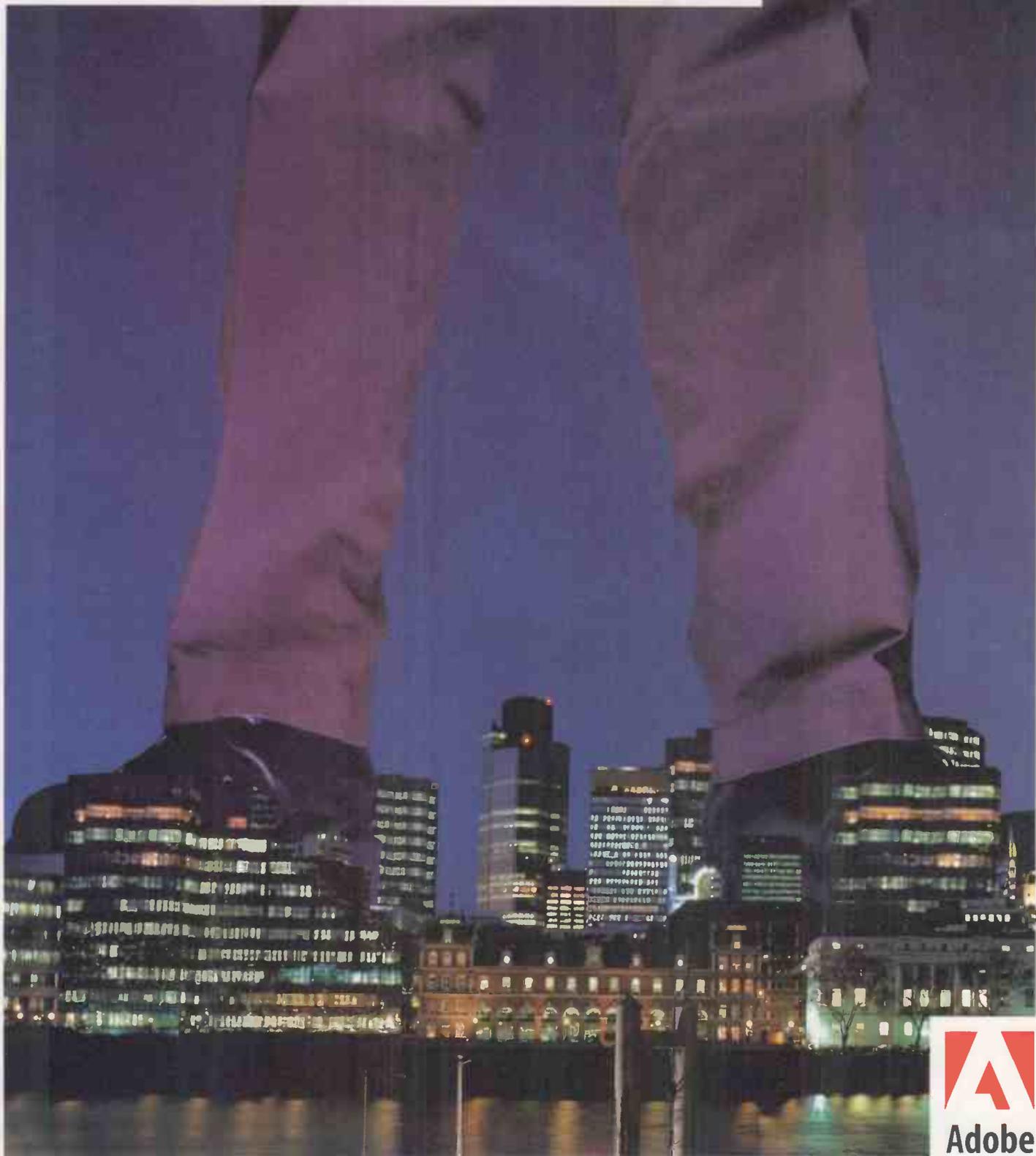
➔ S/MIME (Secure/Multimedia Internet Message Exchange) takes the data and scrambles it before wrapping it. It is integrated into email packages such as Microsoft Outlook

98 and Netscape Messenger almost as well as PGP is integrated into Eudora.

➔ SET (Secure Electronic Transaction) is a standard for electronic transactions developed by VISA. It's to be used in the next-generation of credit cards, that will use smart cards.

➔ DES is the US Government's Data Encryption Standard, a product cipher which operates on 64-bit blocks of data, using a 56-bit key. A product cipher applies several weak operations such as substitution, transposition and multiplication in order to scramble a message.

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Cracking the code

Security experts divide hackers into three categories.

Rogues — often children in their bedroom.

Exploiters — a.k.a. “Black Hat Hackers” who act through personal profit, political motive or revenge.

White Hat Hackers — who hack for research purposes.

Many hackers love nothing better than to crack “unbreakable” codes. Generally, the longer the key length the more possible keys there are and the harder it is to crack a code. That’s why it’s important to use strong encryption with long key lengths.

The starkest example of hacking came when the original,

exportable, 40-bit SSL encryption on the Netscape Navigator browser was broken. DES, since it is touted by the US Government, is also a particular favourite. Privacy advocates group the Electronic Frontiers Foundation (EFF) cracked the 56-bit DES in 56 hours with a \$220,000 computer — down

from the previous mark of 39 days. The EFF used a standard PC outfitted with custom chips. It’s estimated this task would take an intelligence agency 12 seconds. Some experts, however, feel that the widespread use of encryption is the most important factor. Their argument is: why would a criminal break

an encryption code to find a credit card number when inadequate security might allow them to lift thousands of numbers from a credit card database? John Botting, UK general manager of Security Dynamics which owns RSA, said: “All this talk of long bit lengths is just mathematical masturbation.”

needs to be able to access information if there is evidence of law-breaking.

The Government have signaled that digital certificates will become the standard access to benefits and be required for online tax preparation, payments and access to governmental proceedings and documents.

The Government has set an ambitious goal of transacting a quarter of business between citizens and government electronically by 2002. Already this process is beginning.

The Post Office has launched a £3m trial scheme to offer branded services in non-post office locations to help new business start-ups. The Open for Business scheme will be trialed for a year in Norwich, with electronic kiosks and computers in eight locations within post offices, council offices, libraries and business advice centres. Open for Business heralds the first widespread use of a database holding individuals’ confidential encryption keys. Using a Post Office smartcard, small businesses will be able to register the start-up of a new company, or the employment of a new member of staff without needing to visit government offices.

“At the moment you have to fill in up to eight forms from three government departments to register. The failure rate is 40 percent,” said David Clark, the then public services minister when he launched the scheme. Similarly, Barclays Bank is running a smart-card-based digital signature service that

will allow an individual to register via the internet as self-employed.

People who are starting their own businesses are required to register with three government departments: the Contributions Agency, Inland Revenue and HM Customs and Excise. Using smart cards and readers in their home PCs or in select Barclays branches, the trial will enable users to submit streamlined electronic intelligence forms, digitally sign the forms, and submit them to the Government. However, unlike the Post Office scheme, the bank’s cards will not store personal encryption keys used for sending and receiving encrypted messages. Sources say the bank is unhappy with government proposals to attach special requirements to licences granted to issuers of encryption keys. However, Nigel Hickson said that minimum standards for licensed CAs would be necessary to win public confidence in electronic commerce.

SOME MAY SAY THAT THE ENCRYPTION debate is central to the relationship between government and the individual. That’s overhype, but only just. The widespread availability of strong ciphers means that shady characters have no need to use licensed encryption service providers. It’s also possible to bury encrypted data text within, say, an image file via a process called steganography. The encryption genie is out of the bottle. Those who will use licensing regimes — and that means the man or woman in the street and the small business person — have the right to privacy as well as trust. The Labour Government could do a lot worse than reflect on its statements in opposition: “Attempts to control encryption are wrong in principle and un-workable in practice.”

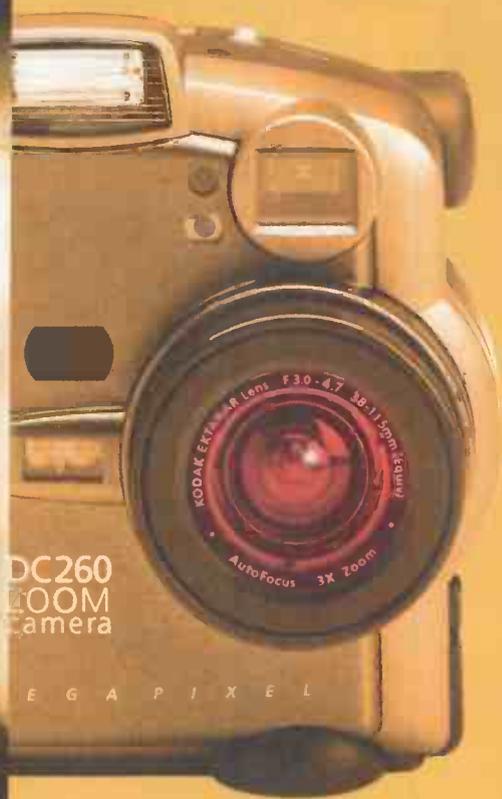


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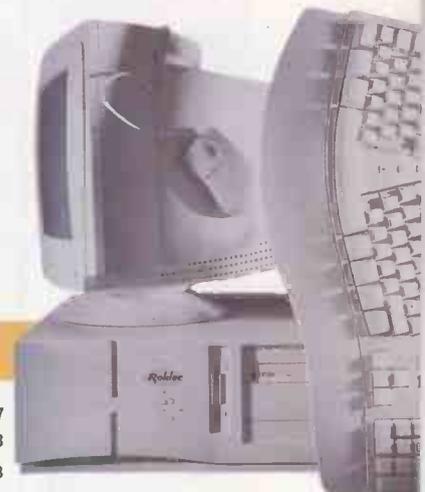
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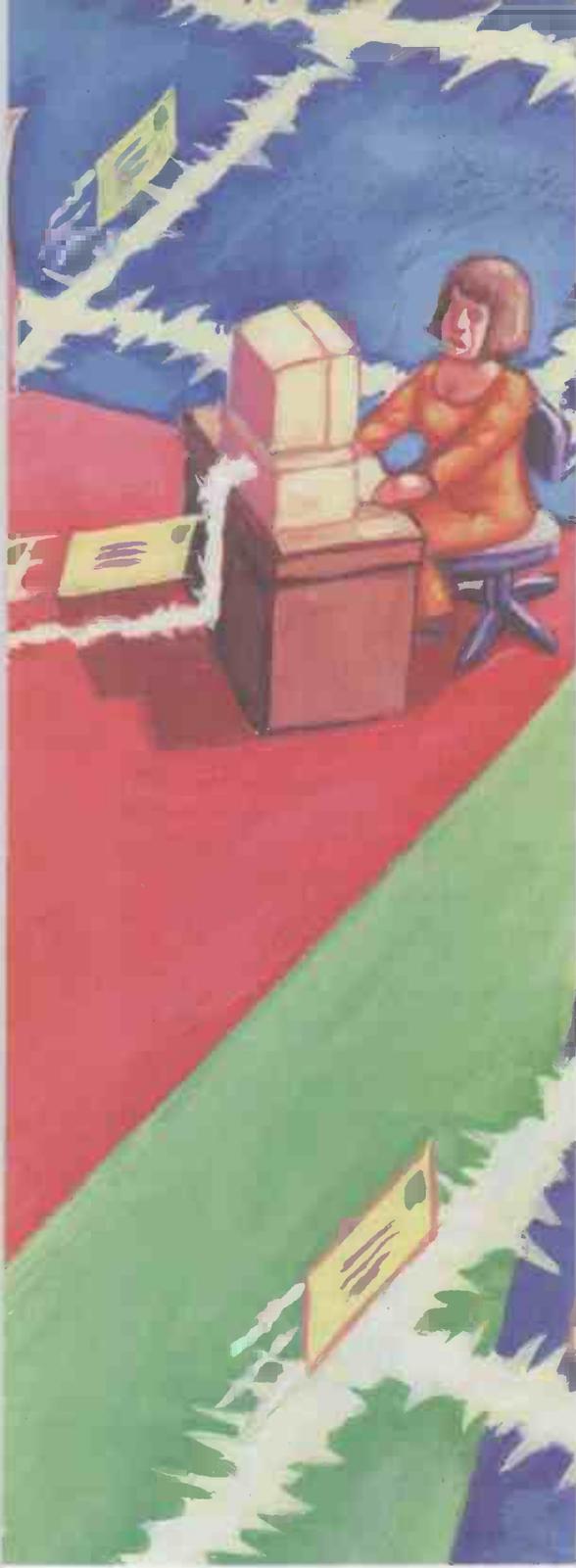
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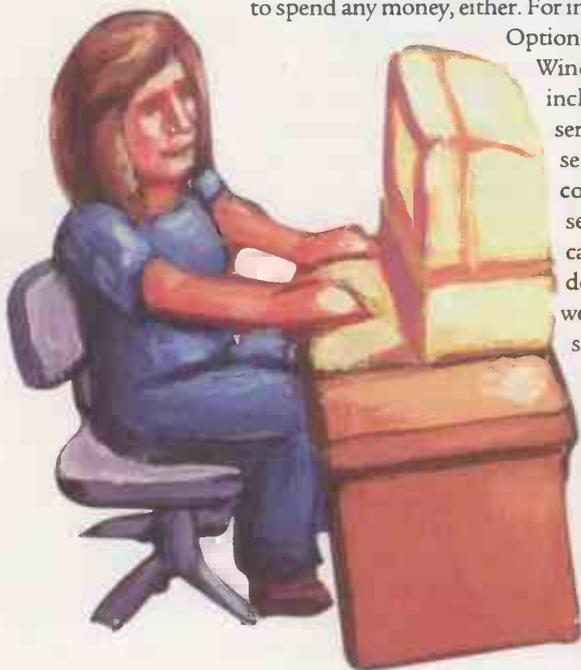
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A permanent connection to the internet could cost you from £500 a month upwards. Think how much you're already paying for web space, email, and other facilities from your provider, remembering that half an hour's access at daytime rates costs about £1, and you may be surprised at how little more you'll need to pay for unlimited access, 24 hours a day. And, as you'll see, the technical side of getting connected is simpler than ever, too. With operating systems like Windows NT or Unix, linking up to the net, whether it's for email, desktop surfing or publishing web pages, is well within the reach of many people.

What's involved?

Connecting to the internet isn't as hard as you might think. In fact, you may already have most of the software and hardware that you need. The largest investment is in a server, which can be used to handle email, deliver web pages or cache them for people in your company, giving them faster browsing. The type of computer you need to a large extent depends on the software you need and its requirements. Don't be too carried away with speed: remember that the cheapest permanent net connection only delivers around 8Kb per second; with that sort of bottleneck, a 400MHz Pentium II will be twiddling its thumbs most of the day. For a web server, you'll find disk performance and sheer reliability much more important than processor speed. You'll also need a router which connects your network to the rest of the internet, and the leased line itself. That's simply a dedicated telephone circuit to your internet provider, which usually terminates in a small box, with a socket for your router to connect to. A router will cost you between about £750 and £2,000. And for a small office, with a 64K link to the internet, expect to pay around £1,000 for a router.

On the software front, you may find that you don't need to add much more; and unless you



have specialised requirements, you may not need to spend any money, either. For instance, the

Option Pack for Windows NT includes a web server. Unix-based servers often come with a web server, and you can also download a wealth of free software from the net itself. Email is one area where you may need to spend cash, depending on the type of internal mail you're already using; some

office mail systems will require a gateway to connect you to the internet, which could cost a few hundred pounds. Others may already include the facilities you need.

Making the right choices

When putting your office online, you'll need to decide on a number of things. What speed connection do you need? What about a router? Should you go for a Windows NT system, or use Unix? The most important thing to consider is the capacity of your line. Providers will come up with lots of figures to help you decide what speed link you need; the basic entry level is 64Kbits per second — the same speed as a single ISDN channel.

The next step up is 128K, but it's a hefty step: unless the actual link can be provided by a cable company, get set for a shock. A British Telecom line will cost around £1,000 to connect for a 64K line, but £6,000 for 128K, because they install a fibre optic link. Other companies, like Cable London, charge the same to install a 128K link as a smaller one, so it may pay to shop around.

What will a 64k link handle? In theory, if it were running flat out all month, it could deliver around 20Gb of data. In practice, things are a little different; my own web server, with about 1.5 million requests, delivers 10Gb a month down a 64K line; but at peak times, some people are having to wait. If you expect lots of hits on your web site at the same time, you're going to need a bigger line or people will have to wait longer to see pages appear. You might be put off by the high costs of installing a 128K line or faster, but it's not the only option; some routers can use an ISDN line to increase the capacity at peak periods. The ISDN can also be used as backup should the main link fail.

Choosing a router is fairly straightforward; it's largely a question of making sure you use one compatible with your ISP — though consider some features like whether or not it supports people dialling in via ISDN or modems, and if it can handle security for you, allowing access only to "public" machines on your network. Finally, there's choice of Unix or Windows NT for the server. For many, the decision is simple — stick with what you know. But there are other considerations. A Unix-based server isn't as straightforward to configure as the NT alternative, but you'll find most of the software you need on the net — and the server itself may

When to make the move

There's no hard and fast rule for when you should take the plunge and move away from the dialup connections and web sites hosted with providers that most people rely on. After all, you're unlikely to be able to afford a web server with a link as fast as your provider unless you spend serious money. But there are a number of scenarios where it can make sense to link up.

➔ **A small office** with a 25Mb web site and around 20,000 hits per month, has a mailing list of 1,000 customers who want to be kept up to date with new products. There's also an auto-responder email address for people who have simple enquiries, and a domain name with dialup email to the office network. A typical cost from an internet provider for

this type of service is around £250 per month — about half the cost of a leased line connection. Add the cost of surfing the web during the day, at £2 per hour, and if people in the office spend much time online, a permanent connection could be a real winner, allowing more customer mailing lists and unlimited web space. However, remember that if there

are large files on the web site or it becomes very busy, a 64K line won't be sufficient.

➔ **A design consultancy** wants to put its old work, including multi-megabyte files, on the web for people to see, and to have access to email for sending work to clients. Depending on the cost of web space, an office server may be cost effective — but remember that

large files aren't going to arrive quickly, especially if the site is busy. To create a good impression when people want to download your work, they are probably best kept on an ISP's server, which will be faster. Nevertheless, if a lot of email is sent during the day, with large files, a leased line could be worth it, if the current dialup bills are approaching the cost.

Some important questions to ask

ABOUT THE SERVICE PROVIDER

- **If you're paying** for a certain bandwidth, is that guaranteed? Are there options, like frame relay, where you just pay for what's used?
- **Can the ISP** host mail boxes, or provide a Domain Name Service for you?
- **How many IP** addresses will they

allocate? Is that sufficient?

- **Is an ISDN** backup option available? If so, can you use your existing ISDN line, or will the ISP insist on installing a new one?
- **Can the provider** offer aggregation, where a low-capacity line can be augmented with ISDN during busy periods?

➤ **Will the ISP** supply and configure a router for you?

➤ **Is assistance** with other configurations, such as name servers, offered?

➤ **What backbone** capacity does the provider offer? Are there links direct to Europe as well as the the US?

➤ **Who do they** peer

with? If they don't have agreements with other major providers, you may find UK traffic to your server crossing the Atlantic twice.

ABOUT A ROUTER

➤ **Can the router** be used with ISDN as well as with a leased line?

Will it handle ISDN backup and aggregation?

➤ **If you decide** to

upgrade your line later, will the router handle the capacity, or will you have to buy a new one?

➤ **Can the router** block traffic to or from certain sites, for filtering or security?

➤ **Will it handle** incoming connections via ISDN or modem for people working outside the office?

not need to be as highly specified. The server that I use to deliver 10Gb of web data, and up to 10,000 mail messages a day, isn't a massive powerhouse. It's a Pentium 90 with 64Mb of memory, running SCO Unix, and home to nine virtual web servers. You'll need a higher-specified server to achieve the same performance under Windows, though you'll also have a much simpler system to look after.

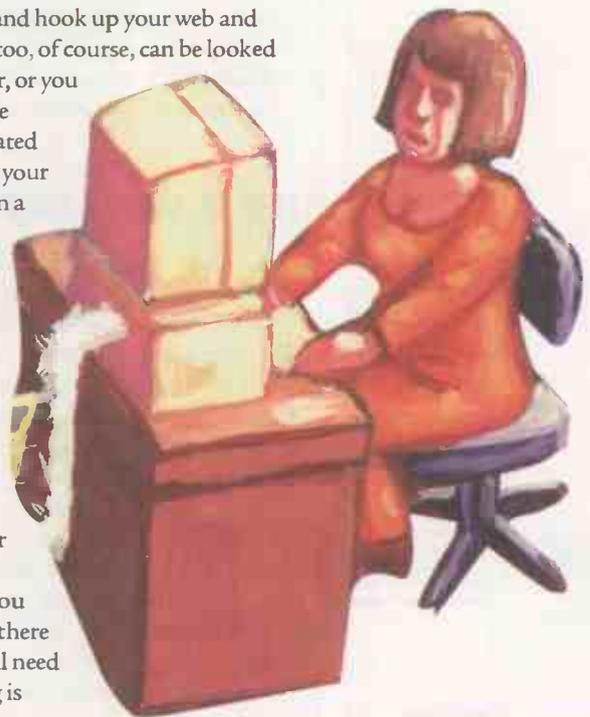
The role of the ISP

Compared to the cost of a dialup connection, even using ISDN, a leased line to the internet is expensive. And it's not just the cost of the link itself that bumps it up. So what are you paying your ISP for? Connectivity is the main thing, but if you're not confident about some of the technical aspects of running your network, such as configuring name servers, most ISPs will include that in their charges. Some will also provide you with a fully "managed" service where they look after the router, so all you have to do is

plug it in, switch on and hook up your web and email servers. Those too, of course, can be looked after by your provider, or you could let them handle email, while complicated web scripts accessing your order database run on a server in the corner of your office.

Setting it all up

The box on page 254 shows in detail how to configure the Microsoft Web server to publish your own pages on the internet, but before you can even get that far, there are other things you'll need to consider. Planning is



Leased Line Providers

The number of internet providers offering leased lines has increased dramatically over the last few years. Many of the companies that are members of LINX (the London Internet Exchange) offer leased lines. A complete list is at www.linx.net, where you can also check to see which providers exchange traffic with

each other. Prices vary, and many providers charge according to distance; expect to pay less in a large town like London than in a rural location. A basic 64K leased line will cost about £1,000 to install, and £600 per month. Some of the best-known providers are listed on page 256 ["PCW Contacts"]. Hard and fast costs

aren't always easy to come up with, but especially for smaller-capacity leased lines, many providers work on a flat rate - though others still base the line charge on the distance in kilometres between the telephone exchanges involved. For higher-capacity links, you're more likely to have to pay per kilometre.

We asked two providers to come up with quotations for two services (*below*). The first, a 64K line to a village near

Winchester, and the second for a 2Mb link to an office in central London. Prices exclude VAT, and rental figures are per annum.

SUPPLIER	DEMON	UUNET
64K installation	£1,000	£1,000
64K rental	£7,200	£9,500
ISDN backup installation	n/a	£750
ISDN backup rental	n/a	£2,000
2Mb installation	£5,200	£4,200
2Mb rental	£32,490	£15,000



crucial. For example, do you want every computer in your office to have direct access to the internet? Can you even be allocated enough addresses for them all? Some providers will only allocate you a limited number of IP addresses, so you may need to hide some computers behind a firewall — which makes for more complicated configuration, though it does make systems safer from hackers.

You'll also need to check other security issues, like installing all the latest patches and updates for bugs in systems like Windows 95 and Windows NT: miss out on some updates, and your systems can easily be crashed by malicious

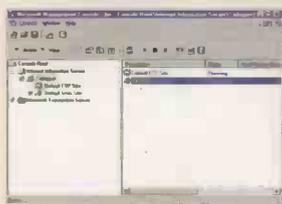
net users. So, install the Windows NT Option Pack (which includes Service Pack 3, as well as the web server) and the service packs for Windows 95. If you've opted for a Unix system, check with the vendor for information about common problems including the "ping of death", "out of band data" and web server security holes — all ways of crashing or gaining unauthorised access to systems on the internet. Check other issues, like systems with file sharing enabled via TCP/IP and no passwords — easy to do with Windows 95, and potentially disastrous. Decide too how you want to handle email, web sites and an intranet. Will some services be best handled by the ISP? For a small office, for example, having your email stored on the ISP's POP mail server will save you having to

Configuring a web server using Windows NT

At its simplest, setting up a web server in your office can be very straightforward. Arrange the line, have your service provider configure a router for you to plug into it, and ask them to give you a list of the internet addresses you've been allocated. Decide which

addresses are for the web server, mail server and other essential systems, and configure them all. Plug in the router, connect it to your network, and switch on. Your PCs should be able to browse the web; setting up the web server requires a little more work. Here, we've

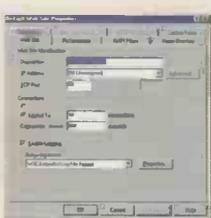
used Internet Information Server for Windows NT 4; you can download it from the Microsoft web site as part of the NT 4 option pack. You may want to wait until you have your link to the net functioning — the pack is around 27Mb to download.



▶ During installation you'll be asked to enter some basic information, including

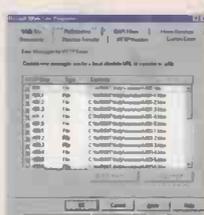
choosing a directory for your web pages. You can change everything later. This screen shows the Internet Service Manager, which is the simplest way to configure your system. You'll find it in the NT Option Pack group on your Start menu. It's the easiest way to stop and start services like the web and ftp servers.

▶ Right click on the Default Web Site and choose 'Properties'. You'll see a screen like this. You can



choose to limit the number of connections to your web server, and the type of log file you want. By clicking on the Advanced button, you can make the server respond only to certain IP addresses — use that feature if you want more than one web server on the same computer. For example, you might have intranet.yourfirm.co.uk and www.yourfirm.co.uk set up. By allocating each a distinct IP address, you can have them both on the same PC.

▶ The Documents tab is used to control what happens when someone misses the name off the end of a URL. Here we've added index.html to the list of defaults, which means that if someone requests www.yourfirm.co.uk,

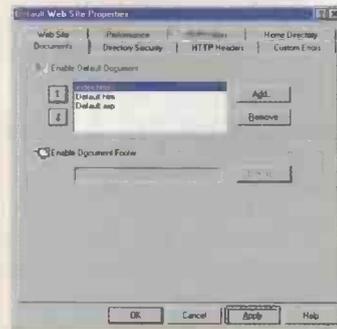


they'll see the file www.yourfirm.co.uk/index.html, or www.yourfirm.co.uk/Default.htm.

▶ The Custom Errors tab allows you to set up the error messages returned by the

server. By altering this option you could, for example, direct people to a site map page, or a search system if they request a file that doesn't exist.

When you've finished making changes, the Internet Service Manager will save them all, and you're ready to publish your web site.



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install software yourself, but you may lose the ability to run mailing lists, or to add useful aliases for services like “sales” and “accounts”. You’ll also need to register a domain name, and allocate names to all the systems that can be accessed from the rest of the internet. And decide if you really want to configure each PC automatically,

or to have a server do it for you using DHCP – the Dynamic Host Configuration Protocol – which will save visiting every system when you want to make changes, but also means every PC may have a different address each time it’s turned on.

Don’t forget to consider the more mundane things, like power supply, too. If you want to make sure your site is always available, invest in a UPS, and make sure it’s powerful enough to run the server, router and the Network Termination Unit that sits on the end of the leased line. All this might sound like a lot of work, and it can be, but if you plan carefully you should be able to

configure all the systems in a small office, including a web server, ftp site and email server, in just a couple of days.

Conclusion

It might seem that there’s a lot to think about; but connecting your LAN to the internet isn’t as technical or complicated as it seems – and a good service provider will help you with most of the really tricky aspects of the system. Nevertheless, if you really want to achieve the potential that’s opened up by having a web server sitting in a corner of the room, and a direct link from every desktop to the internet, then you’ll need to invest time in planning and choosing the right equipment. There are dozens of internet providers who will be able to supply you with a link, with differing options, prices and levels of service. The cheapest may not be the best – especially if it means you have to spend time dealing with technical details that would be best left to someone else. So, think what you want, shop around, and find out the best solution for your needs. Whether you want a plug-and-play solution, or complete control over everything that happens, there’s one sure thing about building your own web server and connecting your office to the internet – you’ll wonder why you didn’t do it sooner.

PCW CONTACTS

- Btnet 0345 585110 www.bt.net
- Demon Internet 0181 371 1250 www.demon.net
- INSnet 0181 239 5004 www.insnet.net
- PSInet 01223 577577 www.uk.psi.net
- Unnet 0500 567000 www.uk.uu.net

A month in the life of a server

Just how much can you do with an entry-level 64K line? Here are the figures for my own server’s web traffic, in addition to which, it delivers up to 10,000 email messages each day, from a number of mailing lists.

➔ **The server** is a Compaq Prosignia 300, 90MHz Pentium with 96Mb of memory; memory and disk are more important than raw speed, with the bottleneck of my 64K line. The server runs

SCO Internet FastStart and hosts nine different web sites.

➔ **The router** I use is a ShivaIntegrator 150 which offers ISDN backup, aggregation, and supports leased lines up to 256K. (The following figures are for July 1998)

- Total number of http requests received: 1.69 million
- Total number of bytes transferred: 9.96Gb
- ➔ **The maximum** capacity of a 64K line is

approximately 20Gb per month, suggesting that only 50% of the link is used. In fact, the peak hourly figure reaches 71.1%, or 19.5Mb – and that’s not the end of the story. During heavy peaks, the router uses an ISDN line when the leased line reaches 95% capacity, giving 128K of bandwidth. At present, the average time using ISDN is about one hour a day, suggesting that for practical purposes, the limit of a 64K link is

fast being approached. If you want this sort of flexibility, though, you’ll have to hunt for providers who offer it, or choose a service that bills you by the amount of data transferred over a higher capacity link. ➔ **When you look at** the logs from your own web server, it’s important to analyse them by time of day and look at the peaks – otherwise you could fall into the trap of thinking you have plenty of spare

capacity, when you’re actually close to the limit. But for many people, a 64K line could turn out to be a very cost-effective way to get on the net. You really don’t need to spend a fortune on hardware and software.

- Compaq 0845 270 4222
- www.compaq.co.uk
- SCO 01923 816344
- www.sco.com
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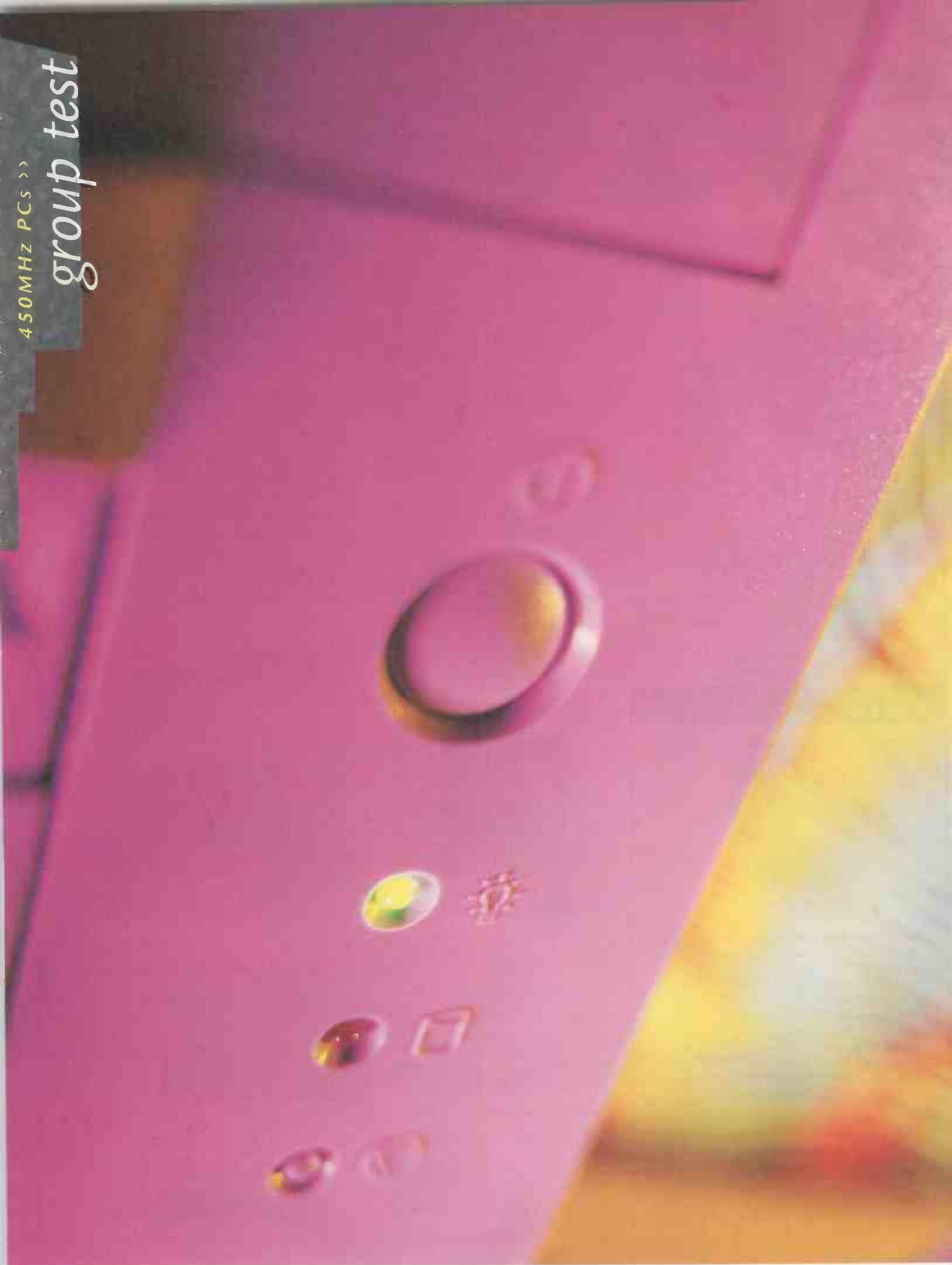
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group test



The big top ten

As far as this PCs group test was concerned, expense was no object. Letting the bank balance bear the full brunt of our extravagance, we treated ourselves by specifying the best hardware available to take an in-depth look at some of the **first 450MHz Pentium II-based** machines from ten of the biggest names in PCs.

What could better complement one of these fast processors than a generous bundle of memory? With RAM prices falling all the time, we opted for 128Mb; enough to run even the most demanding applications we could throw at it. Installing Windows NT 4.0 as our operating system, we were looking fairly and squarely at the business market and so asked our suppliers to include large hard drives of at least 4.5Gb. In many cases they came up trumps with SCSI-based systems, so be sure to keep an eye on our BAPCo test scores to see if paying the little extra that this super-fast interface will set you back really does pay off in terms of performance. And just in case you are worried about data loss, we asked for some kind of removable drive to be added for backup, with a capacity of 1Gb or over.

PCs of this spec could easily be used for graphical applications, and so a 19in monitor seemed particularly suitable as in many instances, coupled with an 8Mb graphics card, it would allow us to run resolutions as high as 1600x1200. The pay-off, in the form of a slight reduction in the amount of free disk space left at our disposal, seemed a small price to pay.

The PCs we received were subjected to our usual rigorous PCW Labs testing procedure, scaling their performance against a suite of commonly-used business applications, each designed to tax the power of every component.

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PCs tested and reviewed by Nik Rawlinson and Paul Trueman.

Ratings

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

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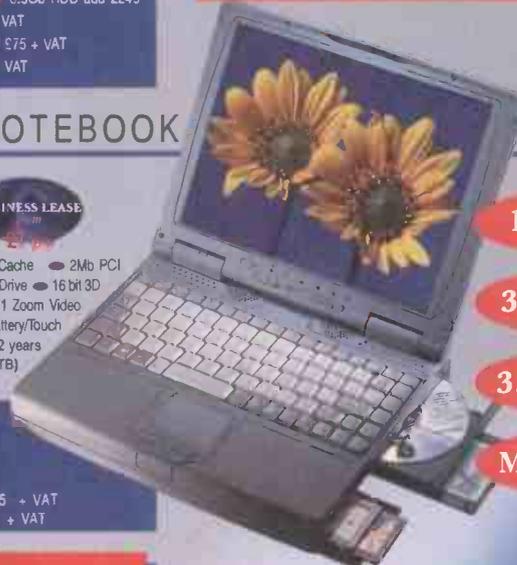
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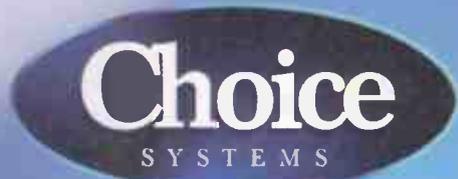
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Armari MBX-450 Workstation

The dual-processor ASUS motherboard in the Armari offers a useful upgrade path for power users. Its 9.1Gb Seagate Cheetah SCSI hard drive was backed up by a single 128Mb SDRAM DIMM. A further three free memory slots would allow us to increase our installed memory to 512Mb without replacing what was already installed. The Adaptec SCSI controller chips are onboard, leaving one free ISA and a massive four free PCI slots at our disposal.



Unfortunately, one of the PCI slots was obscured by a badly-strung SCSI cable, and we were also disappointed that accessing the free memory slots was difficult, due to the hard-drive cabling obscuring them. **Mass backup storage** was catered for by both a Travan tape drive offering space for up to 8Gb of compressed data, and a CD writer. One each of 5.25in and 3.5in drive bays remained free externally, while a further 3.5in bay was left vacant inside the case. Sound was driven by a Creative Labs AWE 64 card and arrived courtesy of a set of Yamaha YST-MS25 speakers comprising a large sub-woofer and two smaller tweeters for a total output of 25W. **We were not surprised** that one of the best images in this group test was that produced by the Iiyama Vision Master 450. Although this monitor may look dated, it is impossible to fault its performance. Even at a resolution of 160 x 1200 there

was no discernible flicker, and even small characters on the screen remained easily readable. Screen regulation was perfect while, when running our tests, all guns lined up to present synchronised red, green and blue test patterns and the ten primary colours test demonstrated uniform fading scales.

PCW DETAILS

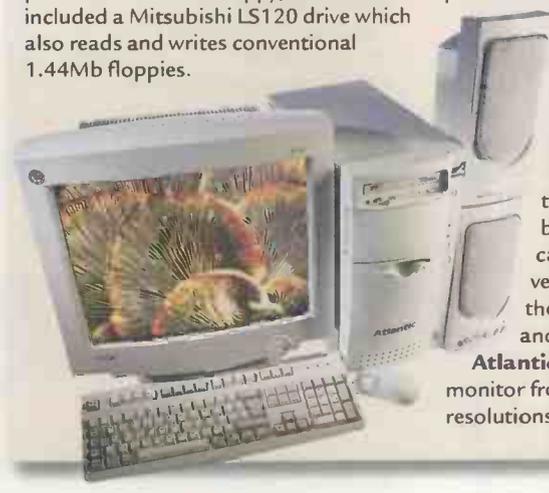
Price £3,406.33 (£2,899 ex VAT)
Contact Armari 0181 810 7441
www.armari.com
Good Points Dual-processor motherboard. Potential for 512Mb RAM. CD-ROM writer. Monitor.
Bad Points Difficult to access memory slots. Badly-positioned SCSI cable.
Conclusion One of the best.

Build Quality	★★★★
Performance	★★★★★
Value for Money	★★
Overall Rating	★★★★

Atlantic Proteus 450LVD



The majority of PCs we see for review have approximately the same configuration. But there are always a few that stand out. The PC we received from Atlantic was one such machine: it was packed to the rafters with toys to delight the tech-head. A CD-RW drive from Traxdata, should you wish to write information to CD, and a DVD drive from Creative Labs. And, whereas other manufacturers had gone for the prehistoric 1.44Mb floppy, Atlantic had included a Mitsubishi LS120 drive which also reads and writes conventional 1.44Mb floppies.



The LS120 and DVD drives both used IDE connections, with the CD-RW using an Ultra Wide SCSI connection and the 9Gb Seagate hard drive using the latest LVD SCSI 2 interface. Both were hooked up to an Adaptec SCSI controller, taking up one of the four PCI slots. **Both ISA slots** were filled: one with Creative Labs' AWE 64, the other with a Cheyenne K56Flex modem using the Rockwell chip. Atlantic also scored points for its choice of graphics card — the Millennium G200 from Matrox. This 2D/3D card comes with 8Mb as standard but there is space on the card to upgrade to 16Mb, ensuring that it is future-proof. However, we thought the machine would benefit from a larger tower case, as the components are all very closely fitted, although there are still spare single 3.5in and 5.25in bays.

DJ800 could provide support that resolution at a decent refresh rate of 70Hz, although some sensitive eyes will still be able to detect flicker. The DJ800 uses the excellent, user-friendly, dial OSD, perfect for being able to make quick changes to the display.

Atlantic bundled a 19in DJ800 monitor from Mag, capable of resolutions of up to 1600x1200. The

PCW DETAILS

Price £2,936.33 (£2,499 ex VAT)
Contact Atlantic Systems 0990 134725
www.atlanticsystems.com/sys/
Good Points Packed full of high-end gadgets...
Bad Points ... "packed" is the operative word.
Conclusion A smashing piece of kit.

Build Quality	★★★★
Performance	★★★★★
Value for Money	★★★★★
Overall Rating	★★★★

Compaq Deskpro EP Series 6450

Compaq was unable to supply a SCSI hard drive and opted instead for a 9.5Gb Maxtor IDE device. Only 20 percent of the drive had been partitioned, wasting space and leaving it up to users to struggle with partitioning themselves. The interior was fairly messy, with cabling obscuring the two free memory slots, and the 128Mb RAM had been installed into the Compaq motherboard on a single module.



We were disappointed with the quality of the Titan PV3 sound card, but the internal speaker which it drove was of high quality and did away with the need for external units. The excellent keyboard and mouse were comfortable in use for extended periods throughout our tests. The case had enough rubber feet to be used as either a mini-tower or a desktop unit, but with only one free external 5.25in and one internal 3.5in bay we were disappointed that this machine suffered from the usual "desktop" problem of limited expansion opportunities. Removing the drives was facilitated through the inclusion of a quick-release mechanism. Three free PCI slots complemented the free shared slot, but all dedicated ISA slots were filled. The PC itself was built around an Intel 443BX chipset.

The monitor, a Compaq V90, provided an excellent image. Screen uniformity and fine image detail could not be faulted, although in line with many other monitors, slight moiré was evident on a fine-line test pattern. However, it did have a problem with displaying a

greyscale image of 256 intensity levels. The image should have stretched right across the screen but was instead bordered by two vertical bars, about an inch wide, on each edge. It received its signal from an AGP Matrox Millennium G200 with 8Mb SGRAM onboard — a card that is ubiquitous in machines of this specification.

PCW DETAILS

Price £2,328.75 (£2,050 ex VAT)

Contact Compaq 0845 270 4000

www.compaq.co.uk

Good Points Good internal speaker. Rotatable case.

Bad Points Hard-drive partitioning. Messy interior.

Conclusion Worth consideration, but as there are limited expansion opportunities you may outgrow it

Build Quality	★★★
Performance	★★★
Value for Money	★★★★
Overall Rating	★★★

Dan Dantum II/WSU

With a full tower case this PC was a behemoth of a machine, offering an impressive three free external 5.25in bays, one free external 3.5in bay and two free internal 3.5in bays, making this case suitable to house a network server.

The installed Seagate Cheetah SCSI hard drive stretched to 9.1Gb of storage and was backed up by a Travan drive for data security. The SuperMicro dual-processor motherboard, as well as offering ample opportunity for increasing the



processing power, incorporated onboard SCSI to keep three of the PCI slots free.

The Dan's file-server potential was confirmed through the inclusion of four memory slots on the motherboard, of which three remained vacant. There was 128Mb pre-installed, allowing us to increase the total installation to 512Mb without making any replacements. Both a 56K modem and a 3Com Fast Etherlink XL 10/100Mb TX network card

ensured that whatever the situation, this PC was ready and waiting to be hooked up to the outside world. Sound was catered for by an AWE 64.

The Dan-branded CTX monitor performed well, with a maximum non-interlaced refresh rate of 75Hz at 1280x1024. With good screen uniformity across the image surface it showed no evidence of defocusing, blooming or halos when bright white images on a black background were compared with

greyer equivalents (this is evidence of a sharp picture). But, like the Compaq's, this monitor had trouble filling the whole width of the screen with a 256-level greyscale fade, and instead filled the vertical inch or so of gap to the left and right of the picture with black bars. The display was driven by a Matrox Millennium G200 with 8Mb onboard.

PCW DETAILS

Price £2,986.85 (£2,542 ex VAT)

Contact Dan 0181 830 1100

www.dan.co.uk

Good Points Loads of expansion room. Server potential.

Bad Points Problem with 256 greyscale intensity monitor test

Conclusion Good machine, but a full tower case may be a little large for some.

Build Quality	★★★★
Performance	★★★★
Value for Money	★★★
Overall Rating	★★★

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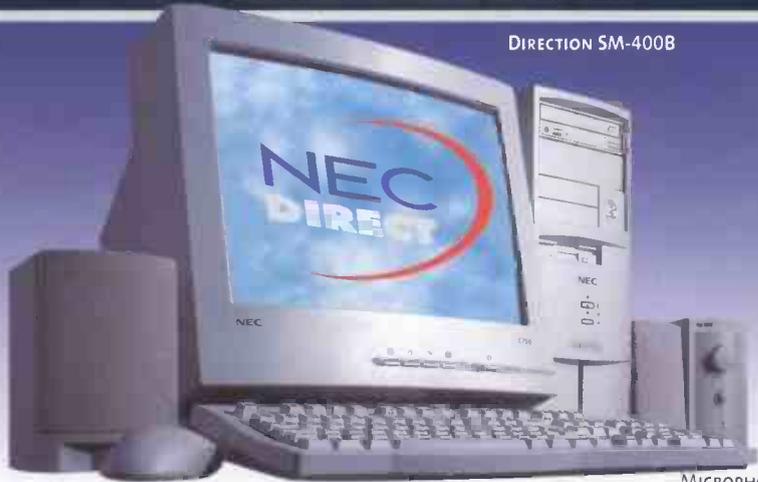
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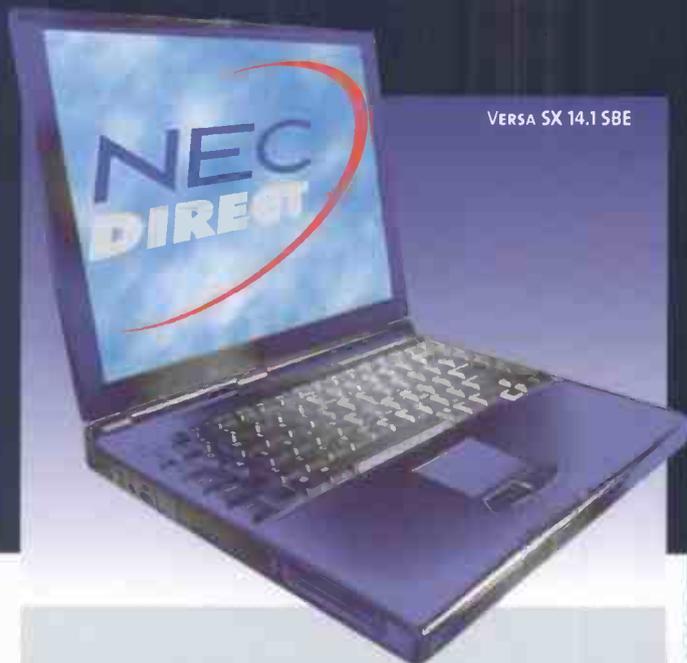
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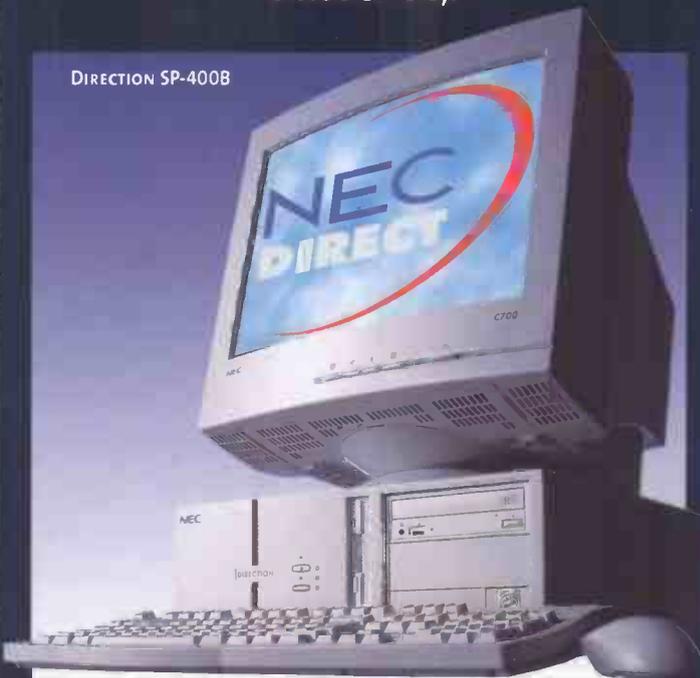
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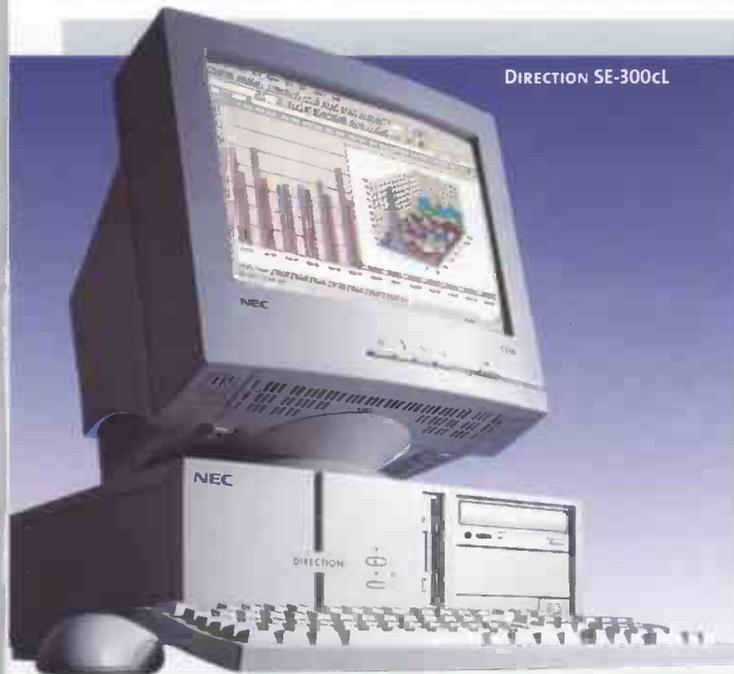


DIRECTION SP-400B

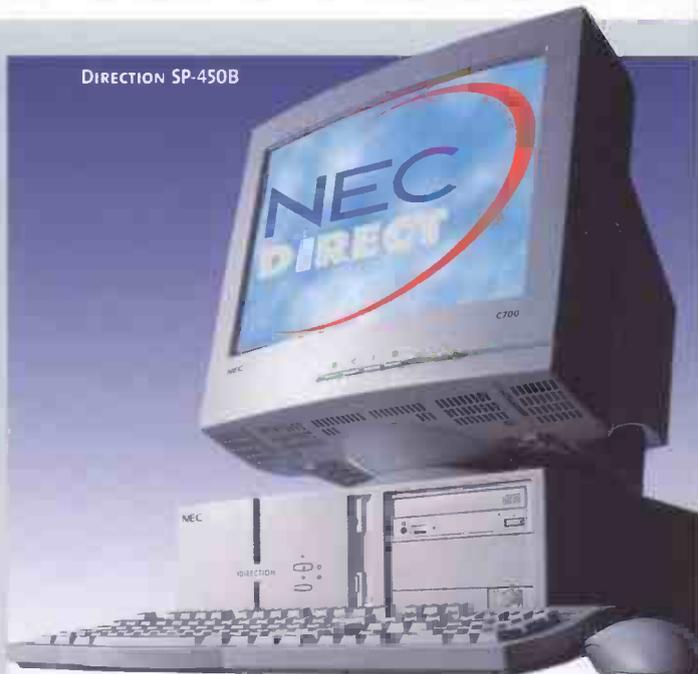
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- Logitech Roller Mouse, Keyboard
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- SoundBlaster® Audio PCI 64V Sound Card
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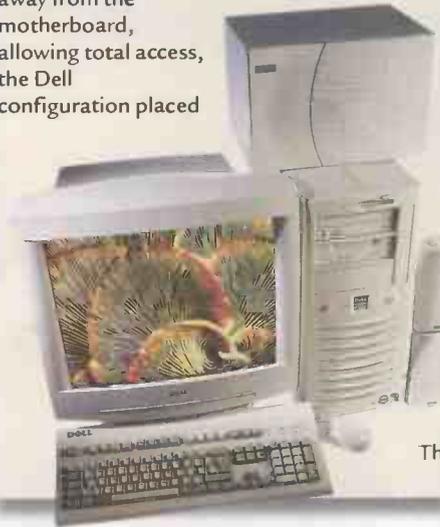


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Dell Workstation 410



Despite the considerable amount of hardware inside this PC, Dell had not opted for a giant case as had some manufacturers. Consequently, there was not the same accessibility that we saw in towers like the Evesham. On the flip side, you won't have a desk Goliath that blocks out the sun. Whereas in larger cases we saw the bulky power unit positioned above and away from the motherboard, allowing total access, the Dell configuration placed



the power unit over the top part of the motherboard, the DIMM slots and onboard SCSI connections for the CD-ROM and 12Gb Sony tape drives. Rather than having to unscrew the power unit to get access to the motherboard, as with less well-designed PCs, Dell has designed its power unit so that it flips out on a hinge and stays there, suspended high enough over the motherboard so that we could get a good look at the insides of the machine. The AGP slot was taken up with Diamond's 2D/3D 8Mb Permedia2 card. Because the SCSI was onboard, it left all five PCI slots free for further possible expansion. There was a single consolatory ISA slot, too. Network access is provided via the 3Com network interface card, and the 8.5Gb Quantum SCSI hard drive was backed up by a Sony SDT9000 tape drive which takes 12Gb tapes. The monitor was one of Dell's own, the D1226H, capable of resolutions up to 1600x1200 pixels. This 19in monitor provided excellent

focus across the 17.9in of viewable area and could easily support a resolution of 85Hz at a resolution of 1024x768, with little discernible loss of sharpness.

PCW DETAILS

Price £3,983 (£3,390 ex VAT)
Contact Dell 0870 907 3335
www.euro.dell.com

Good Points Lots of data storage available, as well as hardware expansion space.

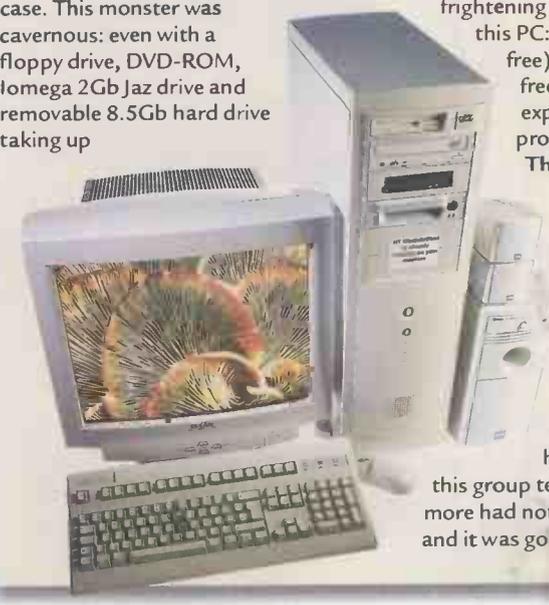
Bad Points If it had been a little quicker, it would have been even more impressive.

Conclusion Worth consideration, but as with the Compaq, it has limited expansion opportunities.

Build Quality	★★★★★
Performance	★★★
Value for Money	★★★
Overall Rating	★★★★

Evesham Micros Platinum SE

The case that Evesham had chosen for its PC caused gasps in our labs when taken out of the box; it was the size of a small (rectangular) child. Admittedly, Evesham has kitted out the PC most impressively, but unfortunately such largesse has also extended to the tower case. This monster was cavernous: even with a floppy drive, DVD-ROM, Iomega 2Gb Jaz drive and removable 8.5Gb hard drive taking up



lodgings, there was still an impressively generous amount of room left over. But our gripes about the size apart, Evesham has put together an impressive bundle. In terms of hardware generosity, it beats most of the other PCs we saw in this group test. There is a quite frightening number of drive bays on this PC: six for 5.25in drives (two free) and three 3.5in bays (all free). Quite obviously, expansion is not going to be a problem in this machine. The slots were filled with some impressive kit. There was the Millenium G200 graphics card from Matrox, a 56K modem using the Rockwell chip, and Creative Labs' AWE 64 sound card, leaving no ISA slots but four PCI slots free. Bearing in mind the relatively free rein we had given the companies in this group test, it was surprising that more had not chosen to fit DVD drives, and it was good to see both a DVD drive

as well as kit like the 2Gb Jaz drive, with its Narrow SCSI interface. Evesham scored extra points for bundling the excellent Ergovision 975 19in monitor from Taxan. With an impressive viewable area of 18in, the Ergovision was capable of a refresh rate of 60Hz at 1600x1200.

PCW DETAILS

Price £3,053.83 (£2,599 ex VAT)
Contact Evesham Micros 01386 769600
www.evesham.com

Good Points Ideal for a user who needs to expand their machine.

Bad Points Too big to sit on a desk and perhaps too big to fit underneath.

Conclusion A gargantuan PC, full of impressive kit.

Build Quality	★★★★
Performance	★★★
Value for Money	★★★★
Overall Rating	★★★★

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- SoundBlaster 64 AWE Sound Card
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- 32MB SDRAM
- 2.8Gb UDMA Hard Drive
- 1.44MB Floppy Drive
- 32X CD Rom
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Hewlett-Packard Kayak XA-S PC

At the other end of the spatial spectrum to the huge Evesham box is the dinky Kayak XA Workstation from HP, a company which prides itself on the scalability of its workstations, made to make life bearable for IT managers. The exact benefits of this model are questionable, with the labyrinthine layout of the components. The box is as long as the motherboard and slightly wider, while the drive bays are suspended inches above the motherboard. With one free 5.25in bay and two free 3.5in bays, there is some room for expansion, but



getting to the motherboard to connect any new drives looks tricky. A large metal skeleton hangs over the motherboard, holding the drives, and this is definitely not the machine for the user who likes to tweak and fiddle.

In the end we were able to get to the DIMM slots, but the process is not so swift and painless as HP would have you imagine. Power and IDE connections have to be pulled out, as well as various plastic covers inside the PC. Although the design to remove the cover of the PC is beautifully simple, it is not a simple process, attempting to unplug power connections and then having to put it all back together again.

Although there are high-end Kayaks available, we seemed to have received rather a neutered version. Instead of the SCSI connections, tape storage, DVDs and CD-RW we saw in other machines in this group test, the Kayak had just a conventional IDE CD-ROM and floppy drive. HP had also fitted the 2D Productiva G100 card from Matrox, and an Ethernet card. HP surprised us with its huge 1100

21in monitor (big enough for any user). This is an excellent monitor, with vibrant colours and refresh rates that remained healthy even at a maximum resolution of 1600x1200. The OSD was excellent, with sensitive, user-friendly controls. However, this mammoth monitor has a price to match its size.

PCW DETAILS

Price £4,177.13 (£3,555 ex VAT)

Contact Hewlett-Packard
0990 474747

www.hp.com/go/kayak

Good Points Some nice design touches, plus the HP brand.

Bad Points Skippy hardware. Fiddly when trying to look inside.

Conclusion Offers few reasons for buying one, compared to the competition.

Build Quality	★★★
Performance	★★★
Value for Money	★★
Overall Rating	★★

Hi-Grade Axion PV2 450

Our first impression on opening up the Hi-Grade case can be summed up in one word — wires. Loads of the blighters. We were initially confused by the jumble of leads and surprised that the Hi-Grade engineers hadn't made more of an attempt to bunch them up. The individual wires from the IBM SCSI hard drive were draped over the Matrox graphics card and the ribbon cable that daisy-chained the CD-ROM to the Hewlett-Packard SureStore T4 tape drive. It's not that

we appreciate neatness *per se*; more that the wires obscure the motherboard and hardware. This will make your life harder should you wish to upgrade your RAM, or any other component.

There wasn't that much room for expansion in this PC compared to some others we saw. There was only one spare 5.25in bay and one spare 3.5in bay, with the hard drive filling the other 3.5in bay, suspended out a few inches from the other drives over the motherboard. If you

wanted to access your RAM, you would need to detach the 3.5in bays first, to get at them. Two of the four PCI slots were taken up, one with a 3Com 10/1000 Fast Etherlink Network card. More unusually, there was a PCI sound card — the 64-voice Aureal Vortex. The AGP slot was taken up with the excellent 2D/3D

Millenium G200 from Matrox.

All four of the PCI slots could be used, though, as there was sufficient space

between them, and the two (empty) ISA slots mean that they don't share a backplate.

Hi-Grade had included the Iiyama VisionMaster 450 with its PC. This is an excellent 19in monitor with sharp focus and vibrant colours. Should you wish, it is capable of displaying 1600x1200 at a healthy 75Hz. The VisionMaster has one of the best OSDs we have seen.

PCW DETAILS

Price £2,579.13 (£2,195 ex VAT)

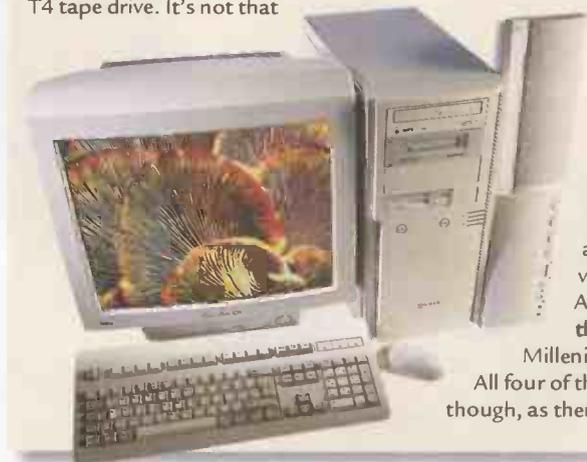
Contact Hi-Grade 0181 532 6100
www.higrade.com

Good Points Excellent graphics and audio cards.

Bad Points Little room for expansion.

Conclusion If you never want to open it to tweak, you won't mind the Hi-Grade.

Build Quality	★★★
Performance	★★★
Value for Money	★★★★
Overall Rating	★★★



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PC Magazine, Aug '98

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AST	74.44
Simply	73.97
Evesham	73.35
Elonex	72.21
Packard Bell	68.58
Tiny	67.10
Colossus	64.47

WINNER: Overall satisfaction with service and reliability

Score	better >
Dan	4.94
Evesham	3.98
Simply	3.97
Dell	3.95
Gateway	3.95
Viglen	3.80
Fujitsu	3.76
HP	3.75
Elonex	3.73
IBM	3.71
Compaq	3.69
AST	3.68
Packard Bell	3.64
Colossus	3.44
Tiny	3.27

WINNER: Satisfaction with technical support

Score	better >
Dan	4.31
Evesham	3.71
Gateway	3.71
Fujitsu	3.72
Elonex	3.72
Simply	3.68
Viglen	3.57
Dell	3.54
IBM	3.54
HP	3.53
Compaq	3.52
Packard Bell	3.51
Colossus	3.48
AST	3.48
Tiny	3.45

WINNER: Satisfaction with reliability

Score	better >
Dan	4.53
Dell	4.43
AST	4.37
Simply	4.30
Gateway	4.28
Evesham	4.28
HP	4.27
IBM	4.21
Viglen	4.18
Fujitsu	4.17
Compaq	4.17
Elonex	4.07
Tiny	3.99
Packard Bell	3.95
Colossus	3.88

WINNER: Satisfaction with repairs

Score	better >
Dan	4.14
Simply	4.02
Evesham	3.99
Viglen	3.82
Gateway	3.79
Dell	3.78
Elonex	3.76
Fujitsu	3.68
AST	3.66
IBM	3.57
Packard Bell	3.54
HP	3.51
Compaq	3.49
Colossus	3.48
Tiny	3.47

WINNER: Likelihood of repurchasing from the same vendor

Score	better >
Dan	4.33
Dell	4.06
Gateway	3.99
Evesham	3.98
Simply	3.84
HP	3.74
Viglen	3.64
Fujitsu	3.62
Compaq	3.56
IBM	3.43
Elonex	3.42
Tiny	3.41
Colossus	3.38
Packard Bell	3.37
AST	3.35

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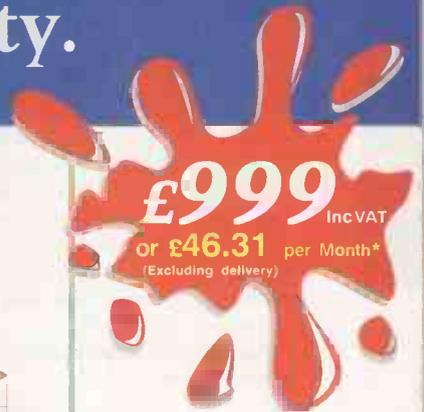
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Mesh Elite 450DS19

Mesh was one of the few companies which managed to fulfil our wish for a dual-processor-capable motherboard, giving ample opportunity for users seeking the ultimate power machine to improve upon the single 450MHz Pentium II at a later date. Three free memory slots supplemented the 128Mb RAM, making 512Mb RAM a possibility even if we chose not to remove what had already been installed.

Adaptec SCSI chips resided on the motherboard,



keeping one ISA and three PCI slots free. Two external drive bays, one 3.5in and another 5.25in, were also vacant, offering the opportunity for modest expansion in this area. An enormous IBM SCSI hard drive of 18Gb was partitioned into a 4Gb system drive and a 14Gb storage area. External connectivity, meanwhile, was catered for by an Intel Ether Express Pro 10/100 card but networking protocols had not been installed. A 4Gb HP SuperStore Travan drive would ensure we could back up our vital data. Sound arrived with the aid of a budget SoundBlaster (the Vibra 16) and a set of Yamaha YST-M20 speakers. The mouse and keyboard were both of high quality and comfortable to use throughout our tests.

The monitor achieved an almost flicker-free refresh rate of 70Hz at a stunning 1920x1200 resolution, which would certainly make this setting suitable for short-term use, if not for everyday applications. Driven by a Diamond Fire GL1000 Pro graphics card, it had 8Mb of memory to call on to

produce a well-regulated image with a uniform intensity across the whole of its surface. The only slight complaint we had was that magenta tones faded slightly faster than the other nine primary monitor test colours, but this is not something that would be discernible in everyday use.

PCW DETAILS

Price £2,970.40 (£2,528 ex VAT)

Contact Mesh 0181 452 1111

www.meshplc.co.uk

Good Points Dual-processor motherboard. Potential for 512Mb memory.

Bad Points Only modest drive-increase potential.

Conclusion A nice machine, but nothing special.

Build Quality	★★★★
Performance	★★★★
Value for Money	★★★
Overall Rating	★★★★

Viglen BizPro 450KS

The potential for expansion in this machine was adequate, with two free PCI and two free ISA slots complementing one internal and one external free 3.5in bay. Unfortunately, though, it would be very difficult to use any of the free PCI slots as components on the AGP graphics card, and a PCI SCSI interface card intruded into their spaces. The 64-bit 128Mb SDRAM had been supplied as a single module, leaving a further two slots vacant and enabling us to expand



our allocation to a maximum of 384Mb without replacing what was already installed.

The hard drive was a speedy Seagate Cheetah Ultra 2 SCSI device with a 9.1Gb capacity and an average seek time of just 5.2ms, while backup storage was catered for by a SCSI Travan tape drive, giving a maximum of 8Gb compressed storage.

This was a pleasant PC to use, with a comfortable, responsive keyboard and an attractive, contoured case that was surprisingly compact considering the expansion opportunities it offered.

Rather than being supplied onboard, as is sometimes the case, sound was provided by an Aureal Vortex Audio card and arrived through a Yamaha speaker set with a large sub-woofer and satellite tweeters.

The Viglen-branded

CTX 19in monitor with an 18in viewable diagonal was excellent, with an 85Hz refresh rate at

1280x1024 resolution. The extensive OSD allowed for fine-tuning and colour-temperature adjustments. Although colour registration was perfect and there was no streaking or ghosting, it did demonstrate slight moiré on all test patterns. Driven by an AGP Matrox Millenium G200 card with 8Mb of SGRAM, we could, if we chose, increase this to a maximum of 16Mb.

PCW DETAILS

Price £2,172 (£1,849 ex VAT)

Contact Viglen 0181 758 7000

www.viglen.co.uk

Good Points Expansion potential.

Bad Points Cluttering of expansion slots. Moiré on monitor test patterns.

Conclusion Good, all-round machine.

Build Quality	★★★★
Performance	★★★★
Value for Money	★★★★
Overall Rating	★★★★

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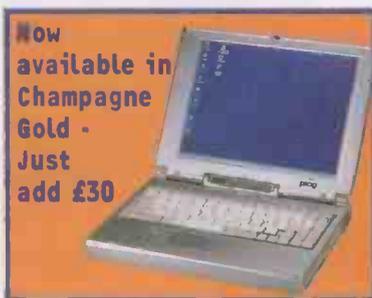




The versatile PICO Consul incorporates a fast 24 speed CD ROM and Duo View capability in an ergonomic, compact case. A superior quality and reliability guarantee along with a 1 year on-site maintenance which make this probably the best value, fully featured notebook nation-wide.

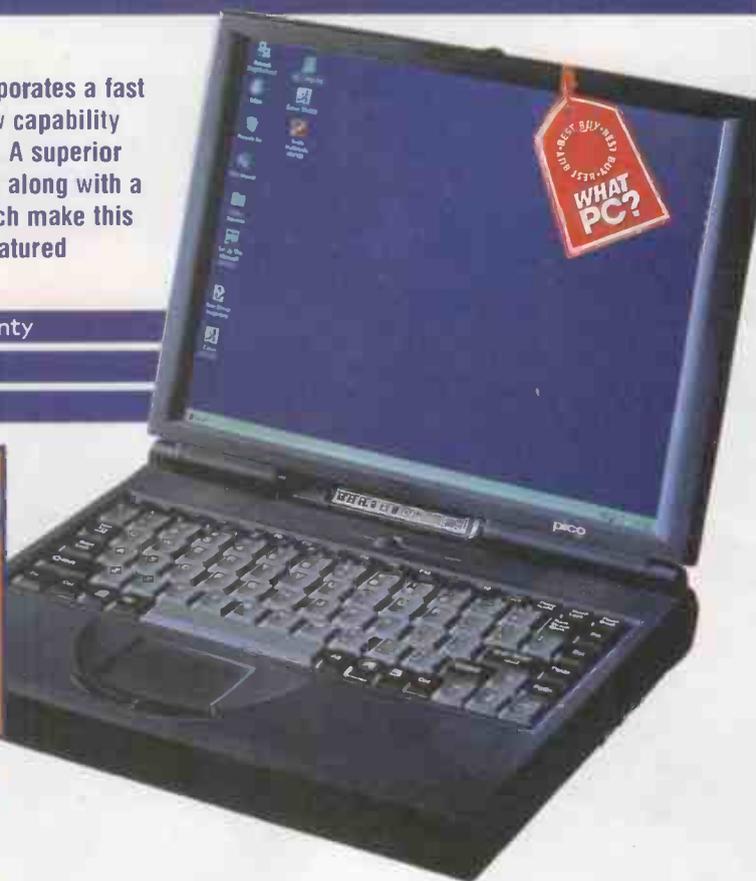
- Intel 233MMX OR AMD options
- 2.5" 3.2GB (Ultra DMA hard disk, upgradeable to 4.2GB or 6.0GB)
- 64MB RAM upgradeable to 128MB
- 12.1" DSTN or TFT (800x600) & 13.3" TFT (1024x768) screen options Internal resolution
- Carry case & world-wide mains battery charger
- 512K cache & 4MB RAM (3D acceleration) graphics support up to 1280x1024
- 1 x USB port and TV-out port
- 3 year support plan including 1st year On-Site

- 1 year on-site Diamond warranty
- Duo-View capability
- 3D stereo sound & USB

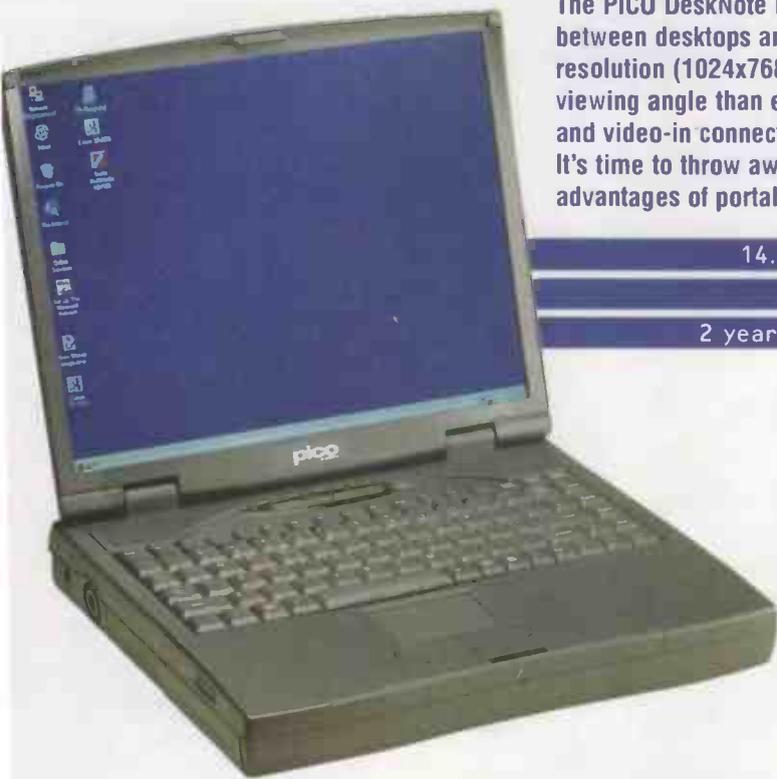


2 x Type II or 1 x Type III PCMCIA Slots • PCI Bus • Intel 430TX chipset • ACPI • External monitor port • keyboard (PS2) • Parallel (EPP/ECP) • Serial (16C550) • 24X CD ROM • Built-in trackpad • 310mm(w) x 240mm (d) x 45mm (h) • Weight: 3.3Kg (7.2lbs) • Built-in 3D sound • External microphone and speaker jacks

MODEL	PROCESSOR	12.1" DSTN	12.1" TFT	13.3" TFT
98-233	Intel P233 MMX	£799	£849	£949
98-266-K6	AMD K6 266	£789	£839	£939
98-300-K6	AMD K6 300	£809	£859	£959
98-266-K62	AMD K6-2 266	£829	£879	£979
98-300-K62	AMD K6-2 300	£849	£899	£999



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The PICO DeskNote is increasingly closing the gap between desktops and notebooks. A 14.1" high resolution (1024x768) screen offers a wider viewing angle than equivalent external monitors and video-in connector gives instant video capture. It's time to throw away your desktop and reap the advantages of portability with the PICO DeskNote.



- ← 14.1" high resolution screen
- ← Built-in Video capture
- ← 2 year on-site Diamond warranty

- Intel MM0 or Pentium II processor options
- 2.5" 4.2GB (Ultra DMA hard disk, upgradeable to 6.0GB)
- 64MB SD RAM upgradeable to 128MB
- 13.3" or 14.1" TFT (1024x768) screen options. Internal resolution
- Carry case & world-wide mains battery charger
- 512K cache & 4MB RAM (3D acceleration) graphics support up to 1280x1024
- 1 x USB port and TV-out port
- 3 year support plan including 1st & 2nd year on site

MODEL	PROCESSOR	13.3" TFT	14.1" TFT
979-233MM0	Intel P233 MM0	£1369	£1449
979-266MM0	Intel P266 MM0	£1419	£1499
979PII233	Intel PII 233	£1459	£1539
979PII266	Intel PII 266	£1559	£1639
979PII300	Intel PII 300	£1659	£1739

2 x Type II or 1 x Type III PCMCIA Slots • PCI Bus • Intel 430TX chipset • External monitor port • Keyboard (PS2) • Parallel (EPP/ECP) • Serial (16C550) • 24X CD ROM • Built-in trackpad • 316mm(w) x 259mm (d) x 55.5mm (h) • Weight: 3.4Kg (7.5lbs) • Built-in 3D Yamaha sound • External microphone and speaker jacks • Lithium Ion battery.



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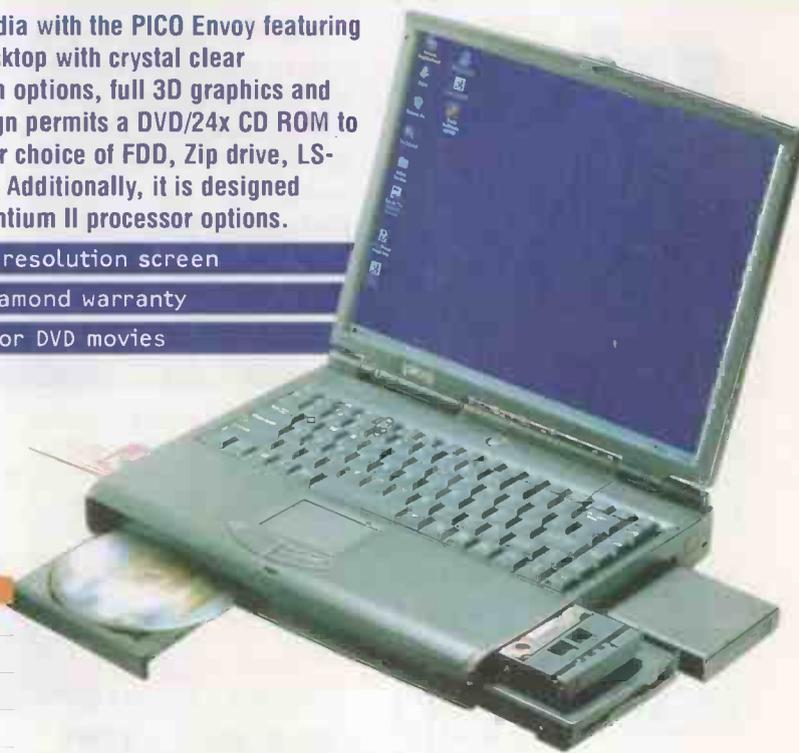
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- Intel MMX / MMO or Pentium II options
- 2.5" 3.2GB (Ultra DMA hard disk, upgradeable to 4.2GB or 6.0GB)
- 64MB SD RAM upgradeable to 128MB
- 12.1"/13.3" TFT or 14.1" TFT (1024x768) screen options internal resolution
- Carry case & world-wide mains battery charger

- 512K cache & 4MB RAM (3D acceleration) graphics support up to 1280x1024
- 1 x USB port and TV-out port
- Docking station option
- 3 year support plan including 1st year On-Site

Enter the world of multimedia with the PICO Envoy featuring all the capabilities of a desktop with crystal clear 13.3"/14.1" XGA TFT screen options, full 3D graphics and audio. The intelligent design permits a DVD/24x CD ROM to internally co-exist with your choice of FDD, Zip drive, LS-120 module or 2nd battery. Additionally, it is designed ready for MM0/MMX or Pentium II processor options.

- Up to 14.1" high resolution screen
- 1 year on-site Diamond warranty
- MPEG II module for DVD movies

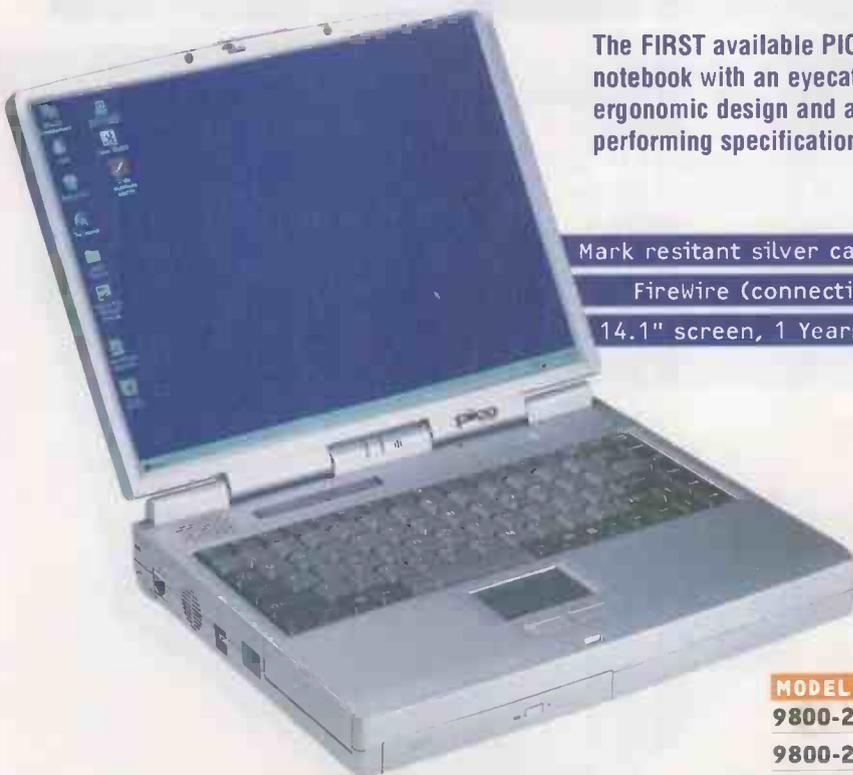


2 x Type II or 1 x Type III PCMCIA Slots • PCI Bus • Intel 430TX chipset • External monitor port • DVD or LS-120 drive options • ATAPI (Interface for DVD) • ACPI (Power management) • Keyboard (PS2) • Parallel (EPP/ECP) • Serial (16C550) • 24X CD ROM • Built-in trackpad • 310mm(w) x 240mm (d) x 45mm (h) • Weight: 3.3Kg (7.2lbs) • Built-in 3D sound • External microphone and speaker jacks • Lithium Ion battery

MODEL	PROCESSOR	12.1" TFT	13.3" XGA	14.1" XGA
66-233	Intel P233 MMX	£999	£1049	£1129
66-266	AMD K6 266	£999	£1049	£1129
66-300	AMD K6 300	£1049	£1099	£1179
66-200M	Intel P200 MMO	£1069	£1119	£1199
66-233M	Intel P233 MMO	£1099	£1149	£1229
66-266M	Intel P266 MMO	£1149	£1199	£1279
66-PII-233	Intel PII 233		£1239	£1319
66-PII-266	Intel PII 266		£1339	£1419
66-PII-300	Intel PII 300		£1439	£1519

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- ← 14.1" screen, 1 Years on-site Diamond warranty

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- 64MB SD RAM upgradeable to 128MB
- 13.3 or 14.1" TFT (1024x768) screen options internal resolution
- Carry case & world-wide mains battery charger
- 512K cache & 4MB RAM (3D Yamaha Sound)
- 2 x USB port and TV-out port
- IEEE 1394 FireWire Interface port (optional)
- Internal 100Mbps Ethernet card (optional)
- 3 year support plan including 1st year On-Site

MODEL	PROCESSOR	13.3" XGA	14.1" XGA
9800-233M	Intel P233 MMO	£1399	£1499
9800-266M	Intel P266 MMO	£1449	£1549
9800-PII-233	Intel PII 233	£1499	£1599
9800-PII-266	Intel PII 266	£1549	£1649
9800-PII-300	Intel PII 300	£1649	£1749

2 x Type II or 1 x Type III PCMCIA Slots • PCI Bus • Intel 430/440TX chipset • External monitor port • DVD or LS-120 drive options • ATAPI (Interface for DVD) • ACPI (Power management) • Keyboard (PS2) • Parallel (EPP/ECP) • Serial (16C550) • 24X CD ROM • Built-in trackpad • 309mm(w) x 257mm (d) x 54mm (h) • Weight: 3.8Kg (8.5lbs) • Built-in 3D sound • External microphone and speaker jacks • Lithium Ion battery

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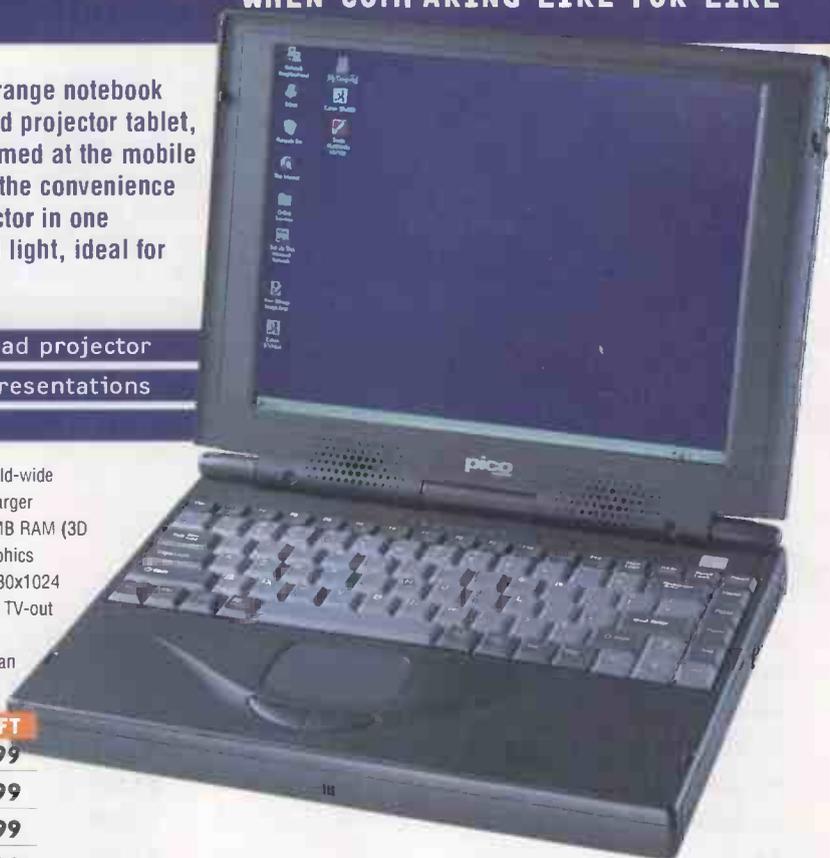
2 x Type II or 1 x Type III PCMCIA Slots • PCI Bus • External monitor port • Keyboard (PS2) • Parallel (EPP/ECP) • Serial (16C550) • 24X CD ROM • Built-in trackpad • 310mm(w) x 240mm (d) x 45mm (h) • Weight: 3.3Kg (7.2lbs) • Built-in 3D sound • External microphone and speaker jacks • Lithium Ion battery.

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- Ideal for portable presentations
- 3 year support plan

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- 64MB EDO RAM upgradeable to 128MB
- 12.1" TFT with built-in panel for OHP presentations
- Carry case & world-wide mains battery charger
- 512K cache & 4MB RAM (3D acceleration) graphics support up to 1280x1024
- 1 x USB port and TV-out port, fan & stand
- 3 year support plan

MODEL	PROCESSOR	12.1" TFT
PRO-233	Intel P233 MMX	£1199
PRO-266	AMD K6 266	£1099
PRO-300	AMD K6 300	£1199
PRO-266-K62	AMD K6-2 266	£1299
PRO-300-K62	AMD K6-2 300	£1399



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Upgrade 64MB to 128MB RAM		£75	Car Adapto.		£45
Upgrade 3.2GB to 4GB Hard Drive		£50	LS120 Drive for Envoy		£140
Upgrade 3.2Gb to 6GB Hard Drive		£225	ZIP Drive for Envoy		£150
Lithium Ion (Lion) battery		£95	Infra Red Remote Mouse		£69
			Portable 400W OHP & Case		£459
			Condu Port Replicator		£95
			Envoy Docking Station		£299.

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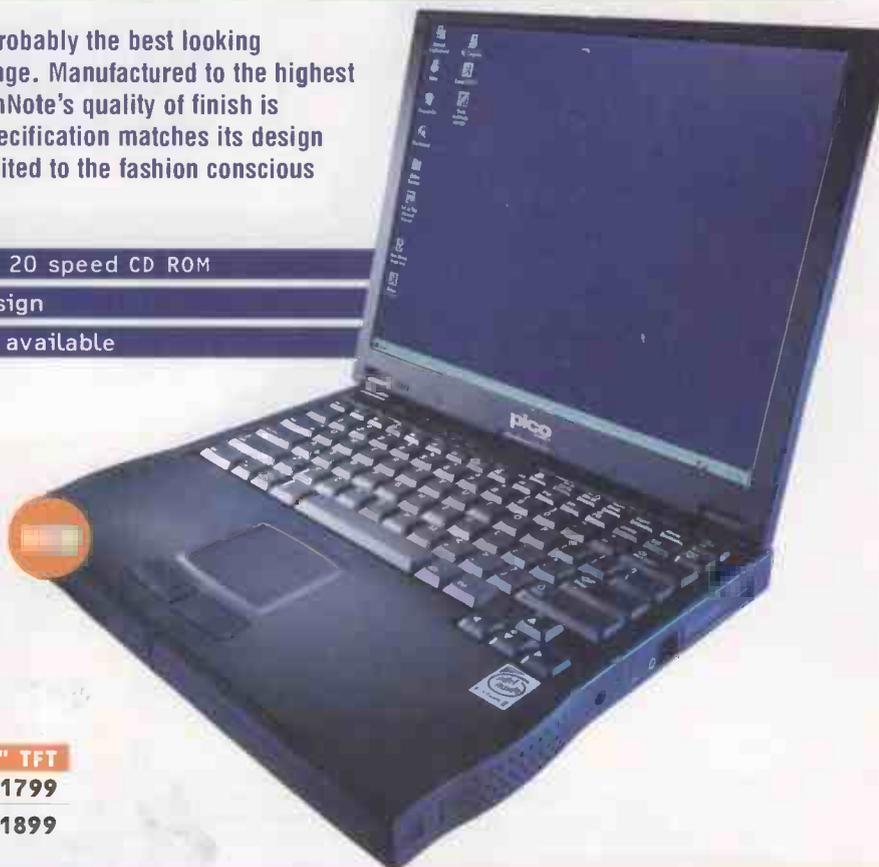
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- 512K cache & 2MB Neomagic (3D acceleration) graphics support up to 1280x1024
- 1 x USB port and TV-out port
- 3 year support plan

2 x Type II or 1 x Type III PCMCIA Slots • PCI Bus • External monitor port • Keyboard (PS2) • Parallel (EPP/ECP) • Serial (16C550) • 24X CD ROM • Built-in trackpad • 310mm(w) x 240mm (d) x 37mm (h) • Weight: 2.9Kg (7.2lbs) • Built-in 3D sound • External microphone and speaker jacks • Lithium Ion battery.

MODEL	PROCESSOR	13.3" TFT	14.1" TFT
SN-P11-233	Intel P11 233	£1699	£1799
SN-P11-266	Intel P11 266	£1799	£1899



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A preview of Intel Katmai

The replacement for the Pentium offers **vastly improved 3D performance**; but will it be enough?

Katmai, the replacement for the Pentium II, will surface in Q1 of 1999, running at a clock speed of 450MHz or 500MHz. Intel is targeting it at the enthusiast and high-end mainstream performance categories. The extra speed 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.

Katmai is more than a faster processor. It signals the convergence of new chipsets, DRAM technology, a graphics bus, MMX instruction set, graphics components and a faster system bus. It will be a P6 derivative, initially produced on a 0.25 micron process, and is expected to provide up to 512Kb of L2 cache. It is believed that 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. There will be 70 new single-instruction multiple-data (SIMD) floating-point instructions to accelerate 3D processing. Intel's current MMX instruction set is based on SIMD integer data types, and while this is useful for presenting certain

Intel is targeting Katmai at the enthusiast and the high end

audio, video and 2D images, it provides 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.

• Katmai and 3D
Although Katmai's main claim to fame is vastly improved 3D performance, some have claimed that it still won't be enough. The debate centres on the geometry front-end of Katmai's 3D pipeline where transforms and lighting are calculated. Normally, 3D geometry and lighting (a component of primitive triangle calculation) are the exclusive preserve of the CPU, but our group-test findings confirm what graphics chip vendors have been saying: that the CPU has topped-out its ability to churn out



more triangles at a rate that can keep up with the latest 3D processors.

By the time Katmai is released, new graphics accelerators which include geometry and lighting hardware are expected to be available from the likes of S3, 3DLabs, 3Dfx Interactive and perhaps Nvidia. The chip vendors argue that Katmai will be too expensive for the basic domestic PC and a separate geometry engine is a cheaper and faster solution. They allege that the best the first generation of Katmai will offer is a "maximised Voodoo2 class of subsystem" and won't offer significant 3D performance advantages — perhaps at best, a 60 percent improvement in the front-end of the geometry stage, according to 3DLabs. This is a marginal gain, considering that today's most

advanced 3D processor chips can handle about four times as many triangles as the processor can send. That they maintain this deficiency is down to the inherent weakness of a general-purpose CPU, even one with the vector-processing capabilities of Katmai, in processing more triangles. Geometry processing inevitably means many exceptions, and a hardware geometry engine, by contrast, is more adept at handling those exceptions because it has dedicated transistors assigned for the task. Intel counters this by maintaining

that a balanced system keeps the transform-and-lighting burden in the CPU and that the floating-point-intensive Katmai instruction set should erase any doubt that the CPU can handle those functions. It has downplayed the naysayers' approach as expensive and unnecessary for most systems.

The vast majority of 3D development is directed naturally

towards games software, and Intel is hoping to woo 3D-game developers to optimise their software for what it considers to be the premier PC

▲ BREATHE MORE LIFE INTO YOUR PC WITH KATMAI

platform for 1999. Such a system would include the 100MHz 440BX chipset, the i740 3D graphics processor and a Katmai processor running at 500MHz. Intel is devoting lots of resources to providing decent compilers and development tools, something it didn't quite deliver for MMX two years ago. Later this year, Microsoft will provide a version of Direct3D 6.0 with a .DLL file that will take advantage of SIMD floating-point instructions on the microprocessor, both Intel's Katmai and the separate instructions being developed by AMD, Cyrix and IDT.

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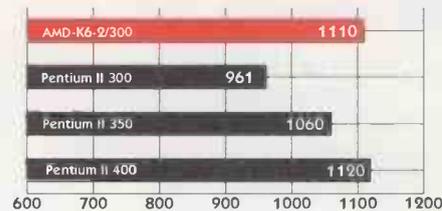
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3D Winbench '98/Windows'95 (DirectX6.0 optimized for 3DNow!™)



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boosts performance, whilst its ATI 5GT monitor produced the best results in our tests"

Personal Computer World
Highly Commended - October 1998



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Price (ex VAT)	£2,899	£2,499	£2,050	£2,542	£3,390
Price (inc VAT)	£3,406.33	£2,936.33	£2,328.75	£2,986.85	£3,983
Telephone	0181 810 7441	0990 134725	0845 270 4000	0181 830 1100	0870 9073335
Fax	0181 810 8846	01639 821300	0845 270 4700	0181 830 1122	01344 723715
Web address	www.armari.com	www.atlanticsystem.com/sys/	www.compaq.co.uk	www.dan.co.uk	www.euro.dell.com
HARDWARE SPECS					
Processor	Intel PII 450	Intel PII 450	Intel PII 450	Intel PII 450	Intel PII 450
RAM/Type/No of DIMMs	128Mb / SDRAM / 1	128Mb / SDRAM / 2	128Mb / SDRAM / 1	128Mb / SDRAM / 1	128Mb / SDRAM / 1
Hard disk	Seagate Cheetah	Seagate Cheetah	Maxtor	Seagate ST39102LW	Quantum 8.5Gb
Size/interface	9.1Gb, Ultra2 SCSI	9.1Gb / Ultra2 SCSI	10Gb / Ultra ATA	9.1Gb / LVD Ultra2 SCSI	8.5Gb Ultra2Wide LVD
Storage drive	Seagate Hornet 8 Travan	LS-120 Superdisk	N/A	Seagate Tapestore T8000	Seagate
Size of storage drive media	8Gb	120Mb	N/A	4Gb / 8Gb	3.5 X 1
Storage drive interface	IDE	IDE	N/A	SCSI	SCSI
MOTHERBOARD COMPONENTS					
Motherboard manufacturer	ASUS	Intel	Compaq	Supernano	Dell/Intel
Model/Chipset	P2B-DS / 440BX	SE440BX / 440BX	Intel 443BX	P6DGU / Intel 440GX	BX440
L2 Cache	512K	512Kb	512Kb	512K	512kb
No of free 3.5/5.25in bays	1 / 1	2 / 1	1 / 1	1 / 4	3 / 2
AGP slot	1	1	1	1	1
No of free PCI/ISA/shared slots	4 / 1 / 0	2 / 0 / 0	3 / 0 / 1	3 / 0 / 0	3 / 1 / 1
No of USB/Serial/Parallel/PS2	2 / 2 / 1 / 2	2 / 2 / 1 / 2	2 / 2 / 1 / 2	2 / 2 / 1 / 2	2 / 2 / 1 / 2
MULTIMEDIA					
CD-ROM	Plextor CD Writer	Traxdata CD and DVD-ROM	Compaq	Teac 32S	NEC
CD-ROM speed/interface	4/12 MAX / SCSI	2x/2x/6x / SCSI	32 x / IDE	32x / SCSI	16/32 SCSI
Sound card manufacturer	Creative Labs	Creative Labs	Compaq	Creative Labs	Crystal
Sound card model	AWE64 Value	AWE64	16-bit Premier Sound	AWE64 OEM	4237B SRS 3D
Speakers	Yamaha YST-MS25	Generic 300W speakers	Internal	Dan Hi Fi	Altec Lansing (optional)
Graphics card	Matrox Millennium G200	Matrox Millennium G200	Matrox Millennium G200	Matrox Millennium G200	Integrage Intense 3D Pro
RAM/Max RAM and type	16Mb / 16Mb SGRAM	8Mb / 16Mb SGRAM	8Mb / 16Mb SGRAM	8Mb / 16Mb SGRAM	16Mb / 16Mb SGRAM
Graphics card interface	AGP	AGP	AGP	AGP 6P	AGP
Monitor /size	Iiyama Vision Master 450/19in	MAG DJ-800 / 19in	Compaq P75 / 17in	CTX / VL950 / 19in	Dell (Trinitron) 17in
Max refresh rate at 1,024 x 768	120Hz	105Hz	85Hz	113Hz	85Hz
Max refresh rate at 1,200 x 1,024	94Hz	80Hz	85Hz	85Hz	85Hz
Max refresh rate at 1,200 x 1,600	80Hz	69Hz	75Hz	75Hz	60Hz
OTHER INFORMATION					
Modem	Diamond Supra Exprs PCI	Generic	N/A	Pace 56/V90 Internal Voice	Optional
Modem speed	56.6Kbps	56Kbps	N/A	56Kbps	Optional
Misc hardware	N/A	Headset and microphone	N/A	3Com 3C905 10/100 Ether	Adaptec U2W RAIDPORT
Bundled software	Windows NT4	Windows NT4	Windows NT4	Windows NT4	Windows NT & 95
		Lotus SmartSuite 97		Quicken 6.0 SE	
		Corel Draw Suite , AntiVirus,		Lotus SmartSuite 97	
		IBM Via Voice,			
		Pipex Dial			
Standard warranty	1yr OSM	1yr collect & rtn, parts & lab	3yr parts & replacement	1yr OSM	3 yrs (2-yr RTB)
		4yr RTB labour	(1st yr OSM)		1yr next business day
Warranty options	Up to 3yr OSM	5yr parts & lab, OSM	3yr OSM,	N/A	UK - 1yr, (4hr +£75)
			next business day OSM		to 3yr (4 hr +£210)
Tech support tel no	0181 810 6491	01639 823030	0845 2704000	0181 830 1100	01344 724730

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OVERALL WINNER PC MAGAZINE Service & reliability survey 1998: Servers

OVERALL WINNER PC M

PERFORMANCE DESKTOPS

DELL DIMENSION V350

- Intel® Pentium® II Processor 350MHz
 - Intel 440BX AGPset
 - 64MB SDRAM
 - 512KB Internal Cache
 - 10.2GB ATA-33 Hard Drive
 - Integrated Intel 10/100 Ethernet Controller
 - Integrated ATI Rage Pro Turbo 2X AGP 8MB Video
 - 17" Colour TCO95 SVGA Monitor (0.28 dot pitch, 15.9" Viewable Area)
 - 14/32 x CD-ROM Drive
 - 2 PCI, 1PCI/ISA, 1 ISA Expansion Slots
 - Mid-Sized Desktop Chassis
 - Microsoft® Office 97 Small Business Edition V2
- ★ Upgrade to a new Eicon Diva 64Kbs/128Kbs ISDN Adapter pre-installed, add £233.83 inc. VAT

£999 (£1,173.82 INC. VAT)



DFS 3 YEAR BUSINESS LEASE RENTAL: £35.62PM

DELL DIMENSION V333

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DFS 3 YEAR BUSINESS LEASE RENTAL: £28.49PM

DELL DIMENSION XPS R450

- Intel Pentium II Processor 450MHz
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- 64MB High Performance 100MHz SDRAM
- 512KB Internal Cache
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- ATI XPERT 98D 8MB 3D AGP Video Card
- 17" Colour TCO95 SVGA Monitor (0.28 dot pitch, 15.9" Viewable Area)
- 14/32 X CD-ROM Drive
- 3 PCI, 1 ISA, 1 PCI/ISA Shared and 1 AGP Expansion Slots
- Integrated Crystal Wavetable Sound (speakers optional)
- Mid-Sized Desktop Chassis
- Microsoft Works 4.5 and Money UK 98

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DFS 3 YEAR BUSINESS LEASE RENTAL: £42.75PM

DELL DIMENSION XPS R400

- Spec as above except: Intel Pentium II Processor 400MHz

£1,079 (£1,267.83 INC. VAT)



DFS 3 YEAR BUSINESS LEASE RENTAL: £38.47PM

DELL DIMENSION XPS R400

- Intel Pentium II Processor 400MHz
- Intel 440BX AGPset
- 128MB SDRAM
- 512KB Internal Cache
- 10.2GB ATA-33 Hard Drive
- ATI XPERT 98D 8MB 3D AGP Video Card
- High Performance 19" Colour TCO95 SVGA Monitor (0.26 dot pitch, 17.9" Viewable Area)
- 17/40 X CD-ROM Drive
- 3 PCI, 1 ISA, 1 PCI/ISA Shared and 1 AGP Expansion Slots
- Integrated Crystal Wavetable Sound (speakers optional)
- Mid-Sized Desktop Chassis
- Microsoft Office 97 Small Business Edition V2

£1,349 (£1,585.07 INC. VAT)



DFS 3 YEAR BUSINESS LEASE RENTAL: £48.10PM

DELL DIMENSION XPS R350

- Spec as above except: Intel Pentium II Processor 350MHz and 17" Colour TCO95 SVGA Monitor (0.28 dot pitch, 15.9" Viewable Area).

£1,099 (£1,291.33 INC. VAT)



DFS 3 YEAR BUSINESS LEASE RENTAL: £39.18PM



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DELL DIMENSION V350 MULTIMEDIA

- Intel Pentium II Processor 350MHz
 - Intel 440BX AGPset
 - 64MB SDRAM
 - 512KB Internal Cache
 - 6.4GB ATA-33 Hard Drive
 - Integrated ATI Rage Pro Turbo 2X AGP 8MB Video
 - 17" Colour TCO95 SVGA Monitor (0.28 dot pitch, 15.9" Viewable Area)
 - 17/40 x CD-ROM Drive
 - Integrated Yamaha XG 64 Voice Sound and Harman Kardon 195 Speakers
 - 2 PCI, 1 PCI/ISA Shared, 1 ISA Expansion Slots
 - Mini Tower Chassis
 - Microsoft Office 97 Small Business Edition V2
 - US Robotics 56 Kb/s V90 Ready modem¹ inc.
- FREE 1 month BT Internet Trial



£1,089 (£1,279.58 INC. VAT)



DFS 3 YEAR BUSINESS LEASE RENTAL: £38.83PM

DELL DIMENSION V333 MT

- Spec as above except: Intel Celeron Processor 333MHz, 128K Cache and Microsoft Home Essentials '98

£899 (£1,056.33 INC. VAT)



DFS 3 YEAR BUSINESS LEASE RENTAL: £32.05PM

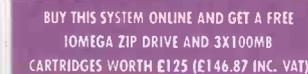
DELL DIMENSION XPS R350 MULTIMEDIA

- Intel Pentium II Processor 350MHz
 - Intel 440BX AGPset
 - 64MB SDRAM
 - 512KB Internal Cache
 - 10GB ATA-33 Hard Drive
 - ATI XPERT 98D 8MB 3D AGP Video Card
 - 17" Colour TCO95 SVGA Monitor (0.28 dot pitch, 15.9" Viewable Area)
 - 17/40 x CD-ROM Drive
 - 3 PCI, 1 ISA, 1 PCI/ISA Shared and 1 AGP Expansion Slots
 - Turtle Beach Montego A3D 64 Voice PCI Sound Card and Altec Lansing ACS 295 Speakers with Subwoofer
 - Mini Tower Chassis
 - Microsoft Office 97 Small Business Edition V2
 - US Robotics 56 Kb/s V90 Ready modem¹ inc.
- FREE 1 month BT Internet Trial



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DFS 3 YEAR BUSINESS LEASE RENTAL: £42.04PM



DELL DIMENSION XPS R450 MDT MULTIMEDIA

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 - Intel 440BX AGPset
 - 256MB RAM
 - 512KB Internal Cache
 - 16.0GB ATA-33 Hard Drive
 - NEW STB Velocity nVidia TNT 3D Graphics Card with 16MB Video Memory
 - NEW Hitachi 5X Performance DVD-ROM Drive with Decoder Card
 - High Performance 19" Colour TCO95 SVGA Monitor (0.26 dot pitch, 17.9" Viewable Area)
 - Iomega Zip Drive and 3 X 100MB Cartridges
 - 3 PCI, 1 ISA, 1 PCI/ISA Shared and 1 AGP Expansion Slots
 - Turtle Beach Montego A3D 64 Voice PCI Sound Card and Altec Lansing ACS 495 Dolby Prologic Surround Sound with Subwoofer
 - Mini Tower Chassis
 - Microsoft Office 97 Small Business Edition V2
 - US Robotics 128 Kb/s V90 Ready modem¹ inc.
- FREE 1 month BT Internet Trial



£1,929 (£2,266.58 INC. VAT)

DFS 3 YEAR BUSINESS LEASE RENTAL: £68.78PM

DELL DIMENSION XPS R450 MDT

- Spec as above except: 128MB RAM and US Robotics 56Kb/s V90 Ready Modem inc. FREE 1 month BT Internet Trial

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DFS 3 YEAR BUSINESS LEASE RENTAL: £64.14PM

SOFTWARE

MS OFFICE 97 SMALL BUSINESS EDITION (VERSION 2.0)

Standard on all Ready-to-Run and Multimedia systems (where specified). Ideal for either home or office use, including: ■ MS Word 97, MS Excel 97, MS Publisher 97, MS Small Business Financial Manager, MS Autoroute Express GB 6.0, MS Internet Explorer 3.0 and MS Outlook 97

All Dell branded products purchased on or after January 1st 1997 will accommodate the rollover to the year 2000. System hardware controlling time and date functionality will remain unaffected. However, customers must ensure that the software they are running is also year 2000 compliant. Applies to BT Internet Plan Unlimited which provides unlimited internet access with 5 free email addresses and 5MB of web space. Excludes telephone charges.

HOME ESSENTIALS™ 98**

Ideal for home use and includes an excellent selection of Microsoft titles ■ MS Word 97 ■ MS Works 4.5 ■ MS Encarta World Atlas 98 (UK); a multimedia view of the world ■ MS Money 98 (UK); balance accounts, household budget planning and more ■ MS Puzzle Collection 2.0

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AGAZINE Service & reliability survey 1998: Portables

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MOBILE COMPUTING

DELL INSPIRON™ 3200 D233 XT

- Mobile Intel® Pentium® II Processor 266MHz
- Intel 440BX Chipset
- 13.3" XGA (1024x768) TFT Screen
- 32MB SDRAM (Upgradeable to 144MB)
- 512KB High Performance Level II Cache
- 3GB ATA-33 EIDE Hard Drive (Upgradeable to 6.4GB)
- Modular 24 x CD-ROM and 3.5" Floppy Disk Drives (DVD Optional)
- Integrated 16-Bit Sound Blaster Pro-Compatible with internal microphone and Speakers
- 128 bit High Performance Neomagic video with 2MB VRAM
- 2 Cardbus PCMCIA type II slots
- Lithium Ion Battery
- Touchpad with 2 buttons
- Zoomed Video Support
- Infrared communication port (IrDA 1.1 compatible)
- USB Port
- Microsoft Home Essentials 98
- Microsoft Windows 98

★ Upgrade to a Modular omega Zip Drive, add £125 + VAT

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NEW DELL INSPIRON 7000 300 GT

- Mobile Intel Pentium II Processor 300MHz
- Intel 440BX Mobile AGPset
- 14.1" XGA (1024x768) TFT Colour Display
- 64MB SDRAM (Upgradeable to 196MB)
- 512KB High Performance Level II Cache
- 4GB ATA-33 EIDE Hard Drive (Upgradeable to 8GB)
- Integrated 24 X CD-ROM Drive and 3.5" Floppy Disk Drives (DVD Optional)
- Integrated 16-Bit Sound Blaster Pro-Compatible with internal microphone and speakers
- ATI 4MB VRAM Rage LT PRO High Performance AGP Video (Upgradeable to 8MB)
- 2 Cardbus PCMCIA Type II Slots
- Infrared communication port (IrDA 1.1 compatible)
- TV Out (PAL and NTSC)
- Zoomed Video Support
- Integrated Synaptics Touchpad with 2 buttons
- USB Port
- 12 Cell {60 W/hr Lithium Ion Battery}
- Microsoft Office 97 Small Business Edition V2
- Microsoft Windows 98

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WORKSTATIONS

DELL WORKSTATION PRECISION 410

- Dual Intel Pentium II Processor 450MHz
- 128MB ECC EDO RAM (upgradeable to 1GB)
- 4GB LVD SCSI Hard Drive (upgradeable to 36GB)
- Diamond Permedia 2 8MB AGP Video Card
- 14/32 X SCSI CD-ROM Drive
- 3.5" Floppy Drive
- Sound Blaster 16-bit compatible Audio Controller
- Integrated 3COM fast Etherlink™ XL NIC
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- High Performance TCO 17" Colour SVGA Monitor (0.26 dot pitch, Trinitron® CRT, 15.65" Viewable Area)
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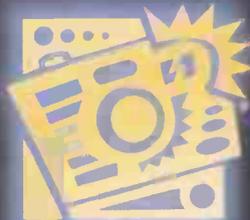
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MANUFACTURER	EVESHAM	HEWLETT-PACKARD	HI-GRADE COMPUTERS	MESH	VIGLEN
MODEL NAME	VALE PLATINUM SE	KAYAK XA-S	AXION PV2 450	ELITE 450DS19	VIGLEN BizPro 450KS
Price (ex VAT)	£2,599	£2,300 (sys) + £1,255 (mon)	£2,195	£2,528	£1,849
Price (inc VAT)	£3,053.83	£4,177.13	£2,579.13	£2,970.40	£2,172
Telephone	01386 769600	0990 474747	0181 532 6100	0181 208 4706	0181 758 7000
Fax	01386 769795	0141 420 2595	0181 532 6101	0181 208 4493	0181 758 7080
Web address	www.evesham.com	www.hp.com/go/kayak	www.higrade.com	www.meshplc.co.uk	www.viglen.co.uk
HARDWARE SPECS					
Processor	Intel PII 450	Intel PII 450	Pentium II 450	Intel PII 450	Intel Pentium II 450
RAM/type/no. of DIMMs	128Mb / SDRAM / 1	64Mb / SDRAM / 2	128Mb / SDRAM / 1	128Mb / SDRAM / 1	128Mb / SDRAM / 1
Hard disk	Cheetah Ultra2	Seagate Medalist 6530	IBM	IBM Ultra Wide SCSI	Seagate 9Gb SCSI
Size / interface	9Gb / SCSI LVD	6.4Gb	9GB Ultra 2 SCSI	18.8Gb / UltraWide SCSI	9Gb / SCSI
Storage drive	Jazz / Iomega	N/A	HP 4000i	HP Travan	HP Travan T4000
Size of storage drive media	2Gb	N/A	4 Gb	4Gb	8Gb
Storage drive interface	SCSI	N/A	SCSI	SCSI	SCSI
MOTHERBOARD COMPONENTS					
Motherboard manufacturer	Chaintech	Hewlett-Packard	ASUS	ASUS	Viglen OEM
Model/chipset	6BTML / Intel 82440BX	HP XA-S / Intel 440BX	P2B-DS / Intel BX	P2B-DS / Intel 440BX	Vig 69 / (Intel AL440BX)
L2 Cache	512Kb	512Kb	On Processor 512K	512Kb	CPU 512K
No of free 3.5/5.25in bays	4 / 2	1 / 2	0 / 1	1 / 1	2 (1 internal) / 1
AGP slot	1	1	1	1	1
No. of free PCI/ISA/shared slots	4 / 1 / 1	2 / 1 / 0	2 / 2 / 1	3 / 1 / 0	3 / 1 / 1
No. of USB/Serial/Parallel/PS2	2 / 2 / 1 / 2	2 / 2 / 1 / 2	2 / 2 / 1 / 2	2 / 2 / 1 / 2	2 / 2 / 1 / 2
MULTIMEDIA					
CD-ROM	Panasonic SR8582-B	Hitachi CDR	Teac	Teac	Panasonic CR586
CD-ROM speed/interface	20xCD, 2xDVD / ATAPI	32x / IDE	32x / SCSI	32x / SCSI	32X ATAPI EIDE
Sound card manufacturer	Creative Labs	HP (Integrated)	Genius	Creative Labs	Mutiwve 3D PCI wave table
Sound card model	AWE64 Value	SB Pro compatible	Genius 3D 64 PCI	Sound Blaster Vibra 16	3D PCI wave table Aureal
Speakers	Yamaha YSTMS25	N/A	N/A	Yamaha YST-M20 DSP	Yamaha M25 + subwoofer
Graphics card	Matrox Millennium G200	Matrox Productiva G200	Matrox Millennium G200	Diamond Fire GL 1000	Matrox Millennium G200
RAM/Max RAM and type	8Mb / 16Mb SGRAM	8Mb / 16Mb SGRAM	8Mb / 8Mb SGRAM	8Mb / 8Mb SGRAM	8Mb / 16Mb SGRAM
Graphics card interface	AGP	AGP	AGP	AGP	AGP
Monitor / size	Taxan / TCO975 / 19in	HP / P1100 / 21in	Iiyama VisionMaster 450/19in	ADI / 6P / 19in	Viglen OEM Emvy 19D
Max refresh rate at 1,024 x 768	117Hz	129Hz	120Hz	120Hz	100Hz
Max refresh rate at 1,200 x 1,024	88Hz	98Hz	94 Hz	85Hz	85Hz
Max refresh rate at 1,200 x 1,600	75Hz	85Hz	80 Hz	75Hz	75Hz
OTHER INFORMATION					
Modem	Vale 56K internal	N/A	N/A	N/A	Viglen OEM 56K ISA
Modem speed	56Kbps	N/A	N/A	N/A	56Kbps
Misc hardware	Ultra2 SCSI contrlr onboard	Network adapter card	3COM 3C905 TP NIC	Intel Eth Express Pro 10/100	
Bundled software	N/A	Windows NT4, HP TopTools, HP Maxlife, Adobe Acrobat McAfee VirusScan	Lotus SmartSuite 97 IBM World Book, VoiceType	Windows NT4 Lotus SmartSuite 97	Microsoft Intellimouse Windows NT 4.0
Standard Warranty	2yr OSM + lifetime tech support	1yr OSM, 2yr parts	1yr on site (next day)	3yr RTB parts/labour	12 mths collect and return
Warranty Options	Optional 3rd yr OSM	Extended warranty	N/A	1yr OSM £49 + other options	Upgradable to 4 hr OSM
Tech support tel no	Available when purchased	0990 474747	0181 532 6199	0181 208 4795	0181 758 7053

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- 12.1" SVGA (800 x 600) DSTN or TFT colour display
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- Intel Mobile Triton 82430MX chipset • PCI Bus
- 256Kb Level 2 cache
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- Neomagic 2093ZV 128bit graphics accelerator
- Combo 12X CD-ROM and 1.44 floppy drive
- 810Mb E-IDE hard disk
- 16 ESS 1878 wavetable stereo sound, stereo speakers & MIDI
- Lithium ion 45Wh battery
- 85 key keyboard with MS Windows 95 keys
- 2 PCMCIA type II or type III slots
- Zoomed video port • Cardbus ready
- Synaptic Integrated touchpad
- Parallel (EPP/ECP), Serial (16650) & Infra red (IRDA I), VGA, Docking connector & PS2 Port
- Built in Microphone • 2.9Kg • Dims: 299 x 226 x 51mm
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From **£799+VAT**
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- 12.1 SVGA (800x600) or 13.3 XGA (1024x768) TFT display
- Intel 200 / 233MHz / 266MHz / PII 233 / PII266 Low voltage Mobile Processor with MMX Technology
- Intel Mobile Module (MMO)
- Intel Mobile Triton 82430TX Chipset
- 48Mb SDRAM Standard, Exp to 144Mb
- 512Kb Level 2 Cache • PCI Bus
- Neomagic 2160 3D 128bit Super Fast Graphics Accelerator
- 24X CD-ROM and 1.44 Floppy Drive
- Toshiba 3.3 Gb UDMA HDD
- PC97 Ready • Lithium Ion 45Wh battery
- Intel PIIX4 EIDE Ultra DMA Controller (33Mb per sec)
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- 86/87 Key Keyboard with MS Windows 95 keys
- 2 PCMCIA type II or type III slots • Zoomed Video Port
- Cardbus Ready • Integrated Synaptic touchpad
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- MS Windows 95 / or 98 / or NT

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Powernote T11

- 13.3 or 14.1 XGA (1024 x 768) TFT colour display
- Intel Mobile Pentium II 233/266/300 MHz processor with MMX technology
- Intel Mobile Triton 82443BX Chipset
- 64Mb SDRAM
- 512Kb Level 2 Cache
- Neomagic 2200 3D 128bit Super Fast Graphics Accelerator
- 24X CD-ROM (Hot-swappable)
- Toshiba 4.1Gb UDMA HDD
- PC97 Compliant • Lithium ION Battery
- 16bit Crystal Wavetable Audio Chip with SRS 3D Stereo Sound & Speaker
- 86/87 Key Keyboard with MS Windows 95 keys
- 2 PCMCIA type II or type III slots
- Zoomed Video Port • Cardbus Ready
- Integrated Synaptic touchpad
- Parallel, Serial, IR, VGA, PS2 Port, Docking Port, USB Microphone
- 2.6Kg • Dims: 316 x 250 x 34mm
- Microsoft SBE latest version 2.1 & Windows 98

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PC Direct "The Dell Vigen & Powercom models all posted high results, however, the Powercom's extra 16Mb of memory helped it come top in the Business Winstone 97 test...the Powercom also undercuts the other two by a substantial margin and when you consider that it comes with a spare battery, a massive hard disk and MS Office 97 Small Business Edition, it looks like an attractive package." *PC Direct January 1998*

"Power by name and powerful by nature, it offers great performance at a price just a whisker away from being the lowest in this group test. Although the Powercom and the Toshiba are very different we recommend them both." *"This is the first 266MHz notebook to be available in the UK just beating Dell & Gateways offerings. The processor is the latest in Intel's almanac range of low power consumption chips, designed specifically for notebook PCs."* ***** What PC? Review March 98*

"Excellent value for money... it deserves a Performance award as the fastest 133MHz notebook we've yet tested..." *PC Plus Review - September 97*

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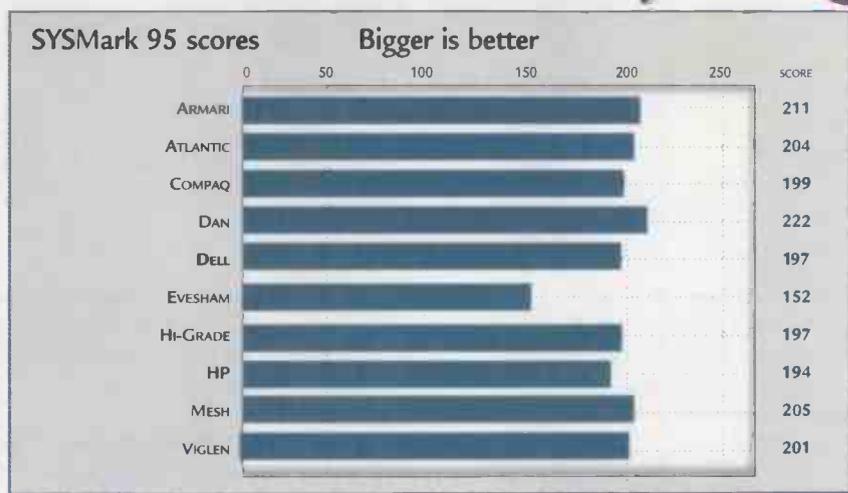
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Why Windows NT and not 95?

What makes Windows NT different to Windows 95 and 98? Although they look similar, there are actually a number of differences. To begin with, unlike 95, NT controls hardware directly without using the system's BIOS. This is a secure technique but it makes NT particular about hardware. Microsoft even provides a list of compatible hardware at www.microsoft.com. You must be sure your hardware is properly configured and has no internal address conflicts: unlike 95, NT does not support plug-and-play (although NT5 will), so it cannot automatically detect or change settings. As a result, if something is not set up properly, the system could

lock up. NT suffers from poor, or even non-existent, device drivers. The specialised Backup facility lets you save information to your local tape drive and the Performance Monitor enables you to monitor the performance of all computers on your network. Disk Administrator lets you view and configure the partitions on your hard drive, dispensing with the need for third-party applications when running Windows 95. With User Manager, you can manage security for a network of NT computers, creating accounts and user rights. Event Viewer keeps track of significant occurrences in a program, or in the system, of which you need to be aware.

PCW Labs Report



How we did the tests



The SYSMark tests we run on every PC in the group test is provided by BAPCo (Business Applications Performance Corporation). The tests measure the speed of the PC running a series of eight common office applications. We measure the time taken by the PC to perform a variety of tasks in each application and each test is performed three times to ensure the results are consistent. The performance depends on a number of factors: processor speed, RAM, graphics card and disk I/O. As the tests are based on business software packages, the results reflect how the PC will perform in a real-world situation. The better the score, the longer the bar on the graph. More information about the BAPCo suite of tests can be found at www.bapco.com.

Although Windows 95 and NT are compatible and will run many of the same applications, there are a fundamental differences between the two. The most basic is the way in which it writes files to disk. Whereas Windows 95 uses the outdated FAT (File Allocation Table) convention, NT4

instead employs NT File System, allowing longer filenames based on Unicode characters. Active Directory will form the backbone of NT5 upon release, including support for the Domain Name System (DNS) and standard protocols like HTTP to make networks, the internet and the file system integrate closer than before. It will also support an extended set of graphics handling commands, allowing the use of many games currently only available to Windows 95 / 98 users. Because of these differences, our tests for Windows 9x and Windows NT are written specifically to suit each OS. **NTFS is a very secure file system** which, because of the space it uses, is not recommended for disks under 400Mb. It works well on large drives, though, because of the efficient way in which it handles files. There may be a performance issue involved in the choice of FAT or NTFS under NT 4.0, with some PC manufacturers claiming that the former gives better performance, albeit at the cost of reduced security. Monitors are scrutinised using Display Mate for Windows and tested at a number of resolutions and colour depths.

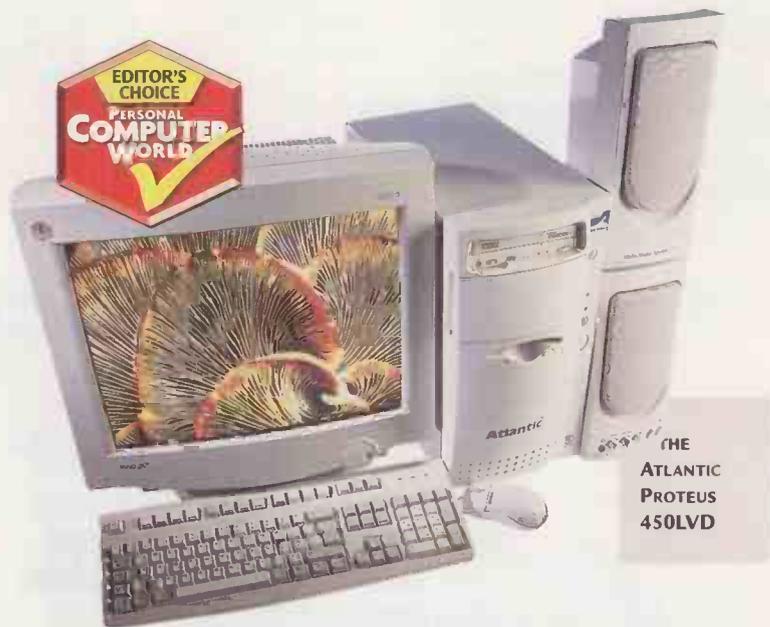
Editor's Choice

We get down to the business of choosing **the best** of a very fine bunch.

A wide variety of prices, specifications and approaches were employed by our suppliers in building these machines. While many opted for SCSI drive connections, others followed the less impressive IDE route. Some took our spec to be purely business-orientated and so did not include speakers or, in many cases, even bundled software. Some, like Evesham and Dan, had used large cases to allow for the maximum upgradability, but the likes of Dell and HP had instead opted for much smaller models, suitable for smaller offices or home environments. In a business situation, most IS departments would be likely to favour the latter approach as there is little need for more peripherals and drives in a purely business machine.

Although the top five performers in our BAPCo tests were all SCSI-based machines, the margin between the fastest of these and the first-placed IDE PC was a mere 23 points. SCSI does not always pay off, we found, with Evesham's SCSI machine coming at the bottom of the list, making us wonder whether this "super-fast" technology is actually worth the little extra you often have to pay. It has long been an established fact that a powerful graphics card plays a large part in enhancing the performance of a PC, and four of the five fastest machines reviewed here incorporated the brand new Matrox Millennium G200, which wins a Highly Commended award in this month's graphics card group test [p190]. It is important, therefore, to consider the components of the PC as a whole rather than as individual parts, because a single slow component can slow down the performance of an otherwise impressive machine.

The one manufacturer which impressed us the most overall, and is thus our Editor's Choice, is **Atlantic**. Its **Proteus 450LVD** is a well-specified machine with every PC gadget you could hope for, including a large, fast hard drive, a CD-RW drive and, looking to the future, DVD-ROM. Rather than a standard floppy drive Atlantic had opted to replace it with an LS-120 offering 120Mb of instantly accessible backup storage which can be used as a conventional drive. The AWE 64 sound card and 300W speakers provided for excellent sound reproduction,



THE
ATLANTIC
PROTEUS
450LVD

while the 19in MAG monitor attained an impressive refresh rate at very high resolutions. Even the generous software bundle did not raise the price of this breathtaking system above the £2,500 mark (before tax).

The **Armari MBX-450 Workstation** is Highly Commended. This sturdy machine performed well in our tests and, complemented by the excellent Iiyama Vision Master 450, it

The Atlantic Proteus 450LVD is a well-specified machine with every PC gadget you could hope for

was easy on the eye. The dual-processor-capable motherboard (although, at our request, not implemented in this model) offers an impressive upgrade path for power users.

Dell's **Dantum II/WSU** is also Highly Commended. Although not particularly fast, its innovative design enables easy access to the interior, allowing you to upgrade the standard configuration and take advantage of the five free PCI slots, facilitated by the inclusion of onboard SCSI.



▲ THE ARMARI
MBX-450
WORKSTATION



▲ THE DELL
DANTUM
II/WSU



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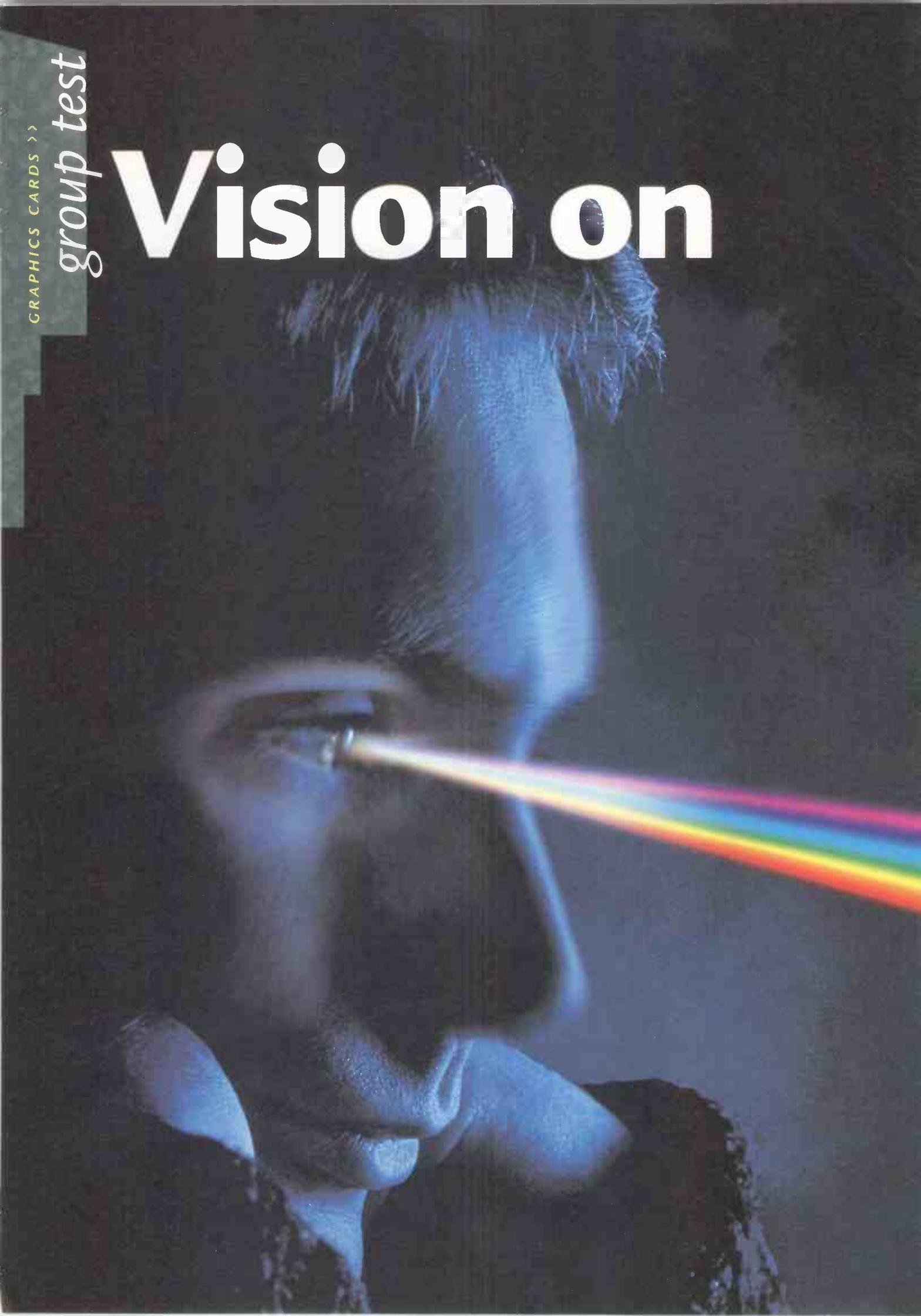
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GRAPHICS CARDS >>

group test

Vision on



If you want to stay ahead of the game, then you need to be well-equipped with a top-notch graphics card. Ajith Ram and David Fearon see how they run.

In a fast-moving industry, graphics technology is one of the fastest-moving elements. As far as Windows desktop performance goes, things have gone pretty much as far as they can: no-one can tell the difference between any modern card when using office applications. The realm of innovation is 3D graphics, which primarily means games.

There are three basic kinds of graphics card these days. The most basic, and cheapest, is the 2D-only adaptor, which is fine if you only use your PC for work and the odd game of Solitaire. The most cost-effective solution for the gamer are 2D/3D combo cards, which combine standard 2D functions plus 3D acceleration capabilities on one card. Almost all new cards have some kind of dedicated 3D acceleration, but their performance varies a lot. For the serious gamer, or those who already have a 2D card and want to upgrade to 3D, there's also the option of dedicated 3D add-on cards, which work alongside your existing adaptor. At the moment, these are mostly based on the 3Dfx Voodoo2 chipset.

If you have a PC bought within the last six to eight months, you probably have an AGP slot on your motherboard. AGP stands for Accelerated

Graphics Port. It's a dedicated slot for graphics cards and gives slightly higher performance for some games. AGP is covered in more depth on page 196.

We've tested fifteen of the latest cards, as well as reviewing some of the latest 3D technologies and standards. A development which is just over the horizon is the digital interface standard for connecting LCD panels to a graphics card digitally to get the best picture quality. None were available at the time of writing, but expect announcements from both graphics-card and LCD-panel manufacturers soon.

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Ratings

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

3D engines & geometry acceleration

One of the last areas where today's hardware struggles, is when keeping up with the demands of 3D-intensive software like games. While most business applications can run quite happily on a 486, even today's fastest desktop processors struggle to keep up with the complex calculations involved in depicting 3D images. The reasons for this are many. Unlike static 2D images like text in a word processor, moving 3D images require the CPU to perform a series of complex calculations. Moving 3D images are rendered in a series of stages which are often described using terms like bi-linear filtering, tri-linear filtering, bump mapping and mip mapping. Let's take a look at some of these techniques.

● Geometry setup

Geometry setup is the first and most important step in creating a 3D image. During this stage, the 3D objects are placed in 3D space. 3D space, unlike 2D, is a three-axis (X, Y, Z) area. Within this space, geometry setup performs three functions — scaling, translation and rotation.

➤ **Scaling** makes objects bigger or smaller according to how far back they are in the field of view.

➤ **Translation** involves moving the object to its correct location.

➤ **Rotation** turns the object so that it attains its correct position.

In a game with twenty different objects on-screen at any given time, the CPU has to complete each of the above procedures for each object. And if this weren't complex enough, computer screens refresh at more than seventy times a second. Therefore, any changes in the position of these objects must also be calculated and displayed for every refresh of the screen.

● Triangle Setup

Triangle Setup converts the data created by the geometry setup into a form that can be input into a 3D accelerator. Some graphics cards, such as the Voodoo2, Millennium G200 and Power VRSG, have their own triangle setup engines which

take some of the strain away from the CPU. However, even these triangle setup units are able to process only a small section of the data: the rest must be handled by the CPU.

● Texture Mapping

This is a technique for adding extra detail to the 3D object. It is best described as wrapping a 2D coloured paper over a 3D object. For instance, if you had a 3D image of a car on-screen, a texture would be wrapped over it to depict coloured metallic paint. This process is painstaking, as it has to be repeated for every pixel on the object and each pixel of the texture, known as a texel, which lies on top. Many textures can be wrapped over the same object, and this is multitexturing. Some games, like Quake2, take advantage of multitexturing. The best results are obtained when the game is accelerated using hardware like the Voodoo2. A 2D/3D card like the Millennium G200 offers multitexturing.

● Mip Mapping

A mip-map is a cut-down version of a texture, and map-mapping is a trick used to create more texels without performing the equivalent number of calculations. If a mip-map is one fourth the size of the original texture, reading a single texel from this mip-map is the same as reading four texels from the original texture. If applied using proper filters, the image quality is actually higher, as it smoothes out jagged edges.

● Bi-linear Filtering

This technique reads four texels, calculates their average — that is, the average of their relative positions — colour and so on, and displays the result as a single-screen texel. This results in blurring at close quarters, which in turn reduces an otherwise blocky, pixellated appearance. Bi-linear filtering is now standard on most PC graphics cards.

▶ WITH BI-LINEAR FILTERING TURNED OFF



▶ WITH BI-LINEAR FILTERING TURNED ON



● Z-buffering

Z-buffering is a method of calculating pixels which have to be loaded into the frame buffer, the memory that stores soon-to-be-displayed data. 3D accelerator chips take one pixel, render it, and proceed to the next one. The problem with this method is that the accelerator has no way of knowing whether the calculated pixel is to be displayed immediately or later.

Z-buffering includes a "Z" value in every calculated pixel. If the Z value for a particular pixel is smaller than another one, it means the pixel with the smaller Z value must be displayed first.

● Anti-aliasing

Anti-aliasing is a technique to reduce the "noise" present in an image. To represent any image, a certain amount of information is needed. If the object is in motion, ideally, that information should include its every possible position, colour, size changes etc. But if this information is not available, the CPU often fills in the missing segments with meaningless noise. Anti-aliasing, along with mip mapping, removes this noise.

● **Gouraud shading**

A technique to make objects appear more solid by applying shadows to the surface of the object. The algorithm determines the colours of adjacent polygons and makes a smooth transition between them. This ensures that there is no sudden change in colour over the object.

▶ WITH THE Z-BUFFER TURNED OFF



● **Bump mapping**

This method gives a "bumpy" look to surfaces. For instance, a bump-mapped mountain can have realistic-looking furrows and protrusions on its surface. However, the industry is yet to arrive at a standard set of procedures to render this visually impressive feature.

It is obvious that these techniques involve complex calculations which stretch a CPU's capabilities. Even with dedicated 3D accelerators performing many of the above functions, the CPU is still the biggest bottleneck to better graphics. The main reason for this is that the CPU handles most of the geometry calculations — that is, the position of every filtered, mip-mapped, bump-mapped and anti-aliased pixel that appears on-screen. With current 3D accelerators spewing out over a 100 million pixels per second, this is beyond the abilities of even the fastest CPUs. The 3D accelerator literally has to wait for the

CPU to finish its calculations. There are two very different means of getting over this problem, advocated by two distinct parties. The most affected parties, the 3D-hardware manufacturers, want to use dedicated geometry processor, such as the Pinolite from Fujitsu incorporated in the Hercules Conspiracy graphics card. Such

▶ WITH THE Z-BUFFER TURNED ON



◀ WITH FLAT SHADING



◀ WITH GOURAUD SHADING

processors take over the 3D calculations from the CPU. On the other side of the debate, this is the least acceptable solution for CPU manufacturers, particularly Intel, because once geometry processors become standard on graphics boards, it only takes a mediocre processor to perform other functions such as running the operating system and monitoring devices. This eliminates the need for gamers and CAD/CAM professionals to constantly upgrade to faster CPUs.

Recognising a threat to a major source of revenue, Intel has proposed its upcoming Katmai processor as a solution. Like AMD's 3D Now!, the Katmai has 70 new MMX-style instructions (KNI) that speed

up 3D calculations. Intel claims that KNI will provide a performance increase of between 40 and 100 percent. But the problem is that even if the performance boost is a full 100 percent as Intel claims, it still may not be sufficient to cope with the brute power of the new 3D accelerators.

Some experts estimate that today's accelerators, like the new Millennium G200 and the Voodoo2, require CPUs twice as fast as those available. Therefore, when Katmai débuts next year with speeds around 450MHz, even its better 3D performance won't be sufficient to deal with the next generation of 3D accelerators. Furthermore, most users, even gamers, do not upgrade regularly and have CPUs which are relatively slow. Therefore, the best solution appears to be dedicated geometry processors. With major firms like S3 reportedly working on incorporating geometry processing into their graphics boards, this is almost certainly the way the industry will move. And that is bad news for Intel.

Graphics standards

The hard facts about **the software involved** with graphics cards and 3D graphics.



UNREAL, WHICH USES THE GLIDE API

It's all very well being surrounded by the latest and most advanced 3D hardware, but of course hardware by itself isn't much use to anyone. What makes a product really useful is the software. There are two distinct layers to the software involved with graphics cards and 3D graphics — the APIs, and the applications. There's a lot of talk among the 3D-graphics fraternity about the merits and demerits of the various 3D APIs. An API (Application Programming Interface) is a piece of software that lets programmers communicate with a device — in this case, a graphics card — using a standard set of commands,

Glide. There are other standards, but they are less prevalent. For professional uses of 3D graphics, notably 3D design and animation of the type used in film and television, OpenGL is the most-used API. It stands, predictably enough, for Open Graphics Language. Windows 95 OSR2 and Windows 98 both understand OpenGL commands, so applications that use it will work even if you don't have any specific 3D hardware. Being an open standard, it is

used on many platforms, from PCs running Windows to high-end Silicon Graphics and Sun workstations running Linux, Solaris, or one of the many other types of Unix. Its open nature is its main strength, and developers prefer it because it's well understood and relatively easy to develop applications that use it.

Unless you're into 3D design, the only time you're likely to use OpenGL is when playing Quake II (*see below*). But if you're thinking of getting into applications like TrueSpace, Infini-D or LightWave, make sure that the graphics card you go for has a set of OpenGL drivers, since you can then use the hardware acceleration features for real-time shaded and textured previews, making working in three dimensions much easier.

At the slightly less esoteric end of the scale is good-old Direct3D. This is part of a set of APIs known as DirectX. DirectX is written by Microsoft, and is therefore only available on PCs running Windows 95, 98 or NT. It's primarily a games API, and comprises Direct3D, DirectSound, DirectInput (for input devices) and a couple of others. Windows NT4 only supports version 3. But for Windows 95 and 98, as well as the upcoming NT5, DirectX is now up to version 6.

Many developers have traditionally hated DirectX: they cite its complexity, lack of decent documentation, bugs and inconsistencies.

In particular, id Software, the developer of Quake and Quake II, chose to use a subset of OpenGL rather than Direct3D for Quake II.

A real, practical 3D Windows interface is unlikely to happen for at least five years

While going through its first few incarnations, you'd often see letters in magazines such as PCW with the title "DirectX ruined my life". This was

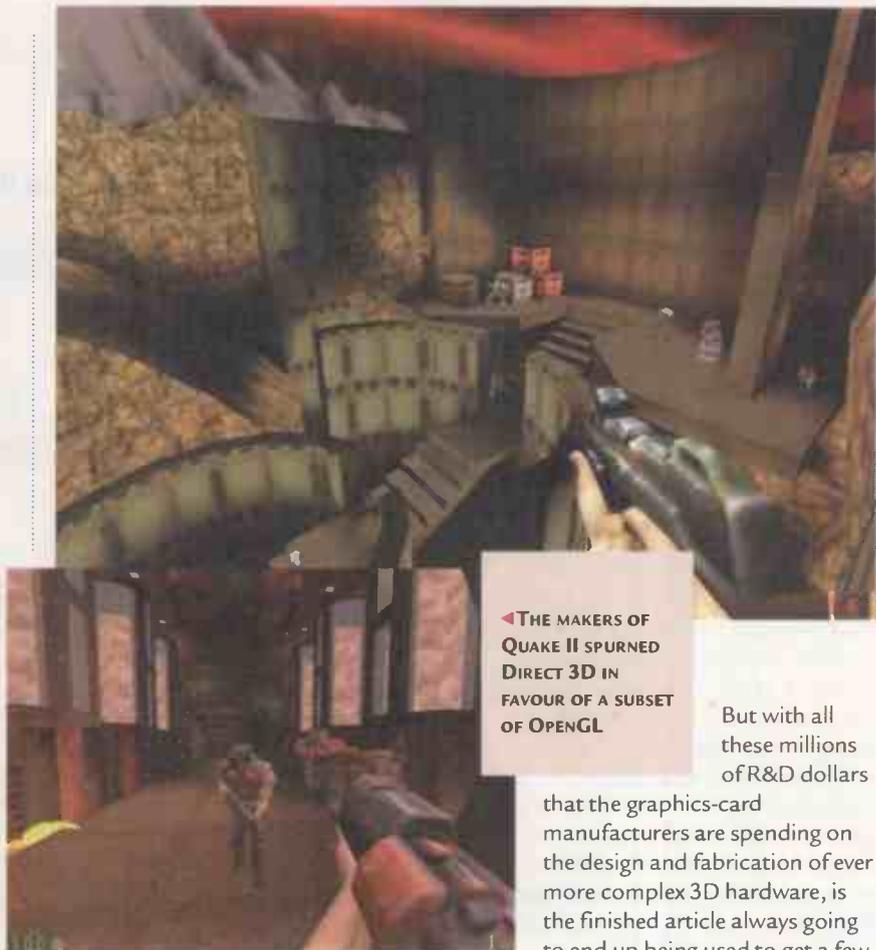
because of its propensity for completely fouling up people's PCs — particularly the graphics drivers — when they tried to install it, which they had to do if they wanted to play the latest games. But from version 5, DirectX has been much better behaved. With version 6, some developers have even said that it's now quite good. Either way, with the enormous pressure Microsoft has been able to bring to bear on games developers and the industry in general, there's no question of being able to avoid DirectX and Direct3D. It's a standard part of Windows 98, anyway.

Glide is a specialised but nonetheless important API. It is specific to 3Dfx's Voodoo Rush and Voodoo Graphics chipsets and doesn't work with any other cards. But since 3Dfx is still the card of choice for so many gamers, a lot of games have either Direct3D and Glide support, or support for Glide only. Certainly, in the "early days" of 3D hardware (about a year ago) there was nothing to touch the speed or quality of 3Dfx, so implementing Glide-only versions of games made sense. Now that the competition is catching up, there's more of a slant toward Direct3D games. But many games which give the option still look better in Glide mode if you have a 3Dfx card.

In a similar vein to Glide is an API called PowerSGL. This is the interface used by cards based on NEC's PowerVR chipset. Despite a great deal of marketing hype, PowerVR has failed to make a huge impression on the gaming fraternity in the manner of 3Dfx, but

there are games, notably Unreal, that specifically support it.

▼ **MICROSOFT'S FLIGHT SIMULATOR, WHICH USES THE COMPANY'S OWN DIRECTX**



◀ **THE MAKERS OF QUAKE II SPURNED DIRECT 3D IN FAVOUR OF A SUBSET OF OpenGL**

But with all these millions of R&D dollars

that the graphics-card manufacturers are spending on the design and fabrication of ever more complex 3D hardware, is the finished article always going to end up being used to get a few more frames per second out of

If you're considering a Voodoo 2-based add-on card, remember that these cards are for gaming only: they completely take over the display when in 3D mode, so you can't use 3D features in a desktop window. This rules them out for 3D design applications. Conversely, if you have a 2D/3D combo card and you don't want to dabble in anything other than 3D games, you won't need more than 8Mb of video memory on the card. 8Mb lets you run double-buffered, Z-buffered 3D games at 800x600

resolution, which is more than adequate for the lifetime of any current card. It's only when you need to run 3D applications at the more normal Windows resolutions, 640x480 or 800x600, that you'll need 2Mb or above.

Unreal and its successors? For the time being, yes. There's still no sign of any practical alternative to a 2D Windows desktop, despite the whizzy 3D interface that the girl in Jurassic Park used to override the security grid. A monitor is a two-dimensional surface, so a two-dimensional interface is the most practical thing to use; trying to navigate in a pseudo-3D environment is liable to confuse rather than help.

A real, practical three-dimensional Windows interface is unlikely to happen for at least five years. Those who've seen the film version of William Gibson's *Johnny Mnemonic* will remember the virtual reality glasses and actuator gloves that Keanu Reeves used to navigate Gibson's Cyberspace. It sounds cheesy, but this is what's needed to make everyday 3D virtual environments a possibility. The real problem, though, is not a technological but a social one. Will we really be able to suspend our self-consciousness sufficiently to be able to don a pair of goggles and poke at things in mid-air when we know our colleagues are watching?

PCI vs AGP

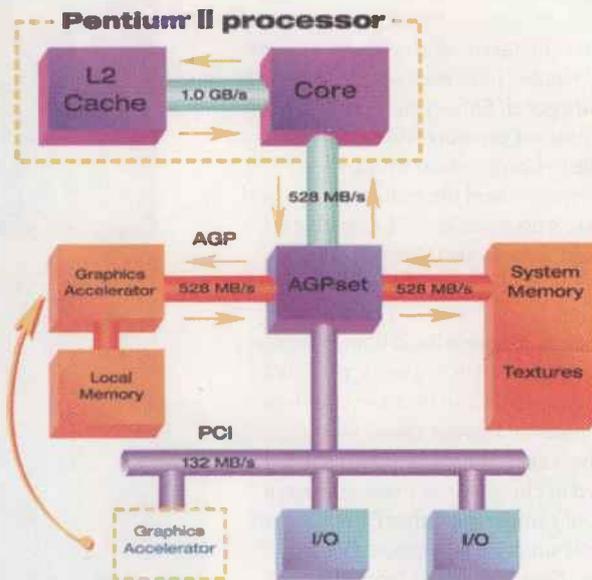
There has been some debate about the merits of an AGP graphics card over its PCI counterpart. Most of it has been fuelled by the performance (or lack of it) of the AGP cards. The 32-bit PCI slot with a maximum bandwidth of 128Mb/sec is showing its age on bandwidth-hungry components like graphics cards. The AGP slot (Accelerated Graphics Port), theoretically at least, eliminates the PCI's limitation by providing direct access into the PC's RAM.

With an AGP 2X specification, it is possible to get a peak transfer rate of 512Mb/sec, and with the new AGP 4X, the bandwidth increases to 800Mb/sec — almost eight times faster than PCI. However, as our tests proved, this does not translate into eight times better performance. One reason is that although the bottleneck of the PCI bus is eliminated, the RAM into which AGP provides direct access is still running at only 66MHz or 100MHz — four to five times slower than the processor. Also, there is the misconception that with an

AGP card, you can use the main memory rather than having extra memory on the graphics card itself. This is not so, as many graphics cards now have fast SGRAM running at 125MHz speeds. Hence, any extra data transfer from the slower main memory, even over the AGP bus, is bound to slow things down.

But this does not mean that the AGP slot is redundant. As new games that make use of larger textures appear, the memory on the graphics board may not be sufficient to hold them, even with 12Mb or 16Mb on the card. Then, AGP's

ability comes into focus, as its massive bandwidth helps in the transfer of large textures. So, if you are an avid gamer who intends to buy some of the upcoming titles, go for an AGP 2D/3D card like the Millennium G200 or the Banshee.



Multiple Graphics Cards

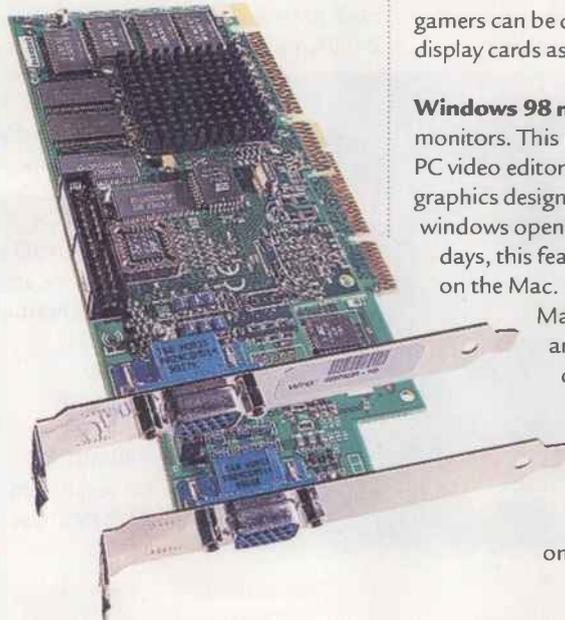
Until now, it was necessary to use a dedicated 3D accelerator (like Voodoo2) and a general 2D display card (like Millennium G100) to achieve high games performance and maintain flicker-free displays. The dedicated 3D card is connected to the main 2D card using an external pass-through cable. When not in use, the 3D card allows the video signal to bypass it and go into the monitor. However, when a 3D game is launched, the 3D accelerator kicks in and provides the display.

Our tests suggest that this age of separate cards is coming to an end. The new generation of display cards like the Millennium G200, Banshee and Savage 3D, in addition to being AGP compatible, offer 3D performance that is better than many dedicated 3D accelerators. However, there is still a niche market for dedicated 3D cards like Voodoo2. This is the realm of gamers who are never satisfied with any level of

performance. They opt for two Voodoo2 cards in SLI (Scan Line Interleaving) mode, where each card draws alternate lines on the screen, theoretically doubling the performance. Our tests show that the actual

increase is between 30 and 60 percent. However, even this market might disappear soon. With chipsets like the Riva TNT and the Permedia 3 on the horizon, with more power than even two SLI Voodoo2 cards, even die-hard gamers can be content with the same display cards as office users.

Windows 98 now supports multiple monitors. This is an ideal solution for PC video editors, stockbrokers and graphics designers who need multiple windows open at a time. In the old days, this feature was available only on the Mac. Most new cards like the Matrox Millennium G200 and the ATI Xpert98 have drivers optimised for this feature. It does mean using an extra PCI card for each additional display, though, as there is only one AGP slot.



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	333MHz	350MHz	400MHz
Processor	Intel Pentium® II 333MHz	Intel Pentium® II 350MHz	Intel Pentium® II 400MHz
Chipset	Intel 440LX	Intel 440BX	Intel 440BX
Memory	64Mb SDRAM	64Mb fast 100MHz SDRAM	64Mb fast 100MHz SDRAM
Hard disk	Fujitsu 5.2Gb	Seagate 8.6Gb	Seagate 8.6Gb
CD-ROM	Panasonic 32 speed max	Panasonic 32 speed max	Panasonic 32 speed max
DVD-ROM			
Graphics card	8Mb 3D AGP ATI Rage Pro	8Mb 3D AGP ATI Rage Pro	8Mb 3D AGP ATI Rage Pro
Monitor	15" SVGA Colour	15" SVGA Colour	15" SVGA Colour
Modem	Diamond 56Kbps PCI	Diamond 56Kbps PCI	Diamond 56Kbps PCI
Sound/speakers	64 voice PCI Hardware Wavetable, A3D Soundcard and Speakers	64 voice PCI Hardware Wavetable, A3D Soundcard and Speakers	64 voice PCI Hardware Wavetable, A3D Soundcard and Speakers
Other			
Operating system	Windows '98	Windows '98	Windows '98
Software	Lotus Smartsuite '97, Incoming 3D, Comptons Encyclopedia, GCSE Maths and more	Lotus Smartsuite '97, Incoming 3D, Comptons Encyclopedia, GCSE Maths and more	Lotus Smartsuite '97, Incoming 3D, Comptons Encyclopedia, GCSE Maths and more
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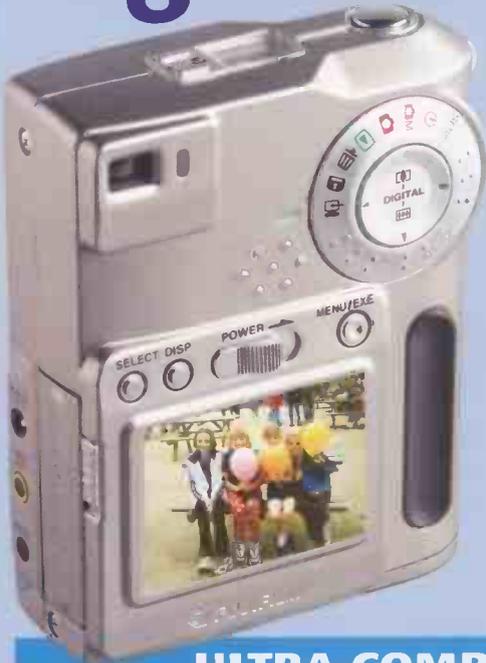
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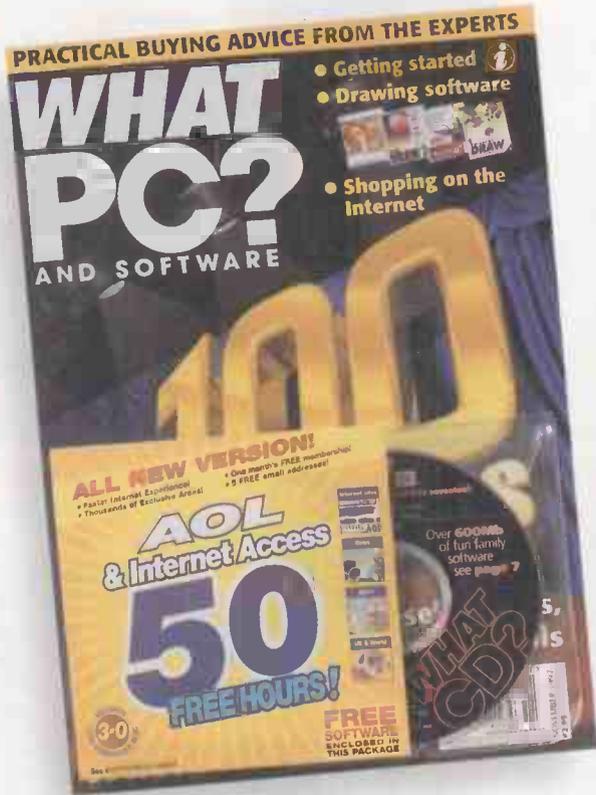


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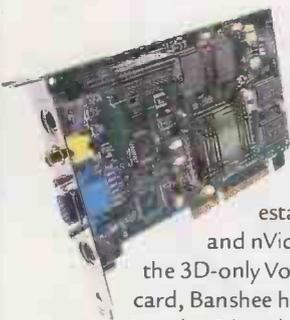
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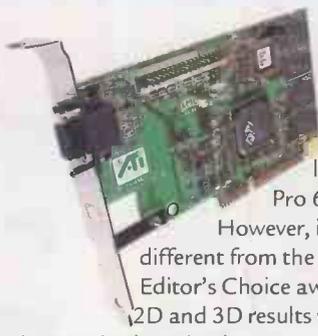
Graphics Cards



3Dfx Banshee **BETA**

The Banshee represents 3Dfx's latest foray into the 2D/3D market and is an attempt to woo OEMs away from established companies like Matrox and nVidia. Banshee's core is identical to the 3D-only Voodoo2. An AGP 1X graphics card, Banshee has a slightly higher fill rate than Voodoo2 but does not have a multitexturing unit. This means lower performance in games like Quake2 which use multitexturing. Our test board came with 8Mb of memory which was not upgradable, but this is likely to change. Banshee has a TV-out option, but does not have DVD motion assist. It was the fastest performer in our tests.

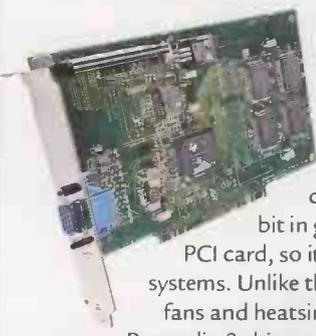
★★★★



ATI Xpert98

The 8Mb ATI Xpert98 is the latest incarnation of the Rage Pro 64-bit RISC processor. However, its performance was not very different from the Xpert@Work which won our Editor's Choice award last year. Although the 2D and 3D results were adequate, it fell short of the standards set by the newer entrants like the Banshee. The picture quality was also less than optimal with poor bilinear filtering and anti-aliasing. However, the Rage Pro Turbo is one of the few chipsets that has true motion compensation for DVD playback. ATI also offers an inexpensive upgrade kit which includes a TV tuner.

★★★



Creative Labs Graphics Blaster Exxtreme

Creative's card is based around the Permedia 2 chipset, which is getting on a bit in graphics-cards terms. It's a PCI card, so it may be better suited to older systems. Unlike the latest chipsets which have fans and heatsinks attached to them, the Permedia 2 chip needs no extra cooling. The card has 4Mb of SGRAM on-board. The relative age of the Permedia 2 is highlighted by the card's performance: with a Final Reality score of just 3.24, it's not speedy. The Incoming frame-rate test yielded just 30 frames per second, and the card wasn't able to run Forsaken at all.

★★



Diamond Stealth II G460

The G460 is Diamond's variation of the Intel i740 chipset. Unlike the Express 3D though, the G460 has 8Mb of RAM on-board. The card itself is fairly unremarkable: an AGP part, it doesn't have any extra inputs or outputs. Whereas the Express 3D has a heatsink and fan on the main graphics processor, the G460 just has a heatsink. Its Final Reality performance was very slightly behind the Express 3D, but not significantly so. In the game frame-rate tests, the G460's performance was moderate: it managed a respectable 59 frames per second with Incoming, and the Forsaken test yielded 28 frames per second at 1024x768.

★★



Diamond Viper V550

The Viper 550 is built on the new Riva TNT chipset which is meant to succeed both the Riva 128 and the Riva 128ZX. The board we tested was not a full production version and had beta drivers. However, even with these limitations, the Viper 550 proved to be an impressive performer. With a theoretical maximum fill rate of 180 million pixels per second, the TNT aims to beat the Voodoo2 SLI solution (p220). The Viper comes with 8Mb of memory and a high RAMDAC of 250Hz. However, unlike the Millennium and the Rage Pro, the Diamond board does not have motion compensation for DVD playback.

★★★★



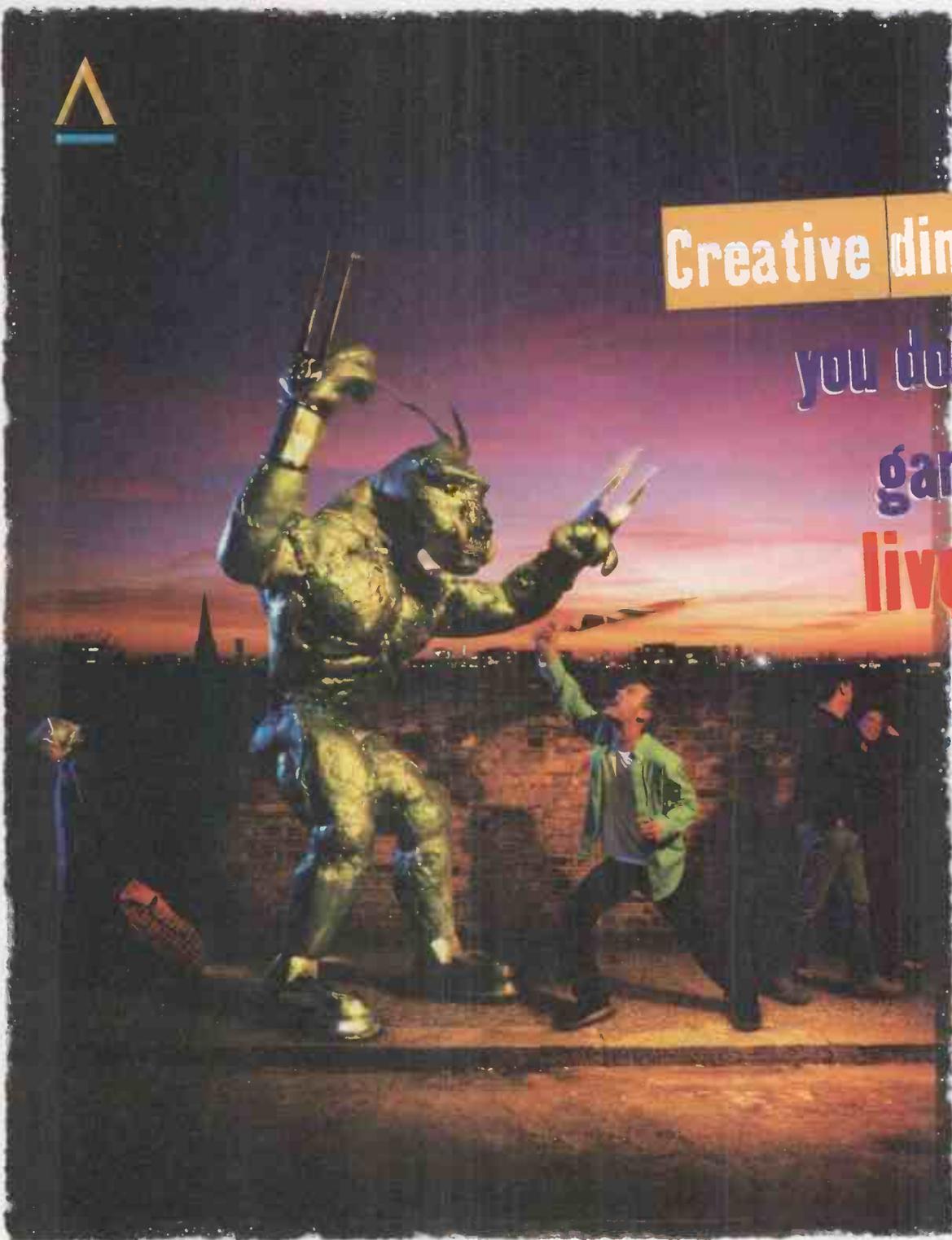
Diamond Viper V330

Based on nVidia's Riva 128 chipset, the Diamond Viper had been a good performer in our previous group tests. However, this time around, its position was usurped by newer cards. Installing the V330 was slightly troublesome, as the drivers supplied were over two years old and would not work with Windows 98. We had to download and install the latest drivers from Diamond's web site. Although the Viper had above-average performance in both 2D and 3D, its image quality left much to be desired and was well below the Millennium G200 and the Banshee. It has a TV-out option, but does not have hardware DVD assist.

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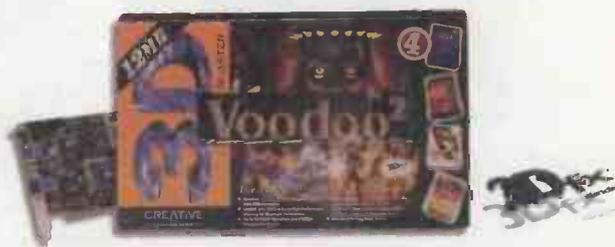
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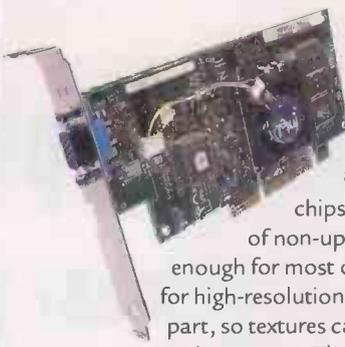
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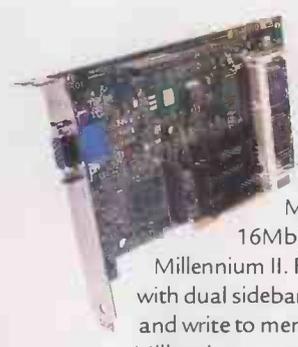
Graphics Cards



Intel Express 3D

Given that this card is made by Intel, it's no surprise that it employs Intel's own i740 graphics chipset. The card has only 4Mb of non-upgradable RAM, which is enough for most office applications but not for high-resolution 3D graphics. It's an AGP part, so textures can be stored in the PC's main memory. The i740's colour depth is limited to 256 colours at a resolution of 1280x1024, so hardcore business users won't want it. Its poor performance in real-world games means that hardcore gamers won't want it either. A card for undemanding home applications only.

★★



Matrox Millennium G200

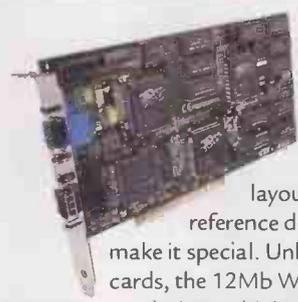
Built around the new 128-bit G200 chipset, the 8Mb Millennium G200 (upgradable to 16Mb) is an ideal successor to the Millennium II. Featuring full AGP 2X support with dual sideband addressing (the ability to read and write to memory at the same time), the Millennium was the second-fastest board in our group test. With a high RAMDAC of 250Hz and 8Mb of SGRAM, it is targeted at office users. The G200 had the best picture quality among all the cards we tested. It also has motion-assist for software DVD playback. It supports both DirectX and OpenGL.



Matrox Mystique G200

Built around the same G200 chipset as the Millennium, the Mystique has a TV-out and is targeted primarily at gamers. While the Millennium has slightly faster SGRAM, the Mystique has 8Mb SDRAM which is upgradable to 16Mb. With a high RAMDAC of 230Hz, the card is able to support resolutions as high as 1600x1200. Like the Millennium, the Mystique had excellent image quality and fast 3D performance, which should please many gamers. It has hardware assist for DVD playback and supports both DirectX and Open GL. It comes with a software bundle that includes Motorhead and Tonic Trouble.

★★★★



MegaByte Wicked 3D

Wicked 3D is the catchy name for this unique Voodoo2 board. The layout is identical to the 3Dfx reference design, but it's the drivers that make it special. Unlike all other single Voodoo2 cards, the 12Mb Wicked 3D is able to support a resolution as high as 1024x672. This is impressive, as even two Voodoo2 cards in SLI mode can support only 1024x768. Moreover, the drivers give you the ability to increase the refresh rate in 1Hz increments, so the user can take full advantage of their monitor's bandwidth. This card also supports Wicked Vision [see p200]. Wicked 3D produced the best results in our Direct3D tests.

★★★★



BETA

S3 Savage 3D - PREVIEW

The Savage carries S3's hopes of breaking back into the high-performance graphics market after a considerable lull. It's an extremely sophisticated and complex chipset, and the model we looked at was a pre-production reference design. Nonetheless, the card put in a very good performance, coming second only to the Banshee in the Incoming frame rate test and equalling it on the Forsaken benchmark. Its Final Reality result was less impressive, but given our card's pre-production status, we can't condemn it on that score. It looks as though the Savage will be a chipset to contend with: we'll test it again as soon as production samples are available.

★★★★

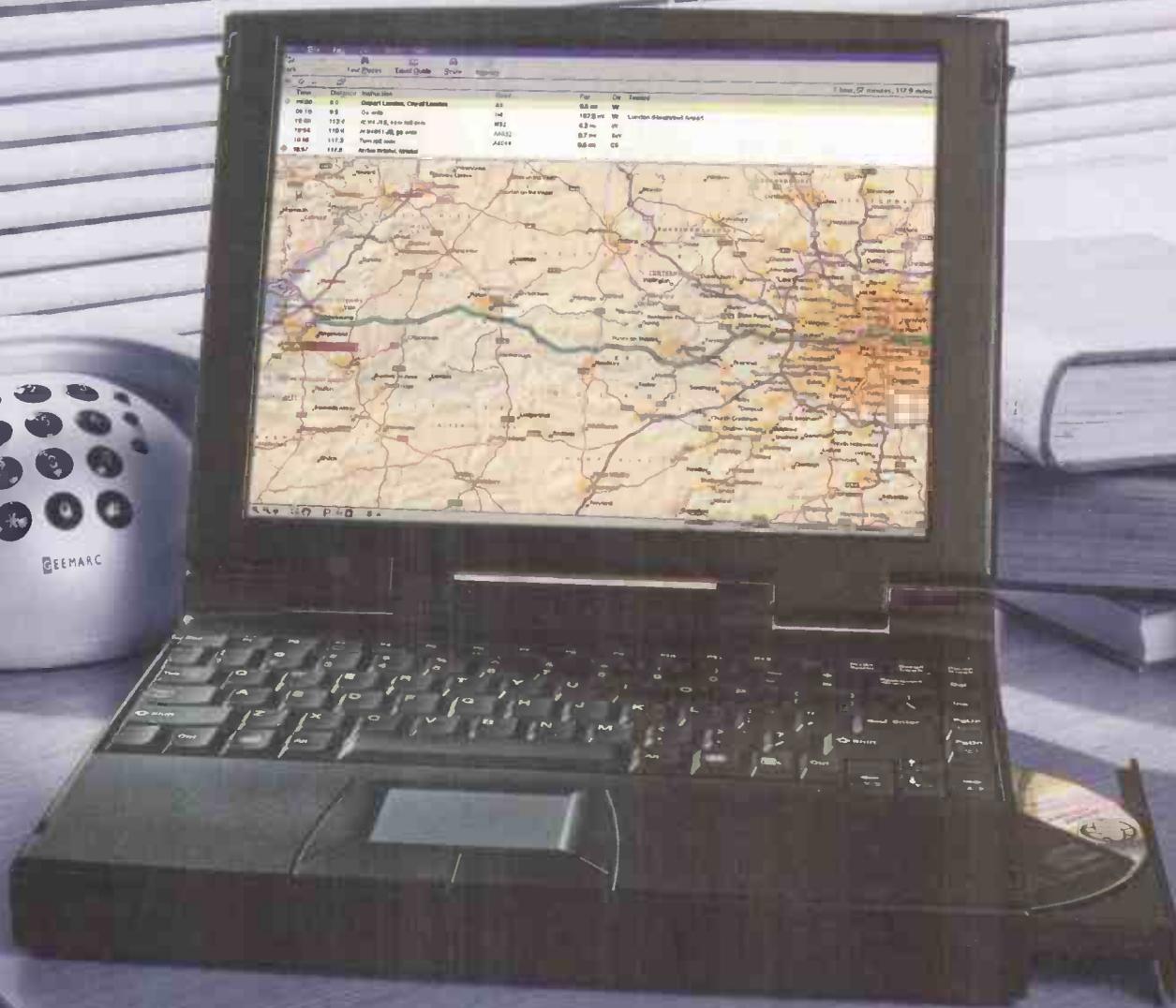


STB Velocity

The Riva 128ZX on the STB board, although a new chipset, is still only an enhanced version of the older Riva 128. The difference is mainly in the amount of memory that it can handle. While the Riva 128 boards were limited to 4Mb, the enhanced ZX is able to handle 8Mb RAM. We noticed little performance difference between the two chipsets. However, users who require higher resolutions might want to consider the new Velocity board. The picture quality of the card was identical to its predecessor. The Velocity does not have hardware assist for DVD playback.

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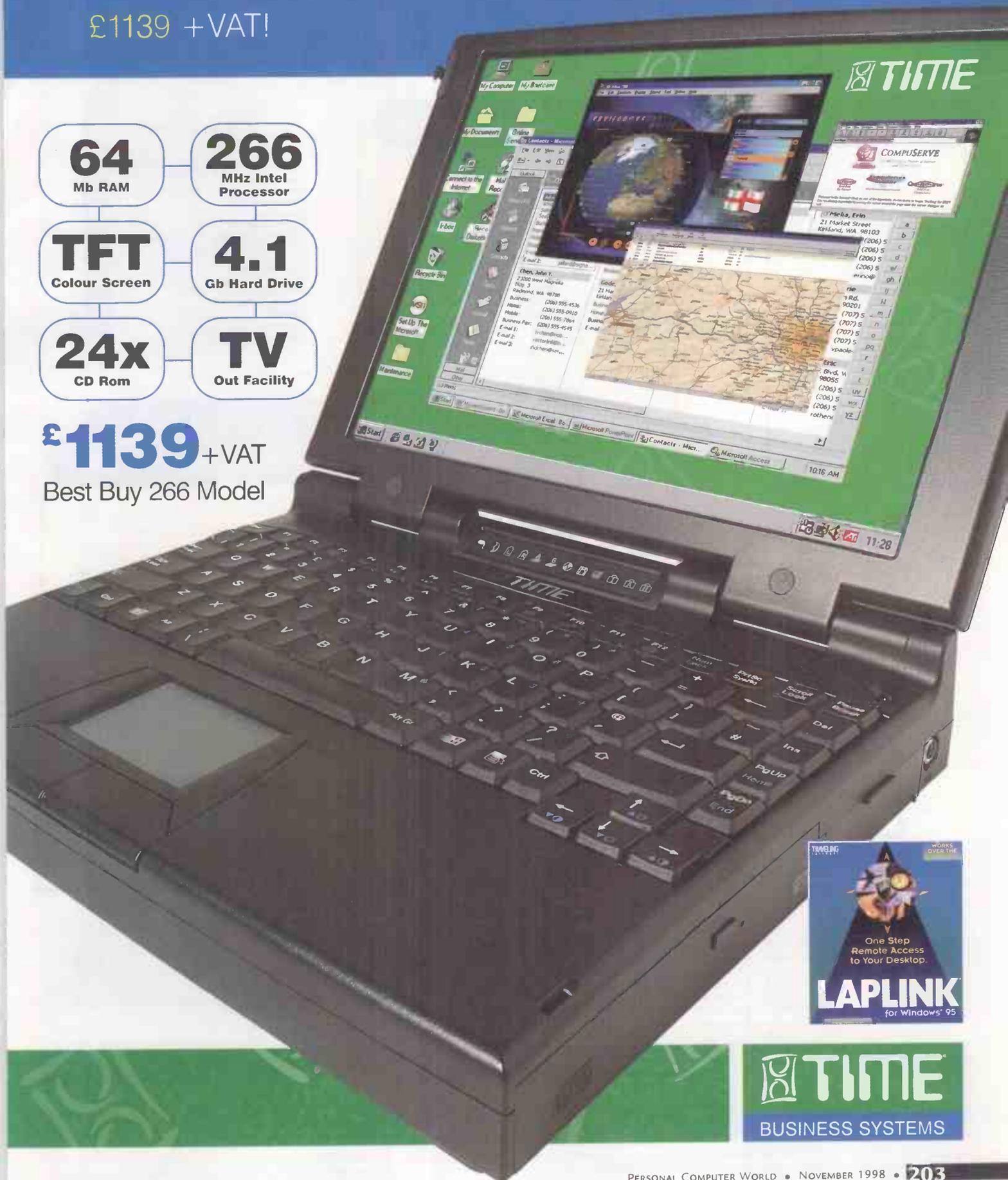
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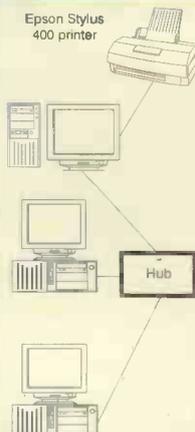
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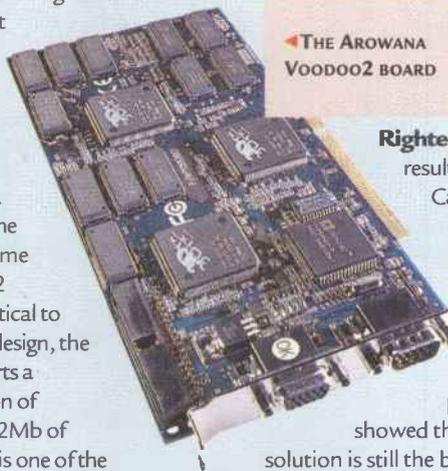
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Voodoo2 cards

How **the magic works** in the cards we tested.

Since its launch nearly six months ago, the Voodoo2 from 3Dfx has reigned supreme in the games arena. Even now, with the entry of more powerful chipsets like the Riva TNT, a Voodoo2 SLI solution is hard to beat. Of the five Voodoo2 boards we tested, the **Wicked 3D** proved to be the best in terms of features and performance. While other Voodoo2 cards offered a maximum resolution of only 800x600, the Wicked board supported 1024x672. This is only slightly less than the maximum resolution (1024x768) offered by even a Voodoo2 SLI solution. Moreover, the Wicked driver allows the user to increase the refresh rate in 1Hz increments. The board also supports Wicked Vision [below]. The **Canopus Pure3D II** was another board which stood out. In addition to excellent drivers, Pure 3D was the only Voodoo2

board that had a cooling fan and heatsink, making it a good choice for compulsive overclockers. The Canopus board was also the only one with a TV-out. Creative Labs was the first company to come out with a Voodoo2 board. Almost identical to the 3Dfx reference design, the **3D Blaster** supports a maximum resolution of 800x600 and has 12Mb of memory. Arowana is one of the later entrants into the Voodoo2 bandwagon. Identical to the reference design, the board posted respectable but hardly unexpected results. Like the Creative and Canopus boards, the Arowana board



◀ THE AROWANA VODOO2 BOARD

supports a maximum resolution of 800x600. The **Orchid**

Righteous II produced similar results to the Creative and Canopus boards. With all the regular features of a

Voodoo2 card, the **Righteous II**

is a solid performer. Our tests

showed that a Voodoo2 SLI solution is still the best for many games. Even at a higher resolution of 1024x768, the SLI mode offers a performance increase between 30 and 60 percent, giving performance scores of 169fps in Forsaken and 174fps in Incoming.

Wicked Vision

How one company is taking 3D into **another dimension**.

At a time when every graphics-card manufacturer is promising a "true 3D" experience, it is difficult to identify a product that gives a truly special experience. Wicked 3D is one company that is attempting to break the mould. Its technology, Wicked Vision, unlike regular "3D", provides true holographic images.

Attempts to produce holographic images on-screen are nothing new. Previous failed attempts included cheesy red and blue spectacles or clumsy polaroid goggles. Wicked Vision is different in many respects. To begin with, unlike previous attempts, it does not need software to be specifically written for it. This removes a major hurdle to its acceptance. As it is an API-level implementation of holographic imaging, any game that is written for APIs like DirectX, OpenGL or Glide is instantly transformed into a true holographic one.

Currently, over 100 games, including hits like Quake, Unreal and Incoming, can be played using Wicked Vision.

Wicked Vision does require extra hardware. In addition to the Wicked 3D Voodoo2 board, the kit includes a pair of wireless LCD glasses and a transmitter which sits on top of the monitor. When not in use, the transmitter, which kicks in when the game is launched, allows the signal to pass through into the monitor. The spectacles are made of LCD shutters which flicker at a set rate. The rate of flicker is slightly different for each eye. The holographic images are a result of the brain's ability to merge these separate signals into one, creating the illusion of depth. Wicked claims that games are being developed specifically for this process, which would allow objects to come out of the screen as in an Imax movie.

Wicked 3D drivers are still in a rudimentary state, so some games might be distorted and text blurred. However, the technology holds immense promise.



◀ THE WICKED VISION KIT INCLUDES A PAIR OF WIRELESS 3D GLASSES

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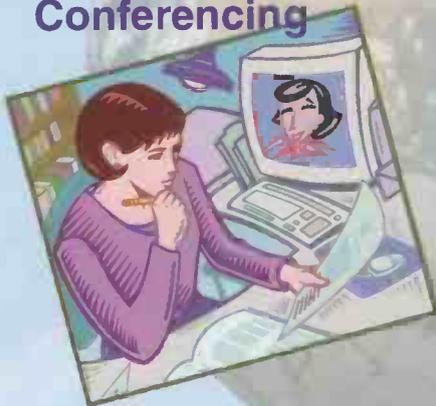
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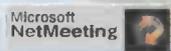
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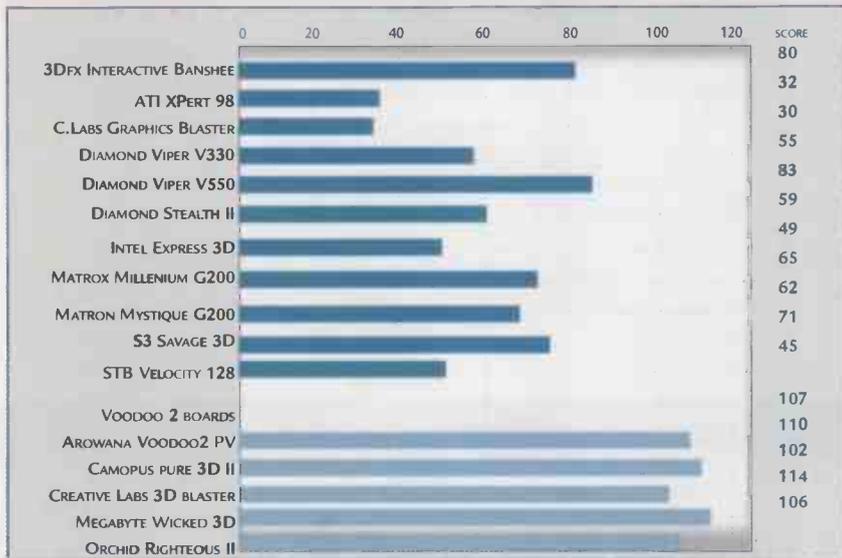
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Table of features

MODEL	3DFX BANSHEE	AROWANA PV820	ATI XPRT98	CANOPUS PURE 3D II
SUPPLIER/CONTACT	N/A	ICOM INNOVATIONS	ATI	EVESHAM MICROS
telephone	n/a	0800 731 8419	01628 533115	01386 769600
Web address	www.3dfx.com	www.arowana.com	www.atitech.com	www.total3d.com
Price inc VAT	n/a	£135.13	£69.00	£269.08
Price ex VAT	n/a	£115.00	£58.72	£229.00
PCI/AGP	AGP	PCI	AGP	PCI
RAM onboard/Max RAM	8Mb/16Mb	8Mb/8Mb	8Mb/8Mb	12Mb/12Mb
Chipset	3Dfx Banshee	3Dfx Voodoo2	Rage Pro Turbo	3Dfx Voodoo2
RAMDAC speed	250MHz	135MHz	230MHz	135MHz
TV out	No	no	No	Yes
Max res/ colours	1600x1200x4bn	800x600x65k	1600x1200x16.7m	800x600x65k
Max refresh at max res	100Hz	120Hz	75Hz	120Hz
Windows drivers	95, 98, NT4	95, 98	95, 98, NT4	95, 98
MODEL	CREATIVE 3D BLASTER	CREATIVE GRAPHICS BLASTER EXTREME	DIAMOND STEALTH II G460	DIAMOND VIPER 550
SUPPLIER/CONTACT	CREATIVE LABS	CREATIVE LABS	DIAMOND MULTIMEDIA	DIAMOND MULTIMEDIA
telephone	01245 265 265	01245 265 265	0118 944 4400	0118 944 4400
Web address	www.creativelabs.com	www.creativelabs.com	www.diamondmm.com	www.creativelabs.com
Price inc VAT	£229.13	£79.00	£69.00	Approx £150
Price ex VAT	£195.00	£67.23	£58.72	Approx £128
PCI/AGP	PCI	PCI	AGP	AGP
RAM onboard/Max RAM	12Mb/12Mb	4Mb/4Mb	8Mb/8Mb	8Mb/16Mb
Chipset	3Dfx Voodoo2	Permedia2	intel i740	nVidia Riva TNT
RAMDAC speed	135MHz	230MHz	203MHz	250MHz
TV out	no	no	No	No
Max res/ colours	800x600x65k	1600x1200x65k	1600x1200x16.7m	1920x1200x16.7m
Max refresh at max res	120Hz	75Hz	60Hz	85Hz
Windows drivers	95, 98	95, NT4	95, 98, NT4	95, 98, NT4
MODEL	DIAMOND VIPER V330	INTEL EXPRESS 3D	MATROX MILLENNIUM G200	MATROX MYSTIQUE G200
SUPPLIER/CONTACT	DIAMOND	INTEL	MATROX	MATROX
telephone	0118 944 400	01793 431155	01753 665544	01753 665544
Web address	www.diamondmm.com	www.intel.com	www.matrox.com	www.matrox.com
Price inc VAT	£61.00	£62	£129.25	£129.25
Price ex VAT	£51.91	£52.77	£110.00	£110.00
PCI/AGP	AGP	AGP	AGP	AGP
RAM onboard/Max RAM	8Mb/8Mb	4Mb/4Mb	8Mb/16Mb	8Mb/16Mb
Chipset	Intel i740	Intel i740	G200	G200
RAMDAC speed	203Mhz	203MHz	250MHz	230MHz
TV out	No	no	No	Yes
Max res/ colours	1600 x 1200 x 256	1600X1200X256	1920x1200x16.7m	1920x1200x16.7m
Max refresh at max res	60Hz	60Hz	85Hz	85Hz
Windows drivers	95, 98, NT4	95, 98, NT4	95, 98, NT4	95, 98, NT4
MODEL	METABYTE WICKED 3D	ORCHID RIGHTEOUS 3D II	S3 SAVAGE 3D	STB VELOCITY 128
SUPPLIER/CONTACT	WATFORD ELECTRONICS	FROM HIGH STREET STORES	N/A	STB
telephone	01582 745555	n/a	n/a	01753 212 600
Web address	www.Wicked3D.com	www.orchid.com	www.s3.com	www.stb.com
Price inc VAT	£211.50	£210.33	n/a	£115.00
Price ex VAT	£180.00	£179	n/a	£94.87
PCI/AGP	PCI	PCI	AGP	AGP
RAM onboard/Max RAM	12Mb/12Mb	12Mb/12Mb	8Mb/8Mb	8Mb/8Mb
Chipset	3Dfx Voodoo 2	3Dfx Voodoo2	Savage 3D	Riva 128ZX
RAMDAC speed	135MHz	135MHz	250MHz	250MHz
TV out	No	No	Yes	No
Max res/ colours	1024x768x65k	800x600x65k	1600x1200x16.7m	1600x1200x16.7m
Max refresh at max res	85Hz	120Hz	85Hz	60Hz
Windows drivers	95, 98, NT4	95, 98	95, 98, NT4	95, 98, NT4



Results for Incoming

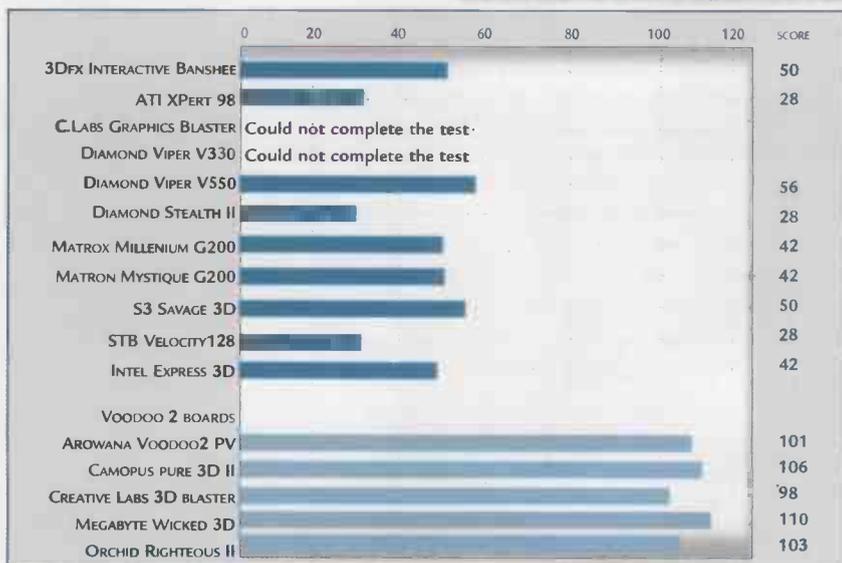
FOR REAL-WORLD TESTING, WE USED TWO OF THE LATEST 3D GAMES, INCOMING AND FORSAKEN. WE USED THE FRAME RATE COUNTER OPTIONS OF BOTH GAMES TO ASSESS PERFORMANCE. WITH INCOMING WE TESTED ALL THE CARDS AT THE DEFAULT 640X480 RESOLUTION. WE TESTED ALL THE NON-VOODOO2 CARDS WITH V-SYNC ON, AND THE VODOO2 CARDS WITH V-SYNC OFF. OTHERWISE WE DIDN'T ALTER ANY OF THE GRAPHICS SETTINGS, TO ENSURE A LEVEL PLAYING FIELD. YOU CAN DIRECTLY COMPARE THE RESULTS FROM ONE SET OF CARDS TO ALL OF THE OTHERS IN THAT SET

FINAL REALITY HAS TWO DISTINCT SECTIONS, WITH 2D AND 3D TESTS. THE 2D SECTION SHOWS WHAT KIND OF PERFORMANCE YOU CAN EXPECT FOR WINDOWS APPS, WHILE THE 3D TESTS USE ALL OF THE 3D FEATURES OF THE CARD IN A SERIES OF GAME-LIKE ANIMATED 3D SCENES. IT RUNS UNDER WINDOWS 95 AND DIRECTX 5 AND USES A 3D ENGINE DEVELOPED BY REMEDY. THE VISUAL-APPEARANCE FACTORS ARE WEIGHTED IN IMPORTANCE AND COMBINED WITH THE OVERALL PROCESSING SPEED TO PRODUCE AN OVERALL MARK. AGAIN, THE HIGHER THE SCORE, THE BETTER THE RESULT. FINAL REALITY CAN BE DOWNLOADED FROM WWW.VNU.CO.UK. ALL THE CARDS WERE TESTED RUNNING AT A RESOLUTION OF 1024X768, IN 16-BIT COLOUR AND AT A REFRESH RATE OF 100HZ,

Results for Final Reality



Results for Forsaken



AS IN THE INCOMING TEST, WE USED THE FRAME RATE COUNTER OPTION OF THE GAME TO ASSESS PERFORMANCE. TWO OF THE CARDS, THE CREATIVE LABS GRAPHICS BLASTER EXTREME AND THE DIAMOND VIPER V330, WERE UNABLE TO RUN THE GAME AT ALL. WITH FORSAKEN WE USED THE MAXIMUM RESOLUTION THE CARDS WOULD SUPPORT, 800X600 OR 1024X768. BEAR THIS IN MIND WHEN COMPARING CARDS: OBVIOUSLY, A CARD THAT RAN THE TESTS AT 800X600 WILL LIKELY GIVE A HIGHER FRAME RATE THAN ONE WHICH RAN AT 1024X768. OF THE OTHERS TESTED, ALL EXCEPT THE INTEL EXPRESS 3D WERE ABLE TO RUN AT A RESOLUTION OF 1024X768. THE INTEL COULD ONLY MANAGE A RESOLUTION OF 800X600. THE VODOO2 CARDS WERE RUN AT 800X600 WITH V-SYNC OFF.

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Editor's Choice

Diamonds are a gamer's best friend — **this Viper** sure does bite!

There's no doubt that the pace of development in graphics cards is of benefit to the end-user. In the days of 2D-only cards, there may have been a difference of just a few percent between the best and the worst; but with 3D applications you can really feel the benefits of the best cards. And this isn't just in speed terms, but in visual features and quality. Watching the Final Reality, Forsaken and Incoming tests, the top performers were clearly visible even before the objective compilation of the results.

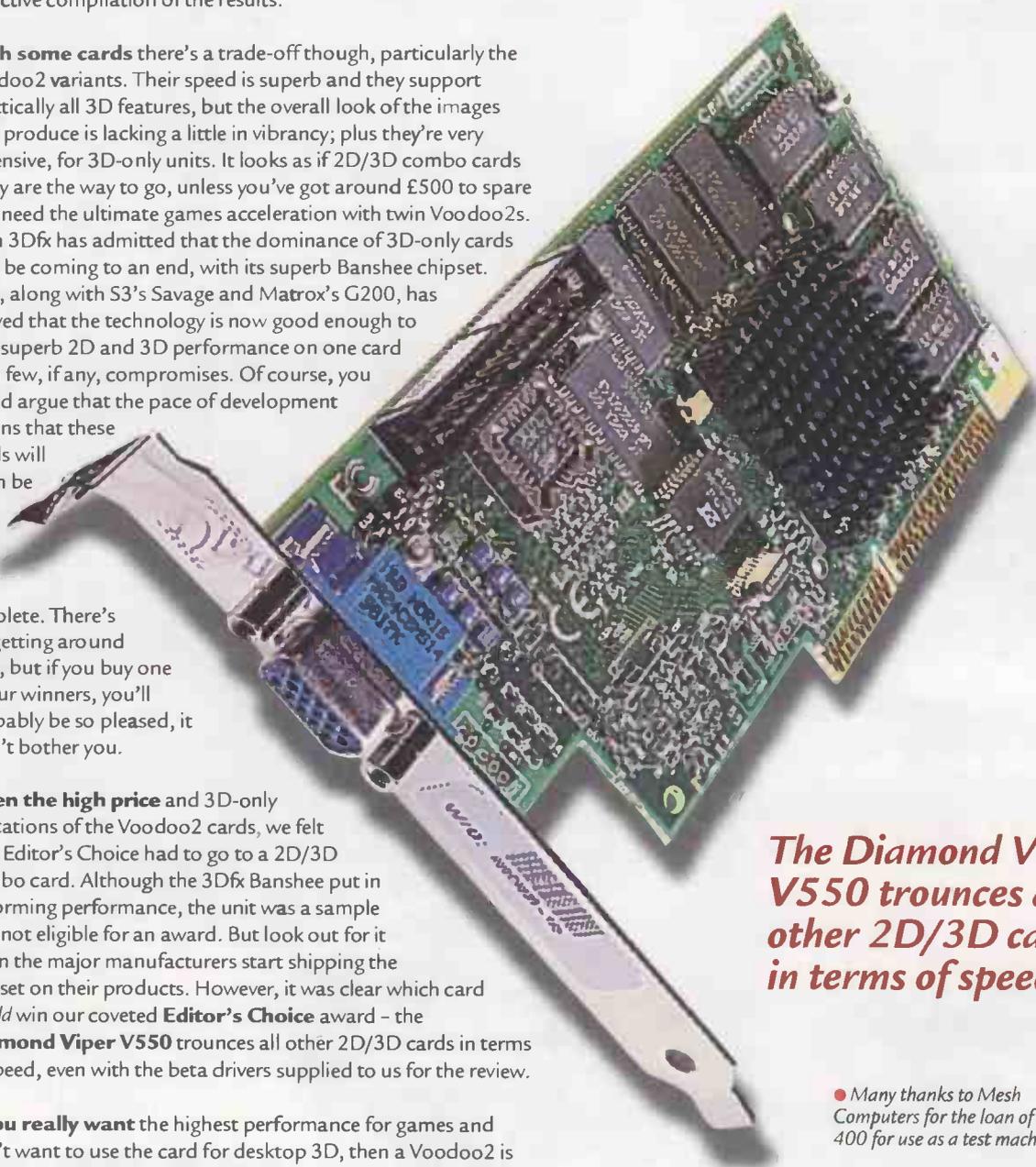
With some cards there's a trade-off though, particularly the Voodoo2 variants. Their speed is superb and they support practically all 3D features, but the overall look of the images they produce is lacking a little in vibrancy; plus they're very expensive, for 3D-only units. It looks as if 2D/3D combo cards really are the way to go, unless you've got around £500 to spare and need the ultimate games acceleration with twin Voodoo2s. Even 3Dfx has admitted that the dominance of 3D-only cards may be coming to an end, with its superb Banshee chipset. This, along with S3's Savage and Matrox's G200, has proved that the technology is now good enough to give superb 2D and 3D performance on one card with few, if any, compromises. Of course, you could argue that the pace of development means that these cards will soon be

obsolete. There's no getting around that, but if you buy one of our winners, you'll probably be so pleased, it won't bother you.

Given the high price and 3D-only limitations of the Voodoo2 cards, we felt that Editor's Choice had to go to a 2D/3D combo card. Although the 3Dfx Banshee put in a storming performance, the unit was a sample and not eligible for an award. But look out for it when the major manufacturers start shipping the chipset on their products. However, it was clear which card should win our coveted **Editor's Choice** award — the **Diamond Viper V550** trounces all other 2D/3D cards in terms of speed, even with the beta drivers supplied to us for the review.

If you really want the highest performance for games and don't want to use the card for desktop 3D, then a Voodoo2 is still the best performer. Top of the heap was the **Wicked 3D** from **MetaByte**. It's not cheap, but it was the fastest and most fully featured, plus there's the Wicked Vision add-on.

Consequently, we gave it a **Highly Commended** award. The second Highly Commended goes to the **Matrox Millennium G200**. Performance in both 2D and 3D is nothing short of superb, it's fully AGP 2x compliant, and it has OpenGL drivers for both Windows 95/98 and NT. On top of that, its visual quality is the best of the bunch.

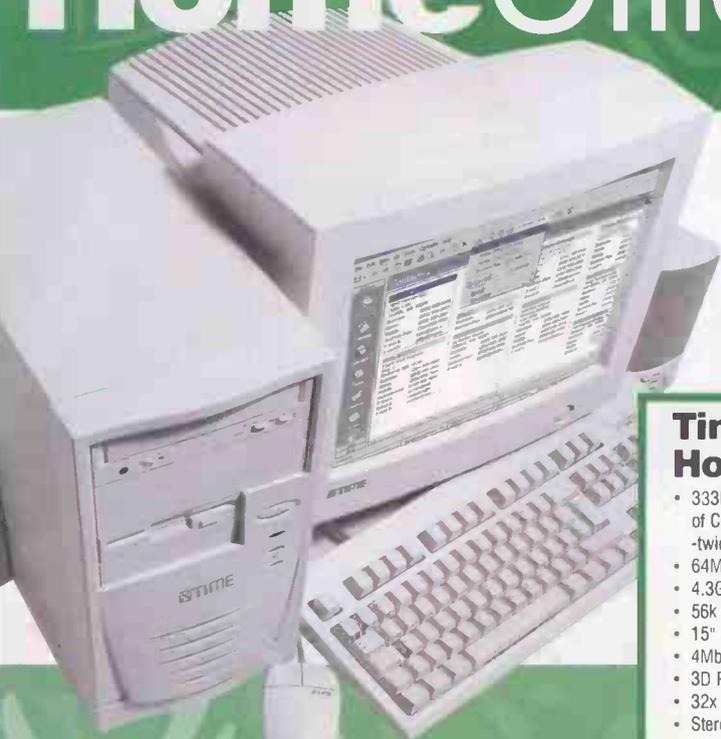


The Diamond Viper V550 trounces all other 2D/3D cards in terms of speed

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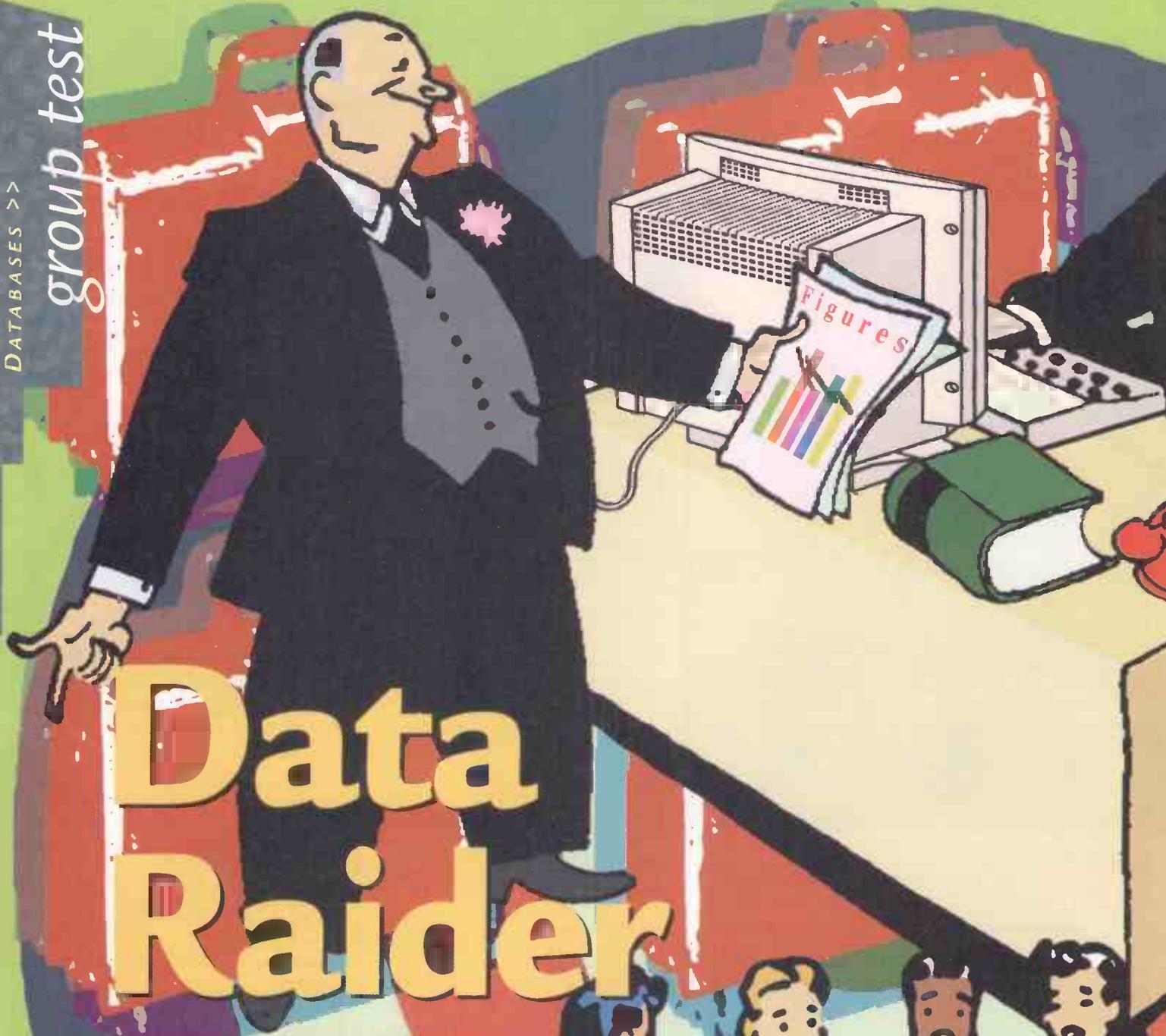
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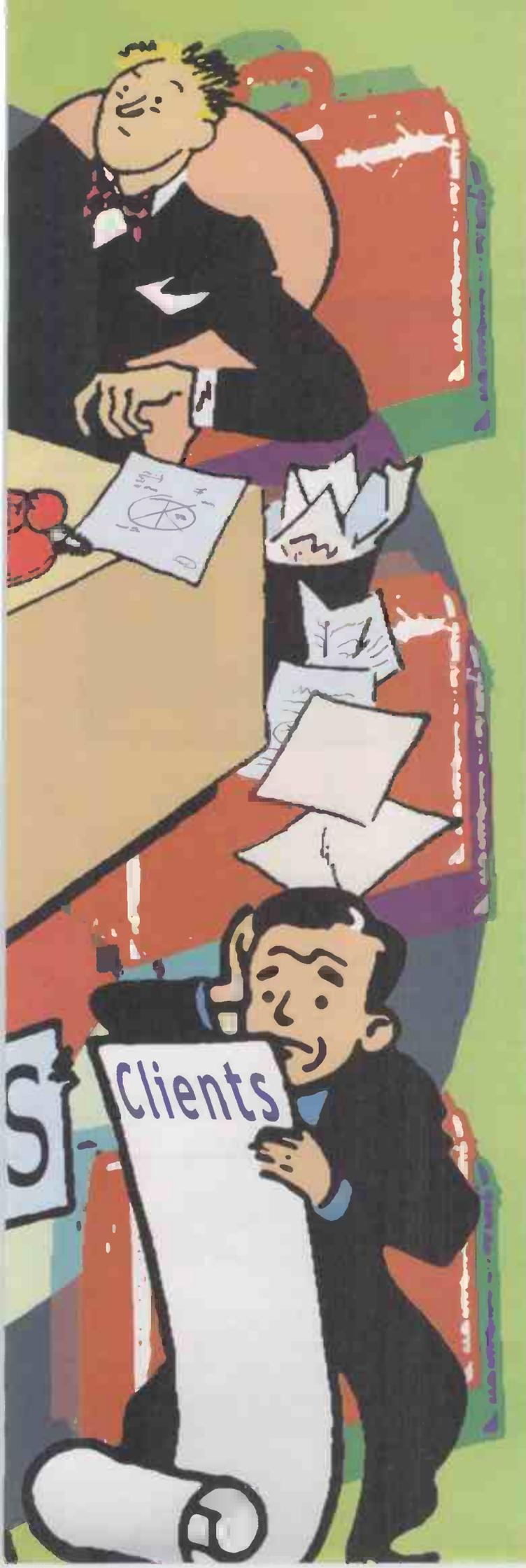
group test



Data Raider

raw data





What's the **best data manager** for your needs? Tim Anderson gets to grips with the leading contenders in the Windows database market.

Everyone needs to manage data, whether it is an address book, a CD collection, or the invoices, stock and order records that are essential to running a business. Even entry-level PCs can handle huge amounts of data but choosing the right software to manage it is tricky. This group test looks at the main contenders in the Windows database market. It is an area dominated by Microsoft Access, thanks to the commanding market share of Office.

The database world is changing, though, and the use of all-purpose Windows databases is diminishing. A typical PC will access addresses and contact information through a PIM (personal information manager), a contact manager, or a Groupware product like Lotus Notes, Novell GroupWise or Microsoft Exchange. Corporate data is likely to be on a server running software from the likes of IBM and Oracle. For both home and business users, sharing data on the web has become important, using both the internet and local intranets. The ability to connect to diverse sources of data and to share your own data with others, is more important than ever. All this means that today's database manager must be truly flexible; able to operate in the old way as an all-in-one solution, or to fit in as a component in a wider data-management strategy.

We have looked at all the aspects, including form design, programmability, integration with other applications such as word processors and spreadsheets, and web features.

Ease of use is another factor, particularly as relational database managers are notoriously difficult for novice users. The packages vary in how far you can get without programming, which is an important point for those who, reasonably enough, do not want to become IT specialists merely to manage their club's membership records. The key is to find the right match between the task, the tools, and the skills available.

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Ratings

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

Illustration by Paul Shorrocks

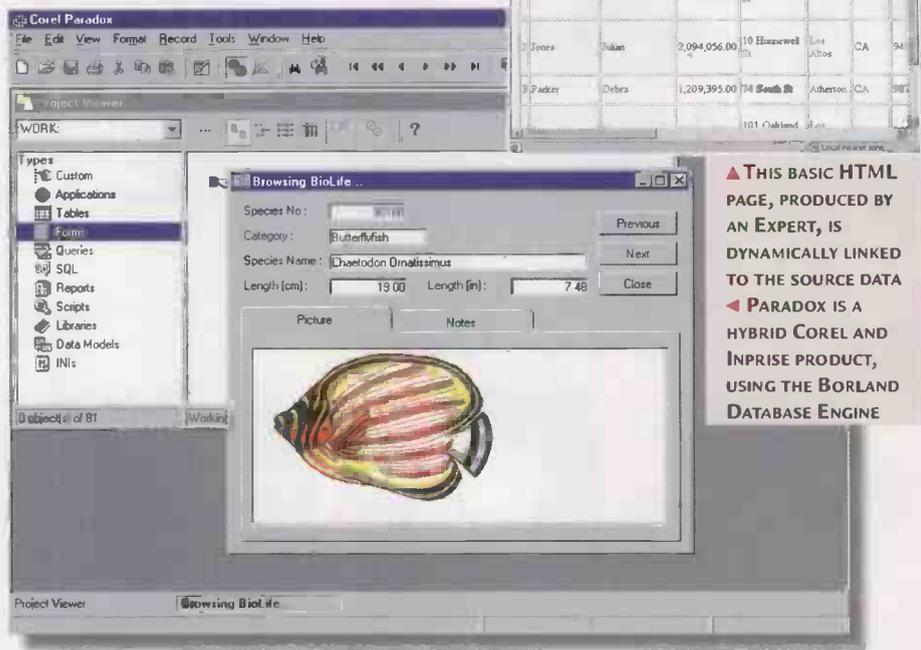
Corel Paradox

A new level of **sophistication** for a familiar and flexible database.

It is hard to think of Paradox as a Corel application. For most of its life, Paradox belonged to Borland, which produced both DOS and Windows versions. Strictly, it is now a joint venture, with Inprise remaining responsible for the database engine and Corel handling other development aspects. That means Paradox uses the Borland Database Engine (BDE) also found in Visual dBase and other Inprise products. The advantage for Corel is that it provides a high-end database for the Professional version of WordPerfect suite.

Paradox is close to Microsoft Access in its aims. It is intended for end-users and developers, and to work either as a standalone database manager or as a client for server databases. There are also links to other WordPerfect suite applications and a range of web features to enable both static and dynamic internet publishing. This is a huge scope and makes Paradox an ambitious and sophisticated product. The BDE is more than adequate to drive Paradox so the key question is how successfully it balances the requirements of developers and database novices.

The answer is that Paradox scores highly on flexibility and power but is bewildering for novices. A typical Office suite user might choose File/New to



▲ THIS BASIC HTML PAGE, PRODUCED BY AN EXPERT, IS DYNAMICALLY LINKED TO THE SOURCE DATA
◀ PARADOX IS A HYBRID COREL AND INPRISE PRODUCT, USING THE BORLAND DATABASE ENGINE

create a new database. Paradox offers a perplexing range of options, beginning with Data Model, Form, Library and Query. Scrolling down to Table makes a good choice and a Table Expert kicks in with a range of templates for both personal and business use. Paradox opens the table in a grid view ready for data entry and a Form Expert will create a record-by-record layout. You would expect the Table Structure option on the View menu to let you add a field but in fact you need the Restructure option on the Utilities submenu of the Tools menu. Each field can have one of 17 field types, and to add a new field you need to click on an existing one and press Insert – hardly intuitive.

Paradox makes a poor choice for bundling in an Office suite but as a high-end developers' database manager it looks much better. The Paradox native data format is fully-featured, with enforced referential integrity, encryption, security and table-level validation. The form designer is sophisticated and the ObjectPal scripting language well suited to most data management and processing tasks. New in Paradox 8 is a range of web publishing options, the most interesting being the integrated Corel Web Server. While it lacks the

simplicity of FileMaker's instant web publishing, it is easier to work with in that the web server lets you add your own web pages alongside those generated by Paradox to handle data access. As part of a corporate intranet, Paradox could provide dynamic database access with relatively little pain.

A problem for Paradox is that database developers have many other options available to them and, while powerful, the ObjectPal language is unique to Paradox and less useful in other contexts than standards like Java. This means Paradox is unlikely to have a bright future, even in the development world.

CASE STUDY Paradox

"Paradox serves my needs as an interactive tool for industry-standard dBase files as well as the more flexible and powerful Paradox files. Its Query by Example is very powerful. The ability to build referential integrity and other restraints into the table design means that these restraints always apply. You can get pretty far without writing any code and you only need to add code to modify the default behaviour. The report generator is very powerful but I miss the ability to visually highlight multiple rows of a table and cut, copy and paste. Also, if you have a 10,000-record table and want to split it into two 5,000 record tables, you have to write code to do it."

BILL SPARROW

PCW DETAILS

★★★

Price £76.38 (£65 ex VAT)

Contact Corel 0800 973189

www.corel.com

System Requirements Window 95 or NT 4.0, 16Mb RAM

Good Points Powerful and flexible. Easy web publishing. Strong connectivity through the Borland Database Engine.

Bad Points Too complex for novices. Proprietary programming language. Confusing interface.

Conclusion Needs a lot of work to match Access in usability.

FileMaker Pro



Cross-platform use and simplicity from a **common-sense** database manager.

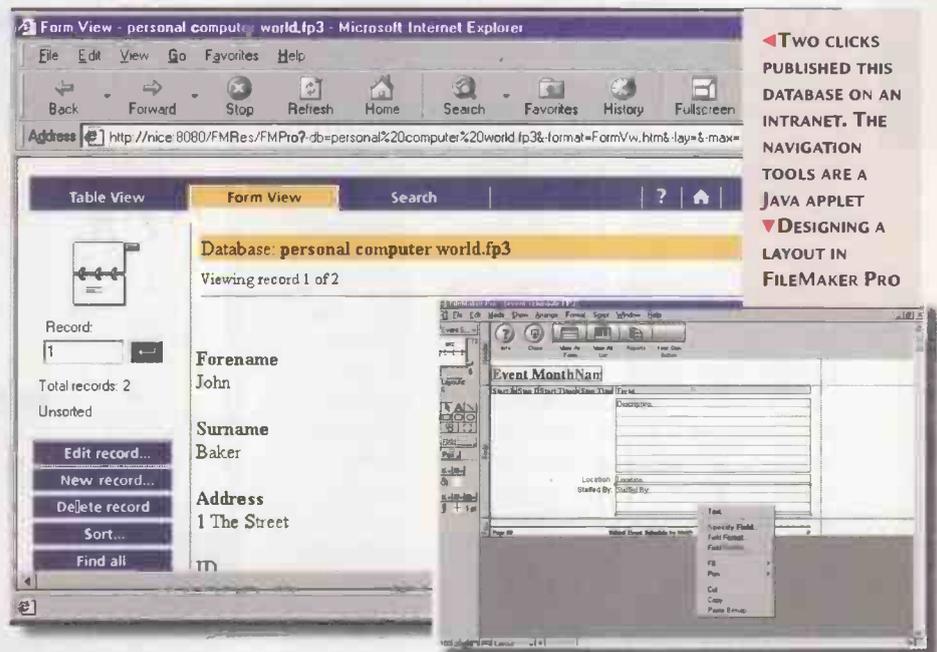
If you want to share data with Apple Macintosh users, FileMaker is the clear choice. It originated on the Mac but is available in a Windows version. The two have closely-matched features and mixed Windows-Mac applications work well. FileMaker has the feel of a Mac application and has been designed with usability as its top priority.

To create a FileMaker database, you can choose a template or start from scratch. You choose your fields from a list that includes text, number, date and calculation fields. You are not required to state what sort of numbers you want to store, how long a text field may be, or what indexes you require. Text fields can be up to 64,000 characters so there is no distinction between a character and a memo field. Indexing is automatic and FileMaker indexes each word in a text field. You can specify options like pop-up lists of values, and the ability to look-up data from another file.

CASE STUDY FileMaker Pro

"I've been using FileMaker for various things since Version 2. We're currently running a mixed ten-user network of Macs and Windows 95 accessing a copy of NT Server. The reason we first got into FileMaker Pro is that it is so easy to knock together whatever we need to do. It saves us a lot of time. We use it for all manner of bits and pieces, from contacts files (but with built-in passing of messages about incoming calls, creating/faxing/filing of correspondence and so on) through to a mini mail order system. Its ease of use can be something of a double-edged sword, though. It's easy to underestimate just how much you can do with Filemaker because the approach is so simple. People who prefer command lines will assume that it can't do things when in fact it can. We could do with TAPI compliance to use with the phone cards in the PCs, the ability to copy scripts between files and some way of using it directly with our main accounts system, Access Accounting. That last point is supposed to be addressed with 4.1 and ODBC."

TIM LEIGHTON-BOYCE,
NEW DEAL SKATES UK



◀ **TWO CLICKS PUBLISHED THIS DATABASE ON AN INTRANET. THE NAVIGATION TOOLS ARE A JAVA APPLET**
▶ **DESIGNING A LAYOUT IN FILEMAKER PRO**

Once you have defined fields, they appear on a form, called a layout. You can then add drawing objects, specify formatting and add buttons. To create a new form you add a second layout. Query-by-form is automatically included, providing an intuitive way to find records. Buttons are linked either to built-in actions, or to scripts created using a ScriptMaker tool. FileMaker now allows you to set up relationships and to include linked data on a layout. Reports and mail merge are layouts in FileMaker, with tools available from the tool panel.

FileMaker has a built-in web server. To publish a database to the internet you check the Web Companion plug-in and choose an option on the sharing dialog for the database. Browsers can then navigate to the web address of the machine where FileMaker is located and see the layouts appear in slightly simplified form in their browser. Java is used for parts of the online layout. You can customise the design of the web view but it leads you into a mire of technical scripting that is best avoided.

You would expect FileMaker's design options to be limiting but it is so well thought out that mildly sophisticated solutions can be created and even large databases perform well. It is a better

product than Lotus Approach, its closest equivalent. Developer and server versions are available, the latter giving better performance on a network. FileMaker's weak point is that it cannot communicate easily with other applications. To mail-merge from Word, you would have to export the data to a format Word could understand. FileMaker Pro 4.1, currently in late beta, adds support for ODBC but only for import. There is no way to insert or update data in the ODBC data source and still no ODBC driver to allow other applications to read a FileMaker database. It is time FileMaker became a proper Windows citizen.

PCW DETAILS



Price £198.58 (£169 ex VAT)

Contact FileMaker 0845 6039100

www.filemaker.co.uk

System Requirements Windows 3.1 or higher, 8Mb RAM. Web features need Windows 95, 98 or NT.

Good Points Ease of use. Cross-platform with the Mac. Instant web publishing.

Bad Points Cannot read FileMaker data from other applications. Web publishing is difficult to enhance. No easy route up, once the limits have been reached.

Conclusion It lives in its own world, but this is the best database manager for non-specialists.

Inprise Visual dBase 7.01

Powerful and elegant, this is a database **for the developer.**

When you purchase Visual dBase you are buying into a family of Inprise products. At the core is the Borland Database Engine (BDE), shared by dBase, Delphi and Corel Paradox, and is also used as an add-on to the JBuilder Java product. Its closest equivalent is Microsoft's JET database engine, found in Access, Visual Basic and Microsoft Office, although Visual FoxPro does not use JET. The BDE has three elements. It is able to manage dBase and Paradox data through built-in drivers. Via the SQL Links add-on, you can also install native drivers for server databases such as Oracle. At last, you can access data through ODBC drivers. A database administrator lets you set up data sources that can be used from any other BDE application.

To get the best from the BDE it pays to use native drivers. There is a driver for Microsoft Access but this relies on JET already being installed and does not support all the features of Access databases. Like Microsoft, Inprise has extended the .DBF file format and made it incompatible with previous versions and incompatible with FoxPro, too, so sharing dBase data needs care. Inprise has recently announced the future direction of Visual dBase which is to be as a front-end tool for InterBase, the Inprise client-server database manager.

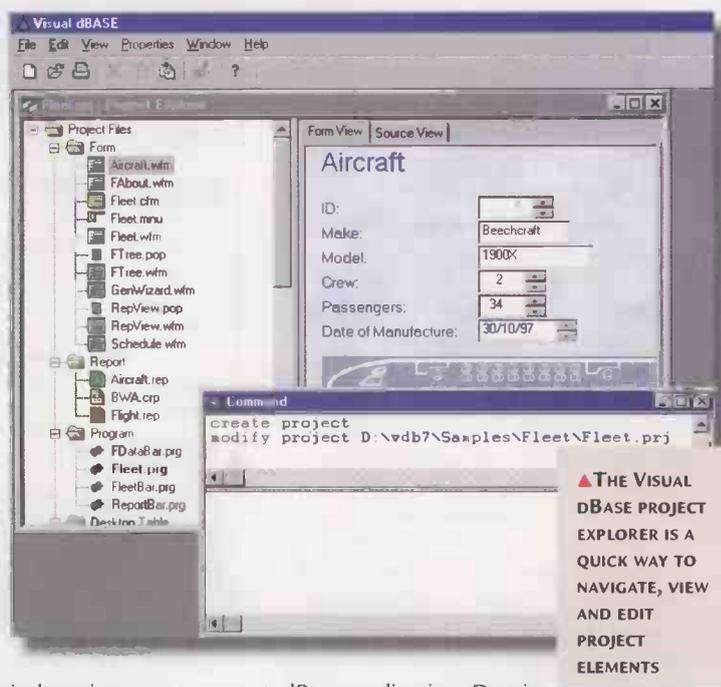
CASE STUDY Visual dBase

"Visual dBase is a serious programmer's tool. It will work equally with traditional desktop DBF and DB tables, and many client/server SQL systems. I use it as the interface to a server-hosted 600Mb multi-table InterBase database of technical information and it is nowhere near its limit. However, Visual dBase is still capable of producing a simple desktop application to manage the Xmas card list. There are no additional payments to distribute compiled executables. I do wish that the visual tools could be a little more tolerant of my programming errors. But nevertheless, when I clean up the code it is solid as a rock."

PAUL FRANKS

The dBase interface has several parts. The Navigator gives you a dBase-orientated view of a directory on your hard disk. The Project Explorer organises forms, reports, database tables and other elements into a unified project and the Command window gives a command-line interface to dBase as if you were still working in DOS. Each element, such as a form or report, has its own designer and there is a colour-coded source code editor and a full-featured debugger for checking your code. To use dBase, you might start by creating a new project. The project explorer then lets you add elements to it, for example, adding database tables, forms and reports. A tree view on the left shows all the parts of the project while a window on the right lets you view the current item. A right-click lets you open the item in its designer.

An interesting aspect of Visual dBase is the two-way tools. You can open a form or report either in a visual designer or as dBase code and switch seamlessly between the two. The language is fully object-oriented, although somewhat simplified in comparison to Java or C++. A great feature is its ability to create custom components, usually based on an existing dBase object. These can then be installed on a component palette for use in future projects. You can also use ActiveX controls. A web wizard lets you publish data to the web, either as a static report or by using CGI (see *Putting Data on the Web*, p227) to call into a Visual



dBase application. Despite the wizard, this is not instant publishing but requires considerable coding effort.

Visual dBase versus Visual FoxPro is a hard call. VdBase has a tidier and more responsive interface. It is a little lighter on system resources and benefits from two-way editing, encryption of DBF tables and support for Paradox data. Visual FoxPro has much stronger COM features, better ODBC support, and its dedicated .DBF database engine remains exceptionally fast. The truth is that developers using either product are unlikely to switch now.

PCW DETAILS



Price £292.58 (£249 ex VAT)

Contact Inprise 0118 932 0022

www.inprise.com

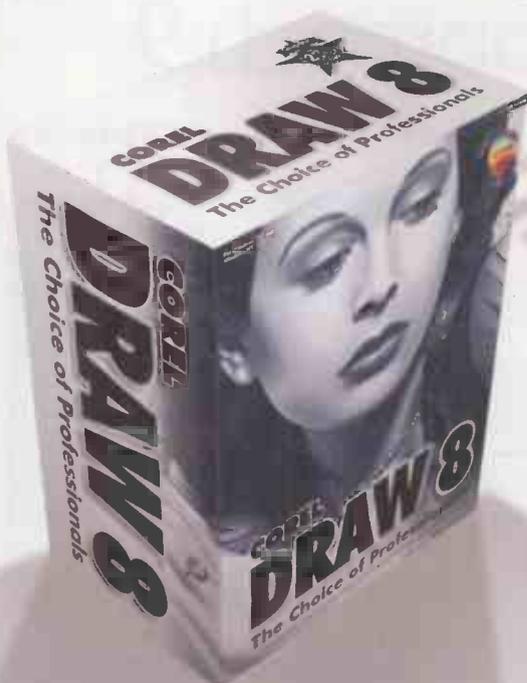
System Requirements Windows 95 or NT, 12Mb RAM.

Good Points Elegant, responsive interface. BDE gives database independence. Custom components promote code reuse.

Bad Points Yet another version of the .DBF standard. Weak COM support. Still requires a runtime library.

Conclusion For developers only, but this is the best dBase yet.

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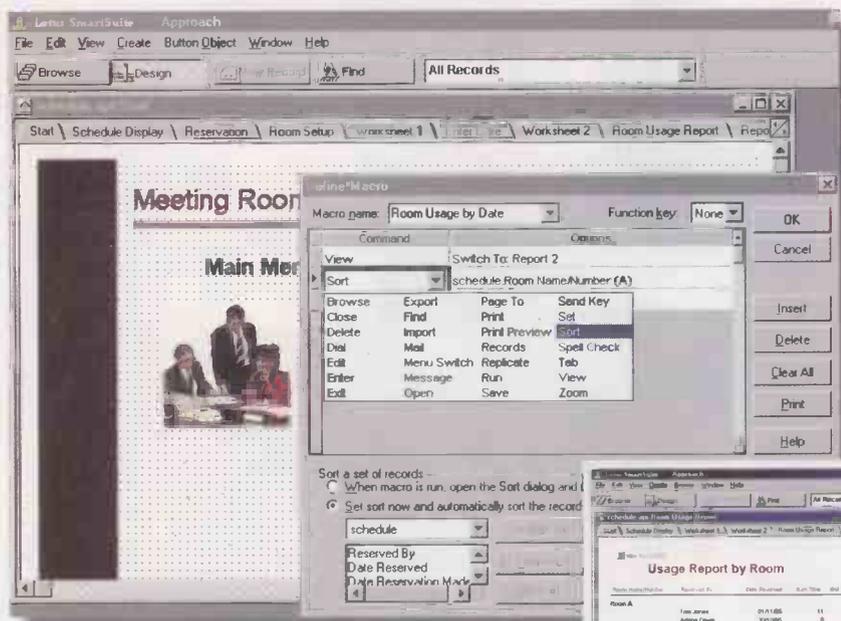
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Lotus Approach 9

Combines power and user-friendliness in a **good value** program.



Lotus has given Approach a SmartSuite look-and-feel and added the LotusScript programming language but fundamentally it has not greatly changed. There are very few updates in SmartSuite Millennium, suggesting that Lotus is not investing much development in Approach at present. From the user's perspective, Approach looks like a single, large tabbed dialog. Instead of forms and reports appearing in separate windows, they each have a tab, making it easy to navigate. A toolbar has four key buttons — Browse, for viewing and editing the data; Design, for editing the current form or creating a new one (all the usual tools are available); New record; and Find, which lets you do a

query-by-form: with this type of query, you enter values or wild-cards into the current form and Approach will find all the records which match those values. Even form letters, for performing a mail merge, appear as just another tab. It is all nice and easy and works well provided that the database is not too ambitious. Creating a database is simple, too. By default the format used is .DBF, compatible with dBase IV. You enter field definitions in a dialog, with options including validation formulae, serial number fields, default values and more. You can join tables using a graphical dialog but at this point you need to know a bit about relational databases. There are a few application templates and quite a number of table templates, the latter being less useful since they do not set up joins, which are the hardest part of database design.

A clever thing about Approach is that although it works with standard .DBF tables, these have extra features when used with the program, thanks to a container file with an .APR extension. Provided that you only access the data through this file, all the extra features

◀ YOU CAN DEFINE MACROS USING THIS POINT-AND-CLICK DIALOG, OR USE THE FULL LOTUSSCRIPT LANGUAGE TO CREATE SCRIPTS
 ▼ APPROACH APPLICATION USES TABBED LAYOUTS TO PRESENT DATA ENTRY FORMS AND REPORTS. THE TABS CAN BE HIDDEN FOR A MORE CONVENTIONAL WINDOWS LOOK

work. There is also an SQL assistant, a series of dialogs to help define a query on a server database through a PowerKey or ODBC, including a driver for Lotus Notes. For web data sharing, you can print from Approach as a jDoc to render the data in Java, but there is no easy way to publish dynamic data. Approach possesses a good combination of power and user-friendliness but there are problems. This makes it hard to recommend it for major projects. The tabbed interface is inflexible and limits you to only one way of implementing a

database front-end. Some operations cause the form contents to flash as the screen is updated.

There are extensive ActiveX features, but there were several crashes when trying to insert controls onto a form. It looks as if Lotus intended to add the ability to host JavaBeans on an Approach form, as there is an intriguing reference to this in online help but it has not yet been implemented.

CASE STUDY Lotus Approach 9

"I use Approach extensively as an analysis tool and for knocking up prototypes. I also use it to help clean up data, where its ability to read all sorts of sources and show them side by side is a great advantage. I am not a programmer, so the ease of use and facility to create macros without learning a heap of techno syntax is a great help to me. It is extremely good for what it does and it is very cheap!"

JERRY STOCKBRIDGE

PCW DETAILS



Price £45.83 (£39 ex VAT)

Contact Lotus 01784 455 445

www.lotus.co.uk

System Requirements Windows 95 or NT, 16Mb RAM.

Good Points Uses standard file formats. Easy, tabbed, interface. Adds strong features to .dbf tables.

Bad Points Inflexible design. Proprietary index format. Screen flashes during updates.

Conclusion Good value, but not suitable for advanced projects.

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THEIR WAY



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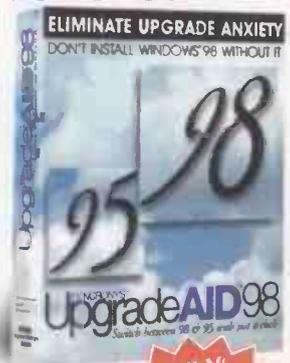
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Microsoft Access 97



A complex product that still turns **beginners into wizards.**

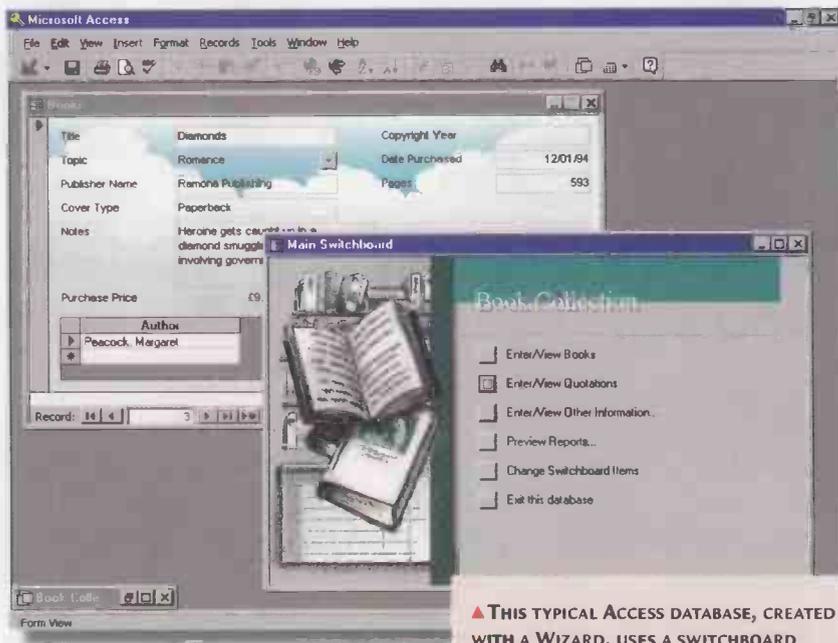
The basic design of Access has not changed since it was first released in 1992. It is an elegant design that has worn well. It uses a database container, a single file that stores not only your data but also the forms, reports and program code that enables you to make use of the data. There is a tab for tables, queries, forms, reports, macros and modules. To create a new element, you first select the tab, then click the New button. For existing elements you can choose Open or Design. Another important feature is the numerous wizards. For example, if you choose to create a new form, you are offered a choice of wizards to create a form automatically based on your chosen options. There is a range of templates for common database tables such as customers, products and expenses, or for personal tables like recipes, plants, books and photographs.

Access was designed to use SQL, and the product mimics the features of a server database. For example, you can define users and groups and set permissions at various levels. It is nevertheless a file-sharing database (see *Database Tiers*, p227) and not suited to use on large networks. You can overcome this limitation by connecting to a server database through ODBC. There is rich support for developers, with Visual Basic for Applications built in and a runtime version available for licence-free distribution.

CASE STUDY Access 97

"Access provides a user-friendly but powerful development environment for rapid prototyping. I like the data-bound objects such as list controls, graphs, forms and reports, the query grid which makes it possible to easily design and manage very complex queries, and the handling of external data sources as if they were native. Support for OCX components is a tad flaky and I would like VBA language extensions to handle printing, email and common dialog issues. At the moment, Windows API functions have to be used."

MUSA KHAN
MANAGEMENT CONSULTANT



▲ THIS TYPICAL ACCESS DATABASE, CREATED WITH A WIZARD, USES A SWITCHBOARD FORM AS A MENU TO REACH OTHER FORMS AND REPORTS

This is a highly complex product that hides its difficulty behind an array of wizards and tools that allow novices to achieve a lot without programming. It should come with a health warning that if you do run into problems there is a mountain of learning to do before you will be able to solve them. Links to the rest of Office are good and the native .MDB data format is widely used by other applications. The query builder is superb and lets you switch seamlessly between SQL code and a visual designer.

The main problems with Access, complexity aside, are the several different and incompatible versions of the MDB data format and the fact that the default application style, based on a switchboard form giving access to multiple overlapping windows of data, is neither the best nor the easiest to use. In skilled hands, both these issues can be overcome. This is a powerful and complete product that has won its market share on quality, not just by virtue of being within Office.

What's new in Access 2000? The forthcoming Access is fully integrated with SQL Server. You have always been able to attach SQL tables to an Access database, but Access 2000 connects via OLE DB without using JET, its internal

database engine. Access also has new tools to manage SQL Server databases, and a cut-down SQL Server will come in the box. Another major new feature is the ability to create and edit Data Access Pages — essentially an HTML version of an Access form. This makes it easy to put live data connections on a corporate intranet. Data Access Pages use ActiveX controls, so this is mainly a technology for Internet Explorer and intranets rather than the worldwide web.

PCW DETAILS



Price £351.32 (£299 ex VAT), or bundled with Microsoft Office Professional.

Contact Microsoft 0345 002000
www.eu.microsoft.com

System Requirements Windows 95 or NT, 16Mb RAM.

Good Points Beginners can get real work done with Access. Lots of advanced features. Developer edition provides free runtime licence.

Bad Points A complex product. Bewildering once it runs out of wizards. Depends on COM, which can cause strange errors. Default applications are awkward to use.

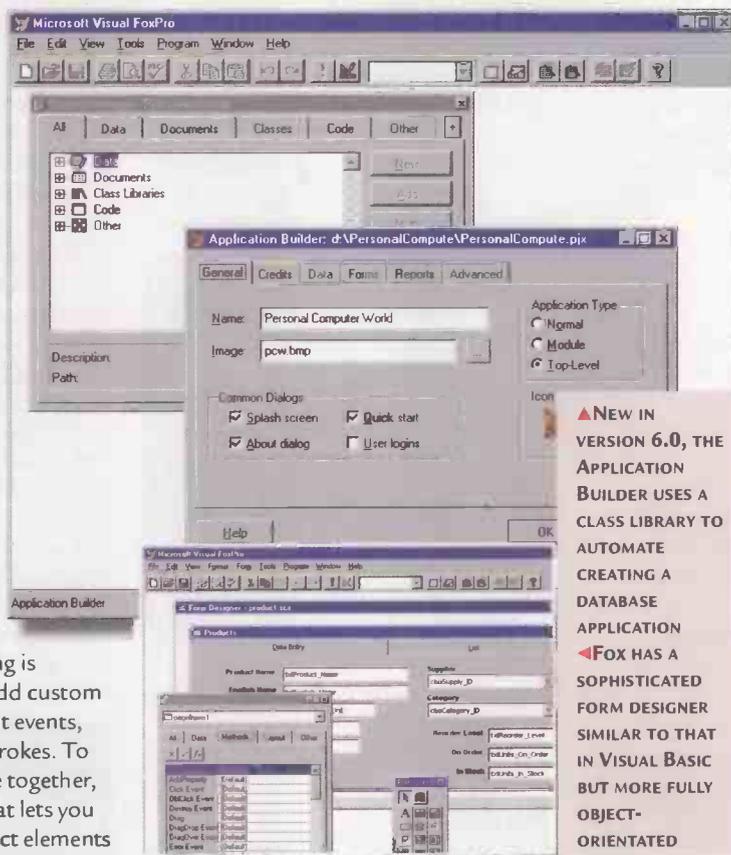
Conclusion An ambitious product that appeals to a range of people, from novice to expert.

Microsoft Visual FoxPro 6.0 I

Fast data handling and a powerful tool in the right hands.

Since version 5.0, FoxPro has been bundled with Visual Studio as a developer product. There are wizards for creating tables, building queries, forms and reports, and mail-merge to Word, but FoxPro is not designed as an interactive tool. Its aim is to create applications, custom solutions that can be used by others who may not even realise they are using FoxPro. To work with FoxPro, you begin by defining a database. Once tables and fields are defined, you can create database forms. The form designer provides a rich set of tools including ActiveX controls if required. Everything is programmable, so you can add custom code for hundreds of different events, such as button clicks or keystrokes. To bring all your forms and code together, there is a project manager that lets you easily navigate between project elements and add new ones, such as reports and menus. When you are done, you can build the project into an application that runs within FoxPro or standalone with a runtime library.

The universality of FoxPro is compromised because Microsoft has extended the format, adding a container file. This gives features like table-level



▲ NEW IN VERSION 6.0, THE APPLICATION BUILDER USES A CLASS LIBRARY TO AUTOMATE CREATING A DATABASE APPLICATION
 ◀ FOX HAS A SOPHISTICATED FORM DESIGNER SIMILAR TO THAT IN VISUAL BASIC BUT MORE FULLY OBJECT-ORIENTATED

The language itself has been improved, and a component gallery makes it easier to manage and reuse objects and ActiveX controls. For web publishing, you can either use a wizard to generate static data, or build a FoxPro database server to be called from a web page to deliver dynamic data. You can also create Active Documents, forms that can run inside Internet Explorer like an ActiveX control.

FoxPro has no lack of power, but there are some irritations. The report writer and menu designer have not been properly brought into the object model. The language has no strong typing and no equivalent

to Visual Basic's Option Explicit, which can cause errors. What is harder to fix is the steep learning curve, the huge runtime library, and the fact that FoxPro falls between the interactive products like Access and tighter developer tools like Delphi, PowerBuilder or even Visual Basic. The result is that Fox developers will continue to do great things with their chosen tool, and wonder why no-one else bothers.

The result is that Fox developers will continue to do great things...

validation, enforced referential integrity, and triggers, code that executes automatically when records are inserted. Only FoxPro can properly read this extended data format, although an ODBC driver is provided. Alternatively, you can still work with old-style data. The original dBase language has also been greatly extended and is now unique to FoxPro, including full object orientation. Developers can save time by building up a library of reusable FoxPro objects. FoxPro also works well with remote data, and you can easily migrate from native FoxPro format to a client-server setup.

New features in version 6.0 of FoxPro include a class library called an application framework, along with an application wizard to get you started.

CASE STUDY Visual FoxPro

"I grew up on previous versions of Fox. Developers prefer the Object Orientated Programming capabilities of FoxPro — Visual Basic doesn't have inheritance — as well as the fast data handling. The ability to use SQL to build an updatable view has opened up many new vistas. Most developers build or acquire a framework that allows projects to be completed in a fraction of the time that structured programs took. I'd like to see faster screen handling and a better editor."

GERRY HUGHES

PCW DETAILS

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www.eu.microsoft.com

System Requirements Windows 95 or NT, 16Mb RAM.

Good Points Fast data processing. Powerful object model and language. Good connectivity to server data.

Bad Points Steep learning curve. Unique data format and language. Huge runtime library.

Conclusion Not for beginners, but performs well in expert hands.

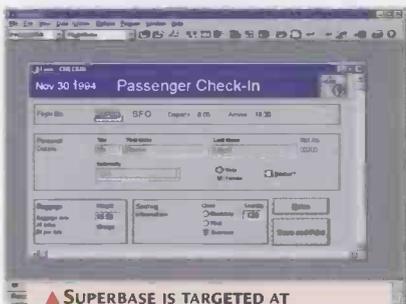
Exploring other options

The big boys **aren't the only ones** producing usable database software.

The number of products in the Windows database market has if anything diminished over the last few years, with smaller vendors finding it tough to keep up with the industry giants, particularly with the dominance of Microsoft's Office suite. Nevertheless, there are still other options.

Superbase 3.5

Superbase 3.5 is the latest version of a famous British database manager which, in the days of the Atari ST, was the best around. After changing hands several times it is now in the hands of its own developers, who have just released version 3.5. This runs on 16-bit Windows, and the new version supports HTML export, the Euro symbol, and improved forms with split windows and the fashionable flat-look toolbars. Superbase is positioned as a developer's database, but its most important market is upgrades from its existing base of



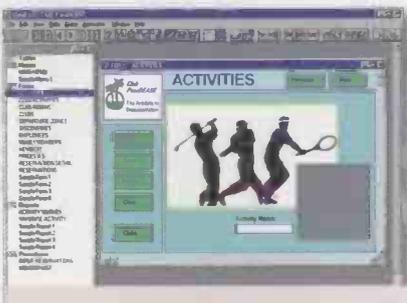
▲ SUPERBASE IS TARGETED AT DEVELOPERS, BUT THERE IS NO SUPPORT FOR ACTIVE X CONTROLS

users. Future plans include a cross-platform version. The strength of Superbase is that it is lightweight, running well on modest hardware, and handles image libraries well. On the downside, it lacks polish, and needs a proper version for Windows 95 and NT if it is to attract new customers.

DataEase

Windows snarled up DataEase, particularly as the company could not agree with its main worldwide distributors on whether to port the DOS version with DQL (DataEase Query Language) or create a new client-server system. In the end both were done, but

too late to take a major slice of the Windows market. The products are still available and include DataEase 5.0, a 16-bit product with DQL compatibility, and DataEase Net Plus, which has developed into an interesting database-independent application builder with internet deployment options. There are

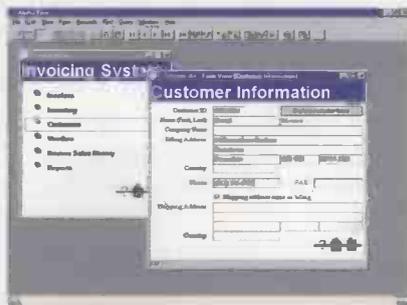


▲ STILL GOING: DATAEASE 5.13 IS A 16-BIT PRODUCT SUPPORTING THE OLD SQL QUERY LANGUAGE

migration tools for existing DataEase DOS applications, but the upgrade path is not a smooth one.

Alpha 5

This is a product aimed at the middle ground, being better suited to developers than end-users, but easier to use than the high-end database products. A nice feature is an RTF field type, allowing you to store formatted text in a standard compatible with the Windows clipboard. This is not a fully up-to-date product though, and lacks support for ActiveX controls,

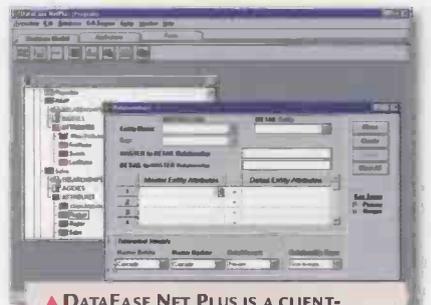


▲ ALPHA FIVE VERSION 3 IS AIMED AT THE MIDDLE GROUND, BETWEEN END-USER AND HIGH-END DEVELOPER TOOLS

ActiveX automation, and ODBC. A new version 4.0 is coming shortly, but was not available in time to be evaluated for this survey.

Specialist database tools

While the focus of this feature is on all-purpose database managers, there are many more specialist products that may fit a specific need better. For example, if it is contact details you are storing, there are a range of contact managers such as ACT, Goldmine or Tracker which have built-in features for handling contact history, reminders, meeting schedules and more. PIMs like Organizer and Outlook are ideal as everyday address books, and each of these can be linked to a back-end data store such as Lotus Notes or Microsoft Exchange as a corporate tool for managing messages, contacts and schedules. If it is accounting information, Sage, Quicken or Microsoft Money will be a better investment than trying to build your own system in Access or FileMaker. For managing free-form text or other



▲ DATAEASE NET PLUS IS A CLIENT-SERVER DESIGN TOOL WHICH CONNECTS TO ANY ODBC DATA SOURCE

unstructured information, a system like AskSam, from AskSam Systems, is tailor-made for the job.

PCW DETAILS

Superbase 3.5

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Contact SuperBase Developers 01223 365550 www.superbase.com

DataEase 5/Net Plus

Price DataEase 5 £346.63 (£295 ex VAT);

DataEase Net Plus £2291.25 (£1950 ex VAT)

Contact Sapphire 0171 539 0800

www.dataease.co.uk

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Overall Winner Comparison Review against: Umax, Epson, Mustek, & Trust. February 1997 Issue of Computer Buyer

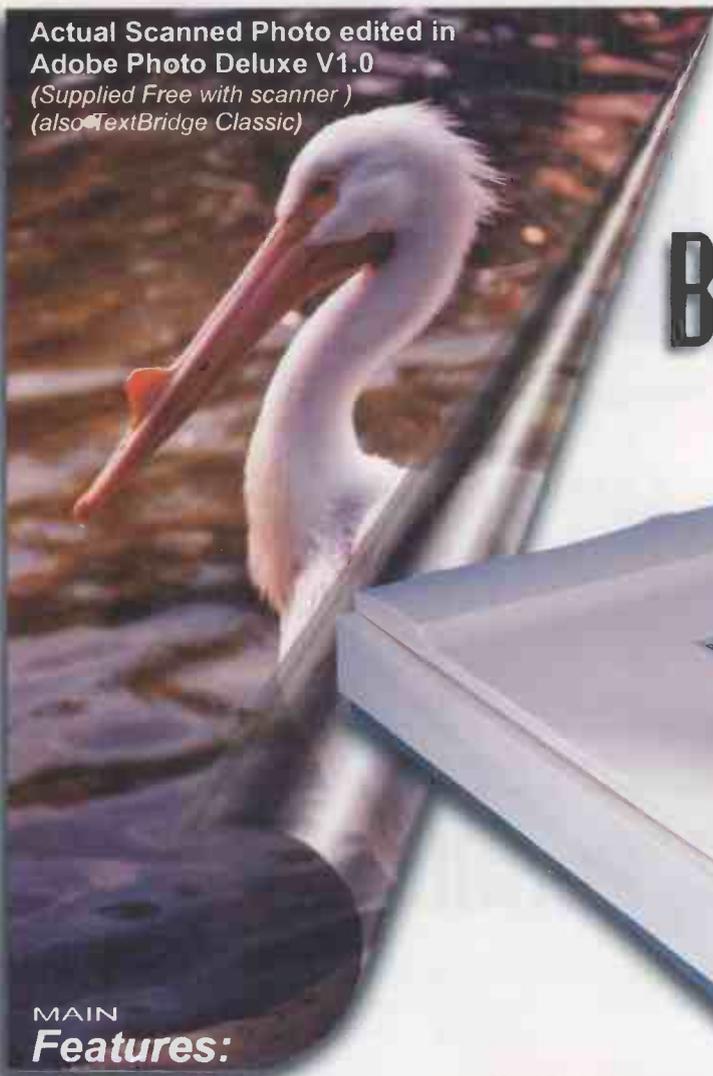
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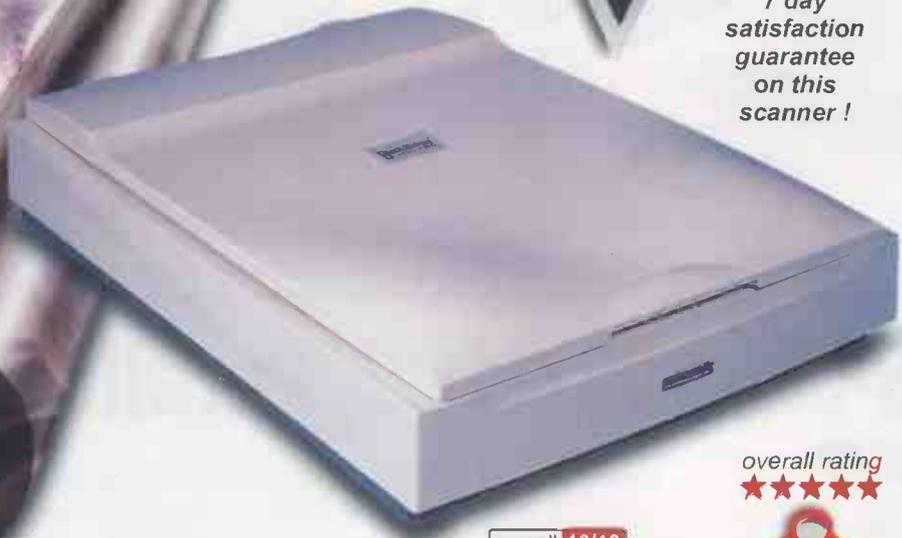
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overall 10/10



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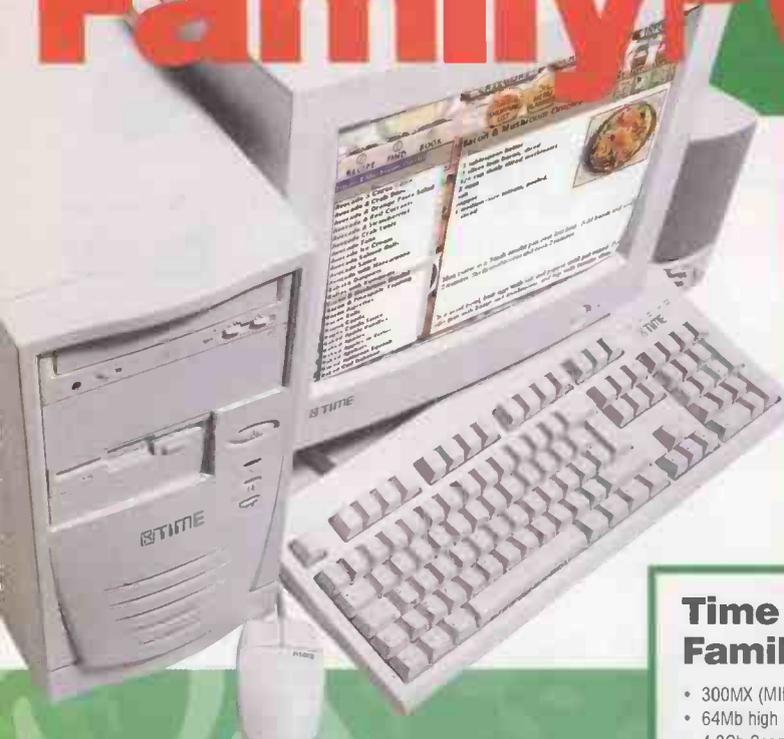
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Putting data on the web

Undoubtedly a **good idea**; here's how to go about it.

There are at least four good reasons for publishing data to the web. First, it publishes information to the widest possible audience. Second, it enables access to data from different computer platforms. Third, it centralises the database application so that you can fix bugs and update the program logic on the server. And fourth, everyone uses web browsers so you will have less training to do. Great idea, then; but how easy it is in practice depends on several factors. If you only have a dial-up

connection and want to put data on your web site, you are limited to publishing static data. This works for smaller databases, and can be kept up-to-date by automating the export and upload process. The data will be read-only, and publishing large databases this way is not practical.

Dynamic database publishing lets users log-in, query and update live data. FileMaker Pro and Paradox achieve this by having a built-in web server. It is very

effective for simple data access, but less useful when you want to integrate the data with a large, content-rich site.

There are alternatives like CGI (Common Gateway Scripts), Microsoft's Active Server Pages, or having a Java applet accessing data through JDBC (Java Database Connectivity). Check out tools to simplify developing these solutions like Microsoft's Visual InterDev, Allaire's Cold Fusion, haht software's hahtsite, and tools from Sybase and Inprise.

Database tiers

There's more than one way to **construct a database system**.

Even with simple systems, it helps to think of a database system as containing at least three elements:

- **the front-end** or client, with all the required forms, fields and menu options;
- **the database engine**, which does the work of querying the database and feeding back results to the client; and
- **the data itself**, stored on disk in a format that the engine understands. A simple Access network would have the data on one machine, while each

workstation ran its own copy of Access, reading the data across the network. This is called **file sharing**. There are several snags with this setup. Each workstation has to be powerful enough to run Access, lots of data has to be transferred across the network, and any change to the application means updating all the workstations individually. With a client-server system, the database engine is moved to the server. Network traffic is reduced, since

only the results of queries need to be transferred. Client-server systems can support many more users than file-sharing applications.

The next step is to insert another tier into the system. The "middle tier" contains the logic of a database application. The client can now be very simple indeed and work well even over dial-up links. **Multi-tier systems** are more flexible and powerful, but more complex to develop.

The jargon, explained

When a **record** is really an entity. Or is it a row?

Database vendors have spread a lot of confusion by using different words to describe the same things. In this group test we have used the same basic terminology throughout to make it easier to compare products.

- **A record** is a reference to one item in a table, for example a customer in a customer table. Records are sometimes called rows, because they are similar to rows in a spreadsheet table, or entities.
- **A field** is a single piece of information about a record. Fields are sometimes called properties or attributes.

- **A table** is a collection of records.
- **A database** is a collection of tables. For example, an order processing database might contain tables for orders, products and customers. Unfortunately Ashton-Tate, creator of dBase, called tables databases. Some products, including the current Lotus Approach, still do.
- **A query** specifies certain criteria with which you want to search the database. Queries can span more than one table. The results of a query look like a temporary table, and may be

read-only or read-write. These results are sometimes called views, cursors, result sets, or recordsets.

- **SQL** stands for Structured Query Language. It is an industry-standard way of defining queries, and also sending commands to databases to create tables or delete records.

- **ODBC** stands for Open Database Connectivity. It lets applications query any database for which there is an ODBC driver. These are available for most databases, although the quality of drivers is variable.

Editor's Choice

Mature software that is the best all-round choice.

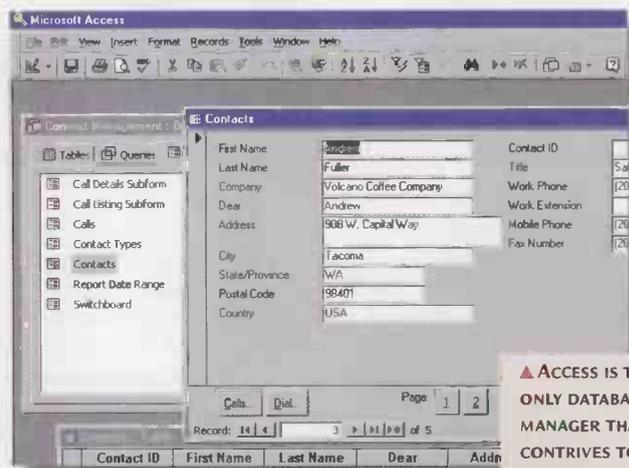
All the main products in this group test have been around for at least five years, and in some cases twice that long. In some respects the Windows database market looks tired, with few vendors wanting to take on Microsoft on its home ground, and putting their energy into cross-platform distributed database technology instead. This is mature software, and each one is more than able to deal with everyday data management. The most striking differences are in the area of ease of use, particularly for non-specialists, integration with other applications, and the ability to scale up to client-server or multi-tier systems accessible from the web or across different platforms.

The outstanding product in the group is **Microsoft Access**, and so is our **Editor's Choice**. It is approachable for beginners, and will scale a long way

before running out of steam. The wizards are comprehensive, it has an outstanding query builder and good Office integration, and there are routes to client-server, web deployment, and distributed applications. But even Access has its dark side, and the industry has not yet produced a relational database that is easy and safe for novices. Nevertheless, this is the best all-round choice.

If ease of use is the priority, **FileMaker Pro** is **Highly Commended**. It succeeds in avoiding database jargon and providing a solid, understandable tool for data management. It offers instant web deployment which is fantastic if it

meets your needs as-is, but is hard to extend and customise. FileMaker's weak point is poor integration with Windows. Visual dBase, Visual FoxPro and Paradox are better suited to developers than end-users. Visual dBase is nicer to use, but the Fox is more powerful. If pressed, I would point developers to Visual dBase, for the sake of its more elegant working environment. Serious developers should also look at other tools, including Visual Basic, Delphi and PowerBuilder.



▲ ACCESS IS THE ONLY DATABASE MANAGER THAT CONTRIBUTES TO REACH ALL THE WAY FROM END-USERS TO DEVELOPERS



Table of features

PRODUCT	ACCESS 97	APPROACH 9	FILEMAKER PRO 4	PARADOX 8.0	VISUAL DBASE 7	VISUAL FOXPRO 6
CONTACT	MICROSOFT	LOTUS	FILEMAKER INC	COREL	INPRISE	MICROSOFT
Price ex VAT	£299.00	£39.00	£169.00	£65	£249.00	£399.00
URL	www.microsoft.com	www.lotus.co.uk	www.filemaker.co.uk	www.corel.com	www.inprise.com	www.microsoft.com
Telephone	0345 002 000	01784 455445	0845 6039100	0800 973 189	0118 932 0022	0345 002 000
Programming Language	VB	LotusScript	x	ObjectPal	xBase	xBase
BLOB support	✓	✓	✓	✓	✓	✓
OLE automation client	✓	✓	x	✓	✓	✓
OLE automation server	✓	✓	x	✓	x	✓
ActiveX client	✓	✓	x	✓	x	✓
Referential integrity	✓	✓	✓	✓	✓	✓
Stored procedures	x	x	x	x	x	✓
Transactions	✓	x	x	✓	✓	✓
Macro scripting	✓	✓	✓	x	x	✓
ODBC driver/client	✓/✓	x/✓	x/x	✓/✓	✓/✓	✓/✓
Charts	✓	✓	x	✓	x	✓
Report designer	✓	✓	✓	✓	✓	✓
Query by form	✓	✓	✓	x	x	x
Runtime version	✓	x	✓	✓	✓	✓
Graphic fields	via OLE	✓	via OLE	✓	✓	via OLE
Counter fields	✓	✓	✓	✓	✓	x
Encrypted data	✓	x	✓	✓	x	x
HTML Export	✓	✓	✓	✓	✓	✓
Web server included	x	x	✓	✓	x	x

200MMX PC SYSTEM

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including VAT

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 - 1.44MB 3.5" Floppy Disk Drive
 - 1MB-4MB Video (Using System Memory)
 - 14" SVGA Monitor (3yr Warranty)
 - Win 95 Keyboard & Serial Mouse
 - Mini Tower/Desktop Case
 - 24X CDROM
 - 16Bit Sound Card (Onboard)
 - 80W (PMPO) Speakers
 - Windows 98, MS Works

CPU	200	225	233	266	300
Win Chip	£399 Inc VAT	£425 Inc VAT	-	-	-
MX	£86	-	£450 Inc VAT	£475 Inc VAT	£499 Inc VAT

3.2GB HDD Add £15.00, 4.3GB HDD Add £25.00, 6.4GB HDD Add £55.00, Monster 3DFX Add £70.00
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- 1.44MB 3.5" Floppy Disk Drive
- 4MB 3D Video Processor (On Board)
- 14" SVGA Monitor (3yr Warranty)
- Win 95 Keyboard & PS/2 Mouse
- Mini Tower/Desktop Case
- 24X CDROM / 16BR Sound Card
- 200W (PMPO) Speakers
- Windows 98, MS Works V4.5

CPU	266	300	333	350	400
intel	£499 Inc VAT	£550 Inc VAT	Call	-	-
pentium II	£575 Inc VAT	£625 Inc VAT	£675 Inc VAT	£750 Inc VAT	£900 Inc VAT

64MB SDRAM Add £32, 4.3GB HDD Add £18, 6.4GB HDD Add £40, Monitor: 2 3DFX Add £125
15" Monitor Add £25, 17" Monitor Add £125, 56k Diamond Supra Pro Modem Add £45

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- 14" SVGA Monitor (3yr Warranty)
- 24X CD ROM / Yamaha XG PCI Sound Card
- 200W (PMPO) Speakers
- PS/2 Keyboard & Mouse
- ATX Midi Tower/Desktop Case
- Windows 98, MS Works V4.5

CPU	266	300	333	350
AMD K6	£625 Inc VAT	£650 Inc VAT	-	-
AMD K6	£650 Inc VAT	£675 Inc VAT	£725 Inc VAT	£795 Inc VAT

64MB SDRAM Add £32, 4.3GB HDD Add £30, 6MB Matrox G200 Add £30
15" Monitor Add £25, 17" Monitor Add £125, 56k Diamond Supra Pro Modem Add £45

EPSON Stylus 400
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ONLY **266MHz**
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including VAT

intel® Based System Solutions

VALUE proII MEDIA
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- Intel Pentium II 266MMX CPU & Heatsink
- Intel 440EX M/board (66MHz FSB)
- 32MB SDRAM 10ns
- 4.3GB Ultra DMA Hard Disk
- 1.44MB 3.5" Floppy Disk Drive
- 2MB ATI Rage Pro AGP
- 14" .28dot Pitch SVGA Monitor (3yr Warranty)
- 24X CD ROM / YAMAHA XG PCI Audio
- 200W (PMPO) Speakers
- PS/2 Keyboard & Mouse
- uATX Mini Tower Case
- Windows 98, MS Works V4.5

intel inside Pentium II
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including VAT

All Prices Include VAT (17.5%)

P II 300 Add £50, P II 333 Add £100

proMEDIA
P II 300MMX PC SYSTEM

- Intel Pentium II 300MMX CPU & Heatsink
- Intel 440BX M/board (100MHz FSB)
- 64MB SDRAM PC100
- 6.4GB Ultra DMA Hard Disk
- 1.44MB 3.5" Floppy Disk Drive
- 4MB ATI Expert@Play or 4MB DIAMOND Viper
- 15" .28dot Pitch SVGA Monitor (3yr Warranty)
- 32X CD ROM / CREATIVE AWE 64
- 300W (PMPO) 3D Speakers
- PS/2 Keyboard & Mouse
- ATX Midi Tower/Desktop Case
- 56k V.90 Voice/Fax Modem BABT Approved
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intel inside Pentium II
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All Prices Include VAT (17.5%)

P II 333 Add £50, P II 350 Add £125
P II 400 Add £275

proMEDIA+
P II 350MMX PC SYSTEM

- Intel Pentium II 350MMX CPU & Heatsink
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- 128MB SDRAM PC100
- 8.4GB Ultra DMA Hard Disk
- 1.44MB 3.5" Floppy Disk Drive
- 8MB ATI Expert@Play or 8MB matrox G200
- 17" Iiyama A701GT Vision Master Pro Monitor
- DVD ROM / CREATIVE AWE 64 Gold
- Labtec 2612 Sub Woofer & 3D Speakers
- PS/2 Keyboard & Mouse
- ATX Midi Tower/Desktop Case
- 56k V.90 Voice/Fax Modem BABT Approved
- Windows 98, MS Works V4.5

intel inside Pentium II
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P II 400 Add £150, P II 450 Add £325

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266MHz MobileOffice

Incredible specification with **crisp, sharp, TFT, colour screen**; a massive **64Mb RAM** memory; fast **4.1Gb** hard disk storage; full **24x CD** multimedia; the latest Intel **266MHz** processor and Windows 98:



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Top Notebook spec

266 MHz Processor

Intel's mobile 266MHz Pentium processor with MMX™ Technology for the best performance in a notebook. 233MHz and Ultimate 300MHz K6 models also available.

64Mb RAM

Massive 64Mb RAM is standard and is twice that of most leading brand notebooks and upgradeable to a massive 128Mb. The 300MHz model comes as standard with 128Mb RAM.

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Large 4.1Gb hard disk with Ultra DMA interface connection delivers twice the speed and gives you lots of storage space and future-proofness.

Time 266 MobileOffice™

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- 64Mb RAM
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- Built-in speakers & microphone
- 512k high performance cache
- Doze, sleep and suspend modes
- Microsoft Windows® 98
- FREE Over £800 of CD Software bundle including Lotus SmartSuite Millennium, GSP Home and publishing suite, IBM ViaVoice Executive, Norton AntiVirus
- Laplink software included (select appropriate cable)



TFT Colour Screen

Superb bright 12.1" TFT colour screen with 64,000 colours delivers visible area comparable to a full CRT monitor. Why consider cheaper dual scan or HPA screens when you can have TFT.

24x CD-ROM

Fast 24x CD multimedia with 3D wavetable sound, speakers and microphone all integrated into the notebook.

Speech Recognition

Talk to your notebook with supplied IBM ViaVoice Executive speech recognition software which allows you to command Windows 98 and dictate into applications.

Advanced Features are Standard

- EZ glide Touch pad pointing device and 84 key full feature keyboard
- Ni-MH Battery with upto 2 hour life and AC Power adapter/charger 100 to 240v auto-sensing
- Intel 430TX fully Millennium compliant system board
- All standard Ports including two USB Ports, TV-Out, midi/joystick, External SVGA, Zoomed video port, expansion bus, serial, parallel, infra-red port, PS/2 mouse, joystick/midi, 2 PCMCIA slots.
- Dimensions 297 x 230 x 48 mm; weight 6.6 lb.

Product codes: 266 (301)

233MHz model

Available at £1149 + VAT = £1350.08

Product code: 233 (300)

300MHz model

As above but with 128Mb RAM and faster AMD K6 300MHz processor with MMX technology £1299 + VAT = £1526.33

Product code: 300 (302)
Please check availability prior to order

Options

- 56k fax/data/Internet PCMCIA modem £99 + VAT = £116.33
- Carry case £69 + VAT = £81.08
- Special Laplink cable £call

Software included



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Microsoft Autoroute Express 98, PC joystick, PC headset microphone, 5 top games (RRP £145) and over 13 superb multimedia titles (RRP £325) at only £99 + VAT = (£116.33 inc. VAT) extra.

Product codes: 233 (303)
266 (304)
300 (305)



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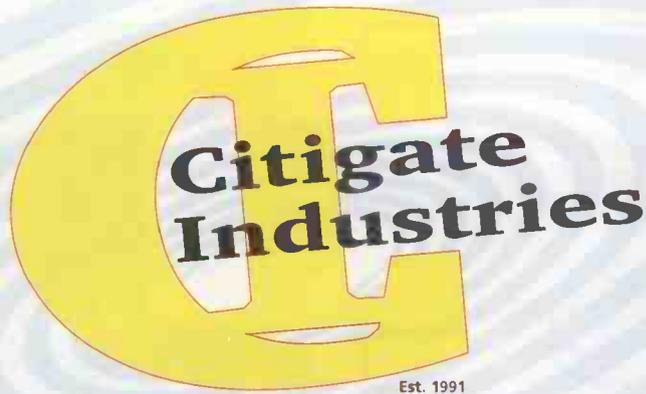
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Typical Finance Example Exec model cash price £1000 inc. VAT and delivery. Pay nil deposit and nothing for 12 months. After 12 months pay the total price (£1000). INTEREST FREE. APR 0% only if loan fully repaid within 12 months. Finance also available over longer period of 3 years at APR 26.8%. No deposit, no payments for 12 months and then 24 monthly payments of £85.73. Total price £1579.00. Finance is subject to status. Written details are available on request from Granville House, Blackburn Rd, Simonstone, Burnley, Lancashire, BB12 7GT Fax Number: 01282 77 07 01. Please telephone, fax or write. Send no money now. Inc VAT prices exclude and total prices include courier delivery charge which varies with destination; UK mainland (excluding Scottish highlands) £25 + VAT = £29.38. Prices, specifications and offers are subject to change, availability and our conditions of sale (copies available on request). Goods normally delivered within 5-7 days. All orders fulfilled within 28 days unless otherwise specified. Industry standard practice is to measure monitors using the CRT size. Actual viewing area can be approx 1" less. Depending on package, software applications are pre-loaded or supplied on CD with on-line help. Back-up CD available at extra cost. Pack shots are shown for illustration only. TV-out requires SCART connector on TV and appropriate cable. The Intel Inside logo and Pentium II are registered trademarks of the Intel corporation. Time is a registered trademark, Time we're on your side, Time Hourglass Logo and MobileOffice are Trademarks of Time Computer Systems Ltd. E&OE.

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1 Year 3 Years



Est. 1991

Millennium 1001

the expert view

"The after-sales package sounds too good to be true for a machine of this price"
COMPUTER SHOPPER May '98

"A great budget Laptop that's got a very neat design, good build quality and a very low price. With a TFT screen, it would be hard to fault...
...The Millennium has plenty going for it, particularly, the integrated floppy and CD-ROM drive. The Millennium is very sturdy. The plastic casing feels thicker than most, giving the impression of something a lot more expensive... When you combine these factors with the decent performance and the low price, many would be hard-pressed to justify buying anything more expensive."
May '98



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- Over 7 years' expertise in notebooks
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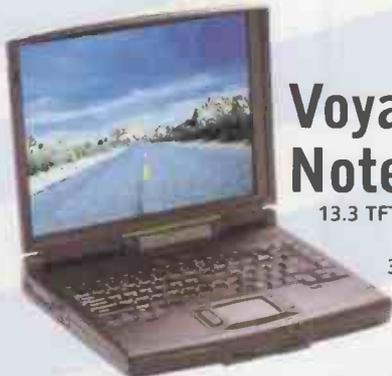
Millennium 1001

12.1 TFT SVGA, Intel MMX Pentium, 2Mb 32-bit Video, 32Mb RAM, 2.1Gb (exp. 5Gb) HD, from £945 + VAT



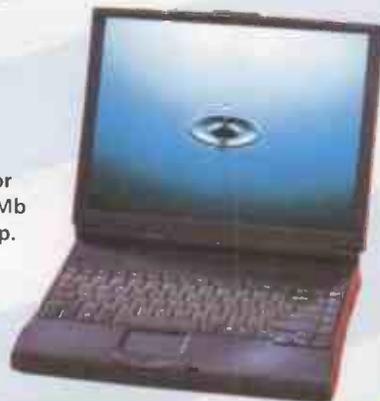
Voyager Note 2000

13.3 TFT XGA (exp. 14.1 TFT), Intel MMX Pentium, 4Mb 64-bit Video, 32Mb RAM, 2.1Gb (exp. 5Gb) HD, from £1,295 + VAT



Millennium 2000

14.2 TFT XGA, Intel MMX Pentium or Intel 266 MMO Mobile processor, 4Mb 64-bit Video, 32Mb RAM, 2.1Gb (exp. 5Gb) HD, from £1,599, VAT



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Questionnaire



WE KNOW FROM YOUR LETTERS AND EMAILS THAT, while many readers are home PC users, many of you make decisions

about how PC equipment is purchased for business and work purposes. Here at *Personal Computer World* we try to provide the information you need to make better business decisions — but we can only do that if we know what matters to you when you are choosing machines for business. You can help us provide the service you want by completing this questionnaire. And if an even better, more helpful *Personal Computer World* isn't a good enough reason on its own, we've got £200 of Eurostar vouchers to give away so that

you can whisk a friend or partner away for a special weekend. We are also giving away 50 *Personal Computer World* conference bags.

If you do not want to cut out the questionnaire, please photocopy it and send it to the address at the end of this survey [p237]. It doesn't need a stamp. The Eurostar vouchers will be given to the first name drawn out of the hat on 1st November 1998.

Your answers are confidential and your name will not be added to any mailing lists as a result of sending in this survey. If you don't want to enter the draw, then just leave the name and address blank — but please feel free to complete the questionnaire anyway.



1 Are you involved in your company's decisions about buying PCs?

- Yes ¹ - This questionnaire is for you. Please let us know your views.
- No ² - This questionnaire isn't really for you. But you can still fill it out and enter the draw if you want.

2 Do you authorise, recommend or specify your company's PC or PC-related purchases?

- I authorise purchases ¹ Please answer Q3
- I recommend purchases ² Please answer Q4
- I specify purchases ³ Please answer Q4

3a What is your annual PC equipment and software budget?

- Under £1,000 ¹
- £1,000 - £4,999 ²
- £5,000 - £9,999 ³
- £10,000 - £19,999 ⁴
- £20,000 - £49,999 ⁵
- £50,000 - £99,999 ⁶
- £100,000 - £250,000 ⁷
- Over £250,000 ⁸

3b Do you expect your budget for next year to increase, decrease or stay about the same?

- I expect the budget will increase next year ¹
- I expect the budget will decrease next year ²
- I expect the budget will be about the same next year ³

4 How often are you involved in decisions to purchase PCs for your company?

- Every week or two ¹
- About once a month ²
- Five or six times a year ³
- Three or four times a year ⁴
- Once or twice a year ⁵
- Less often ⁶

5 Which of the following are you planning to buy for business use in the next twelve months?

Hardware

- Network servers ¹
- Desktop ²
- Notebook ³
- Palmtop/PDA ⁴
- Laser printer ⁵
- Inkjet printer ⁶
- Scanner ⁷
- Modem ⁸
- 17" monitor ⁹
- 21" monitor ¹⁰
- Processor upgrade ¹¹
- Memory upgrade ¹²
- Storage ¹³
- Digital Camera ¹⁴
- Mobile phone ¹⁵

Services

- Internet access ¹⁶
- On line data ¹⁷
- Other (please specify) ¹⁸

Software

- Networking software (e.g. Windows NT) ¹
- Office suite ²
- Word processing ³
- Spreadsheets ⁴
- Graphics/DTP ⁵
- Finance/accounting ⁶
- Personal organiser/Scheduler ⁷
- Project management ⁸
- Database ⁹
- Telephone contact management ¹⁰
- E-mail or Internet related ¹¹
- Other (please specify) ¹²

6 How many PCs did your company purchase last year?

- None ¹
- Less than five ²
- 6-10 ³
- 11-20 ⁴
- 21-50 ⁵
- Over 50 ⁶
- Don't know/can't remember ⁷

CHOOSING PCs AND PC PRODUCTS

7 Do you have a company policy to always buy PCs and PC products from the same supplier or from an approved list?

Yes 1

No 2

IF YES: Which suppliers or manufacturers would you buy from? Please write the names of your top three approved suppliers in the space below.

8 When you are considering the choice of supplier of a PC or PC related equipment, what factors influence you in choosing one supplier over another? (We are assuming that there is a choice of suppliers, all of whom offer the basic spec required at similar prices.) Please indicate (i) the most important factor, (ii) the second most important factor, and (iii) the third most important factor by ticking **once** in each column below.

	(i) Most most important	(ii) 2nd most important	(iii) 3rd most important
Low price	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Reputation of supplier	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Speed of delivery	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
After-sales service	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Global presence	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Availability of specific brands	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Quality of service/product support	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Reputation of products	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Knowledge of business (user) requirements	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Location of supplier	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Installation support	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Previous business relationship	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Recommendation	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Full service vendor	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Other (please specify)	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3

9 IF PRICE IS A FACTOR (i.e. ticked at question 8): How do you find the cheapest available supplier?

Please tick all that apply

Compare advertised prices in a monthly IT magazine (e.g. PERSONAL COMPUTER WORLD)	<input type="checkbox"/> 1
Compare advertised prices in national newspapers	<input type="checkbox"/> 2
Compare advertised prices in the business press (e.g. The Economist)	<input type="checkbox"/> 3
Compare advertised prices on the Internet	<input type="checkbox"/> 4
Compare prices at a large outlet (eg PC World)	<input type="checkbox"/> 5
Ring round a number of suppliers for quotes	<input type="checkbox"/> 6
Rely on previous experience of suppliers	<input type="checkbox"/> 7
Personal recommendation	<input type="checkbox"/> 8
Delegate price comparisons to someone else	<input type="checkbox"/> 9
Other (please specify)	<input type="checkbox"/> 10

10 IF REPUTATION IS A FACTOR (i.e. ticked at question 8): Listed below are some of the things that go towards making up the reputation of PC suppliers. For each one, please indicate how important you think it is by ticking the appropriate box.

	Very important	Quite important	Not very important	Not at all important
Advertisements in specialist IT magazines (like PERSONAL COMPUTER WORLD)	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Advertisements in national newspapers	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Advertisements in the business press	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Advertisements on television/radio	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Brands available	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Suppliers' own web-sites	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Manufacturer or supplier literature and mailings	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Recommendations/test results in magazines like PERSONAL COMPUTER WORLD	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Recommendations from friends/colleagues/consultants	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Previous experience of the company	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Other (please specify)	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4

11 When you are considering the choice of products, what factors influence you in choosing one brand over another? (We are assuming that there is a choice of brands which offer a similar specification or function.) Please indicate (i) the most important factor, (ii) the second most important factor, and (iii) the third most important factor by ticking **once** in each column below.

	(i) Most important	(ii) 2nd most important	(iii) 3rd most important
Low price	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Reputation of products	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Speed of delivery	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Technical superiority/Innovation	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
After-sales service	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Compatibility with existing machines	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Global presence	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Low cost of ownership	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Reliability	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Installation support	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Upgradability	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Recommendation	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Full service vendor	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Other (please specify)	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3

12 IF PRICE IS A FACTOR (i.e. ticked at question 11): How do you find the cheapest available brand?

Please tick all that apply

Compare advertised prices in a monthly IT magazine (e.g. PERSONAL COMPUTER WORLD)	<input type="checkbox"/> 1
Compare advertised prices on the Internet	<input type="checkbox"/> 2
Compare prices at a large outlet (e.g. PC World)	<input type="checkbox"/> 3
Read reviews/comparative tables in the PC press	<input type="checkbox"/> 4
Ring round a number of suppliers for quotes	<input type="checkbox"/> 5
Personal recommendation	<input type="checkbox"/> 6
Delegate price comparisons to someone else	<input type="checkbox"/> 7
Other (please specify)	<input type="checkbox"/> 8

13 Listed below are some of the factors that might lead people to change the brand of PC or PC related products that they buy. Please tick all of the factors that you think might affect you.

Press advertisements	<input type="checkbox"/> 1
Poster/outdoor advertising	<input type="checkbox"/> 2
Television/Radio	<input type="checkbox"/> 3
Word of mouth	<input type="checkbox"/> 4
Reviews and lab tests	<input type="checkbox"/> 5
Price/value for money	<input type="checkbox"/> 6
Product literature/direct mail from manufacturer	<input type="checkbox"/> 7
Design and technology	<input type="checkbox"/> 8
Reputation	<input type="checkbox"/> 9
Web presence	<input type="checkbox"/> 10
Availability of product	<input type="checkbox"/> 11
Personal experience	<input type="checkbox"/> 12
Other (please specify)	<input type="checkbox"/> 13

YOUR WORK

14 Is your job principally concerned with IT?

Yes - my main work area is IT	<input type="checkbox"/> 1
No - my main work area is outside IT	<input type="checkbox"/> 2
I have a general responsibility which includes IT but I am not an IT professional	<input type="checkbox"/> 3

15 Please tick the box below which best describes your job title.

Owner/Partner	<input type="checkbox"/> 1
Director	<input type="checkbox"/> 2
General manager	<input type="checkbox"/> 3
IT/network/telecomms manager	<input type="checkbox"/> 4
Technical support manager	<input type="checkbox"/> 5
Purchasing manager	<input type="checkbox"/> 6
Other manager/Department head	<input type="checkbox"/> 7
Executive	<input type="checkbox"/> 8
IT Consultant	<input type="checkbox"/> 9
Management consultant	<input type="checkbox"/> 10
Other (please specify your job title)	<input type="checkbox"/> 11

16 About how many people does your company employ?

- Less than ten 1
- 10 - 49 2
- 50 - 99 3
- 100 - 199 4
- 200 - 499 5
- 500 or more 6

17 What type of work does your company do? (Please tick the **one** item that best describes your company's work.)

- Civil Engineering/Construction 1
- Computers/Information technology 2
- Defence 3
- Education 4
- Energy (Oil, gas, electricity) 5
- Finance/Banking/Insurance 6
- Government/public services 7
- Industry/industrial engineering/manufacturing 8
- Law/Accountancy/Management consultancy 9
- Media 10
- Medical/pharmaceutical 11
- Retail and distribution 12
- Telecommunications 13
- Travel 14
- Other (please specify) 15

18 Which of the following areas do you get involved in?

- General Management 1
- Sales & Marketing 2
- Finance 3
- Production 4
- Information Technology/Networks/Communications 5
- Research and Development/Corporate Planning 6
- Customer service 7
- Other (please write on the line below) 8

19 When your company buys computers are these purchased retail or direct? (Please tick all that apply.)

- Retail 1
- Direct from manufacturer 2
- Direct from reseller 3
- PC dealers 4
- Via consultant 5
- Other (please write in) 6

PERSONAL COMPUTER WORLD

20 Do you have a subscription to **PERSONAL COMPUTER WORLD**?

- Yes 1 No 2

21 How often do you read **PERSONAL COMPUTER WORLD**?

- I read almost every issue 1
- I read most issues (around 3 out of 4) 2
- I only read it occasionally 3

22 Here are a number of things that people have said about **PERSONAL COMPUTER WORLD**. Please tick the appropriate box beside each statement to indicate how much you personally agree or disagree.

	Agree a lot	Agree a little	Neither agree nor disagree	Disagree a little	Disagree a lot
I use information that I get from Personal Computer World in choosing PCs to purchase	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
I use information that I get from PERSONAL COMPUTER WORLD in purchasing peripherals/components	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
PERSONAL COMPUTER WORLD 's reviews help me choose between brands	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
The main value of PERSONAL COMPUTER WORLD is in the editorial information	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
The main value of PERSONAL COMPUTER WORLD is in the advertisements	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
I value both the editorial and the advertisements	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
The new look in this issue is a big improvement	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
It is much easier to find things in the new layout	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
The new look PERSONAL COMPUTER WORLD is much easier to read	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5

23 If you could change one thing about the new look Personal Computer World, what would it be?

24a Do you ever retain features or reviews from PERSONAL COMPUTER WORLD for future reference on products or prices?

- Yes ¹ Please answer Q24b
 No ² Please skip to Q25

24b About how often do you do so?

- Every issue ¹
 Most issues ²
 Only occasionally ³

25a Do you ever retain advertisements from PERSONAL COMPUTER WORLD for future reference on products or prices?

- Yes ¹ Please answer Q25b
 No ² Please skip to Q26

25b About how often do you do so?

- Every issue ¹
 Most issues ²
 Only occasionally ³

26 Have you ever made an enquiry or bought something as a result of an advertisement in PERSONAL COMPUTER WORLD?

- Yes ¹ No ²

27a Which of these other computer magazines have you read or referred to in the past six months?

27b Which do you find gives you the most useful information that you can use in making buying decisions?

	a/ read	b/ find most useful
Computer Buyer	<input type="checkbox"/> ¹	<input type="checkbox"/> ¹
Computer Shopper	<input type="checkbox"/> ²	<input type="checkbox"/> ²
ComputerAct!ve	<input type="checkbox"/> ³	<input type="checkbox"/> ³
Computing	<input type="checkbox"/> ⁴	<input type="checkbox"/> ⁴
Information Week	<input type="checkbox"/> ⁵	<input type="checkbox"/> ⁵
IT Week	<input type="checkbox"/> ⁶	<input type="checkbox"/> ⁶
PC Advisor	<input type="checkbox"/> ⁷	<input type="checkbox"/> ⁷
PC Direct	<input type="checkbox"/> ⁸	<input type="checkbox"/> ⁸
PC Magazine	<input type="checkbox"/> ⁹	<input type="checkbox"/> ⁹
PC Plus	<input type="checkbox"/> ¹⁰	<input type="checkbox"/> ¹⁰
PC Pro	<input type="checkbox"/> ¹¹	<input type="checkbox"/> ¹¹
PERSONAL COMPUTER WORLD	<input type="checkbox"/> ¹²	<input type="checkbox"/> ¹²
What PC? And Software	<input type="checkbox"/> ¹³	<input type="checkbox"/> ¹³

28 Do you ever retain features or reviews in computer magazines other than PERSONAL COMPUTER WORLD?

- Yes ¹ No ²

29 Do you ever retain advertisements in computer magazines other than PERSONAL COMPUTER WORLD?

- Yes ¹ No ²

30 Have you ever made an enquiry or bought something as a result of an advertisement in another computer magazine?

- Yes ¹ No ²

31a Have you ever made an enquiry or bought something as a result of an advertisement in the national or business press?

- Yes ¹ Please answer Q31b
 No ² Please skip to Q32

31b Which newspaper/magazine was this? (Please specify)

AND FINALLY

32 How old are you?

- Under 25 ¹
 25 - 34 ²
 35 - 44 ³
 45 - 54 ⁴
 55 - 64 ⁵
 65+ ⁶

THANK YOU FOR YOUR HELP

Your reply will be treated in the strictest confidence and analysed in statistical form only. However, if you want to take part in the prize draw to win £200 worth of Eurostar vouchers, please fill in your name and address in the space below.

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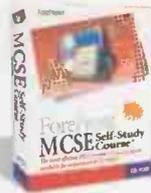
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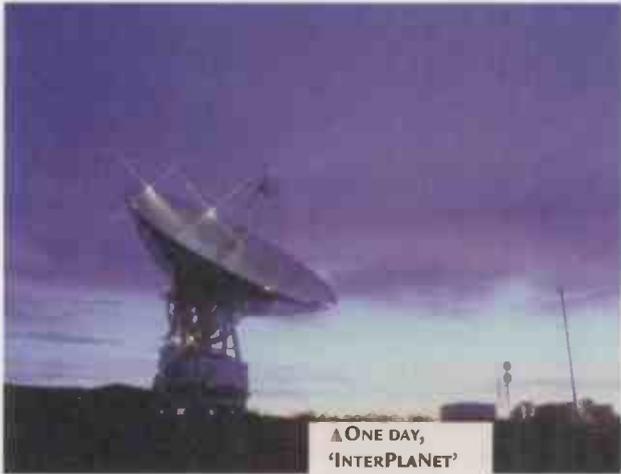
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NASA plans to evolve an **interplanetary internet**, linking earth and space. Toby Howard reports.

Into the outernet

Illustration courtesy of NASA/JPL/Caltech



▲ ONE DAY, 'INTERPLANET' COULD UNIFY SPACE AND TERRESTRIAL COMMUNICATIONS

It is 20 years since Vint Cerf co-invented TCP/IP, the standard data code which made the modern internet possible. Having seen the net grow to today's world-circling web, Cerf now has a bigger idea. He plans to take cyberspace into outer space. Cerf has just been appointed Distinguished Visiting Scientist at NASA's Jet Propulsion Laboratory. Together with Adrian Hooke, manager of NASA's Space Mission Operation and Standardization Program, Cerf's brief is to find a way to merge the work of the space communications and internet communities.

Just as the web provides an integrated interface to the data moving across the net, Cerf envisions a solar system-wide web, unifying space and terrestrial communications. NASA sees this interplanetary internet, or "InterPlaNet", as the future of space communications. Currently, space comms technology encodes data in different ways to suit particular mission requirements. There are no multimedia standards, as on the internet; no point-and-click interfaces; no standard mechanisms to upload new programs to control spacecraft or planetary landers. "It took 20 years for the internet to take off here on Earth," Cerf said recently. "It is my guess that in the next 20 years we will want to interact with systems and people visiting the Moon, Mars and possibly other celestial bodies."

NASA is already convinced. It wants to employ the Interplanetary Internet in its forthcoming Mars missions, and has plans to leave special satellites in orbit as a first step to

creating internet servers in space. But Cerf's vision is as technically demanding as it is fascinating. Just as the terrestrial internet brings together smaller networks in cities and countries, the goal of the Interplanetary Internet is to link together nets on different planets and their moons. Special interplanetary gateways will convert the Interplanetary Internet data protocols to conventional TCP/IP, connecting (in NASA-speak) "dirt-side to space-side".

The Interplanetary Internet will need a robust data transmission

protocol. Traditional TCP/IP won't do because transferring data across space has its own problems. First there's interference. As far as man-made radio waves are concerned, empty space is a noisy place. As well as the natural radio emissions from stars and planets, cosmic rays cause unpredictable distortions in spacecraft transmissions. A more serious problem is the time-lag which results from the vast distances involved and nature's unbreakable limit of the speed of light. A radio signal, transmitted from Mars, say, takes several minutes to reach Earth, and the transfer time varies constantly. But Cerf is confident that the technical problems are soluble. "The time has come to think beyond the Earth," he says.

Some people worry about taking the web into space, fearing that we might be exposing ourselves a little too much to scrutiny by extra-terrestrials. It's not quite as daft as it sounds. Suppose aliens spot our planet and want to eavesdrop on us. The web is a perfect resource

In the next 20 years, we will want to INTERACT WITH SYSTEMS AND PEOPLE VISITING THE MOON, Mars and possibly other celestial bodies

for them, far better than fiddly radio and TV transmissions which bubble out in spheres of ever-decreasing intensity: the web just sits there with its data intact, accessible to any alien with the latest quantum snooping gear. Take the web into space, and we really start advertising our presence. One day, ET will surely say hello. Let's hope the email is friendly.

Ian Robson reviews the startling developments in the presentation of **holographic videos** in 3D.

Altered perceptions



▲ **FIG 1** THE PHILIPS 14.5IN COLOUR 3D-LCD EVALUATION KIT

Sci-Fi films would have you believe that a holographic video is a 3D real-time video display projected into thin air. In reality, there is no way of producing such a display without the use of a capturing medium; thin air is not one of them. But other methods are producing startling results. Philips Research Laboratories has developed the Auto-

To enhance the 'natural experience', the developers **SPLIT THE VIEW INTO FOUR**, so each lenticular lens covers four columns of pixels on the LCD

Stereoscopic 3D-LCD, combining its lenticular lens screen and LCD technologies to produce effective holographic video displays which appear to be as deep as they are wide. The lenticular lens screen sits on top of a normal LCD screen and is made up of vertical arrays of small cylindrical lenses which split the image

into a number of views. The resulting image is horizontal parallax only (you see it only in the horizontal plane).

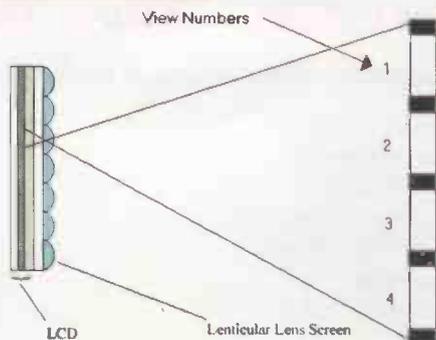
To get an idea of how these views work, hold an orange in front of your face. Close each eye in turn and you will see a

slightly different view of the orange but they will both be in the same horizontal plane. A two-view lenticular lens does the same thing, projecting left and right views from two columns of pixels on the LCD screen, so the resulting image is perceived by the viewer as three dimensional. The fact that the viewer needs no special glasses is a major contributing factor to the "natural experience" but this two-view set-up means you can only see the image from one fixed point in front of the screen. To enhance the natural experience, the developers split the view into four, so each lenticular lens covers four columns of pixels on the LCD. This gives a wider viewing angle but reduces the horizontal resolution by half, compared to a two-view lens.

A **four-view system** is shown in Fig 2, with an enlarged portion of the LCD and attached lenticular lens screen on the left. The black line between each projected view is caused by the LCD's opaque black mask which runs between each pixel of the display and prevents light leakage from areas of the liquid crystal that are not modulated by any voltage. When the viewer moves his head horizontally across the display it appears as a "now you see it, now you don't" effect. Blurring the boundaries between the four views created by each lens spreads out the black mask image, softening the transition between one view and the next. This encourages the viewer to perceive "solid objects" rather than being distracted by the black lines.

Progress in this field has been rapid, driven by interest from such diverse parties as medical institutions to home entertainment companies. Ultimately, though, the LCDs will have to improve before the technology can progress. An LCD with a horizontal resolution of 1,920 liquid crystal elements will have just 640 pixels. As it takes four pixels to create one four-view, a four-view 3D-LCD display will therefore have a resolution of just 160. Philips has developed a 14.5in 3D-LCD screen [Fig 1] which should be available soon to help developers create new applications. Games developers may jump at the chance.

▼ **FIG 2** DIAGRAM OF A FOUR-VIEW 3D-LCD



PCW CONTACTS

For further information: www.research.philips.com/generalinfo/special/3dlcd
If you're interested in another approach to holographic video, try <http://spi.www.media.mit.edu/groups/spi/>

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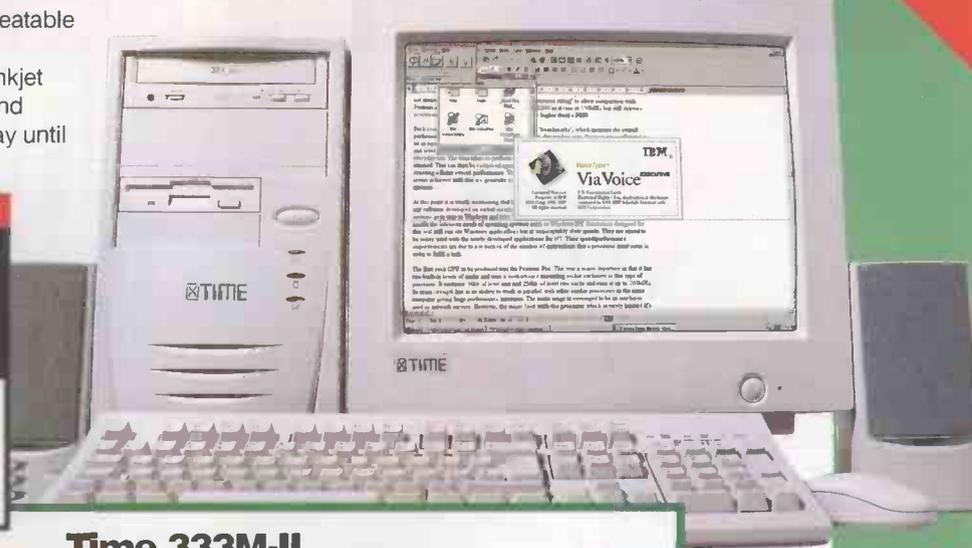
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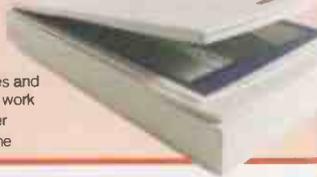
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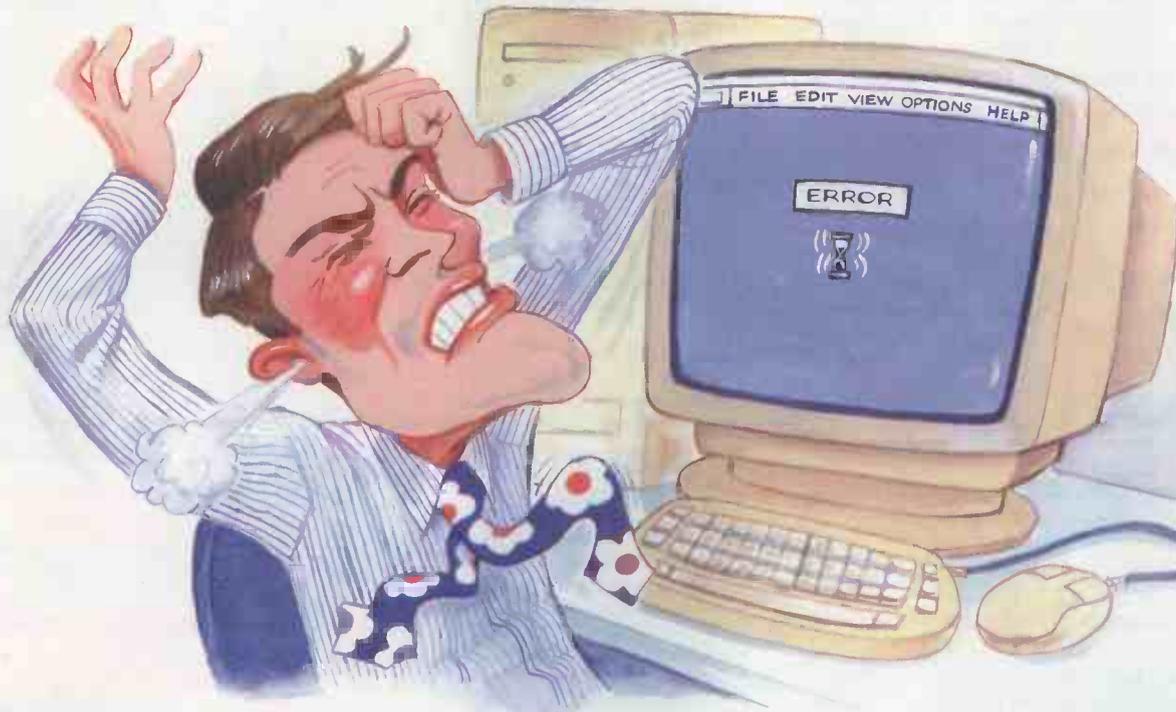
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hands on

contents

Are you looking for a way to keep in touch with your friends or contacts online, even if they don't work in the same office or share your network? This month's Workshop on **instant messaging services** shows you how to download and install the necessary software to do this using the internet. Not only is it easy, but it's also free. Perhaps you find yourself on the move and you're after some ideas on how to use your **laptop** more effectively? Mark Whitehorn makes sure we're happy travellers with his handy hints on choosing and using your notebook. And Cliff Joseph has been out and about: just back from his trip to this year's MacWorld Expo in New York, he has installed a beta version of **MacOS 8.5** and introduces us to some of the new features we can expect from this upgrade when the final version hits the streets. Over in **Graphics & DTP**, Ken McMahon points us in the direction of some free images, while Roger Gann examines some of the undocumented yet useful features of DOS in **16-Bit**. As always, hints, tips, suggestions and ideas are more than welcome.

NIK RAWLINSON, *HANDS ON* EDITOR
NIK_RAWLINSON@VNU.CO.UK

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PCW Hands On on CD-ROM

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Chat lines

Chatting on the net? Nik Rawlinson explains instant messaging, a **practical way** to communicate.

Internet Relay Chat (IRC) is great for chatting to friends and keeping in touch with people who have common interests; but outside of these fairly constrained bounds, it has little in the way of practical use. It has no search facility to allow you to contact specific users, unless you have previously met them online and added their nickname to your notify list. When you log off, you are effectively cut off from the whole IRC community until next time you log on. It will not keep messages for you, nor forward them to your mailbox — you are, to all intents and purposes, non-existent.

A more suitable alternative, therefore, would be something that maintained a virtual presence even when your connection is not active. It could also take care of any messages that other users want to send you when you're not logged on, simultaneously offering a powerful search engine that would enable you to contact users with whom you share a common interest. Impossible? Not at all. Expensive? Certainly not, and there are a number of options available.

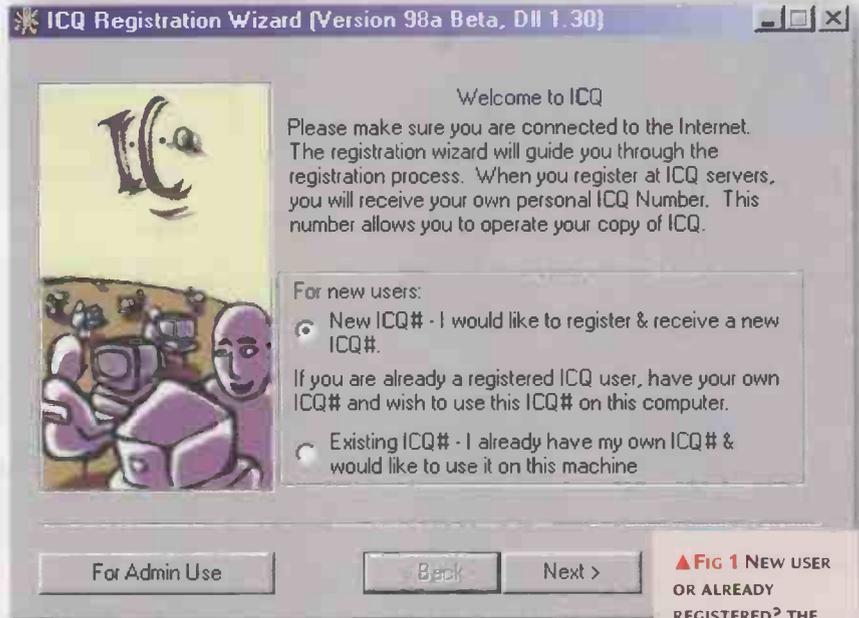
ICQ

We'll start with the most complex option, but before firing up your net connection, a quick hunt around in your Windows\System directory can save you some time. Search for a file called MFC42.DLL. If it's there, you've just saved yourself a 0.5Mb download. If not, you can get it at the same time you download your new software.

1 **Connect to the net** and point your browser at www.mirabilis.com/download/.

Here you will be presented with eight different flavours of the ICQ (*I-seeq-you*) software. Select the most appropriate version for your operating system.

2 **On the following page**, click the link to download the software. If you already have MFC42.DLL in your



▲ FIG 1 NEW USER OR ALREADY REGISTERED? THE CHOICE IS YOURS

Windows\System directory, select the second option. This will download a 1.1Mb file (as opposed to the first 1.6Mb option). Don't try to cheat the system by downloading the smaller file if you haven't got MFC42.DLL: although it will download, the software will not work and you'll have to start again.

3 **Once the download** is complete, resist the temptation to close your net connection, because the installation process involves a certain amount of to-ing and fro-ing of data between your PC and the Mirabilis servers. Double-click the icon for the file you have just downloaded and follow the usual procedure for installing it into your chosen directory.

→ You will also be offered the opportunity to include ICQ on your Start menu. While this is helpful, it is not essential as the latter stages of the

installation will drop ICQ's Net Detect Agent into your

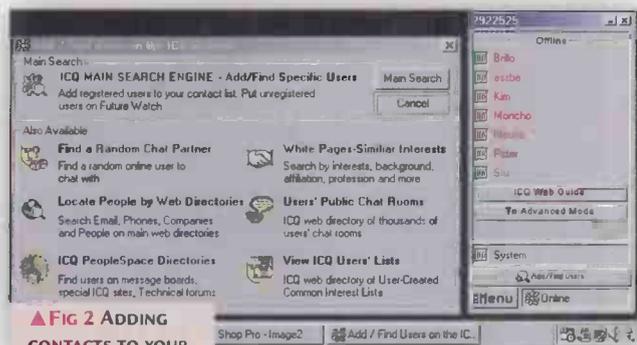
system tray. This will keep an eye on your internet connection and, when it detects that you have gone online, fire-up ICQ and let your contacts know that you have connected, informing you which of your contacts are online.

4 **Once installation** is complete, you will find yourself faced with the ICQ registration wizard. This is the equivalent of registering your mobile phone with the network. By the end of it, you will have your own unique ICQ number through which other users can contact you.

5 **If you are a new user**, click "next" or select "Existing ICQ#", and supply the details you entered the previous time you installed [Fig1].

6 **We will assume** that you are running ICQ through a standard dialup connection. If you are lucky enough to enjoy a permanent leased line or connect over a network, you will have to ask your system administrator for the address of your firewall and/or SOCKS server, and enter the details.

7 **On the screen** that follows, enter your email address, your first and last names, and a nickname. Because a string of numbers is not very memorable (take CompuServe email addresses, for example) this is how you will be identified in the main ICQ window of other users. Your nickname can be your real name or something completely random, but many users choose to base it on their location or interests. Now click "next".



▲ FIG 2 ADDING CONTACTS TO YOUR CONTACT LIST USING ICQ. NOTE THE OPEN ICQ WINDOW TO THE RIGHT SHOWING THOSE USERS ALREADY ON MY LIST. MY ICQ NUMBER IS SHOWN IN THE TITLE BAR, FOR QUICK REFERENCE

8 The next screen is entirely optional but completing it will help other users to make contact with you. Fill in the boxes

location, age and interests. These will be added to the Mirabilis database, making you visible to other users while you are offline. window that will now be active on your desktop. This gives you the option of searching on more meaningful parameters than just ICQ numbers or email addresses, and instead locate users by interest or location [Fig 2].

AOL Instant Messenger

AOL members have been using the service's Instant Messenger (IM) option for years, but now it is open to the internet community at large without the need to pay a subscription to the company itself. Unlike the Yahoo and ICQ services it is currently not possible to search for members' profiles unless you are a paying AOL member and, instead of using this internet-based service, actually log on to your account.

1 AOL's UK site is quite adamant that this service is "coming soon", so why not pop over to the US service at www.aol.com/aim/ and download it from there? It will work in the UK with no problems.

2 Non-AOL members must select a screen name of between three and ten letters. The great thing here, however, is that unlike many online services, your screen name can be made of not only letters and number also spaces [Fig 3].

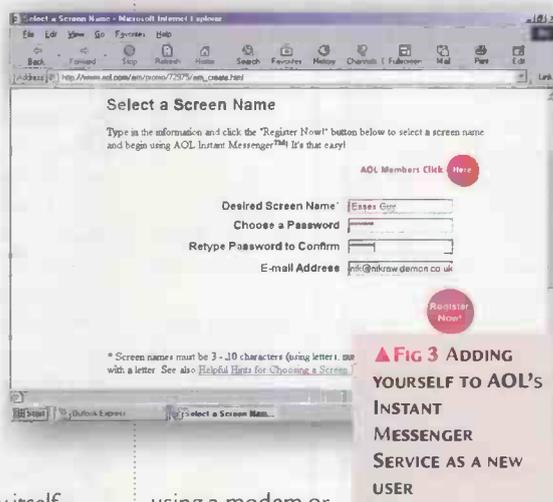
3 If you already have an account with AOL, click the AOL member icon and enter your screen name and the postcode you used to register with the service.

4 Select the appropriate version of the software from the four operating

13 The Contact List Wizard will appear. This allows you to search the ICQ database to add contacts to your list. However, it is easier to click "cancel" here and then "Add/Find Users" on the ICQ

systems listed, and the installation software will be downloaded to your PC. Again, once the download is complete, maintain an open connection to your ISP.

5 Execute the downloaded file and it will run you through the usual Windows software installation routine. It is advisable to choose the option to launch AIM (AOL Instant Messenger) when Windows starts, as this will perform a similar function to ICQ's Net Detect Agent in starting up the software each time you connect. Tell the system whether you are connecting to the net



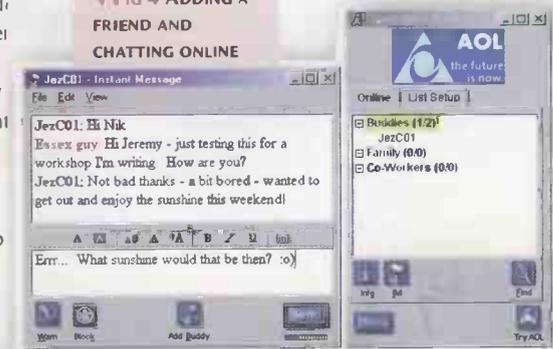
▲ FIG 3 ADDING YOURSELF TO AOL'S INSTANT MESSENGER SERVICE AS A NEW USER

using a modem or a LAN and click "next" to expand the files on to your hard drive.

6 Once installation is complete, you will need to register with the service. If you are an existing AOL member, click "Use AOL Screen Name", otherwise opt for "Register new screen name".

7 Enter your screen name and password in the new window that appears, and check the "Save password" and "Auto Login" boxes. This enables the system to connect to the network each time you connect to your ISP, without you having to do anything. Click "Sign On".

▼ FIG 4 ADDING A FRIEND AND CHATTING ONLINE



AOL's IM will work in the UK with no problems

12 If you want others to be able to use their ICQ interfaces to send mail direct to your regular email inbox, enter the address of your SMTP server (if you don't know what it is, your ISP will be able to tell you). Click "next" again.



8 Once you get connected, to add users to your list of contacts you merely click the "List setup" tab followed by "Add Buddy" and enter the AOL screen name [Fig 4]. The disadvantage here, of course, is that you have to know your contact's screen name before you can add them to your list instead of being able to search online.

Yahoo! Pager

At just a 436Kb download, Yahoo Pager could be thought of as the economy option. But its feature-packed service would indicate otherwise.

1 Follow the link from <http://pager.yahoo.com/> to download the software and install by double-clicking the icon of the file you have downloaded to your hard drive. Click "next" to progress through each installation screen. When you come to the options dealing with running the pager when you start your computer (and allowing other users to connect directly with your pager), leave them both unchecked and click "next" to complete the installation. This will allow other Pager users to chat with you, and save you from having to activate the program yourself.

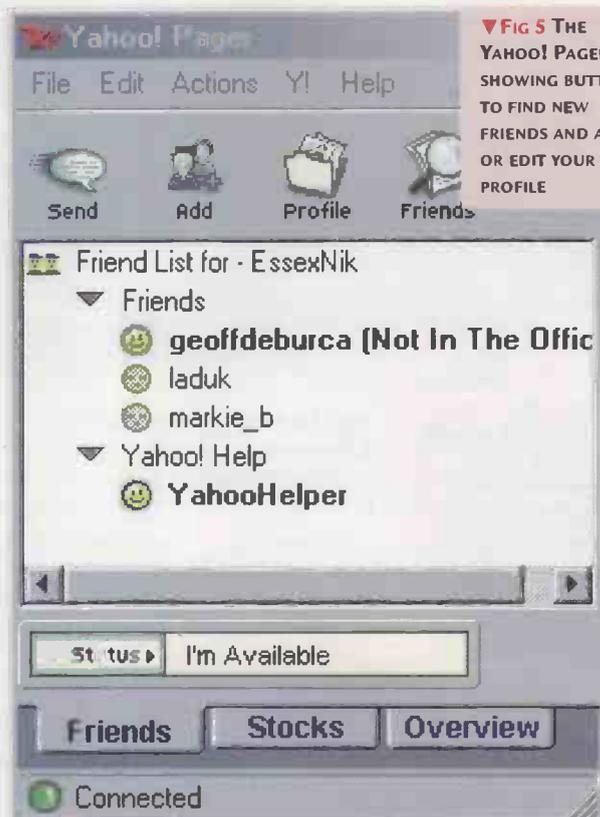
2 Once the installation has been completed, you will be presented with the login screen. Making sure that your internet connection is active, click "Get a Yahoo! ID" and complete the empty boxes on the web page that it will load into your browser. The "Password Question" option is simply requesting a question that the system can ask you should you forget your password. If you supply the correct answer, as specified in the box that

follows, it will reveal your password. When it asks for your Zip code, click the button marked "this form" to be transported to the international sign-up screen into which the answers you have already supplied will be transferred.

Don't forget to check the appropriate box for receiving further information (or not) and submit your answers to generate your free pager account.

3 Return to the pager log-in screen and enter your new user name and password. Remember to check the box to save your password (so that you do not have to type it in each time you use the pager) and then click OK.

4 To add contacts, click "Find New Friends" [Fig 5]. This presents one of the most comprehensive search engines of all, enabling you to narrow your search by interest, location and name. For example, enter "cat" in the "interest" box to list users with an interest in cats, and click on the user names of the pager owners which match your search, to view their profiles. To add your chosen user to your user list, click the link at the bottom left of their profile.



▼ FIG 5 THE YAHOO! PAGER, SHOWING BUTTONS TO FIND NEW FRIENDS AND ADD OR EDIT YOUR PROFILE

5 Creating your own profile will let others find you. Click "profile" on the Yahoo! Pager toolbar, followed by "Create/Edit my Profiles". From the web

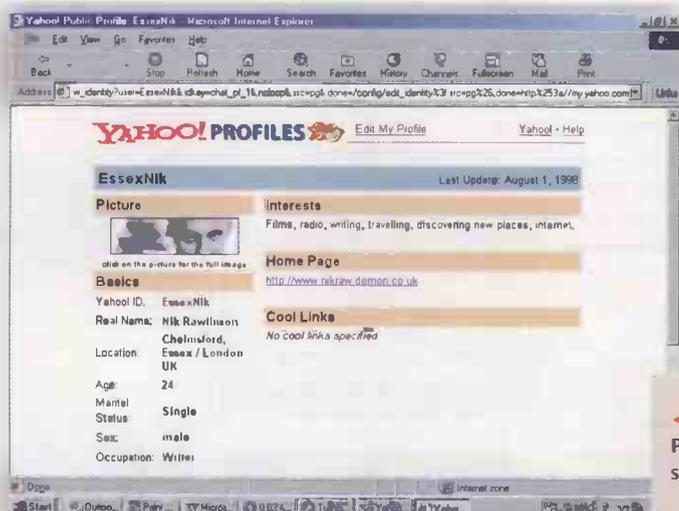
page that this button loads, click "Edit" and fill in the appropriate boxes. What you include on this page is optional, but it should be remembered that anything you say will be accessible to anyone with an internet connection [Fig 6].

Hello, goodbye

While Yahoo! Pager and AOL's Instant Messenger may offer little over and above what is available to regular IRC users, the fact that they run in the background means that they can be permanently active without consuming excessive resources. ICQ, on the other hand, could, at a push, when combined with the various free email services on the net, do away with the need for a separate mail package and leave all of your communication tools just a double-click of the system tray away. Download them, install, and next time you see me online, be sure to say hello.

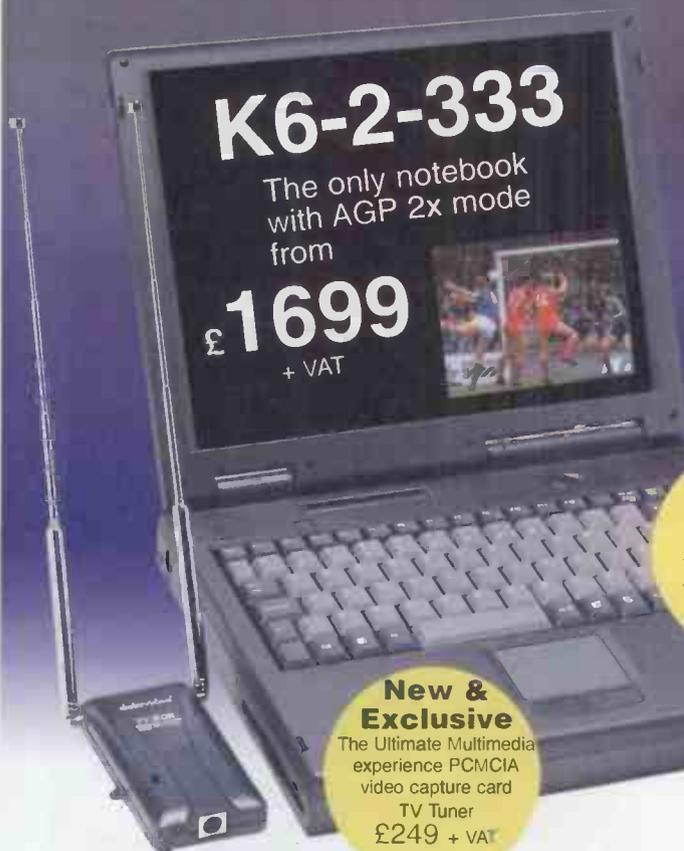
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AOL Instant Messenger name Essex Guy
ICQ Number 2922525
Yahoo! Pager name EssexNik



◀ FIG 6 A YAHOO! PAGER PROFILE SCREEN

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Lapping it up

The perfect laptop is not yet with us, but still, there is some impressive kit out there. To help you make your choice, Mark Whitehorn presents a guide to the traveller's friend.

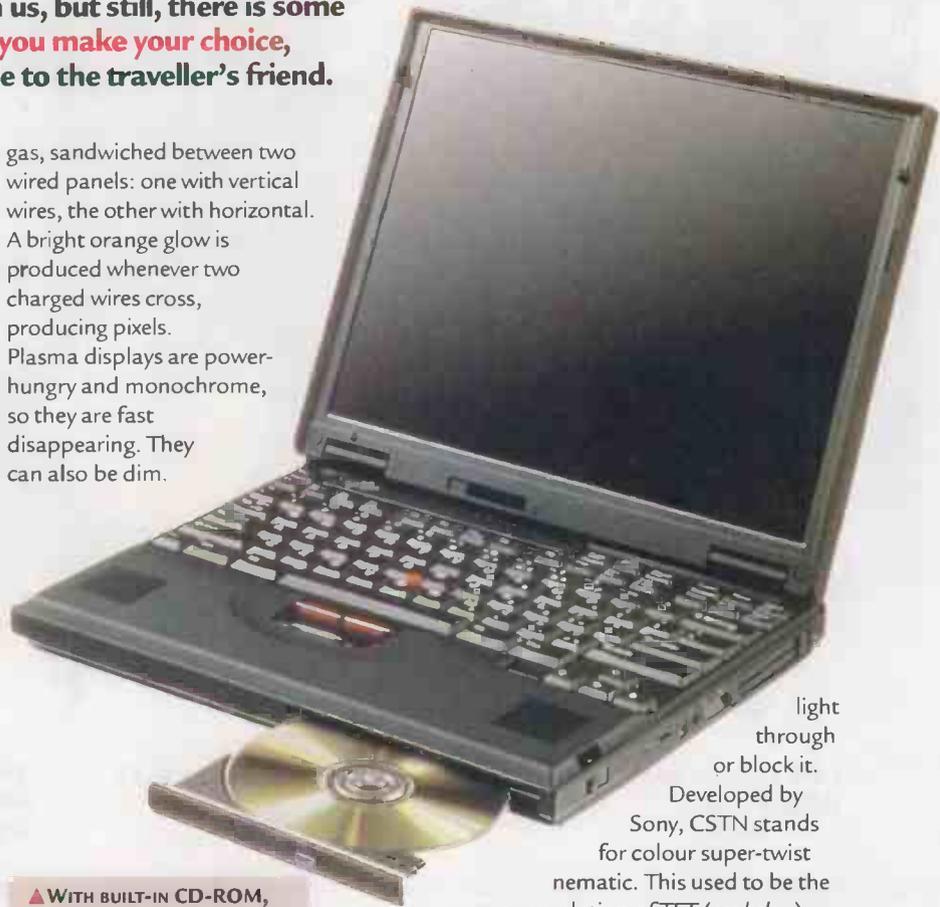
The perfect laptop is light, slips into a pocket, has a full-size keyboard and a 17in screen — let me know when you find one! Trapped as we are within the confines of current technology, this ideal specification will inevitably be subject to a degree of compromise. In fact, laptops are all about compromise. Our current state of technology permits no alternative to the fact that a laptop with a 15in screen has to be at least 15in along one of its dimensions. So, unless you have very large pockets, something has to give.

Not that companies haven't tried to provide workarounds. IBM's "butterfly" keyboard of some years ago was an ingenious attempt to defy the laws of physics. The keyboard folded out to full size as you opened the machine, full size being at least two inches wider than the closed laptop's footprint — clever. It even worked, to an extent, but the fact that IBM no longer makes them is an indication that the design was a little too compromised. The mechanical complexity of the keyboard movement often became worn enough to allow the closing lid to catch the retracting keyboard, potentially biting off the extra. In addition, the "feel" of the keyboard itself was compromised.

As a confirmed gadget freak I still have one and love it's ingenuity, but it is now a museum piece that has to be closed very, very carefully. Laptops are similar to, but not the same as, desktops. So it is worth considering the following before you buy:

■ **Screen technologies**
There are many types of screen technologies used in laptops. On a secondhand machine you might still find a **plasma** display. This uses an ionised

gas, sandwiched between two wired panels: one with vertical wires, the other with horizontal. A bright orange glow is produced whenever two charged wires cross, producing pixels. Plasma displays are power-hungry and monochrome, so they are fast disappearing. They can also be dim.



▲ WITH BUILT-IN CD-ROM, SOME LAPTOPS COULD REPLACE YOUR DESKTOP

When using on holiday in France, I was reduced to placing the whole machine inside a cardboard box to shade the screen to make it visible. The locals wrote me off as an eccentric Brit concerned about sunburnt hands... Happily,

The innards of a laptop are more crowded than the M25 on a Friday night

things have improved and new screens are much better, although the range of options can be unnerving: TFT, active-matrix, CSTN, HPA, passive-matrix, supertwist, double and triple supertwist — so the list goes on. In general, there are two technologies out there, passive and active.

Passive-matrix consists of a grid of horizontal and vertical wires. An LCD element (pixel) exists at the intersection of each pair of wires which can either let

light through or block it. Developed by Sony, CSTN stands for colour super-twist nematic. This used to be the poor relation of TFT (*see below*)

but recent advances in the technology have made it a viable alternative to active-matrix displays, at about half the cost. Some people actually prefer this type of display to TFT, when used in bright light conditions.

Active-matrix, also known as TFT, stands for Thin Film Transistor. It is a type of LCD screen in which each pixel is controlled by between one and four transistors. The TFT technology provides the best resolution bar none. For active, read expensive; but these screens are superb. I use a portable with a 14.1in TFT screen, and I now use it in preference to a VDU as I think the image is better.

■ **Screens in general**
The physical size of the laptop is generally limited by the screen or the keyboard, so don't just go for the largest screen that you can afford. Think carefully, because large laptops are a pain in the briefcase. You may find, on TFT screens, one or

more "dead" pixels. They may be stuck in one colour (red, blue, or green) or dead (black). The bad news is that a transistor controlling the pixel has died; the good news is that this is not an uncommon occurrence, given the number of transistors in a single display.

Whether you want — or are able to — return the machine for a replacement is up to you and to the supplier. Some manufacturers take the view that one or two bad transistors out of so many is good enough, while others expect to supply

perfect screens. In general, the more you pay, the more chance you have on insisting that the screen is perfect. And one final point: the different ways in which screen sizes are measured mean that a 15in LCD screen, whether passive or active, gives approximately the same viewing area as a 17in VDU.

■ Keyboard

Can you type on a small keyboard? If your hands are large, or your fingers spatulate, it may be physically impossible to use the smaller keyboards available. Is the tactile quality of a keyboard particularly important to you? And if so, trying out a keyboard before buying is definitely worthwhile. You're likely to be using the machine for the next two or three years at least, so making sure it suits you is time well invested.

■ Input devices

Using a mouse on an aeroplane is usually incompatible with good inter-seat relationships, and unless you travel first class, often impossible in the cramped space. So, in addition to mouse ports, laptops often come with one of several types of built-in pointing devices.

Strangely, for some reason, the main contenders all start with the letter T:

➔ **Trackball** — clips to the side of the keyboard.

➔ **Touchpad** — built into the front of the keyboard and driven by finger pressure.

➔ **TrackPoint** — a tiny joystick built into the keyboard and surrounded by the G B H and N keys.

Touchpads appear to be in the ascendant at the moment but it is very much a

matter of taste. I hated the early TrackPoints but have learned to live with the latest version.

Do you need a network card (see *Backup, below*)? A floppy disk drive? A CD-ROM/DVD drive? Given access to a network and a CD-ROM drive, you can largely circumvent the need for a floppy drive but you have no easy way of getting a file onto a floppy when you're away from the network.

External floppy/CD-ROM drives give you something else to carry around to

accompany the mains power cable with a lumpy in-line transformer. You need to consider all of this very carefully before buying. Why? Well, for a start, laptops are, as a general rule, much more difficult to upgrade than desktop machines. Let's ignore for a moment the fact that the innards of a laptop are more crowded than the M25 on a Friday night. Laptops often make use of non-standard components, which means they tend to have odd collections of drivers.

It is generally accepted that adding hardware to a laptop is a pain. A better answer is to specify the machine you require and make it SEP (Somebody Else's Problem) to ensure that they all work together in perfect harmony — before you hand over the money.

■ **Backup** is of course vital, but you don't want to bolt a tape-drive onto a portable.

A network card allows you access to server drives which are the perfect place for backups.

■ Batteries

The latest Li-Ion batteries are more expensive

than the older NiMH, although there is also a huge advantage to them — they have no memory so you don't need to deep discharge them. This is far more useful than it at first sounds, as for the first time you can simply use the battery when convenient and top it up from the mains whenever possible. Gone are the days of arriving on aeroplanes with half-empty batteries because there was no time to fully discharge and then recharge them.

■ Operating systems

Until recently, it was rare to find manufacturers who would confidently put NT on their laptops. The problem was a lack of drivers and this has been largely overcome as NT has increased in popularity. These days, it's perfectly possible to specify NT as the operating system. There is a surprising side effect/advantage of running NT and that's its built-in CPU cooler. However, if you're using Windows 95 and have a hot CPU, there's a tip which may help to reduce overheating (*p250*).

■ Windows 98

Currently, it appears that some people are experiencing problems upgrading from Windows 95 to 98 (he typed circumspectly). Look carefully at what 98 has to offer and make sure that you need some of the extra features before taking the plunge. And even when you are convinced that you need to upgrade, check for advice on your manufacturer's web site before going ahead.

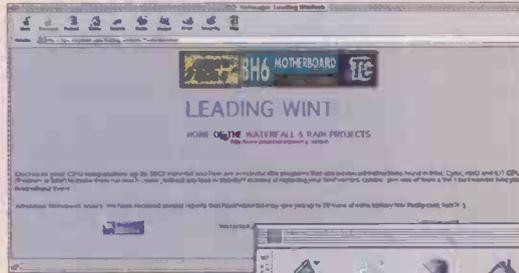
Manufacturers of certain models are advising against even attempting the upgrade (but don't let me put you off).

► IN ALL SHAPES AND SIZES, THE LAPTOP COULD BE YOUR PERFECT PORTABLE PAL





LAPTOP TIPS



WHET YOUR APPETITE FOR A COOL LAPTOP WITH WATERFALL OR RAIN

Overheating

Laptops compromise absolutely everything, even cooling, and some are notorious for overheating. Though, amazingly, there is a software fix you can try — in fact, two of them. These are two utilities called Waterfall and Rain that can be used on machines running Intel, Cyrix, AMD and IDT CPUs (Pentium or later). Waterfall and Rain make use of the HLT command which puts part of the CPU into suspend mode. This command can be executed while parts of the CPU are idle, saving power and dropping the temperature. You can find more, and the programs themselves, at http://cpu.simplenet.com/leading_wintech/.

Comparison Chart

	Rain	Waterfall
System Performance	Excellent	Excellent
Cooling Performance	Excellent	Very Good
Security	Very Good	Excellent
Memory Requirement	300Kb	300Kb
CPU Monitor	No	Yes

Neither of these programs works under NT, for the simple reason that NT already comes with an option to execute HLT instructions when the CPU is idle.

First power-up

A friend recently interrupted the initial power-up of a Toshiba. True, a silly

thing to do, but the machine had to be returned to base. The first power-up of any laptop may require you to make choices, so don't try it on the train going home. Relax and allow plenty of time; just don't turn the machine off during that initial startup!

Every laptop comes with a built-in UPS

It may not be immediately apparent, but the battery in your laptop works in just the same way as a UPS (Uninterruptible Power Supply). So, if you are working on a desktop PC and storm clouds gather, switch over to your laptop in case the power goes down.

Finding the CMOS setup program

The key combination to get CMOS setup varies with different machines. If your manual is missing, or doesn't supply the information, try the following early in the boot process:

- DEL
- F1
- CTRL+ALT+ESC
- CTRL+ALT+S
- CTRL+ALT+ENTER
- FN+F1
- FN+ESC

Power saving

Different manufacturers have differing strategies for saving power on laptops. Common ones are sleep/hibernate (states into which the machine will pass if you stop using the keyboard and mouse) but don't power the machine down. And since each manufacturer tends to define the terms differently, I'd advise sticking to generic descriptions.

In sleep mode the system completely shuts off all the hardware (disk, screen etc.) but keeps the RAM alive. This uses a small amount of power but the system comes up very fast when you next use the machine. If it eventually runs out of power, though, you will inevitably lose the data that hasn't been saved to disk.

In hibernation mode, the system writes everything to disk and shuts everything off, so there is no power use

whatsoever. However, when you wake the machine up, it takes longer to wake than it would from sleep mode, but less time than a full reboot.

Size (and weight) is important

As a practical example, I am writing this on an IBM ThinkPad 770. It has a magnificent screen, oodles of brain, a keyboard with a good, positive feel, DVD drive, internal modem — the works. I also splashed out on the optional leather case, which was, I now realise, a huge mistake.

The leather case recently travelled to America in the hold of a Virgin Atlantic 747. While it nestled among its fellow suitcases, I was left holding the unprotected laptop for 12 hours on the flight. Why? Virgin decreed that the bag,

laptop and accessories weighed more than the cabin baggage maximum of 5kg: the machine alone weighs a hefty 3.7kg.

As I said at the start, all laptops are a compromise. I knew all about the weight and size but I accepted those hits because I needed not just a writing machine, but a portable server. The 770 runs Windows NT and functions both as a data warehouse and an OLAP server. For writing, I carry a Psion — tiny but perfectly formed. Hmm... I wonder if I could mate them?

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Mark Whitehorn can be contacted via the PCW Editorial office (address, p10) or email pda@pcw.co.uk

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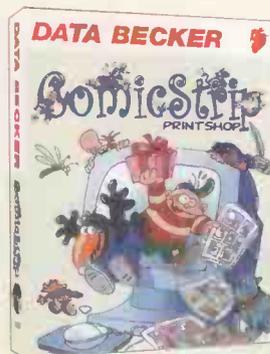
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Hands on technology





Good times, bad times

Bugs in email software, BT's ISDN moves on (a bit), and your queries quelled. With Nigel Whitfield.

It's not often that words need to be eaten, but regular readers of this column might remember a couple of times when people have asked about the warning they've received telling them not to read messages that have a subject heading of "GOOD TIMES". Doing so, the warnings say, could cause problems for your PC.

The standard answer has always been that the only way reading an email message can cause problems on your system is by opening an executable attachment that contains a virus, or launching a document that has a macro virus in it. As you might have heard, however, thanks to the sterling effort of two of the most prominent net software companies — Microsoft and Netscape — that's no longer the case. Both have produced email software that is vulnerable to a particular type of attack, embedded not in an attachment itself, but in the tags that indicate there's an attachment to a message.

Half measures

They didn't do this on purpose — no-one sticks common programming errors into their software on purpose, although that's what some people think is at the root of this particular problem. But what both companies are guilty of is releasing half-finished, bloated software using magazine CDs and online downloads, to ensure that it reaches as many people as possible. Sometimes,

there are useful new features in the latest web browser or email client. Java has certainly helped make some aspects of the web more usable. Dynamic HTML has promise. Depending on your personal feelings, you could view HTML email as a boon, or as an irritating infestation in your inbox. But would the world have ground to a halt if we'd had to wait a few more months for any of these features? It's unlikely. There's far more potential for damage to business

caused by sloppy programming leaving gaping security holes in mail programs, than by your boss not being able to send you email with red, underlined text in it. I'm sure the race to add more features and come out with browsers that have higher version numbers than the competition must be tremendously exciting for employees at Netscape and Microsoft, but it leaves many net users cold. Perhaps it's time more users stopped allowing themselves to be sucked into this rat-race of one-upmanship, and made their views clear? Reliable software should be a primary consideration. And if Netscape wants to survive as a player in the browser market, it might do well to concentrate on security and reliability; the ways of Microsoft are, sadly, unlikely to change.

The internet is a great tool. It's a shame that some of the best-known software companies view it chiefly as one they can use to send us beta-grade browsers in a race to score points against each other. So, next time someone offers you a new browser or email client, stop and think before installing it. Which bugs do you want on your system today?

Highs & lows

Have you been waiting for ISDN to be a reasonable proposition for home users? If so, you've probably heard about BT's Home Highway service, and by the time this issue of PCW hits the streets you may

also have heard about the pricing. If not, check out www.bt.com. Suffice it to say that the launch price isn't the dramatic leap towards affordable ISDN for which many people were hoping. In fact, it's not that much different from the pricing level of current ISDN services.

The significant difference is that you can also plug your existing telephones into the Home Highway box on the wall, and you'll be able to use network services such as dialling 1471 to find out who called you — though not on ISDN calls: that's still extra. From that point of view, it's a leap forward. And with a name like Home Highway, there's a better chance of BT actually realising people might have it installed in their homes — a point which previously, anyone who's ever tried to report a fault on an ISDN line and an ordinary line simultaneously, will realise is lost on BT. It's a shame that the pricing level isn't a similar leap forward on the part of BT. I would be interested to hear from any users who are thinking of switching to Home Highway.

On a more general note, if you'd like to share your opinions on any of the aforementioned topics, please send them in. As ever, a personal response can't always be guaranteed, but feedback is always welcome. (See "PCW Contacts", page 254, for address details.)



Questions & answers

Q I have a web site, with a registration form. The important bit is as follows:

```
<FORM ACTION="mailto:someone@somewhere.co.uk" METHOD="POST">
<INPUT TYPE="hidden" NAME="Origin" VALUE="Romilly's H.F.B. Web Site">
```

Now, this works fine for many people who register — although some arrive with nothing in the text at all, and no attachment. And even at the best of times, my Eudora Light annoyingly puts the message into an attached file. I tried a test or two and it seems to work reasonably when I use Netscape as the browser, but not when I use Internet Explorer. Am I doing something wrong in my HTML? Or is there something wrong with my, and presumably other people's, IE3 setup?

a The simple answer is that you're doing something wrong in your HTML. The "POST" action tells the browser that it should send all the contents of the form data back to the web server via the standard input channel. The action is the program that the browser will tell your server to run, and that program will receive the information input by the browser. However, your action field isn't a program on your server; it's a mailto URL instead, and only some browsers will spot that and launch an email program, because it's completely non-standard. And other browsers will be listing errors in the web server log, when the server can't find the program that the browser has asked them to run. You need to speak to the people who run your web server to find out

what mail scripts are installed on it (most ISPs have a script that will perform this function). And if you run your own server, you'll have to find a script on the net, or roll your own. That's the only way to

ensure that everyone can use the form, regardless of which browser they have.

Q I've recently connected to the internet and use Outlook Express as my mail and news client. When writing mail I have the option to use plain or HTML format text. I would like to know whether the latter is readable by any email program, or does it need to be viewed with a web browser?

a HTML email, while not quite the spawn of Satan, is one of the more irritating things to have afflicted the internet recently. While an increasing number of email programs can read HTML mail, it is by no means a majority, and a lot of people

will see the raw HTML code in their inbox. Of course, they can save the message to a file and open it in a web browser, but frankly, I'd be more likely to delete a message than go to that trouble, and I expect most

other people would, too. As a general rule of thumb, turn off features like HTML email,

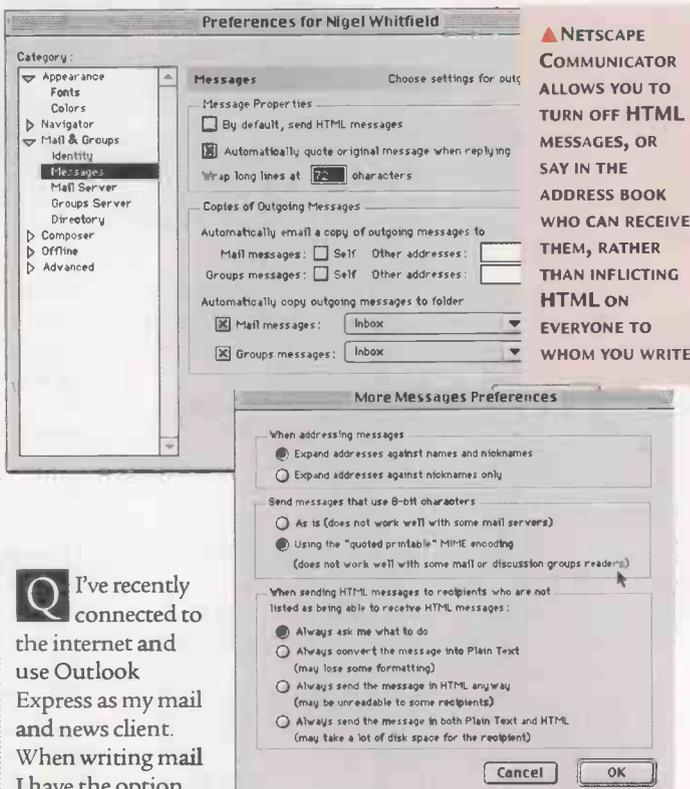
Some email programs allow you to specify who in your address book can receive HTML or other types of mail. If you want to communicate easily, that's certainly the best way to do it — and have the mail program send plain text to people who don't want HTML.

Q I'm using IE4.01 and have set up an FTP site with all our word documents, spreadsheets, images, etc. I also have a file viewer with a web viewing capability that will open and display all of these file types, and more. Unfortunately, clicking on the file name launches the native application within the browser.

How can I have a different application association when using the browser to that used in Windows? I'm sure you used to be able to do this in IE3.02.

a You used to be able to do this, but Explorer 4 is integrated with the operating system. Since it can be used as the desktop

browser, it needs to use the same database as Windows to decide what happens when you click on an application. And this is, of course, a great leap forward and an enhancement of your user experience. But if you don't want your browser to be so tightly integrated with Windows, you'll need to revert to IE3 or install Netscape Navigator.



▲ NETSCAPE COMMUNICATOR ALLOWS YOU TO TURN OFF HTML MESSAGES, OR SAY IN THE ADDRESS BOOK WHO CAN RECEIVE THEM, RATHER THAN INFLECTING HTML ON EVERYONE TO WHOM YOU WRITE

unless you know that the person to whom you're writing has a program that can understand it. Particular contempt should be reserved for those mail programs that insist on sending two copies of your messages, one in HTML and another in plain text. While this means that most people can understand the messages, it more than doubles the size. Again, turn this option off unless you want to force people to spend twice as long downloading your messages as they need to.

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Nigel Whitfield can be contacted by post via PCW (address, p10) or email internet@pcw.co.uk

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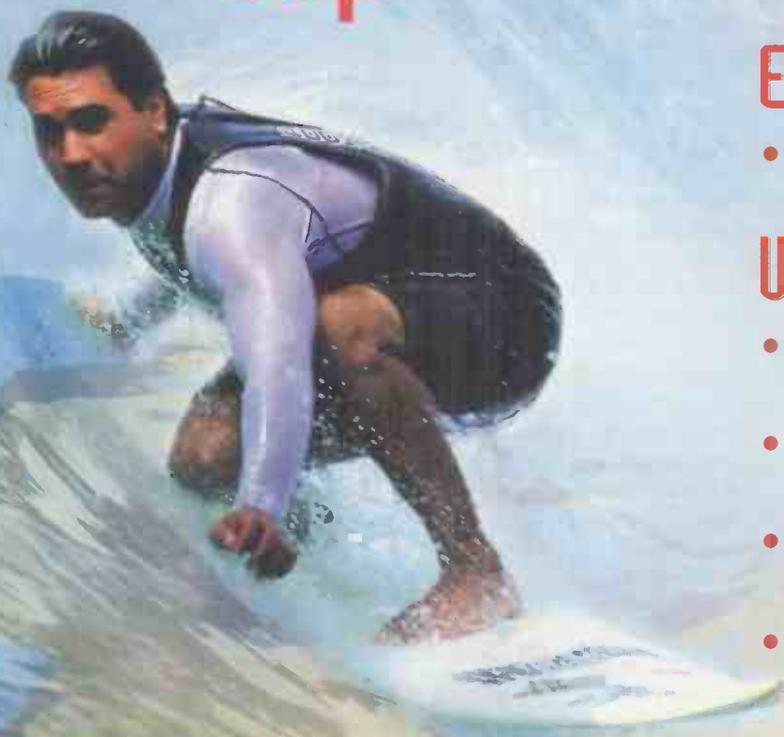
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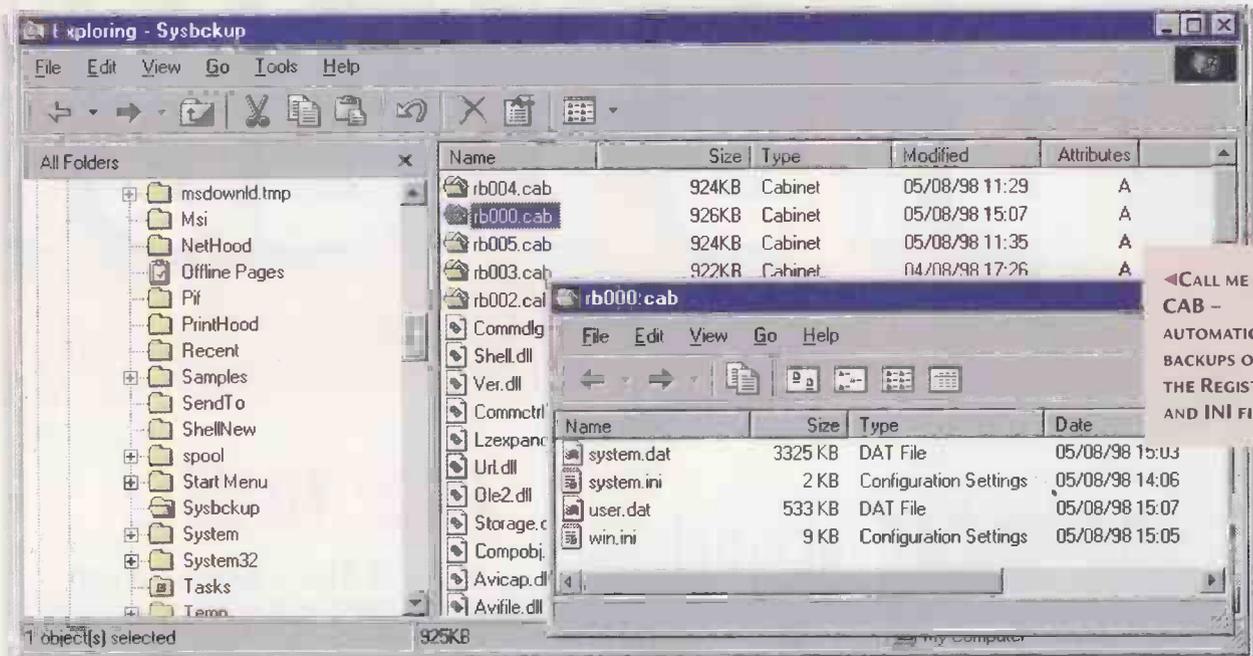
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Beta blues

Tim Nott had cleaned up his PC act, installed Windows 98 from scratch and loaded Office 2000 beta. Great, but where had the configuration backup and emergency recovery utility gone?

Three exciting things happened this month. First, I decided to do something about my monstrous Windows 98 over Windows 98 beta, over Windows 95, plus various patches installation. So I bit the bullet, double-checked my emergency boot disks, backed up the bits and pieces I might need, and vapoured the rest. I then reinstalled a squeaky-clean Windows 98 from scratch. The second exciting thing (which rather undid the hygienic effects of the first) was to install the beta version of Office 2000. The third was to back up the Registry. Well, actually, it was the second, chronologically, for obvious reasons, but it makes a better story this way around.

Now you see them...

So I set off to look for those old stalwarts, the Configuration Backup and Emergency Recovery Utility. And there they weren't. A thorough search of the CD revealed no trace of Cfgback or Eru and, as far as the Windows 98 help files and Resource Kit were concerned, these un-programs had

been written out of history. Happily, however, I did find a replacement and although it's early days yet it does look rather good. It's to be found under the Tools menu of the System Information utility, which gets installed on the Start, Programs, Accessories, System Tools menu. If you can't face the seven mouse actions involved, create a shortcut to (or simply Run) Scanregw. Under Windows 95, each successful boot created a backup copy of the Registry files, System.dat and User.dat, with the extension .da0, the idea being that if your Registry became corrupted you could replace it with these last known good versions. What usually happened, though, was that your Registry would get corrupted in non-fatal stages, so that these backups were often equally useless. So, all prudent users would use one of the aforementioned utilities, or other manual methods, to create registry backups. But both utilities were flawed. Cfgback would let you make nine different backup versions, but you needed to be running Windows to restore them. Your life-jacket

is back at the airport, so to speak. Eru, on the other hand, though it backed up other vital files and could be restored from DOS, tried hard to persuade you to back up to a floppy disk which, as anyone with a fully-fledged Registry will realise, is somewhat inadequate, size-wise. And, no, it wouldn't span disks. It just left what it couldn't fit, not backed up.

Don't boot, back up!

Windows 98 seems to have addressed this mess quite well, as far as I can tell. Every day, rather than every boot, it backs up the Registry to the Windows\Sysbackup folder which, as with 95, contains spare copies of vital DLLs and so on in case the originals get copied over by third-party software. Both Registry .DAT files, Win.ini and System.ini get backed up to a CAB file. This has the same compressed format as the Windows installation CAB files, and you can View the contents and extract

I bit the bullet, backed up the bits and pieces I might need, and vapoured the rest

individual files from Explorer. By default, Windows maintains five copies, though you can alter this by editing the Scanreg.ini file. You can also opt to include extra files for backup, too. The other half of the package is the DOS-mode utility, Scanreg (without-a-w).

Questions & answers

Q When I create a new shortcut and type in a folder's name that contains a space, such as C:\My Documents, I am helpfully informed there is no such folder as C:\My. I've got SP1 installed. Is this a bug?

NICK LEE

a Bug, Nick? Surely not. It's a feature — one that continues on into Windows 98. To stop this happening, enclose the target in double quotes, thus: "C:\My Documents". Alternatively, use drag-and-drop to create shortcuts.

Q Every time I restart MS Exchange and Compose New Fax, the "Do you want a cover page" option is greyed, leaving me to trawl through Options, Select a Cover Page, Browse. I choose one, then it tells me that it is already in the list of available cover pages: do I want to overwrite it? I click yes, and all the cover pages suddenly appear as options. We are then OK until the next time I shut down, when I have to start all over again.

SARA BOURKE

a It sounds crazy, but this happens when the Archive attribute has been removed from the .CPE files — for example by backup software. You can cure it by right-clicking on each one, choosing Properties and ticking the Archive attribute box. A more radical cure is available from a patch: navigate to the Knowledgebase on the Microsoft web site and search for COVERPG.EXE.

Q With Active Desktop installed, the content of any Explorer window with detailed view selected becomes invisible except for file attributes. The number of items in the window is given correctly but I just can't see them. Any ideas, other than uninstalling the active desktop?

GORDON FEENEY



▲ SO THAT'S WHERE THE COLUMNS WENT!

a It's not drastic enough for uninstalling the active desktop. What has happened is that someone or something has messed with the columns. Move the cursor to the column headings (or in

your case, heading) and move it to the left until it becomes two parallel vertical lines with an arrow sticking out each side. If you get just a double-headed arrow, you've gone too far. Drag this cursor to the right and you should see the first of the missing columns (Modified) revealed. Repeat to uncover the rest of the missing details.

Q A while ago I noticed that my screensaver would not come on; after a while, the screen would just go blank. I checked the Properties-

Screensaver dialog and found it set to None. After changing it back, I now find that whenever I reboot, the setting is reset to None. How can I return to having a screensaver as a default when I boot up?

MIKE CLAYTON

a Log in as the default user by restarting the PC and hitting the Cancel button when prompted for a name and password. You are now logged in as a "default" user. Set the screensaver, shut down Windows and you should find that this screensaver will now not only have "stuck" for all users, but that each user should be able to select their own, which will also be remembered.

Q Where has Fax support disappeared to under Windows 98? I can't find it anywhere on my machine or install CD.

DAVE OLDCORN

a Diligent research reveals that this is buried on the CD under tools\oldwin95\message\intl. You'll see a file called wms-fax.txt, which contains instructions on installing the fax software.

Q All the windows on a friend's PC have rather elegant title bars that "shade" from dark to light blue. Mine are boring old solid blue. How can I change them?

MARK HUTCHINSON

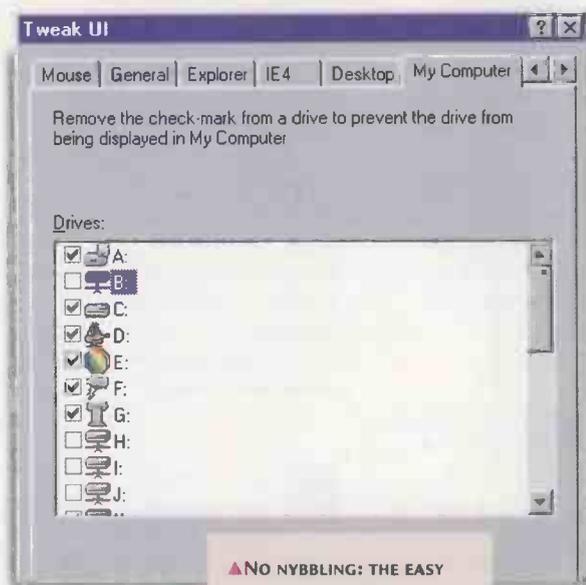
a This, again, is a Windows 98 or IE4 enhancement. Right-click on the desktop and choose Properties (or go to Control Panel, Display), then click on the Appearance tab. Choose "Active title Bar" from the Item list, or simply click on the title bar in the sample picture and if you have this facility you'll see two "Color" buttons that control the start and end colours of the shading.



▲ MY EYES! MY EYES!
ARTISTIC SHADING IN THE TITLE BAR



hands on windows



▲ NO NYBBLING: THE EASY WAY TO HIDE DRIVES

If the Registry is found to be corrupt on starting, this will automatically replace it with the last known good version (pretty much as before). However, you also get the opportunity to run this manually and select which backup set you'd like to restore. As mentioned before, you can have more than the default five (up to 99, in fact) backups, and a command line switch with the Scanregw.exe can be used to add comments which become visible in DOS Scanreg. You can find out more from the General Troubleshooting chapter of the W98 Resource Kit.

But despite the improvements, there does seem to be something left on my wish list. The back-ups are replaced on a first-in, first-out basis and I'd really like to see a way of keeping key backups, such as "this is my original working Registry with just X, Y and Z installed" or "how it was before I installed Bloatware 6.0". The only way to do this seems to be to copy the CAB files elsewhere, then extract them (but not to the Windows folder), then restart in DOS mode, then copy them back over the existing .DAT files remembering to clear and set the Hidden, Read-only and System attributes.

I decided to install Visio 5 this month. Having got through the various options of what I wanted installed where, it then asked where I wanted the Start Menu shortcuts put. Declining the default choice, I told it to stick them in my

need. And not a trace of any of the original shortcuts, which had disappeared beyond the reach of the Recycle Bin or even DOS mode undelete. So, if you install this fine product, be warned — don't specify an existing Start Menu folder.

Thanks to Sam Edge, Dave Johnson and Graham Mayor, who pointed out, *vis-à-vis* September's column, that there is another way of loading CONFIG.SYS devices for MS-DOS mode. To recap briefly, if you want to use, say, a CD-ROM drive in real-mode MS-DOS rather than a windowed DOS session, you have to specify new CONFIG.SYS and AUTOEXEC.BAT commands in the relevant PIF. However, there is a utility that lets you load CONFIG.SYS entries from a batch file. Hence, you can load both components of the CD-ROM drivers from DOSSTART.BAT, saving considerable restart time. It's called DLOAD.COM and comes with SoundBlaster cards. <ftp://ftp.creaf.com/pub/creative/patches/ctload.exe>.

Remember I wrote in last month's Q&A section about using TweakUI to hide drives and how this was related to a Registry setting? I wrote that "no doubt some bright spark will write in to tell us how the other drives are calculated." Well, just to recap, the setting is at HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer

[FIG 1] Behind the mask

```
#####ZY XWVUTSRQ PONMLKJI HGFEDCBA
00000011 11111111 01111111 10001110
03          ff          7f          8e
```

"Graphics" sub-menu, alongside the regular residents such as Paint Shop and about ten temporary guests which were taking part in a group test on which I was working. I ended up with a fulsome system of stacked menus encompassing shortcuts to all the Visio templates one could ever possibly

[FIG 2] The nybble table

HEX	BIN	HEX	BIN
0	0000	8	1000
1	0001	9	1001
2	0010	A	1010
3	0011	B	1011
4	0100	C	1100
5	0101	D	1101
6	0110	E	1110
7	0111	F	1111

It's a binary value labelled Nodrives, which defaults to 00 00 00 00 hex — in other words, all drives are visible. And the bright spark who actually got in before the column was published, as we were discussing related matters, was Peter McGarvey, upon whose orak may the sun never set. To see how the mask works:

1 WRITE DOWN the drive letters in reverse order, separated into four groups, with the first group containing six leading "padding" characters.

2 ASSIGN a 1 to each drive to be hidden, and a zero to each one to be visible. You should get four binary bytes.

3 WRITE the hex code of each byte below. You should end up with something like [Fig 1]. If, like me, you can't do this in your head and find it equally painful using the Windows calculator, use the nybble table in Fig 2 to translate each half-byte. Then reverse the order of the bytes and this will be the value that appears in the Registry. So, 8e 7fff 03 will hide all but drives A,E,F,G. And P. 04 00 00 00, as reported last month, just hides the C: drive.

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Hidden gems

Roger Gann explores the **undocumented options**, features and useful shortcuts lurking in DOS.

Back in those dim and distant days when you were supplied with proper, decent manuals when you bought software, MS-DOS was accompanied by a 300-page user guide. By contrast, Windows 98, an infinitely more complicated operating system, comes with a sylph-like "Getting Started" manual which weighs in at a mere 130 pages or so. However, as we all know, size isn't everything, and despite the thoroughness of the old MS-DOS User Guide, it doesn't tell us about the world's most popular operating system. It omitted to describe certain DOS commands that Microsoft has chosen to keep schtum about. This should come as no real surprise, because there can be few apps written that don't have at least some undocumented features. And because these DOS commands are undocumented, they don't officially exist. Microsoft maintains they are "experimental" and won't guarantee to

Many of these features hark back many years, to ancient versions of MS-DOS

maintain them from one release of DOS to another. Because of this, Microsoft conservatively recommends that you stick to the tried and tested (i.e. documented) bits of DOS and that you ignore the undocumented stuff.

In common with most other users, I find these secret DOS features intriguing. I've tracked down over a dozen of these DOS secrets for you to try and to decide for yourself, some well-known, others less so. Most are fairly trivial, it has to be said, but one or two are quite useful. Surprisingly, many of these features hark back many years, to ancient versions of MS-DOS; but many, however, still work under Windows 98! So explore away. Don't forget that because they are unsupported by Microsoft, not every version of MS-DOS will feature them.

➔ **Format /Autotest and /Backup**
These little gems first surfaced way back with MS-DOS 4.x. They allow you to format floppies with minimal hassle.

Simply enter:

FORMAT A: /AUTOTEST <CR>

This option begins reading and formatting the disk contained in the A: drive — at default capacity — without further user input. When the formatting is complete, it returns you straight to DOS. To format another disk, simply press F3, which restores the contents of the previous command line to the current one, and press Return. This command switch is a real time-saver: using the standard Windows 98 format routine, it took me 115 seconds to format a floppy disk. But by using the

/AUTOTEST switch in a DOS box, the time dropped to 50 seconds. And you don't have to keep hitting the Enter key, either. Make up a batch file with this command in it, and then make a shortcut to it on your desktop.

Cool or what? If you format a disk with a rated capacity less than the full capacity of the drive, say a 720Kb disk in a 1.44Mb drive, specify the disk's formatted size with a **/F** switch. This command formats a 720K floppy in a 1.44Mb drive: for example,

**FORMAT A:
/AUTOTEST /
F:720 <CR>**

```
MS-DOS Prompt - COMMAND
Auto
C:\>command /f

Microsoft(R) Windows 98
(C)Copyright Microsoft Corp 1981-1998.

C:\>dir a:
not ready reading drive A
Abort, Retry, Fail?
not ready reading drive A
Abort, Retry, Fail? volume in drive A has no label
not ready reading drive A
Abort, Retry, Fail? Fail on INT 24
C:\>_
```

◀ **THE /F SWITCH AUTOMATICALLY PASSES THE F (FOR FAIL) KEY WHENEVER AN ERROR CONDITION IS ENCOUNTERED**

If you want the same simple formatting routine but also want to give the disk a label, use this switch:

FORMAT A: /BACKUP <CR>

When the format is over, you may enter a volume label of up to 11 characters. When you press Enter, FORMAT provides a listing of the disk size, the space available, and the size and number of allocation units. Both these switches can be used with other FORMAT switches, such as **/U** and **/S**, though not with the quick format switch, **/Q**.

➔ **Command /F**

This is an odd one. The DOS command-line interpreter, **COMMAND.COM**, accepts a variety of switches, such as **/P** and **/E**, to modify its behaviour and you can see them all if you simply enter **COMMAND /?**. However, this list isn't exhaustive: there's another, **/F**. If you add

```
MS-DOS Prompt
Auto
C:\>format a:/autotest
Checking existing disk format.
Verifying 1.44M
100 percent completed.

C:\>format a:/backup
Checking existing disk format.
Verifying 1.44M
Format complete.

Volume label (11 characters, ENTER for none)? ginger_spice
1,457,664 bytes total disk space
1,457,664 bytes available on disk
512 bytes in each allocation unit.
2,847 allocation units available on disk.
Volume Serial Number is 215F-14F7
```

▼ **TWO LITTLE TIMESAVERS: USING /AUTOTEST CAN MORE THAN HALVE THE TIME IT TAKES TO FORMAT A FLOPPY UNDER WINDOWS 9X**



this switch after COMMAND.COM in your SHELL statement in CONFIG.SYS, then whenever DOS's critical error handler is triggered, the action in question will fail. For instance, if you wanted to copy a file onto a duff floppy, DOS would give you an "Abort, Retry, Fail?" error message. With the /F switch, DOS automatically selects Fail for you, as though you had typed "F" yourself.

➔ FDISK /MBR

This undocumented switch concerns the MS-DOS partitioning utility, FDISK, something most users won't have to use too often. By adding the /MBR switch, the Master Boot Record — as Microsoft calls the boot and partition tracks — is rewritten, without touching the partition table. The MBR is located in the first sector on a hard disk. Microsoft left the /MBR switch undocumented for a reason: some programs, such as multiple-boot programs, modify the master boot record for legitimate reasons. Typing FDISK /MBR erases the changes that these programs have made. Don't use this command if you use programs that need to modify the master boot record. For example, many users with large hard disks will use special overlay software to make sure the full capacity of the drive is available. These programs modify the Master Boot Record, and if you use this switch, the MBR will be reset to its original state and your hard disk will then "disappear". Dual-boot programs will also be zapped in this way.

Getting Stoned

As well as being useful in times of disk crisis, this FDISK switch is also a great way of despatching boot sector viruses — the most common viruses — such as Joshi, Stoned, and Michelangelo. These hide themselves in a tiny bit of executable "bootstrap" code located in the boot sector. It's this bit of code that reads the operating system in to memory. The /MBR switch makes FDISK rewrite this code, erasing any viruses hiding there in the process. Just boot from a known, write-protected system floppy and enter: `FDISK /MBR <CR>`
Note that FDISK /MBR will only eradicate the viral code in the master boot record. Nor will it fix the master partition table if it has been disabled by a virus. If this has happened, rather than repartitioning the disk — and zapping its contents in the



◀ **THE /F SWITCH**
AUTOMATICALLY
PRESSES THE **F**
(FOR FAIL) KEY
WHenever AN
ERROR CONDITION IS
ENCOUNTERED

process — employ a little-used switch that accompanies the old MIRROR command. MIRROR appeared on MS-DOS 5.0 but sadly disappeared from MS-DOS 6.2. But it is still available, on the MS-DOS 6.2 Supplemental Disk. Check your install disks to see if you still have this version of DOS. If you type:
`MIRROR /PARTN <CR>`
DOS creates PARTNSAV.FIL on a floppy disk. The file contains a copy of all your hard disk's partition tables. For convenience, keep the backup copy on a bootable floppy. If the partition data ever becomes corrupted — the DOS may refuse to recognise one or more logical drives on the hard disk — pop in the floppy containing the backup file and type:
`UNFORMAT /PARTN <CR>`
UNFORMAT, started with the /PARTN switch, restores the partition tables from the information in PARTNSAV.FIL. If the partition tables were the only part of the disk corrupted, it should be as good as new again.

➔ SCANDISK /TIME

SCANDISK is the disk media-testing tool introduced with MS-DOS 6.2 to deal with iffy hard disks. It has a number of command switches, but one not listed is /TIME. In its default mode, SCANDISK will read and write to each sector on the hard disk. Any sectors that it has trouble writing to or reading from are marked as "unusable" after the data it contains has been removed to a safe spot. It's not

entirely clear, but it seems that the /TIME switch makes SCANDISK more sensitive and can mark as bad any sectors it has any trouble reading/writing. Normally, if DOS has trouble reading a sector, it will re-try a number of times and sometimes it is successful. This is noticeable on floppies where you can hear the head tracking back and forth over a sector. But a sector that DOS has trouble accessing might be on its way out. SCANDISK will

This FDISK switch is a great way of despatching boot sector viruses like Michelangelo

only deal with sectors that have already gone bad; with the /TIME switch it can deal with those that are on the slippery slope and nip any problems in the bud, before they get any worse. It does this by timing how long it takes for the drive head to access the sector, and any that take too long are candidates for attention. To get it to run under Windows 9x, boot to an MS-DOS prompt first, otherwise the DOS version of ScanDisk won't run.

That's enough secrets until next month's column. If you know of any undocumented options or features, do drop me a line.

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Getting in step

Multiple processors can **mess up your system**. Andrew Ward takes steps to ensure a full recovery.

Laurens Leurs writes from Belgium following on from the various items on the subject of multiprocessor systems, to report that a while ago his company installed a dual-processor 200MHz Pentium Pro system which gave repeated problems with blue screens and applications failing to shut down properly. Only after replacing virtually everything within the system did the vendor suggest checking the processor steppings and, unsurprisingly, they were different. After replacing the processors with two of the same steppings, the system worked fine. So, this provides us with firm evidence that ensuring the steppings are the same in multiple-processor systems isn't just an old wives tale, but sound advice from Intel.

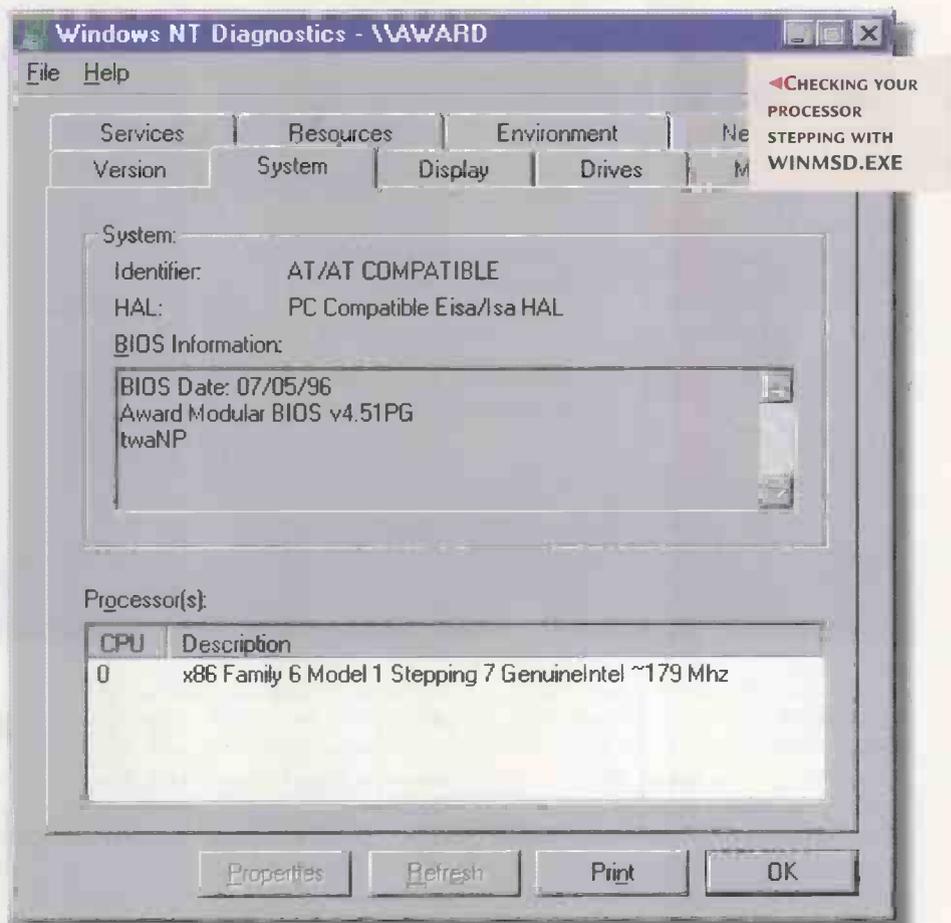
Home run

Andrew Foulsham has written in about home directories. If you follow the recommended procedure of setting up a single share to a directory called USERS (or similar), and then create individual home directories beneath that, there are two problems. The first is that users will see a long list of other directories, which is harmless but unnecessarily confusing. If the permissions are set correctly, they can't access them, but they can still see them.

The second problem is that the default directory that people log into is not their home directory, but the level above (USERS or whatever you've called it).

Applications thus can't be configured to automatically use whatever you've chosen as the network drive letter — Z: is the usual choice — as the data directory, since Z: would point to USERS rather than to the individual directory.

A third but less severe problem is that home directories created automatically have security permissions



set such that only the creator-owner (the user) has access. One implication of this is that an administrator can't

One implication is that an administrator can't even look to see who's responsible for the disappearing server disk space

even look to see who's responsible for the rapidly disappearing server disk space, for example. A workaround is to look at the backup logs. One thing is certain — there are no easy answers. If, for example, you want Z: to be the home directory, you need to create a lot of shares, which is an administrative headache, to say the least. But you can solve the first problem, and hide the

shares from appearing in a browse list, by appending a dollar sign when you create the shares (thus creating them as

\\server\%username%\$)

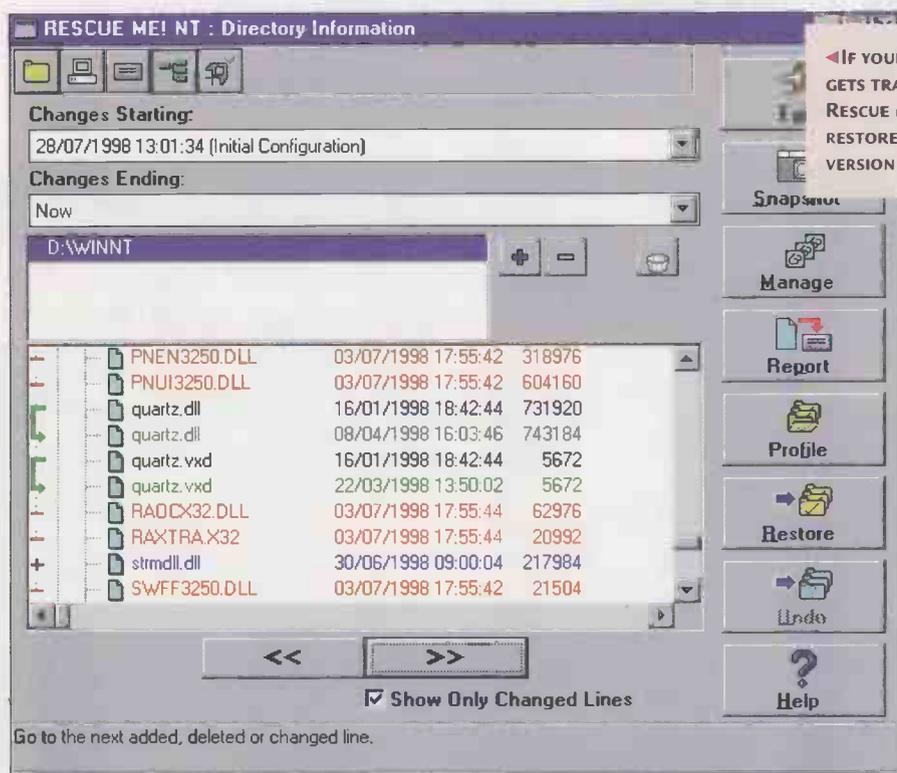
Depending on the permissions you set when you create the shares, you can solve the third problem too, and allow administrators access. Which method you choose entirely depends on your willingness to accept the administrative burden of creating and maintaining all those shares.

Giving NT the boot

There appears to be some confusion over whether it's possible to boot Windows NT from the new high-capacity 120Mb LS-120 floppy drives. Bill Jones hasn't been able to get it to



hands-on windows nt



◀ IF YOUR REGISTRY GETS TRASHED, RESCUE ME! CAN RESTORE AN EARLIER VERSION

readme.txt on the Windows NT CD-ROM gives further information on installation and possible problems. One apparently improbable effect is that you see the

message "Windows NT did not find any modems attached to your computer" when you try to detect a modem in the Remote Access Service (RAS) setup, or "Cannot load the Remote Access Connection Manager service" when trying to start the Remote Access Connection Manager service or Dial-up Networking. Furthermore, you may find that if you try to open the Modem Control Panel, nothing happens. These are due to having the Plug and Play service installed, but stopped or disabled. The answer is to go into the Control Panel and click Services, select the Plug and Play service, and change the Startup mode to automatic.

work on an HP Vectra 7 system. Well, the best information I can find is that you can only expect to boot from one of these drives if your system BIOS specifically offers it as a boot device. Usually, such a BIOS would also be able to boot from CD-ROM and perhaps even the network. Simply replacing the floppy drive with a LS-120 drive and installing the appropriate controller doesn't appear to be enough. If anyone can throw any further light on this subject, it would be very much appreciated.

Plug and pray

Mark Ovens points out that contrary to popular opinion, Windows NT 4.0 does indeed support Plug and Play ISA devices. If you remember, Plug and Play was a stopgap measure to overcome the problem of configuring adapter cards that was adopted before PCI became widely available. In theory, Windows NT 4.0 doesn't support Plug and Play, but Windows 95 and 98 do. In fact, if you hunt around on the Windows NT 4.0 CD-ROM, then in \drvlib\pnvisa\i386 you'll find two files, pnvisa.inf and

pnvisa.sys. This driver really can be pretty useful, because there's no other way to install certain Plug and Play sound cards and internal modem cards. According to Microsoft, this Plug and Play enabler "may allow the detection and installation of Plug and Play devices in Windows NT 4.0". To install it, right-click the pnvisa.inf file, select Install on

Plug and Play isn't officially supported by Microsoft, so if you choose to use it, you're on your own — literally

the menu that appears, and then restart your computer. After you restart, "you may receive a message that Windows NT has detected your Plug and Play device(s)," says Microsoft.

There are a few potential problems with the Plug and Play driver. The first is that it isn't officially supported by Microsoft, so if you choose to use it, you're on your own — literally. It really is a case of Plug and Pray. The file \drvlib\audio\sbnpn\

Rescue Me!

Following a system crash, John MacLoed now has an empty Hardware Profiles description line. Although there's a knowledge-based article on this subject (Q155974), it hasn't solved the problem for him. I can't tell him how to fix it, but

I can suggest a tool that can be of help in restoring corrupt registries and other system problems.

Rescue Me! NT is one of those programs that keeps tabs on your system configuration so that if anything should go wrong — most often, this happens when

you install a dodgy piece of software — you can wind back to a working configuration. Rescue Me! tracks changes to the configuration files, the registry, the Windows directory and even drive mappings. Certain specific files, directories and registry keys are monitored by default, and you can add additional ones to the list if they're important in the context of your system. You can take a system snapshot at any time, and typically would do so just prior to installing a piece of new

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software. The default installation takes a snapshot each time Windows starts — or more accurately, each time you log on — and you can schedule regular snapshots, perhaps once a day, or once a week. Beware, however, that there is an adjustable figure for the maximum number of snapshots you can take. And if you take snapshots too frequently, you might quickly reach this number, and the one you want to go back to will drop off the end. But bear in mind that each snapshot can potentially take up a lot of space: it may be only 1K on a Windows 3.1x system, but it's more like 8Mb on NT. Yes, that's right: keep ten snapshots, and you're consuming 80Mb of hard-drive space.

The differences between any two snapshots, or between any one snapshot and the current configuration, are readily viewable. Rescue Me! will show you exactly which registry keys and files have been added, removed and changed. It's also possible to display or print a full report, although unfortunately, in the version I tried (4.01.10), producing a report of drive configuration changes caused Rescue Me! to crash, following the removal of a network drive.

Rescue Me! is a bit strange all round; the documentation doesn't quite match

Rescue Me! will show you exactly which registry keys and files have been added, removed and changed

the program, and the installation routine is very outdated — it doesn't allow you to browse to a desired install directory, and doesn't like long directory names or ones with spaces in them. Furthermore, it doesn't appear on the task bar when running. It appears to be a rebadged version of ConfigSafe. Nevertheless, it does seem to do the job.

One feature not covered by the documentation is the ability to create

your own profiles. When a snapshot is taken, it is for a specific profile — and the profile specifies which registry keys, files and directories are monitored. For example, you might want to create a profile that just tracks registry changes, or just changes to the Windows directory. If a problem with your system does occur, perhaps due to installation of a new piece of software, you can use Rescue Me! to restore an earlier system configuration. If that actually makes

DISAPPEARING FILENAMES

A few people have written in over the months to report disappearing filenames in Explorer. Dr William Boaden describes the effect thus: **"When I double-click on a filename to edit or rename it, the filename vanishes. The icon is still there and, in fact, you can still edit the filename —without seeing it. One more click and it returns."**

Whenever readers have reported this problem, I've suggested that it might be a video driver problem, but further research by Dr Boaden has unearthed the real cause. It's actually nothing to do with the video card or driver at all. Apparently, the problem relates to the Iomega Zip drive (what, again?) and is caused by the Iomega Icons application in the startup group. This leaves the process `imgicon.exe` running, and ending this manually — or better still, taking the program out of the startup group entirely — cures the phantom disappearing filenames. Thanks for that most useful information, Dr Boaden.

things worse, you can undo the restoration — but there is only a single level of undo offered. Rescue Me! will restore registry information and configuration files, but won't replace files (such as DLLs) that were removed or changed during software installation. Rescue Me! costs around £50 and is available from major retailers such as PC World, as well as software resellers like Software Warehouse and Action.

■ **Andrew Foulsham** takes me to task for repeating the official advice that hardware mirroring should be used for best security on the boot device. His experiences with an Adaptec RAID controller for the system partition were, he says, fraught. In fact, every time he attempted to set it up in hardware (on a Siemens Nixdorf Scenic Pro with Adaptec AAA-133 controller), the system would crash after half an hour. After the usual hassles of changing every bit of hardware in sight — and haven't we all done that — and loading on the latest service pack, drivers and updates, the problem still wasn't cured. Andrew has decided that any loss in performance and security by having a single boot device is more than made up for by the gain in reliability and availability.

■ **A common complaint** is the length of time it takes to shut down systems running NT. This is especially true of servers running Microsoft Exchange. Reports of many minutes are common. One way to speed the process is to manually stop the Exchange services running, and there are two ways of doing this. One is via the Services control panel. Select the Microsoft Exchange System Attendant service and stop it. You'll be asked if you also want to stop several other services that are dependent on it — of course, say yes. The other way is via the command line, using the `net stop` command. In theory, you can just stop the System Attendant service and this will cause the other services to stop too, but this isn't reliable. It's better to create a batch file to stop all the services one by one, as follows:

- `net stop "microsoft exchange Internet mail service"`
- `net stop "microsoft exchange information store"`
- `net stop "microsoft exchange message transfer agent"`
- `net stop "microsoft exchange directory"`
- `net stop "microsoft exchange system attendant"`

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All mapped out

Mark Whitehorn puts you on the right road to **GPS systems and mapping software to use with your PDA, and ponders PDA/PC connectivity.**

I love my Psion 5, I really do. I have to keep writing that because I keep on complaining about the poor thing in this column, and that makes me feel mean. I suspect the very fact that it approaches perfection makes me rage at the bits that work less than optimally.

My current moan traces its origins back to the Psion 3 — and yes, I still have one and it still works. The PC connectivity software for version 3 was DD (DOS-based and dreadful). The main problem lay in the unreliability of the connection. I would optimistically plug the £70 cable into the Psion and the PC, then fire up the software. After the connection failed I would spend a happy half-hour restarting PC and Psion in different orders until a connection magically appeared. When and how a connection actually appeared seemed to be on a wing and a prayer.

Over the years I have moved up through the Psion range, changed to PsiWin in its various guises, and also changed PC and Windows version multiple times. Despite all these changes, I swear that the same problem still haunts me. As a matter of course, I expect to spend time restarting machines if I want the Psion to talk to the PC. The net result is that I back up the Psion less frequently than is wise.

To their credit, though, Psions are so stable that I have never lost data from a system or application

crash. The only time I *have* lost data was a regrettable incident that involved a Psion 3, a concrete floor and gravity. The bits (physical) that I recovered couldn't be reassembled into bytes (data). Ultimately, I talked to the people at Psion, who suggested some fixes:

Psions are so stable that I have never lost data from a system or application crash

➤ **Disabling** the auto com-port detection and auto-baud-rate facility [Fig 1].

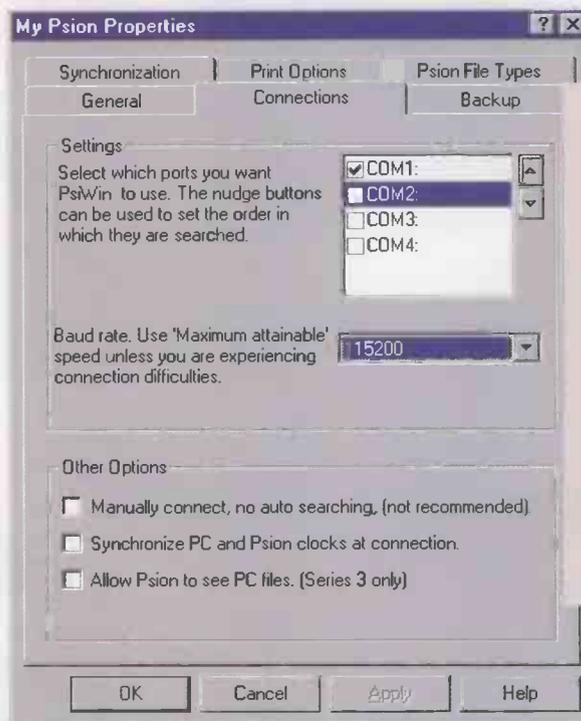
➤ **If you are** also using Windows CE services and getting this problem, remove CE Services and PsiWin. Then re-install PsiWin followed by CE Services.

I tried both the above fixes and the problem is still there. They may help you, though, so if the problem sounds familiar, try them. The people at Psion also told me that this is an isolated incident, but although I like and trust them, I have also become sick of watching cables wagging ineffectively in the air [Fig 2]. So, let's do a test: if you

have experienced similar problems, email me and I'll forward the lot to Psion. Remember that problems with earlier versions of PsiWin

are now water under the bridge and that other problems with PsiWin don't count, so the questions are quite specific:

- 1. Do you currently** use PsiWin 2.1 to connect a Psion to a PC?
- 2. Do you experience** the same kind of problems that I have described,



◀ FIG 1 IF YOU ARE HAVING INTERMITTENT CONNECTIVITY PROBLEMS, TRY THESE SETTINGS. BUT FIRST, OF COURSE, FIND OUT WHICH COM PORT THE PSION IS USING! IF THIS STILL FAILS, TRY DUMBING DOWN THE BAUD RATE — ONCE AGAIN, MAKE SURE THAT THE PSION IS USING THE SAME SETTING

establishing a connection?

3. Have you tried the above fixes?

If the answer to *all* the

above is an honest "yes", send me a blank email with the header "Me Too!". If the answer to question 2 is "no", then send me a blank email with the header "Well, it works for me!" I'll report back



▲ FIG 2 THIS IS HOW THE PROBLEM APPEARS ON SCREEN

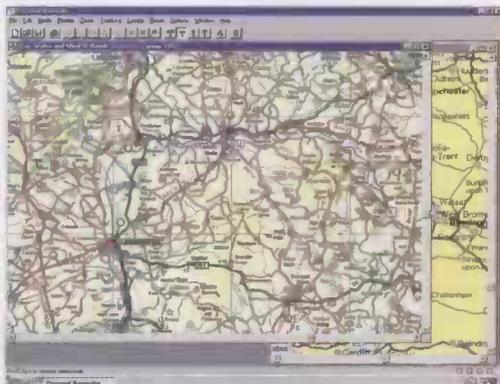
either way, and if it turns out that I am a voice crying in the wilderness, I'll apologise and stop bothering Psion's helpline.

GPS on the map

I said I'd have a look at PDAs and GPS (Global Positioning System) in this month's column. Even now, several years after the first implementations became available, I still think that the most exciting thing you can do with a handheld is to have a moving map on it. The PDA supplies the map, a GPS unit supplies your position, and you're in

business. For reasons outlined in the "Garmin" box out (p270), the need to tie the two together has essentially disappeared. But PDAs aren't just about need, they are also about fun. And this, in my book at least, is still serious fun.

A GPS unit looks like a portable phone with a small LCD and a selection of buttons but no number pad. The Americans have put a number of satellites in orbit around the Earth, taking paths which ensure that at least three of them are visible from any point on the Earth's surface, at any time. When you turn on the GPS unit, it takes a little time to acquire signals from the satellites in the sky above it. The unit then interprets these signals and triangulates its own position on the ground to within 50m or so. The accuracy could be much greater, but the Americans cause the signal to wobble in order to confuse the enemy — good thinking, as I for one will feel grateful when a thermonuclear device misses me by just 50m. (Currently, right-thinking people are trying to dissuade the US government from this paranoid view.)



◀ THIS IS HOW WE'D ALL LIKE MAPPING SOFTWARE TO APPEAR ON PDAS. THIS IS TAKEN FROM PERSONAL NAVIGATOR RUNNING ON A LAPTOP AND IT ALSO PLAYS GPS. THE PROBLEM IS THAT THESE MAPS ARE BITMAPS AND HENCE HUGE — MAPPING THE UK ALONE COMES TO ABOUT 300Mb

For the technically minded, detailed information about the GPS satellites is available from www.garmin.com. Given this piece of kit (that knows exactly where it's at) and a cable to relay the information to your handheld, all you need is software to interpret the data. This is available in several flavours.

➤ **Mapping software and GIS**
Mapping software has been available for PDAs for years and, with GPS support, for about the last three years. The GPS extras allow a pointer to be placed on the map that will move to track the

movement of the GPS unit. Take a cross-country ramble and it follows your every step. In fact, mapping software is a broad church. There is software that displays maps, there is software that can be used for route planning, and then there are GISes (Geographical Information Systems). GISes are best at "displaying large amounts of pre-supplied geographical data (i.e. where things are) in a useful form," to quote Steve Litchfield, author of Psi-Mapper.

➤ **Software**
The first GPS-aware application I used was Psi-Mapper. It was, and still is, great. Psi-Mapper/GB and Psi-Mapper/France were mentioned briefly in last month's column; see Steve Litchfield's web site at 3lib.ukonline.co.uk for more details.

The most recent version of **Mapper** (version 6) for the Psion 5 will not have GPS support due to problems with OPL/32 and serial-port communications. However, the version of Mapper for the 3a/c does have GPS support. Despite its name, Mapper displays relatively minimal road information (motorways and primary routes) and has no route-planning abilities. Its strength lies in the GIS component. A host of overlays (aircraft crash sites, Little Chiefe, etc) are available on Steve's web site. The reason for the huge number of different "overlays", as they are called, is simple. Steve has made it easy (and free) for people to develop their own and then place them in the public domain.

AutoRoute, a PC program that migrated successfully to the Psion 3a/c platform, was another good mapping program. It has better maps than Mapper but no GIS. GPS support was eagerly awaited, but Microsoft acquired the application and immediately announced that there would be no further development of the Psion version

TIPS AND TRICKS

➤ Check your GPS output

Reader Steve Litchfield suggests that the best way to check what your GPS is outputting is to install the "Comms" app on your Psion (you'll find it on the C drive). Set the parameters to 4,800 baud, 8 bits, no parity, no handshaking, and see what appears on your screen.

➤ Pocket Universe

Another reader, who signs himself as "John", writes: "Ever been out at night and wondered what a particular constellation was called? Or tried to work out where the planets are in the sky? Or maybe even tried to find the Andromeda Galaxy? Well, Pocket Universe is available for Windows CE and there are full details and a demo at www.sticky.net."

I've had a look at this web site and it is impressive. If you're a star-gazer, check it out.



◀ STAR GAZING: SCREENSHOTS FROM THE POCKET UNIVERSE WEB SITE



— so that was that. Happily, Mike Rudin produced the impressive AutoGPS that adds GPS functionality to AutoRoute 1.0. So those of you who bought AutoRoute can actually play GPS. Then there's **Route Planner**, the software formerly known as En Route. This is essentially map and route-planning software for the Psion 5 and does support GPS. Try www.palmtop.nl/enroute5.html for more information. Other applications with GPS support are becoming available; there will be a review of London Access from Dynamic Systems Research info@dynamical.com in next month's column. I'll also cover general mapping software on PDAs other than Psions.

Sync or swim

Occasionally I get spookily-similar emails arriving almost simultaneously. Consider these two as an example. Reader, Dr Simon Rollins, Simon.Rollins@emballage.boxmore.com, writes: "As an owner/user of neither a Psion nor Windows CE, but wishing to part with some hard-earned cash, I have lots of questions but no answers. Perhaps you and my fellow readers will be able to help recollect their own experiences? "My main machine is a Dell portable with French keyboard, software etc. I use Microsoft Outlook 97, also French, as are my diary/contacts list/email system, to-do lists among the Office 97 suite. I am looking for a handheld that can seamlessly integrate with my portable's Outlook 97 and which automatically remains in synchronisation. Which of the systems currently on the market do you consider to be best adapted to my needs, and why?"

Simon's email was closely followed by one from Phil Mayhall, phil@bradworthy.prestel.co.uk, who wrote: "The Psion box's advertising and documentation claims 'synchronisation with Outlook 97 and Organiser 97' — and this was one of the reasons I got the Psion. In general, it works, except, suppose I were a doctor. I keep contact (patient) data in Outlook or Organiser (the problem seems to be generic). Usually, this is stuff like name, phone, fax, first contact date, and a note containing personal details (e.g.

The claims made by some manufacturers may, in some cases, not match reality

tendency to violence, drug prescriptions or any other relevant information). "Synchronisation loses all the note (memo) data and this loss occurs in both directions." This is not synchronisation as I understand the word, and I wonder whether it is a Trades Description Act violation? I emailed Psion for help and they said that synchronisation of memo fields is not supported — find that in any of the documentation if you can.

Both of these emails are longer than the extracts I have presented here so I have included both as text files on our free CD-ROM. Isn't that coincidental? One email from a doctor about a specific problem, and then a reply from someone else which not only addresses the same

problem, but also uses the example "suppose I were a doctor".

This whole area of synchronisation between PDAs and PC-based organisers is worth examining, since I get the feeling that it is something we are all keen to do. In addition, the claims made by some manufacturers may, in some cases, not match reality. So, I'd be grateful for email on the subject. Emails along the lines of "product X is rubbish" are satisfying to send but less helpful to other people. What would be great are emails like Phil's which identify a problem and provide a possible workaround.

PCW CONTACTS

Mark Whitehorn welcomes readers' correspondence and ideas for the Hands On PDAs column. Contact him via the PCW editorial office (address, p10) or email pda@pcw.co.uk

A NEW LAUNCH FOR GARMIN

GPS III



◀ THE GARMIN GPS III COMPLETE WITH BUILT-IN MAPS

Garmin has recently launched the GPS III which, according to the makers, "includes millions of miles of highways, interstates, railroads, rivers and shorelines to show you just where you stand". Essentially, there are two flavours of GPS III: the Americas version (North & South America) and the

International version (rest of the world). Both versions show coastlines, motorways, A-roads and towns with >70,000 souls. (In places like Africa, where large towns are rare, this can drop to towns with >3,000 souls.) The Americas version shows all of this, as well as street maps for some of the big cities.

In general, this "bundling" of mapping software inside GPSes will only increase. Either that, or PDAs may soon come with GPS technology built-in. Either way, the days of needing a bit of wet string between the two are coming to an end. (but it's still fun to do!).



Cron, the time daemon

Suddenly, your system freezes... you try all the tricks you know, but still you can't free it up. It happened to Chris Bidmead, and here, he shows you how to **unravel the dark secrets** of Crond.

A couple of months ago I was in the middle of some work with Gimp — see www.gimp.org for a real treat if you don't know about this stunning, free graphics package — on the IBM PC315. Suddenly, the whole system ground to a halt. This was particularly alarming because the PC315, with its 200MHz Pentium Pro, is one of the mightiest machines on my modest network.

I tried to shift from my X screen into a virtual terminal to investigate what was going on, but there weren't enough spare cycles on the system even to do this, and none to allow me to open an xterm from which to start killing a few processes; to all intents and purposes, the system was locked up. If you're on a network, the other thing to try in a situation like this is telnetting in from another machine. But running the telnet daemon also needs machine cycles, so I was stuck.

A glance at the computer's fascia showed me that some sort of frenetic drive activity was in progress. It was a few minutes past midnight and I guessed what was going on. The system had decided to start doing some housekeeping. Unfortunately, it had chosen a time when user memory (including swap memory) was very low, most of it having been taken up with Gimp and its data: hard-drive housekeeping, when there is no spare memory, will freeze out everything else.

Crond memories

Automated processes are the responsibility of the "time daemon" crond, usually referred to as just "cron". It runs all the time, and checks its configuration files every minute to see if there is work to do. The location of these config files depends on the system you are running. At the time, I had RedHat 5.0 on the IBM PC315, and the vixie-cron this uses — named after its author, the great

free-software guru, Paul Vixie — checks in `/var/spool/cron` for various cron configuration files named after each user. The crontab utility manages these "user" cron files — where "user" can be *bidmead* or *daemon* or *news* or any of the users listed in `/etc/passwd` — which allows you to inspect and edit the cron entries. Vixie-cron additionally implements an older convention, of running the commands set up in `/etc/crontab`. This is

It was a few minutes past midnight and I guessed what was going on...

the system cron file, which is unrelated to any particular user. For the structure of these cron files, see `man 5 crontab` (as opposed to just `man crontab`) which tells

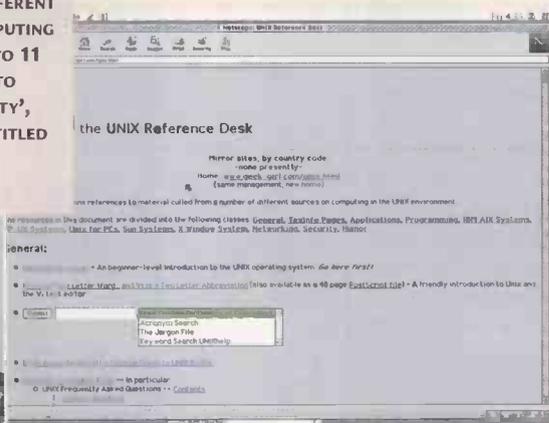
you about the crontab utility itself. If you're not familiar with the man manual utility, this can be confusing. Essentially, the man pages are divided into numbered sections dealing with different aspects of the system. If you supply a section number, you get the entry in that section; if you don't, you get the first entry that man finds. This version of RedHat has `/etc/crontab` set up periodically to run scripts that are in the `/etc/cron.<period>` directories, where `<period>` is either hourly, daily, monthly or weekly. This is a convenience, not a fundamental change to how cron works. But it means that instead of having to mess with `/etc/crontab` or the `/var/spool/cron` files, you just put a script that you want to run, say, hourly into `/etc/cron.hourly`. I searched through `/etc/crontab` for the script that had

GEEK-GIRLS (AND BOYS) IN CLASS

I get a lot of mail asking basic Unix questions, most of which I answer directly rather than recycling them through this column. A useful site is the Unix reference desk at www.geek-girl.com/unix.html (not just for girls).

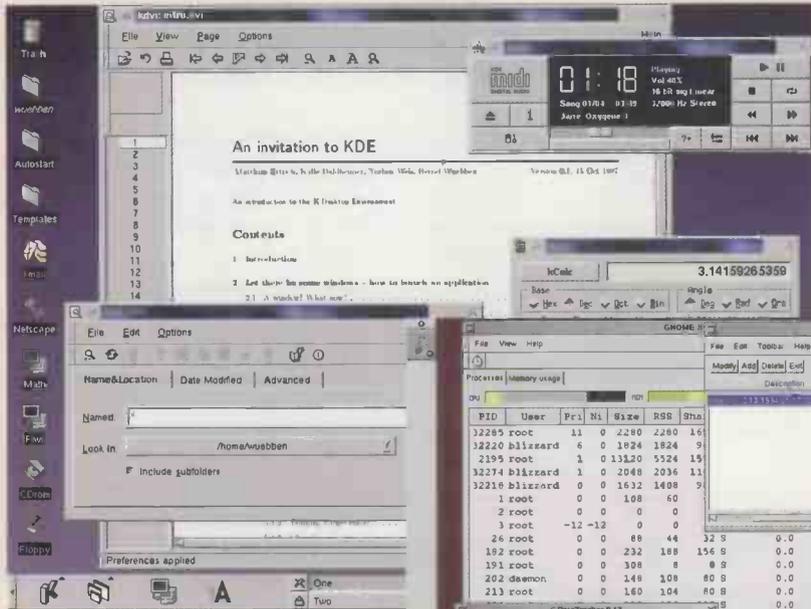
Sean Tohill sean@westminster.ac.uk tells me that the University of Westminster is offering **Unix evening classes for beginners**, and also covers subjects like TCP/IP, website development, C and Java programming. Sean has been organising some of the courses, and suggests that you email him if you want to know more.

▶ THE GEEK-GIRL SITE CONTAINS REFERENCES TO MATERIAL GATHERED FROM MANY DIFFERENT SOURCES IN THE UNIX COMPUTING ENVIRONMENT, DIVIDED INTO 11 CLASSES, FROM 'GENERAL' TO 'SUN SYSTEMS' TO 'SECURITY', AND THERE'S EVEN ONE ENTITLED 'HUMOUR'!





The Linux desktop stakes



◀ I GET A LOT OF MAIL ASKING ABOUT THE TWO MAIN CONTENDERS FOR THE LINUX DESKTOP STAKES, KDE AND GNOME. LUCKILY, YOU DON'T NEED TO DELVE INTO THE DEEP POLITICS INVOLVED TO REAP THE BENEFITS. JUST DOWNLOAD THEM. THIS IS WHAT KDE LOOKS LIKE...

▶ ...AND HERE'S GNOME. I'VE BORROWED BOTH SHOTS FROM THEIR RESPECTIVE WEB PAGES AT WWW.KDE.ORG AND WWW.GNOME.ORG. I'M NOT ACTUALLY RUNNING THEM ON MY OWN SYSTEM HERE BECAUSE, LIKE LINUS TORVALD, I STILL PREFER UNFUSSY, TRIED-AND-TESTED, GOOD 'OLE FVWM



virtually locked up my machine and found several under /etc/cron.daily. The culprit seemed to be /etc/cron.daily/updatedb.cron, which is a script that triggers the updatedb utility. This runs around all the files on your system, collecting information for the global file database used by locate.

My main problem, however, was that at 16Mb my swap file was too small. I have fixed that now, but the other thing I want to do is to modify that updatedb.cron script to check on available memory and, if it's low, delay running updatedb. I think I know how I am going to do this (hint: /proc/meminfo is an ASCII file that keeps track of available memory) but you may have some better ideas about it. So, I am going to leave this

as "an exercise for the reader" and I will publish the best solution sent to me.

■ Just lately, the trickle of email complaining that I spend too much time writing about Linux in this column has

I have to acknowledge that Linux is the fastest-evolving and most widely ported version of Unix there is

tailed off. This may be because Linux seems to be hitting critical mass and everybody is now interested in it in one way or another. When a once obscure "hackers' operating system" finds itself

being profiled in *The Economist*, you know things are getting serious. Just to recap — this is not "The Linux Column". The focus here is Unix. But I have to acknowledge that Linux is the fastest-evolving, most easily accessible and most widely ported

version of Unix there is. I know people like to describe Linux as a "Microsoft killer", but personally, I am not interested in killing anybody or anything. Linux is promulgating the Unix way of life, and

as I have said before in this column, one of the most important things about Linux is that when you are using it and learning about it, you are, in addition, using and learning about Unix.

MINT CONDITION

Here's a welcome reminder that the Unix philosophy extends far beyond any particular implementation. "I've been reading your column for a couple of years now, and I suspect there are many 'lurkers' who read it but have not yet got around to installing Linux. I thought it might be useful for your readers if I were to point out that Unix-style operating systems run on more than just PC clones and dedicated workstations. I daresay that a number of readers have old Atari STs and Commodore Amigas sitting in cupboards. If not, they can be picked up cheaply these days. Several of these will run Linux 68k (or a similar variant of NetBSD) and might be a good way to dip a toe into the water.

"My own Atari system runs neither Linux nor NetBSD. Instead it runs MiNT, an acronym that originally stood for 'MiNT is Not TOS' (where TOS is the unfortunately-named OS of the Atari) but which had the 'Not' changed to 'Now' when Atari licensed it as the core of its multitasking OS (MultiTOS!).

"The point is that MiNT will run on even the lowliest ST, and basically adds a pre-emptive multitasking OS based on BSD Unix. Consequently, a number of command-line utilities have been ported, including internet stuff and the like. There's even a version of X for it, although it's more of a curiosity than anything practical.

"As an introduction to Unix, MiNT is cheap and relatively straightforward. You can also use the GUI built in to the ST to run a 'normal' Atari program at the same time, or add a multitasking GUI to run several of them. For any real Atari fans, there is also an Atari emulator for X (called STonX) which emulates well enough to run MiNT, if you really want to get silly.

"Anyway, although this seems to have now turned into a shameless plug for all things Atari, I really wanted to point out that there are cheap alternatives for people who want to give Unix a try, but don't want to chance 'messing up' their main machine."

Mark Crutch
xav@compsoc.man.ac.uk

Thanks for that, Mark. Readers can follow up on this by visiting Mark's web site at www.compsoc.man.ac.uk/~xav. I seem to remember somebody producing a Unix port for Sir Clive Sinclair's QL (which we regarded as a terribly cheap machine at £600 in the mid-eighties) and before that the Dragon 64 had an alternative Unix-like

The point is that MiNT will run on even the lowliest ST

operating system called OS/9. Next time I see a pile of Ataris at a car boot sale, I'll view them with more respect.

A suggestion with a tinge of criticism comes from Martijn Herber, who is kind enough to call me "a lone voice in the deafening

(and dulling) roar of Wintel rhetoric, and much appreciated!". He's objecting to the space I gave, back in the July column, to Owen Kelly cpx4@hotmail.com. Owen's problem was a common one. Coming from the world of DOS and Windows, he was baffled about how to find his way around Unix. What, he wanted to know, were the equivalents of elementary

Coming from DOS and Windows, he was baffled about Unix

commands like DIR and DEL in UnixSpeak? I'm only too sympathetic to Owen's plight because it doesn't seem so long ago that I was scratching around looking for a path through the long grass. But Martijn thinks this column has better things to do than spoon-feed neophytes.

"But really, should this person not have taken the effort to read some of the very most basic docs? This kind of stuff is just something you will find in any of the online manuals," writes Martijn. A piece of online documentation that helped him get started is the DOS/Win-to-Linux-HOWTO by Guido Gonzato, from www.caldera.com/LDP/HOWTO/DOS-Win-to-Linux-HOWTO.html, among other places. He also recommends "the excellent Linux Installation and Getting Started Guide, by Matt Welsh". Like the HOWTOs, this online book is part of the Linux Documentation Project (LDP), also accessible from the Caldera site. Martijn is concerned that by spending too much time dealing with

beginners' issues, this column may be missing the point. He argues that we're being too defensive — trying to prove that "you can do it with Unix, too," rather than focusing on the unique features of the operating system and its own way of doing things. "How about some columns devoted to advanced technologies?" he asks, "stuff the rest of the industry can't do (or at least

not for the price of a couple of CD's)? And how about a look at some of the 'principles'

behind Unix? Actually, this is what drew me away from Microsoft: ideas like 'small is beautiful', 'everybody has a right to see the source code and compile it', 'make one program do one job real well', that prevail in the Unix world."

Martijn Herber,
fam.herber@wxs.nl

We have at least touched on most of these things over the course of the past five years. If you're new to the column you might want to start by checking out <http://cesdis.gsfc.nasa.gov/beowulf/> or the Jazznet site at <http://math.nist.gov/jazznet> for an insight into how Linux is powering farms of standard hardware to create cheap supercomputers. The question of Unix principles is harder to deal with. I hope it's a thread that runs through everything I write here; for an excellent and thorough discussion, let me once more recommend Mike Gancarz' "The Unix Philosophy", by Digital Press.

PCW CONTACTS

Chris Bidmead by post via the PCW editorial office (address, p10) or at unix@pcw.co.uk



Hard times

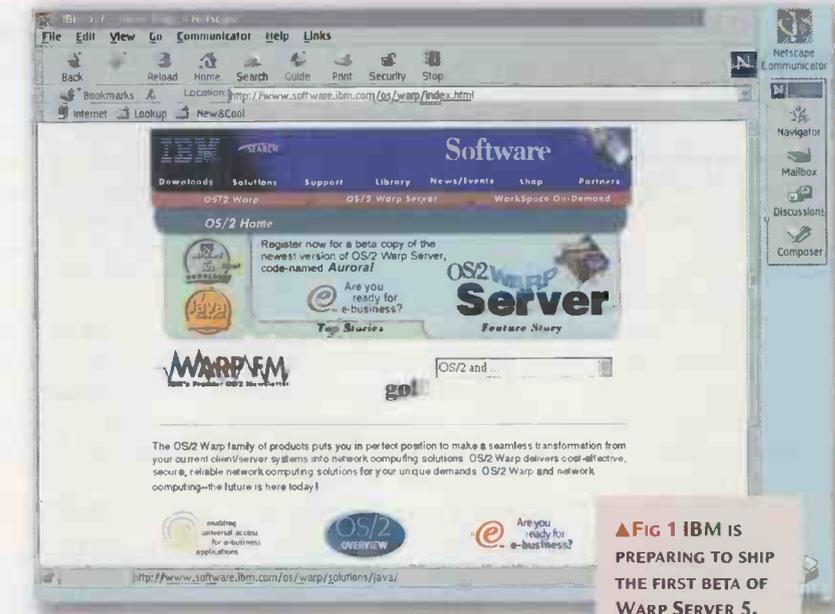
It's cheap, and it should be easy to **get more mileage** from your hard-disk space. But beware of some common problems, says Terence Green.

Now that gigabytes-worth of hard-disk storage costs pennies, many people are discovering problems when they try to install Warp 4 and Warp 3 which shipped before disk sizes began to escalate. There are some common problems. For instance, adding a new drive and discovering that Warp doesn't like it, or adding a new ATAPI (IDE) CD-ROM drive, or attempting to install Warp 3 or Warp 4 onto a new, large drive [Fig 1].

Reader Colin George discovered the problem when he bought a new Quantum 6.4Gb drive for his PC, which dual-boots Windows 95 and Warp 3. Having formatted and partitioned the new drive under Windows 95, he discovered when booting into Warp that OS/2 FDISK reported that the partition data "may be corrupt". This is expected behaviour. Since Warp 3 pre-dates Windows 95, it has no way of understanding what Windows 95 does to

...the OS/2 FDISK reported that the partition data 'may be corrupt'

the FAT data in the drive partition tables in order to enable long filenames. The answer is to obtain and install the latest version of **IDEDASD.EXE** from IBM's Device Driver Repository at <ftp://service.boulder.ibm.com/ps/products/os2/os2ddpak/idedasd.exe>. This contains updated device drivers for EIDE drivers and IDE CD-ROM drives. Note that this update specifically addresses drives which attach to EIDE interfaces — it is not required for SCSI hard drives or devices. IDEDASD.EXE is only a small file (about 130Kb) but I've placed a copy of it anyway on our cover-mounted CD.



▲ FIG 1 IBM IS PREPARING TO SHIP THE FIRST BETA OF WARP SERVER 5, CODENAMED 'AURORA', LATER THIS YEAR, WITH A SHIPPING DATE SET FOR EARLY 1999

This version (which I downloaded in early August) supports hard disks up to and over 8Gb in size. Place it in a temporary directory and execute it to extract the files, then read the README.TXT file for instructions. You will need to install the files in IDEDASD.EXE if you plan to add a new multi-gigabyte hard drive — or a removable drive such as a CD-ROM or Zip drive — to the EIDE interface in your PC. You also require the files if you are planning to install Warp 3 or Warp 4 onto a new system which contains any of the aforementioned drives. Finally, this version of IDEDASD.EXE also updates some glitches in the files of the same name which were included in the Fix Paks on July's PCW cover disc, so you should install it if you applied either Fix Pak #35 for Warp 3 or Fix Pak #6 for Warp 4.

The readme.txt file in IDEDASD.EXE explains the various procedures in detail, but readers may still find the odd glitch preventing them from accessing their new large hard disks. If, having installed the files correctly, you still have a problem accessing your new drive, you may have a motherboard that does not fully support BusMaster DMA. Since the new device drivers set

busmastering on by default, try disabling it by editing the following line in CONFIG.SYS; `basedev=ibm1s506.add /a:0 /!BM` The "a" refers to the IDE channel number beginning with 0 (zero) for the primary channel. You can type `HELP IBM1S506.ADD` at an OS/2 command prompt to display the full set of help information for this device driver.

■ **A fair number of readers** say they would like to run dual Windows 95 or



▲ FIG 2 PARTITIONMAGIC IS BY FAR THE BEST WAY TO PARTITION AN EXISTING WINDOWS 95 OR WINDOWS 98 SYSTEM TO RUN WARP AS WELL

Windows 98 and Warp systems. The best way to do this is to use IBM Boot

Manager to switch between them at boot time. You need a partitioned hard disk with one partition for Boot Manager and another partition for Warp, in addition to the primary C: partition in which Windows 95/98 usually resides.

If the drive only has a single partition, setting it up to install Warp as well will entail deleting the Windows partition in order to create multiple partitions. You can do this manually by backing up all your data, deleting all partitions and re-partitioning. Or you can use PartitionMagic from PowerQuest [Fig 2] to do it on the fly. You should still back up all vital data, but at least you can prepare the drive from a graphical console without requiring a master's degree in PC drive partitioning.

Unless you are a drive partitioning expert, I recommend PartitionMagic because it will also help you to bypass the FAT32 problem. Warp cannot see partitions formatted with the FAT32 file system which was introduced with Windows 95 OSR2 and carried into Windows 98. In order to install Warp on a PC, it must have at least one partition formatted for FAT16. You don't have to keep the partition formatted FAT16, but Warp Installation won't work if it can't find either a virgin, unpartitioned, first physical drive or a FAT16 partition on that drive.

■ **Good news arrived** in August when the first beta of Netscape Communicator

ASSIGNING DRIVE LETTERS

Reader Esmond Poynton, having moved from Warp 3 to Windows 95 and now wishing to reinstate Warp, would like to partition: a 4.3Gb drive with Windows 98 on C:, a Zip drive as D:, a CD-ROM on E:, and Warp on F:.

Clearly, he wants the drive letters to remain the same in both systems, but Warp will not allow drive letters to be assigned to removable drives ahead of fixed drives. So, in practice, the drive letters will be assigned as follows:

➤ **C:** Windows 98 (fixed drive)

➤ **D:** Warp (fixed drive)

➤ **E:** ZIP drive

➤ **F:** CD-ROM drive

This holds true with a FAT-formatted Warp partition but if you select HPFS for Warp, Windows 98 will not see the Warp partition and the ZIP drive will become D: when booted into Windows 98, while the CD-ROM will become E:.

The solution is to assign the required drive letters to the ZIP and CD-ROM drives in Windows 98. This can be done from Windows 98/Control Panel/System/Device Manager by highlighting the drive,

clicking on Properties and assigning the same letter to the drive as it has when booted into Warp.

It is also necessary to install Fix Pack #35 (or later) for Warp 3. FP35 adds the full support for removable drives which enables Warp to automatically assign drive letters to the ZIP drive. The same holds true for Fix Pak #6 and Warp 4. Both Fix Pak #35 and Fix Pak #6 can be found on PCW's July 1998 cover-mounted CD-ROM.

See page 10 of this issue for information on how to obtain back issues.

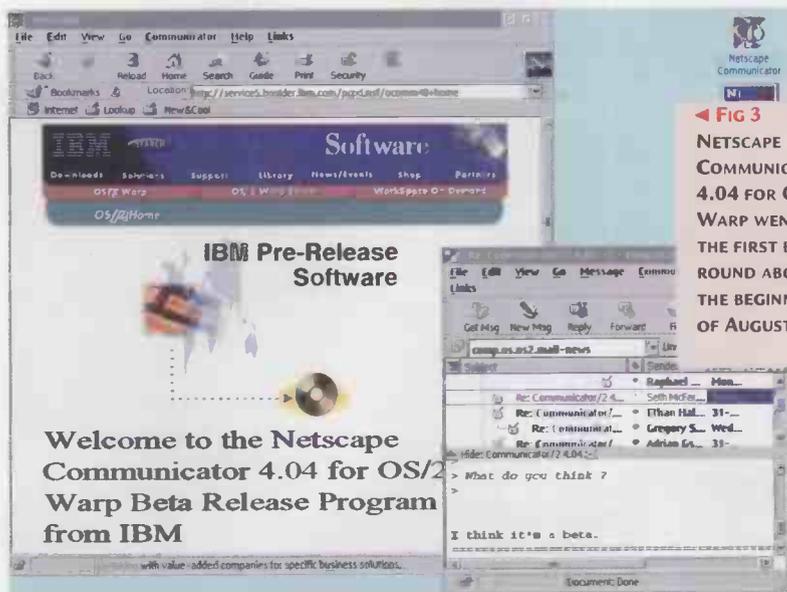
4.04 for OS/2 shipped [Fig 3]. I've had a chance to play with it and it looks pretty good. There's another round of beta testing to come which may not be out by the time you read this; but if not, it won't be long. It's modelled on the same code as the Windows-based Communicator

versions and has pretty much the same look-and-feel to it. You won't find the Netscape Communicator beta on our cover-mounted CD-ROM, as I've decided against including beta software for two reasons. First, given the long editorial lead times for this column, we could find ourselves publishing beta software around the time the shipping product appeared. And second, I have received only one reply in favour of providing betas on the PCW cover disc — so, sorry, Phil Harrison, but you've been outvoted.

Phil also suggested keeping major downloads, such as Fix Paks, on cover-mounted CD-ROMs for as long as they are current. This is a fine idea, but unfortunately the pressure for space on the PCW CD-ROM makes this impossible. You will just have to buy the magazine every month or, better still, subscribe [see p10].

PCW CONTACTS

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◀ **FIG 3**
NETSCAPE COMMUNICATOR 4.04 FOR OS/2 WARP WENT INTO THE FIRST BETA ROUND ABOUT THE BEGINNING OF AUGUST



Mind your language

Avoid that US English proofing in Windows, as Tim Nott presents a way to **change languages** from the system tray. And, good news for victims of WordPro 97 dictionary syndrome.

In September's column, we finally (or so I had thought) laid to rest the mystery of why Word insisted on defaulting to US English as the proofing language. It was, it turned out, all related to the Windows keyboard settings. The positive side of this is that you can use the multilingual support of Windows 95 or 98 to change languages from the System Tray — that bit of the Task Bar where the clock lives. Several readers have asked how you

enable this, and Matthew Trump, of the British Council in Slovenia, provided the final, missing piece of the puzzle: **Go to** Windows Control Panel, Keyboard, and select the Languages tab. **Click** the Add button and select the additional (or default) language you want to use for proofing. **Highlight this**, and then click the Properties button. You will then (as I missed, but Matthew didn't) get the opportunity to choose

the keyboard layout independently. If you are using multi-lingual proofing, then having enabled the Taskbar icon (or keyboard shortcuts) you will be able, for instance, to click on this, switch, say to French proofing, without having to use the AZERTY layout, exactly the same (though much quicker) than using Word's Tools, Language, Set

Language. Even if you are using just one language but, like Bob Monroe, want to proof in British while using a US keyboard layout, you can do this by altering the properties of the default language (British) to use the US keyboard layout.

WordPro woes

At last, some good news for victims of the user-dictionary-goes-read-only syndrome in WordPro 97. John Birtwistle brought to my notice a document on the Lotus Web site www.lotus.com which acknowledges the problem. A search for the document 147344.txt reveals that: "While using Spell Check (File, Check Spelling) the system crashes. The system is then brought up and the spell check is resumed. Attempting to add a word to the user dictionary results in the following error message: 'Cannot modify user dictionary because it is in use by another program'." It doesn't actually address the problem of why the system crashes, but does tell us of a fix which, as we had surmised, is to remove the read-only attribute from the user dictionary file: typically C:\Lotus\Compnent\Spell\LTSUSER1.UDC. **There is better news**, though. First, as John points out, this has been fixed in subsequent releases: his version N97.807.0 doesn't exhibit the problem. Second, as William Sutherland informs us, there is a repair patch for existing victims at www2.support.lotus.com/ftp/pub/desk/Drivers/win95.



► **FIRST CHOOSE YOUR PROOFING LANGUAGE...**

► **...THEN CHOOSE THE KEYBOARD LAYOUT**

Alt+Shift Ctrl+Shift None

indicator on taskbar

OK Cancel

QUICK TIPS

► **If you're sending** WP documents as email attachments, stick to using the Windows TrueType core fonts (i.e. Arial, Courier New and Times New Roman in Windows 95) unless you are sure the recipient has any other fonts you may be using. Otherwise the missing fonts will be substituted (often by monospaced

Courier) on the recipient's machine, which will almost certainly mess up the formatting, particularly if you are using tables or columns.

► **I mentioned** (July issue) the annoyance of having Word auto-complete dates and that turning off "Show AutoComplete Tip..." gets rid of this. Gary Porter,

who "finds AutoCorrect annoying and useful in about equal quantities", has an alternative method "...when the yellow suggestion box pops up, hit Esc to continue as normal."

► **If it's important** that they see other fonts you may want to use, then it can be possible to embed the extra fonts in the

document. There's an option in Word's Tools, Options, Save. However, there are three snags. First, not all fonts support this feature; it's at the manufacturer's discretion. Second, it will add substantially to the file size. And third, it may limit the recipient's ability to edit the document.

Questions & answers

Q Two problems. My phone number has the number 50 twice in succession: is there any way to add this to any dictionary to stop the Word spell-checker making a halt? Similarly, when I write the Australian states (e.g. N.S.W.) the same thing happens: the spell-checker stops without the possibility to hit the add button.

Bob Reksten, Monaco

a I can't think why it won't let you add N.S.W. Perhaps the user dictionary has caught the WordPro bug (see WordPro woes, left)? With regard to the number problem, this is because your phone number is formatted the French way, with spaces between each pair of numbers, and you can't add "50 50" as a word. There is a solution to both problems, however. Go to Tools, Options, Spelling and Grammar, then tick the two boxes entitled "Ignore words in UPPERCASE" and "Ignore words with numbers".

Q Whenever I cut text and paste it into Word from, say, a web browser it is often full of return characters which I don't want. I can't find an easy way of getting rid of them.

Nick Bowen

a Nor, it seems, can Word's Autoformat. The simplest thing is to record a macro. Usually, such texts will contain a return at the end of each line, which you don't want, and two returns at the end of each paragraph. You will usually want to keep the paragraphs, so turn on the macro recorder and do a

search for ^p^p, (^p stands for the return symbol in Search), replacing it with @#~@, or any other symbol combination strange enough not to appear naturally in the text. Hit the Replace All button. Repeat the process to replace all single occurrences of ^p with either a space (if there are no spaces at the ends of a line) or nothing if there are spaces before each return. (Hint - turning on All Formatting Marks from Tools, Options, View helps establish this.) Finally, repeat to substitute single paragraph marks (^p) for the dummy @#~@ symbols.

Q Using Word 97, I was making a short list of quotations when I gained a line across the page which was very difficult to get rid of. I couldn't find anything in Help and it wouldn't delete. Eventually I chased it away by re-copying all the text to a blank sheet as unformatted text. I suspect that I may have caused the appearance of this line by putting about a dozen hyphens between each quotation. How can I avoid this happening?

Michael Burch, Oman

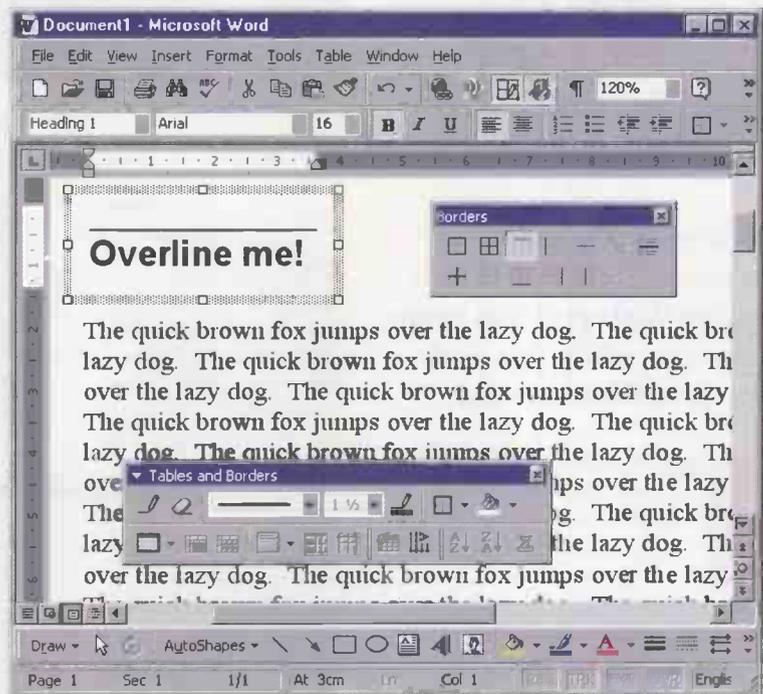
a Yes, as you suspected, it's those hyphens. Word is very cleverly assuming you want these (and various

other repetitive patterns) converted into top paragraph borders. To turn this cleverness off, go to Tools, AutoCorrect, AutoFormat As You Type, then untick Borders in the top section.

Q The feature I miss most from Ami Pro, now that I use Word, is the ability to format text with a line above it, extending the width of the text rather than the paragraph. I've tried selecting the text and using both the drop-down border button and Format, Borders and Shading in a variety of combinations. In all cases, what I end up with is either no line at all, a box around the text, or a line above the paragraph, extending to the margin width.

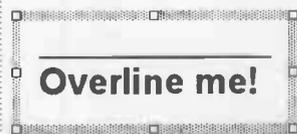
Mike Schorah

a As you've discovered, attempting to do this with borders is an excellent way to drive oneself barking mad. If you just want to do this to a heading, then one way is



▲ IT CAN BE DONE - USING A TEXT BOX TO CREATE A TOP-ONLY BORDER

to create a single-cell table. You'll find you can then format each cell border separately. This will also work with text boxes. You need to format the text box itself to have a "No Line" outline colour, then use the border tools to create a top-only border inside the text box. Alternatively, if you want to do this in the middle of a paragraph, say, you can use the drawing tools, but as it's something of a fiddle to get the line to stay in the correct position, it's advisable to do all your other editing first.



PCW CONTACTS

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hands-on spreadsheets

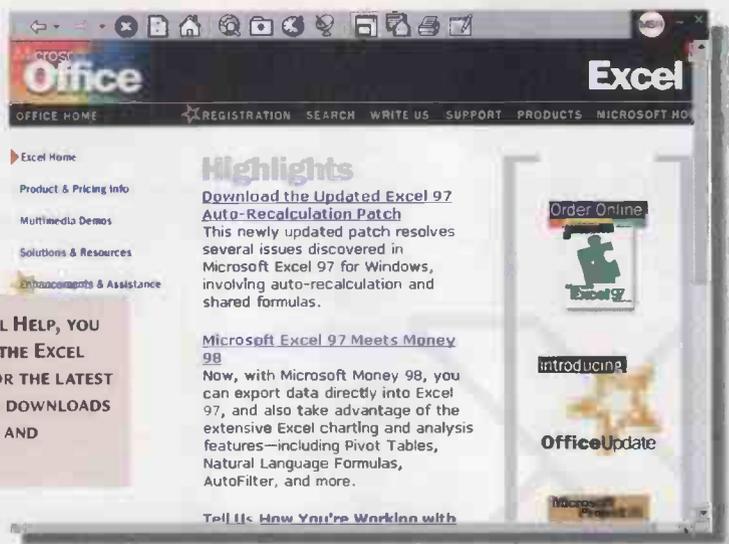
Taking the hint

Don't lose your cool when you're **up against it in Excel**. Stephen Wells presents some sharp tips to help you work with spreadsheets faster.

This month I have looked at a range of the most effective ways to use spreadsheets without losing your mind. Here are some of the best Excel hints and tips around.

- **The difference between the FIND and SEARCH functions:** You can use either to find one string of text within another, but FIND is case-sensitive (it knows the difference between capitals and lower case) and SEARCH allows wildcard characters (? and *).
- **How to enter,** say, a nine-digit part number as 012345678 and have it display as 0 123 45 678: Create a custom format for the column using 0 0## ## ###. The first zeros let you start with zeros if required. This format is a number, not text, and in other cells you can add and subtract from your entries.
- **How to save** a workbook to the

➤ **VIA EXCEL HELP, YOU CAN GO TO THE EXCEL WEB SITE FOR THE LATEST DEMOS AND DOWNLOADS OF PATCHES AND TEMPLATES**



- Desktop: Choose File, Save. Excel, by default, saves files in the My Documents folder. In the Save In list box, click the Up One Level button three times. Now the Desktop folder name displays and you can save your file.
- **You can display** a date as 5/7/98 rather than 05/07/98: This is one of the standard offered Date formats but not Excel's default version. Right-click and choose Format Cells, Date and then pick the right type.
- **How to get** a record of the files initially installed by Office 97: In the directory C:\Program files\Microsoft Office\Office\Setup look for the file ACME.LST. You can open it with WordPad.
- **You can display** two Excel worksheets at once: Choose Window, New Window, then

- Window, Arrange. Choose among the arrangement options, then OK. Select from the tabs at the foot of one Window to pick the second sheet to display. To show more tabs, hold the mouse button and slide the vertical line to the right of the visible tabs.
- **Reverse the order** of two displayed worksheets: When one is active, right-click on the Title Bar of the inactive sheet and choose Arrange, OK.
- **To jump from** one Window to another: Press Ctrl+F6.
- **The fastest way** to insert a block of cells: Select the range where you want the new block inserted. Hold down the Shift key, then drag the fill handle at the lower right of the range.
- **The fastest way** to copy a range of cells to several worksheets: Hold down the Ctrl key and click the tabs of the sheets to which you wish to copy the range. Select the range. Then choose Edit, Fill, Across Worksheets, All.
- **And the fastest way** to total a range of figures: Click the cell where you want the total then double-click the AutoSum tool. This bypasses the step where Excel normally outlines the cells to be totalled.

LANGUAGE BARRIER

In the May '98 column, reader Steve Lyons had a problem with Excel 5.0: he works in England for a company which also has offices in Switzerland, and was experiencing problems opening some spreadsheets from the Swiss branch.

William Crichton, at Kodak, throws some more light on the matter: "With reference to your article in the May issue, I have experienced this language problem — exchanging Excel files between offices — because I deal with other European countries. The simple fact is that all the other



language versions of Excel include the English DLLs, and so on, but the English version *only* has the English ones. "This means that if the macros are written in an English version, all other European versions can run them but not vice-versa. Therefore, international companies should standardise on the English version."

PCW CONTACTS

Stephen Wells invites feedback on the Spreadsheets column. Write to him via the PCW Editorial office (address, p10) or email spreadsheets@pcw.co.uk

Questions & answers

Q You have previously described using the SUBTOTAL function for Excel, Lotus and Quattro Pro. But is it possible to use a variable number of rows in the SUM or SUBTOTAL functions? This might be used where columns of data are slowly increased in length as new entries are added. In Excel, the SUM function might read =SUM(A1:A10) after one iteration, but will then need to read =SUM(A1:A11) after the next. Can I vary the length of the SUM command?

JEFF DUNN

a *The traditional way around this is to select your current range plus another row at the bottom (blank) and give it a Name. Then write your SUM function using the Name.*

Q I have one machine running Windows 3.11/Excel 5 and another running Windows 95 and Excel 7. After loading some spreadsheets in v7 and then back into v5, I get the error message "File format no longer supported". It only seems to happen for files containing macros, and I get the same error message when I try to record any new macro in v5. Re-installing Excel 5 doesn't help. It's rendered v5 useless and is driving me mad.

JIM POLMEAR

a *You can save an Excel 97 file in the dual format: "MS Excel 97 & 5.0/95 workbook", or "Excel 5/95 workbook", or "Excel 4", but there is no option to save in Excel 5 for Windows 3.11. You should probably*

save it in Excel 4, then open that file in Excel 5 (although I don't have Windows 3.11 around to try it for you). As for macros, it is two different systems. VBA has changed too much between versions for backwards compatibility. And lot of people, I have realised, suffer these same problems when they have an up-to-date platform at home, when their office, because of potential multiple-unit hardware costs, lags behind.

Q Owing to changes in my business, I have re-read your *Financial Analysis* series of articles. Did the templates, especially for the service company, ever get onto a PCW cover CD?

PETER HARRIES

a *This series appeared in PCW from the September '94 to January '96 issues. The templates were repeated on the cover-mounted CD-ROM on our May '97 issue (see p10 for how to obtain back issues).*

Q In Excel 97, is it possible to change the format of a cell within a formula? I have a column of dates and a lookup table of payment dates. If the date in the cell matches a date in the lookup table, I want to be able to format the text in red. I'm sure you used to be able to do this in SuperCalc.

Also, I picked up a nice little World Cup spreadsheet the other day, and in the background there was a wallpaper effect with France 98 on it. I can't figure out how this is done. It doesn't appear to be in the cell formatting. Do you have any ideas about this?

ANDY BETES



FIG 1 A GRAPHIC CAN BE REPEATED AS A WALLPAPER-LIKE BACKGROUND IN EXCEL (SHEET 1) OR USED AS A HYPERLINK (SHEET 2)

a *To format text red under certain conditions, choose Format, Conditional formatting. And also read "Apply conditional formats to cells" in the Help file. To add a background graphic, choose Format, Sheet, Background and select a graphic like the pigs in Fig 1 from, say, the Office CD-ROM. If you want one large scene, not repeated on the page, resize the graphic before you import it or pick a large graphic (Fig 2). To use a graphic as a hyperlink — meaning, you can click on it to go somewhere else — choose Insert, Picture, ClipArt, like the phone boxes in Fig 1. Resize with the corner handles, then press Ctrl+K and assign the hyperlink.*

Q Is it possible in either Excel 95 or Excel 97 to put a line feed within a cell so that a long sentence wraps around onto a new line but within the same cell, like word wrap?

ANDREW JOHNSON

a *To display multiple lines of text within a cell, first select the cells you want to format. Then, in the Format menu, click Cells and then click the Alignment tab. Under Text control, select the Wrap text check box.*

To start a new line of text at a specific point, you just click in the formula bar — or cell, if you are editing in the cell — where you want to break the line, and then press ALT+ENTER.

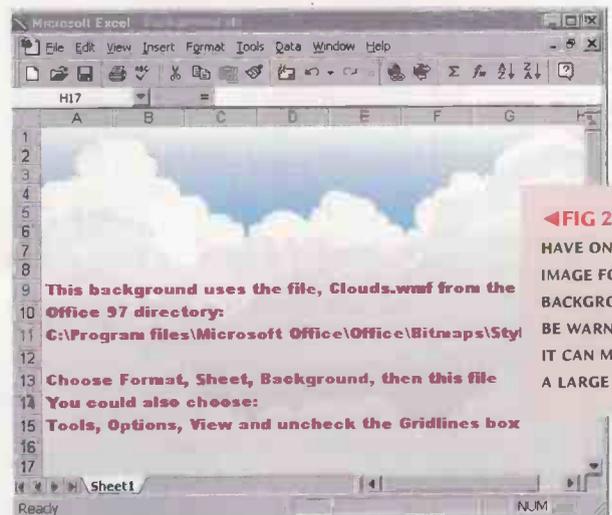


FIG 2 YOU CAN HAVE ONE LARGE IMAGE FOR THE BACKGROUND, BUT BE WARNED — IT CAN MAKE FOR A LARGE FILE



Road to recovery

Damaged database? Lost information? Mark Whitehorn forms a one-man anti-corruption squad to root out repair options and ways to recover lost information.

In my experience, well written, single-user Access databases are very reliable, and corrupt databases are rare. Corruption becomes more common — but still very infrequent — when multiple users access the same database file. Of course, it is perfectly possible to write an Access application so badly that it actively mangles the database. But, presumably, since we are all too smart to actually ever do that, it is never a problem in real life. Well, not entirely. On rare occasions Access databases do become corrupt and I've received several letters asking about ways to recover information from such databases.

Single file

An Access database stores everything in a single .MDB file — that's tables, data, queries, forms, reports, code, macros... the lot. The internal structure of this file is horribly complex and although the specifications may have been published, they are certainly not well understood. To add to the complexity, the structure changes with every upgrade (BTW — the most recent version, Office 2000, for the first time in history can actually write files in the previous version). It is fairly common, however, particularly with multi-user databases, to store the data in one .MDB file and store the rest in another. I recommend this strategy, but for the purposes of this article I shall presume a single .MDB file: in practical terms there's little difference between dealing with either arrangement. Damage to a database can affect either the data or the components that comprise the database structure, or both. Occasi-

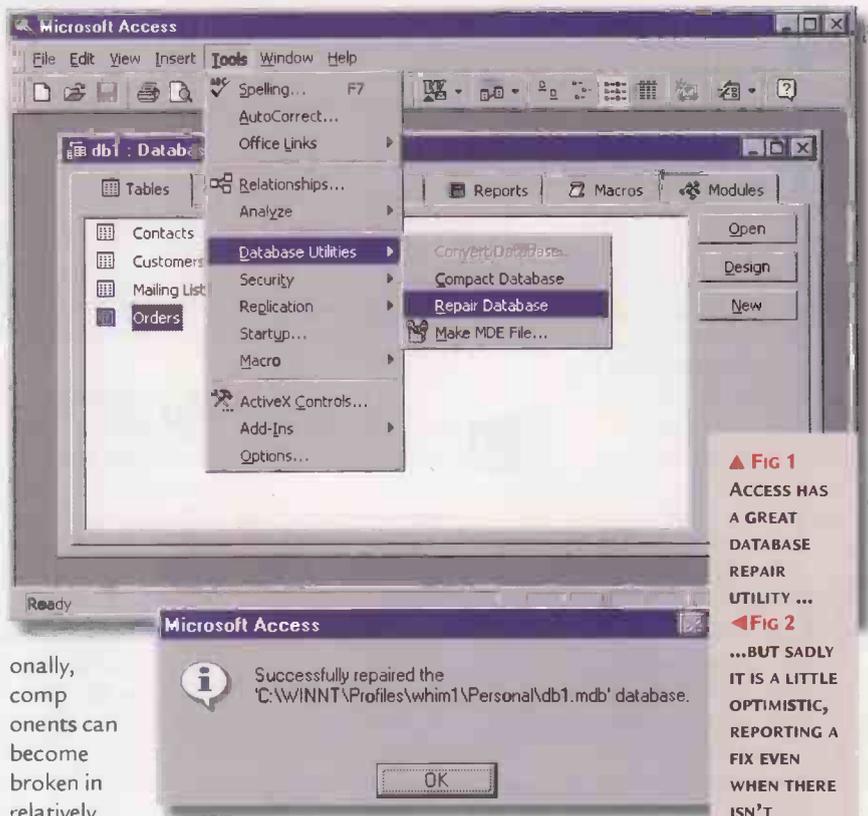
I let it run for a while, but my nerve finally ran out and I killed the print job at 7000-plus pages

onally, components can become broken in relatively subtle ways.

One I experienced recently was a form that appeared perfectly normal when it was used to look at data, but whenever it was used to print records, it printed those requested and then continued to print an apparently infinite set of blank pages. I let it run for a while to see where it would stop, but my nerve finally ran out and I killed the print job at 7,000-plus pages. Before Greenpeace put me on a hit list, these were virtual pages in the print queue. It goes without saying that you will be making regular backups to disk or tape, of any and all MDB files that you use. But think about saving the old backups (essentially making them incremental) using a simple naming scheme like 10DEC1998.MDB. This will provide a series of snapshots of the database at particular points in time. So, imagine that you have a database

which opens and all of the components work, except one, say a form that has gone rogue. What can you do?

➤ **Immediately** make two or three copies of the damaged database and work on one of these. That way, things won't get any worse. If the form is simple, just delete it and recreate it. ➤ **But what if** the form is complex and would be time-consuming to rebuild? Try running Repair Database from the Tools, Database Utilities menu and see if that helps [Fig 1]. The repair utility will tell you if it can't fix a problem, but blithely reports that it has successfully repaired the database [Fig 2] regardless of whether it found anything to repair or not! ➤ **What if** that didn't work? Assuming that you have incremental backups, work your way back through the files until you reach a working version. There's no absolute path to follow now, but working logically and methodically you can swap-in the working component



▲ FIG 1 ACCESS HAS A GREAT DATABASE REPAIR UTILITY ... BUT SADLY IT IS A LITTLE OPTIMISTIC, REPORTING A FIX EVEN WHEN THERE ISN'T ANYTHING WRONG. THIS MEANS YOU CAN'T TELL WHETHER IT HAS FOUND A PROBLEM, LET ALONE FIXED IT

from this .MDB file to replace the rogue one. Incidentally, queries are among the easiest to swap as you can open one in design mode, go to the SQL code and cut and paste that. Since this is pure text, it usually transfers well. As another aside, before anyone tells me that you can't

Most of this comes down to using common sense and trying not to panic

open two .MDB files at once in Access — I know. This makes cutting and pasting between .MDBs a pain. However, there is nothing to stop you running two instances of Access on the same machine and flitting between them with Alt-Tab.

➤ **Think about** what is vital in the .MDB file. This is usually the data, so try exporting it as text files. That is relatively straightforward, and if it can be achieved, you can relax a bit. Then create a new .MDB file and try to import the tables into that from the damaged .MDB file. If you can do that, then you have rescued not only the data but also the data types etc.

➤ **Next, start moving** components, one at a time, from the damaged to the new .MDB. Clearly it makes sense to try to identify the damaged component(s) and move everything but these. It also makes sense to check that everything is working at each stage of the replacement to ensure you haven't reproduced the problem. If the database has hundreds of forms, reports and so on, copy them in batches and continue to test to see if you've brought in a duff component.

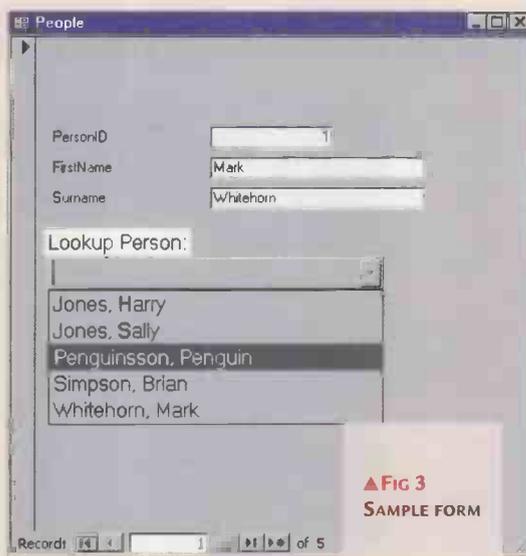
Don't panic!

To sum up, most of this recovery process comes down to using common sense and trying not to panic — and keep taking the incremental backups.

PCW CONTACTS

Mark Whitehorn welcomes readers' suggestions and feedback for the Databases column. He can be contacted via the PCW editorial office (address, p10) or email database@pcw.co.uk

THE CRAFTY COMBO BOX



The following combo-box tip comes from Chris Veness chrisv@movable-type.co.uk.

"The standard 'navigation buttons' normally displayed at the bottom of forms generally correspond to working through an unsorted list one by one. I often find a better way of allowing users to find records is the combo box.

Take a form showing information about people and assume the form is based on a table

which includes fields for PersonID, FirstName and Surname. What I generally do is create an outsize combo box named something like LookupPerson (I also make it the same colour as the form, and raised, so that its appearance distinguishes it from fields used for entering information). The Control Source is left blank so that it is 'unbound' and the Row Source is set to something like

```
SELECT PersonID, Surname & ", " & FirstName AS Name
FROM Person
ORDER BY Surname & ", " & FirstName;
```

"The Column Count should be 2, the Bound Column 1, and Column Widths set to 0cm to hide the first column (the width of the second column doesn't need to be specified). It's best to set Limit To List to Yes and AutoExpand to Yes, and probably to leave the List Width at Auto. This creates a pick list that will show all the people in the database, in alphabetical order.

"Now we have to make it look up the details for the person selected from the list. This is done by associating an event procedure with the After Update event of the combo box. This will be along the lines of:

```
Private Sub LookupPerson_AfterUpdate()
Me.RecordsetClone.FindFirst"PersonID = " &
Me!LookupPerson
Me.Bookmark = Me.RecordsetClone.Bookmark
End Sub
```

"FindFirst won't operate directly on a form, so we have to use the RecordsetClone property of the form. Doing a FindFirst on the RecordsetClone won't affect the form until we synchronise it by setting the form's bookmark to the RecordsetClone's bookmark. Not only is this pick list easier to use, the auto fill means that the user can type the first few letters of the name and the pick list will automatically move to the matching entry."

Nice one, Chris! I have built a sample form [Fig 3] based on Chris's idea and it's on our cover-mounted PCW CD-ROM this month. Admittedly, I know it is in Access 97, not 2.0, but unfortunately the portable on which I am writing this doesn't have Access 2.0. However, all I did was follow Chris's instructions, so Access 2.0 users should be able to whip up the same sort of thing in about five minutes. Bear in mind that while this combo box works beautifully for small sets of records, it will get slower as record numbers increase.



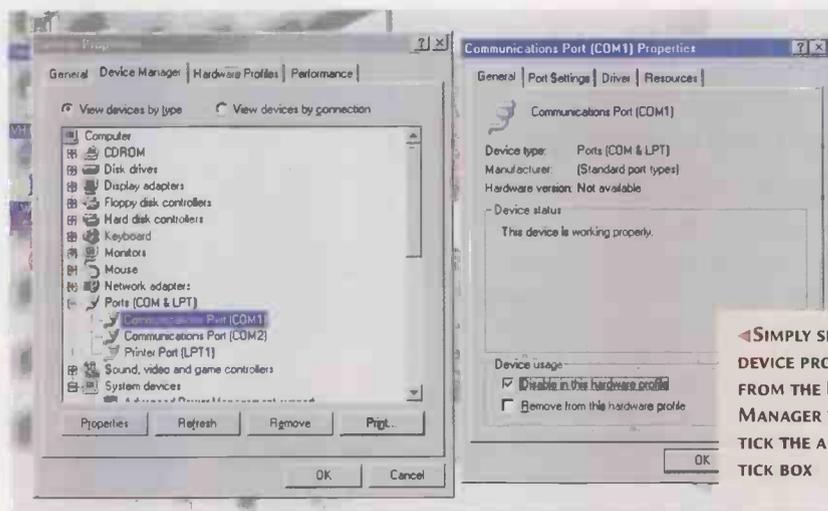
Making the connection

Roger Gann gets to grips with the profusion of **SCSI connectors**: tackling the installation of Ultra 2 SCSI, and a fine example of how hardware profiles can be an invaluable diagnostic tool.

As promised last month, I'll round up my musings on SCSI with some leftovers and tidbits. As you will have seen from the screenshot in last month's column, there are as many different types of SCSI connectors as there are standards — too many, in fact. Some of them were defined with SCSI-1 and are now obsolete, like the DB-50 connector, even though you still find it on current Apple Macs, Zip drives and the like. The most common ones today are the 50-pin Centronics-type SCSI-1 connector, the 50-pin High Density SCSI-2 connector and the 68-pin Ultra SCSI version. Most new host adapters and external devices use the SCSI-2 HD.

This profusion of sockets is very bad news indeed, particularly for the pocket. I have SCSI devices with all four types of connector on them, and in order to guarantee that I can connect to them, I have to have cables to suit the various permutations. At about £30 a pop for a SCSI cable, I reckon I must have £300-worth of wire lying around my office. Cable lengths were defined up to 6m maximum in SCSI-1 and SCSI-2, for a single-ended SCSI bus and up to 5Mb/sec data rate. Keep this in mind, if you use long cables, and include the internal device cables in your cable-length calculations. With Fast SCSI-2, as the data rate doubled to 10Mb/sec, so the maximum cable length was halved to 3m. SCSI-2 allows up to a 10cm cable "stub" length from the device to the main bus cable. Sometimes this length is exceeded, causing higher capacitive loading.

These limitations can be overcome with a different kind of host adapter, one that supports "differential" SCSI. A differential SCSI bus can use the full cable length up to 25m (approx. 82 feet) and keep the maximum data rate of 10MHz. This is especially important with external devices, as most external single-



ended cables can't cope with 10MHz. But you can't mix and match differential and ordinary SCSI devices on older host adapters. There is a compromise of sorts, and this technology is now a part of the Ultra 2 SCSI standard.

COM and get it

And now some light relief. A columnist on this magazine phoned me the other day with a COM port problem. He'd upgraded his old Gateway P166 to Windows 98, and in doing so, his modem, which normally sat on COM1, had ceased to work. As soon as the PC booted, the TR (Terminal Ready) LED on the modem came on and stayed on. And if he tried to access the modem

up the port, but still no joy. Booting from a DOS disk revealed that the hardware was fine, so he knew the problem was software-based. His last resort? Me.

After some consideration, I came to the blindingly obvious conclusion that some program was hogging the COM port. It couldn't have been any TAPI-based applications because they are cooperative and "yield" the COM port when requested. Loading a TAPI-based program, such as HyperTerminal, proved this much. Our problem lay in identifying the mysterious COM port hogger. Finally, I suggested a little tweak to force the errant program to reveal itself. Our columnist rebooted and found that it was Windows 98's Direct Cable

Connection that lay at the bottom of all this endless grief. He'd been using a Windows CE 2.0 PDA, and when he installed the

HPC software on the PC, it automatically activated DCC — but without telling him. And DCC is a "proper" program so there was nothing actually "wrong" with the system and no amount of diagnosis would reveal this existing "fault". Uninstalling DCC restored the modem.

So what had I suggested? A simple way to get a program to reveal itself is to force an error condition; at least you'd then get

I reckon I must easily have £300-worth of wire lying around my office

from DUN or HyperTerminal or even via modem diagnostics, up would pop an "Open COM port" error message. He'd tried everything to get to the bottom of it — Safe Mode, the new System Configurator tool, Dr Watson — you name it, he'd tried it; but everything failed. He'd looked at what was running in memory (using a CTRL ALT DEL to display the Task List) and shut down items selectively to see if that would free

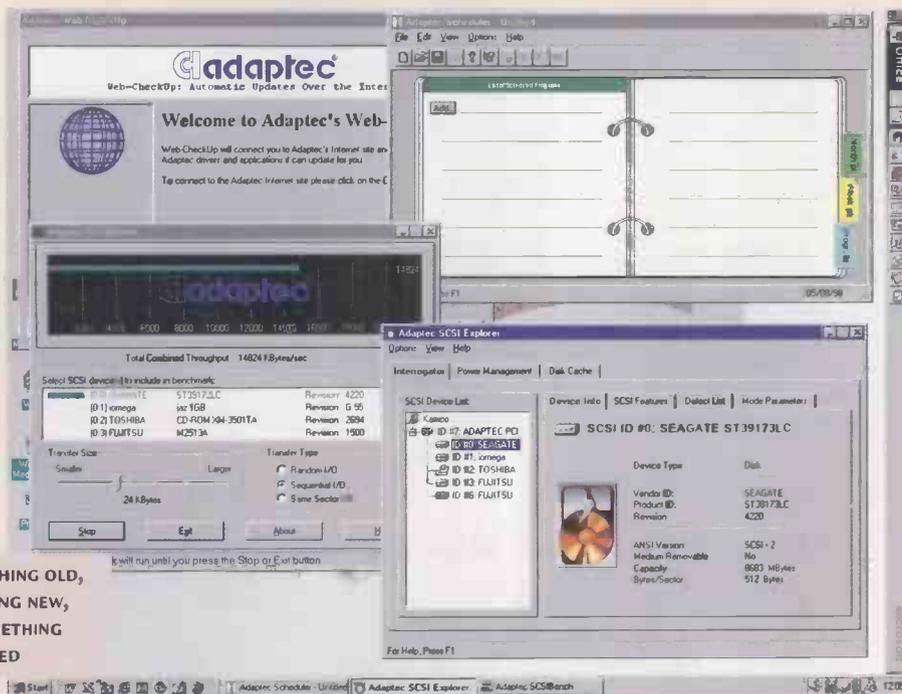
a clue from the resulting error message. The way this was done in this case was to make the COM port unavailable. When DCC loaded invisibly at boot time, it checked that the COM port was available and when it wasn't, protested. The way to turn off individual devices in Windows 98, and Windows 95, is through the use of hardware profiles. Every Windows 9x PC has a default hardware profile and this includes all the devices in your PC. But if you examine the properties of that

device in Device Manager, at the bottom of the dialog box is a tick box, "Disable in this hardware profile". Tick, and the next time you reboot, that device will no longer be available. Actually, Windows 9x gives you some flexibility here, and allows you to set up multiple hardware profiles, a feature useful for notebooks which can have hardware devices available to it, depending whether or not it is attached to a docking station. To set up a second hardware profile, click on the Hardware

Profile tab, copy the default hardware profile and give it a different name. When you reboot you're given a simple menu of hardware profiles. You simply choose your new hardware profile as the default and disable/enable hardware as required.

The next time you select this hardware profile, your choice of hardware is enabled. When used in this way, hardware profiles can be an invaluable diagnostic tool.

NEW RELEASE: EZ-SCSI 5.0



► SOMETHING OLD,
 SOMETHING NEW,
 AND SOMETHING
 BORROWED

Adaptec kindly shipped me the current release of **EZ-SCSI, version 5.0**. EZ-SCSI normally ships with host adapter cards, though it is available as a separate retail product. It is without doubt the easiest way to install SCSI drivers: doing this manually, under DOS, used to make purgatory look attractive — until EZ-SCSI came along.

There are no big surprises with the new release — it's business as usual here. There are the obligatory updated drivers plus the normal suite of

useful utilities, including SCSI Explorer, which lets you examine all your SCSI devices and set things like power management sleep times and read/write caching which, amazingly, is sometimes switched off by default. You also get a simple SCSI benchmarking program which displays the relative data throughputs for your devices at various settings, definitely handy but not essential.

Adaptec has finally woken up to the potential of the internet and now includes an on-line driver

updater, called Web-Checkup. Sadly, I couldn't test this fully because EZ-SCSI installs the latest drivers anyway. You also get a buckshee copy of the CD-ROM burner, Easy CD Creator Lite, chucked in for good measure.

One interesting addition to the roster of utilities is Disk ImageSaver, a simple backup utility. However, it doesn't back up individual files; rather, it stores an image of the entire disk, sector by sector, on another SCSI device, which doesn't necessarily have to

be a tape drive, it could be a removable hard disk. Why back up an image? It's faster than a file backup and it's also convenient for certain kinds of tasks, such as machine cloning, disaster recovery or restoring a system configuration that's been changed. Disk ImageSaver creates a bootable DOS disk that restores the contents of the image backup. So, to clone a standard workstation that's been fine-tuned, you'd save an image of it to an external SCSI drive, then plug the drive into the new machine and boot from the DOS disk — and DiskImage Saver does all the rest. A scheduler is now included with EZ-SCSI 5.0 which allows you to automatically run the utilities, such as DiskImage Saver, at regular intervals.

A far more useful addition to EZ-SCSI is Drive Preparer. Normally, to add a new SCSI hard disk to your system you would have to get your hands dirty, quit Windows 9x and enter the "Dark Side", i.e. DOS, in order to partition and format it. With Drive Preparer, you can do all this and still stay within the comfort zone that is Windows 9x.



INSTALLING ULTRA 2 SCSI IN WINDOWS NT 4.0

Installing the AHA-2940U2W in my Windows NT 4.0 Server called for some extensive preparation. I was already using an AHA-2940UW card and a 2Gb Ultra Wide Fujitsu hard disk as my boot drive, plus sundry other SCSI devices. Swapping the drive from one SCSI host adapter to another wasn't a problem, but while installing the drivers I realised a "chicken and egg" problem would inevitably arise.

The server booted from this hard disk and clearly, the correct miniport drivers for the new card had to be in place for the card to be recognised and the drive booted from. With the new card in place, I'd be unable to boot Windows NT 4.0 and then install the required drivers. And the drivers for the new card weren't backwardly compatible with the old host adapter. And with the AHA-2940U2W post-dating Windows NT 4.0, it wouldn't have the drivers in its driver database — and so on. The problems just continued to spiral.

The solution was incredibly simple — you can have more than one SCSI host adapter in a PC. I downed the server and inserted the AHA-2940U2W card in a spare PCI slot. I then booted Windows NT 4.0 and ran through the Adaptec install routine to install the correct drivers. Having made sure that the new card was working adequately, I downed the server again, swapped the hard disk SCSI cable over from the AHA-2940UW to

the AHA-2940U2W and removed the AHA-2940UW. At the same time I installed a 9.1Gb Seagate Barracuda U2W drive, and my server started to fill up with SCSI cables at an alarming rate. I finally rebooted, and all was sweetness and light.

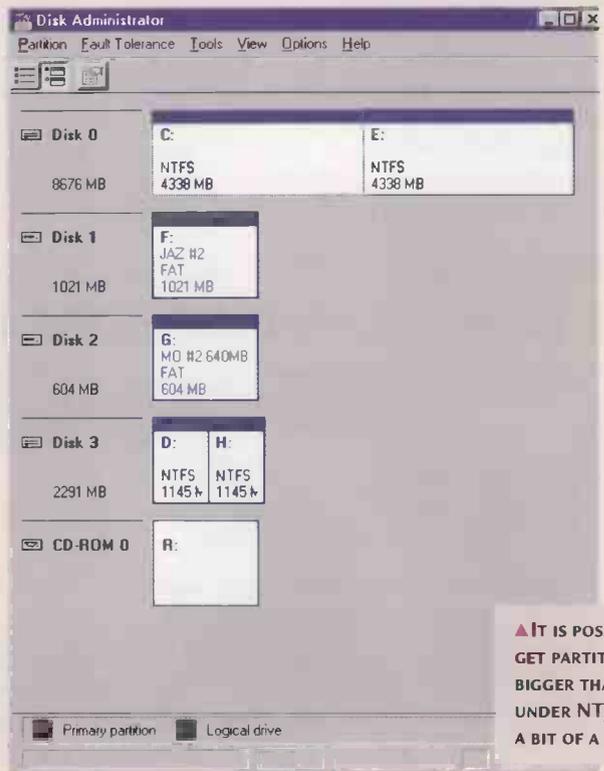
Installing Windows NT 4.0 onto a blank Ultra 2 SCSI drive also calls for some gymnastics. Windows NT 4.0 doesn't support Plug and Play and so it uses a brute force technique to identify hardware — it loads all the device drivers it has into memory and tests them to see if they work, rejecting those that don't. Well, that's fine if the device drivers form part of the core drivers that NT comes with as standard, and in this case, Ultra 2 drivers are conspicuous by their

Ultra 2 drivers are conspicuous by their absence — you get a blue screen crash if you try and install

absence — you get a blue screen crash if you try and install. Unfortunately, there's no obvious "Have disk" option, similar to that in Windows 9x.

→ The trick is to reboot again, and just after Windows NT 4.0 "signs on", you have a whole two seconds to press F6. This will pop up the screen that allows you to specify your SCSI host adapter.

→ You should then specify "Other" and insert the floppy containing the correct SCSI drivers. This trick is also useful if, during installation, you want NT



▲ IT IS POSSIBLE TO GET PARTITIONS BIGGER THAN 4GB UNDER NT, BUT IT'S A BIT OF A STRUGGLE

to use a newer host adapter driver than the standard ones that accompany Windows NT 4.0.

Irritatingly, Windows NT 4.0 isn't entirely happy with very large hard disks during setup. By default, on virgin hard disks, you're limited to a maximum partition size of 4Gb or thereabouts. Bizarrely, Windows NT 4.0 is capable of supporting partition sizes roughly twice this figure, 7.8Gb on the first hard disk. And even if you choose the NTFS, with the assumption that you'll get bigger partitions, think

again: it will install a FAT file system and convert it at the next reboot. So, either way, when you install a single 9.1Gb hard disk, you have no choice but to carve it up into smaller partitions.

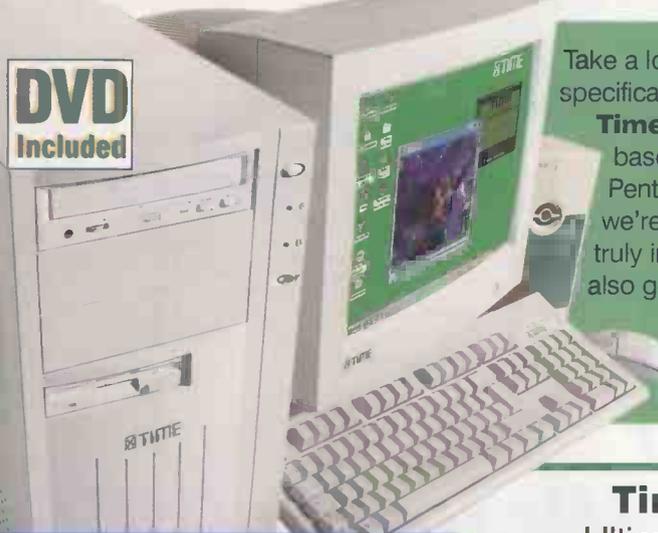
The only way round this setup madness is to partition it first on another identical NT machine (subject to the maximum partition ceiling) and then switch it over to the current machine. Or another solution is to use something like Partition Magic, which I hope to look at in next month's column.

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Roger Gann can be contacted via the PCW editorial office (address, p10) or email hardware@pcw.co.uk

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Panel beaters

Have your cake and eat it, too: **Cakewalk Pro Audio** users can create or modify existing panels. Steven Helstrip shows you how.

StudioWare panels are arguably Cakewalk's finest feature, enabling you to control and set up track parameters or any MIDI device that responds to CCs (Continuous Controllers) and System Exclusive or MCI commands (Media Control Interface). Panels are included for many popular

MIDI devices, from GS synths through to external audio workstations. If you use Cakewalk Pro Audio, it is possible to create or modify existing panels, although to start with we're going to tackle the basics of implementing and using them. Over the past two months in this column we've designed a mixer map for Cubase to control the AWE

synth parameters; but how do you go about it in Cakewalk?
➤ **Choose File-Open** and select StudioWare from the file-type pop-up menu; the AWE panel is the first in the list. There are two ways to assign the controllers to any track: either position the track switch, which can be a tad tricky, or right-click in the panel to open the widget property box.
➤ **To record** your movements (known as automation) enable the record icon in

NATIVE ESSENTIALS: X MARKS THE SPOT



In the August column I looked at the low-cost EasyWaves bundle which included a preset-only reverb and combined EQ, compressor and gate module. TC Works' Native Essentials offers a similar line-up of three separate components: Q equalisation, R reverb, and X dynamics. The accompanying literature boasts that these are the most processor-optimised algorithms to date, so if the TC Native Reverb plug-in is anything to go by, we're in for a treat. **Q features three bands** of EQ which can be configured as either high/low shelving filters, notch or

parametrics with a +/- 18dB range. Perhaps the most intriguing device here is the joystick controller, which enables you to sweep through the frequency spectrum with configurable gain. **Digital EQs** are generally considered to be a tad harsh, or cold, when compared to their analogue counterparts, so TC has come up with an algorithm to smooth the edges. Called SoftSat, it works by applying a soft harmonic distortion and prevents digital clipping. This enables you to boost sensitive frequencies all the way up to 18dB without

experiencing undesirable clicks in your audio. **X can be configured** as either a soft or hard knee compressor and features automatic gain make-up, bringing material right up to 0dB. This makes off-line normalising redundant and is a great timesaver. Parameters for attack, release, threshold and ratio are offered and SoftSat can be switched-in to provide warmer-sounding compression.

R is based on the Native Reverb package mentioned earlier and offers 18 presets with adjustable decay and mix. There's every type of reverb you could wish for, from room to cathedral ambiances with both bright and dark settings. The quality is stunning for what is effectively a £50 reverb, and long decay times sustain the source material with remarkable detail. **Native Essentials** sounds as every bit as good as it looks and could become the standard plug-in suite for users on a budget. It has all the essential ingredients: high-quality effects, minimal processor overhead, flexibility, and great value for money. A demo can be downloaded from www.tcworks.de



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Questions & answers

This month's Q&A has one more question than I have answers for. Reader Mike Newell has a problem that has baffled the technical help department down at Et Cetera Distribution, and now myself. He writes:

Q I have a Midi-edge 1 x 4 MIDI interface card which has a Yamaha DB50XG daughterboard on it. This works superbly with both Cubase and Cakewalk to provide superb-quality sounds. However, I cannot use it for digital audio playback so I have tried installing a bog-standard SoundBlaster card. But when I do so, the Midi-edge refuses to work, claiming that whatever port and IRQ settings I use are wrong. I have tried every possible

combination on the card, using the jumpers. Both cards work fine on their own, but not together, even though they have independent IRQs and port settings. Any ideas?

MIKE NEWELL
g1hgd@aol.com

a In theory there is no reason why you cannot get these cards working in the same PC and I'm convinced somebody, somewhere has already done so. After all, they're not an unusual combination. If anyone can help, or has a suggestion, please contact Mike.

Q I am confused about sub-woofers. What are they, and is it worth getting one if I am interested in composing and listening to music on my PC?

A ATKINSON

a A sub-woofer is a loudspeaker that is dedicated to reproducing the very lowest sounds that we can hear; anywhere from 20Hz to around 200Hz, depending on the model. Many of today's so-called multimedia speaker systems comprise a sub-woofer that is designed to sit on the floor, and two "full-range" satellite monitors which should be positioned at ear height. When producing commercial music it is important to have accurate sub-bass monitoring to get a feel for how the mix will sound in a club or arena environment, but really, investing in a sub-woofer merely for home use is sheer indulgence. However, if you need deep and powerful monitoring, which can greatly enhance video and games too, a sub-woofer could be just what you're looking for.

▶ VISIT YAMAHA'S XG WEB SITE FOR INFO ON EFFECTS, SPECS AND XG PRODUCTION TIPS

Q My son uses his computer to construct music using Digital Orchestrator Pro, a Turtle Beach Tahiti sound card and the Yamaha DB50XG daughterboard. He is experimenting with the MIDI effects and, according to him, there are 50 of them. But he seems unable to find a description of what they do or how to use them. Where can he find this?

NILS ANDREAS ERSTAD

a There's some useful information on Yamaha's XG web page at www.yamaha.co.uk/xg/ reading which explains all there is to know about accessing and using effects.



▶ TWO STUDIOWARE PANELS IN CAKEWALK, CONFIGURED FOR THE AWE-64 AND ROLAND'S SOUND CANVAS

the panel and continue to record as normal. The icon to the right, which looks like a mini-fader, turns on the widget update to play back your movements in realtime.

◀ It is often useful to group widgets to allow you to control, for example, the

widget with the shift key: if the entire group is closer to the maximum value, you also set the maximum value for that widget, and vice-versa.

▶ Crossfades can be achieved by setting widgets off in opposite directions. First, select the two faders and position

volume of multiple tracks simultaneously. Groups are created by selecting two or more widgets with the Control key. Any widget can then be used as the "master" fader and all grouped widgets will move, relative to their start and end positions. They are defined by positioning a

them at their mid point; create the group and move both to their highest position. Then, with the shift key, drag the second fader to its lowest position and move the first fader to its lowest position without shift. Finally, with the shift enabled again, drag the second fader to its highest position, and hey presto!

Piece of cake

Panels which include complex graphics can really grind slower machines to a halt, particularly when it comes to screen redraws. So, in order to disable graphics, add the following line to the [WinCak] section of the Cakewalk.ini file:
Panel sShowBitmaps=0

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Steven Helstrip can be contacted via the PCW editorial office (address, p10) or email sound@pcw.co.uk

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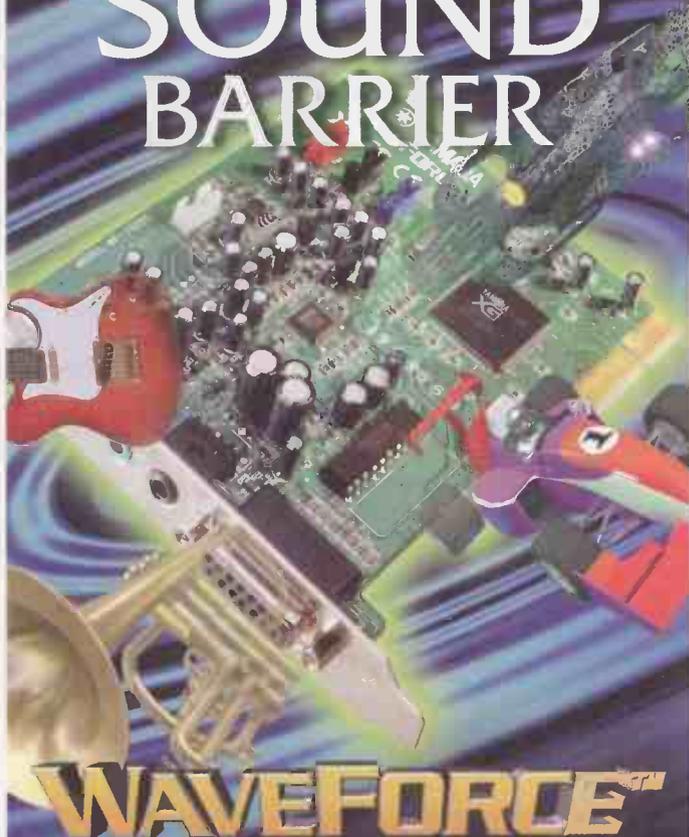


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Plug-in perils

Beware those forgotten extensions, temporarily loaded: they can cause all sorts of cross-platform infestations.
Ken McMahon relates his own tale of woe and finds some fixes.

This month it's my turn to ask you lot for help. I was producing a brochure for a client who, for reasons best known to themselves, decided to have the cover produced elsewhere. When the cover arrived — a Quark XPress 3.32 Mac document — we were unable to open it without loading a couple of extensions, Resize XT 1.1.3 and Scitex Polygon 3.1. Of course, I forgot to remove them from the extensions folder afterwards, and every document I subsequently saved will not now open without the extensions present.

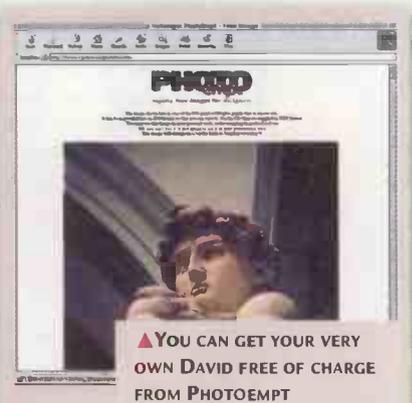
On the offensive

This is tantamount to a virus infection. We cannot send our "infected" Quark files to the output bureau without the offending extensions present, and this exposes the bureau and all of its other customers to the same problem. The last time something like this happened was with a nasty piece of work called Pasteboard XT which provided the not very staggering improvement of a large pasteboard area. Then someone came

up with a lifesaver called Pasteboard Xterminator which, if present in your Quark extensions folder, allowed you to open Pasteboard "infected" documents. The problem travels across platforms, so if someone sends you a Mac Quark file created with any of these monsters, you won't be able to open it on a PC. You can get both Mac and PC fixes for Pasteboard at www.markzware.com.

The Scitex ones are more of a problem. I have a Mac workaround; anyone who's interested can email me for details, but this doesn't help if you want to open an "infected" Mac file on a PC. Pasteboard is available in PC format; as far as I'm aware, the Scitex ones are Mac only.

Finally, on the subject of Quark plug-ins, by the time you read this, **version 4.0 of Extensis QX-Tools** will be available for Windows (95, 98 and NT4) and MacOS. QX-Tools is a nifty suite of plug-ins which includes things like group scaling, palette docking and attribute find-change. The last one is a dream for changing all your box line weights at a stroke — and it only costs £99.



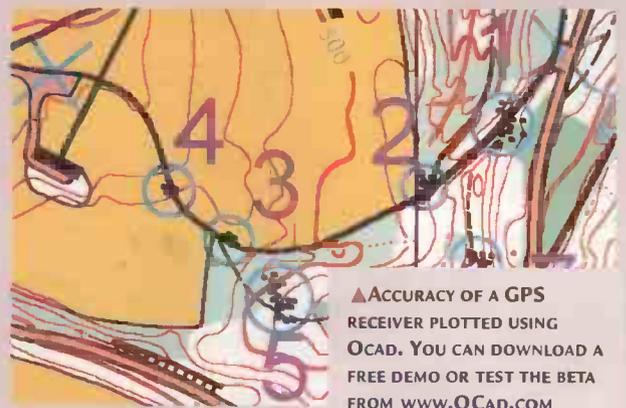
PICTURE THIS

Still looking for that elusive image of a church door, autumn leaves, a Tuscan landscape or a suburban semi? Then Photoemtp's collection of royalty-free images could be the answer to your prayers. At the moment they've got a mere four-CD collection, each with 100 images at 800x600 pixels. Each CD costs \$99 (Canadian) which is about £40, and you have to phone or email to order. Repro-resolution images are available individually. Photoemtp will never compete with the likes of Corel, Photodisc or Digital Vision in terms of volume or service, but you can't have too many sources of good pics, and there's a free sample, changed regularly, on the web site at www.rjsid.on.ca/photoemtp.htm

SWISS ROLL

Mike Godfree's solution to the mappers problem raised by Ian Cargill in the July issue is to use a Swiss application, OCAD, designed for orienteering. "The user can define his or her own symbols and the Win95/NT version (OCAD 6) has a set of symbols for city maps and tourist maps. Demo versions can be downloaded from www.ocad.com and the only limitation is a maximum of 500 objects, which is probably adequate for the type of map Ian Cargill talks

about. Version 6 allows tracing of a template in bmp format but does not allow the use of a digitiser. Version 5 allows a digitiser as well as tracing over a template, will run on Windows 3, but does not have the extra pre-set symbols. The main advantage is the small size of the program and the subsequent speed. Full versions cost around £250 (it is priced in Swiss francs)." The developer has even written an interface for GPS receivers, so you can create your own maps "in the field",



▲ ACCURACY OF A GPS RECEIVER PLOTTED USING OCAD. YOU CAN DOWNLOAD A FREE DEMO OR TEST THE BETA FROM WWW.OCAD.COM

as it were. The results of his tests, which are on the web site, show an accuracy of, at best, plus five metres and, at worse, plus 25 metres. Clearly room for

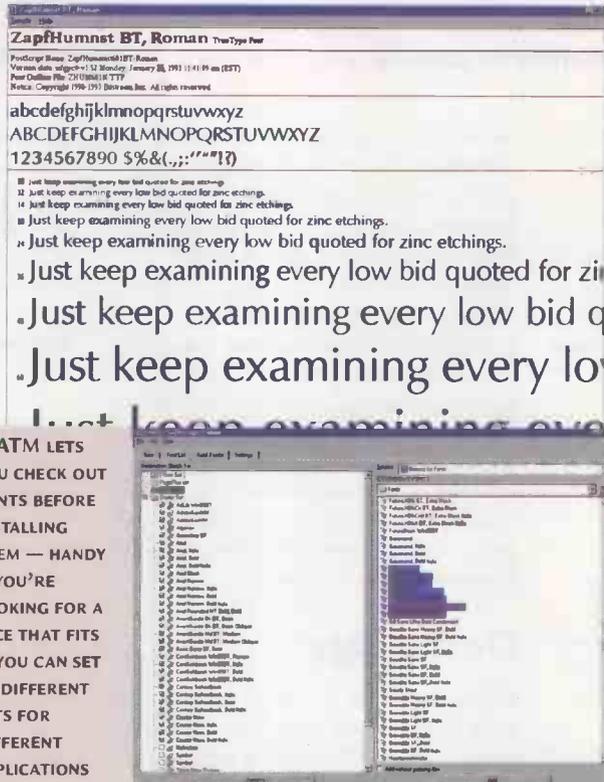
improvement if you don't want to find yourself in a river when you should be in the bar of the pub next to the church with a steeple.

Questions & answers

Q I have around 400 fonts on my Windows 95 machine. They don't appear to slow things down as they did under Windows 3.x, but that really is an unmanageable number. Even with font management software, I cannot face going through and comparing all those fonts, a slow and inexact process if you do not have wide experience of the subject. Is there a useful working set that would cover most bases without excessive duplication?

DAVID THORPE

a *The trouble with the Fonts folder is that it does have a tendency to grow unnoticed, particularly if you frequently install new packages which come with free fonts. The problem is exacerbated by the way TrueType font files are displayed. One font will usually have at least four "styles" — roman, italic, bold and bold italic, each with a separate font file. Fonts like Universe, which come with more weight variations than you're likely to want to count, pose even more of a problem. A quick way to make things look tidier without actually deleting fonts is to hide the numerous variants that make up a particular font family. In the control panel, double-click the fonts icon and simply select <hide variants> from the View menu. If you want to actually remove the fonts so that they don't appear on application fonts menus, play safe by copying all of your fonts into another folder*



▲ ATM LETS YOU CHECK OUT FONTS BEFORE INSTALLING THEM — HANDY IF YOU'RE LOOKING FOR A FACE THAT FITS YOU CAN SET UP DIFFERENT SETS FOR DIFFERENT APPLICATIONS AND KEEP YOUR FONTS ANYWHERE YOU WANT. YOU JUST DRAG FROM THE RIGHT WINDOW TO THE LEFT TO ADD FONTS TO THE SET OF YOUR CHOICE, AND ACTIVATE SETS SIMPLY BY CHECKING THE BOX

before removing any from the Fonts folder using the Fonts tool. If you later decide to reinstall the removed fonts, select "copy fonts to the Fonts folder" option. If you don't do this and subsequently remove the font a second time from the Fonts folder, you will no longer have a copy to restore. A far better option in my view would be to get yourself a copy of Adobe Type Manager Deluxe 4 which, among other highly useful things, allows you to easily manage all your TrueType and Type 1 fonts without having to mess around copying them from one folder to another. ATM lets you install and uninstall typefaces using a

drag-and-drop interface and allows you to create custom sets of fonts that launch at start-up, with a particular application or a specific file. So if, like me, you only ever use Word to write things without formatting them, you can configure ATM to use only a very basic font set. You can tell it to launch a more comprehensive set with your page layout application, to load your company fonts when opening any stationery files, or a special web font set when you launch your browser or web authoring package. ATM also simulates missing fonts using Adobe's Multiple Master font technology, has its own Type 1 smoothing engine, allows you to print font samples prior to installation, and improves output to non-PostScript printers. For £49

for the full version and £35 for an upgrade, it's undoubtedly the best way to get your TrueType and Type 1 fonts organised.

Q Can you give me any information on colleges that offer desktop publishing and graphic design courses? I am currently employed by a local publishing house as a DTP operator and would like to extend my limited knowledge of PageMaker 5 and CorelDraw 6.

LINAH@AWS.GAIA.CO.WZ

a *I just couldn't resist the challenge of tracking down some course information on the web, so I tried hotbot with the string + "higher education" + courses + UK + graphic design" and came up with 241 matches, including the Government's National Grid for Learning web site at www.ngfl.gov.uk. This place is a mine of information. You have to complete a very short registration form to access the site, but the links that the search engine throws up are well worth the effort. I was quickly able to track down information on institutions offering higher education courses in graphic design and related subjects, course information on NVQs in design, reviews of software on the curriculum, information about exam bodies (tip: don't type examination bodies into the subject field of a search engine — it won't yield what you expect) and links to other useful resources.*

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Object of the exercise

Benjamin Woolley shows you how to achieve **dramatic results** when creating complex objects.

In the very first *Hands On 3D Graphics* column, I described the building of a piece of virtual architecture using “Boolean” operations. Booleans are essential to creating many complex objects, but can be complicated to use. So I thought, as it is so long since their first appearance in these pages, they might be worth a more detailed consideration.

Booleans get their name from George Boole, the British mathematician who in 1847 made the connection between mathematics and formal logic that is now such an essential feature of computing. The connection between Boole’s mathematical tools (sorry, *tools*) and 3D graphics is an obscure one, and not really worth exploring. The point is that they provide a method for combining 3D objects — “operands”, as they are called in a Boolean context. There are three types of Boolean operations: add (sometimes called “union”), subtract (or “difference”) and intersect. When you add two operands together, two objects are joined to form one at the points where their surfaces intersect. Polygons that overlap are

Often, the software will turn your lovely original into something that looks like it’s been through a metal crusher

deleted. Intersect deletes all the polygons in both operands except those that overlap. Subtract removes the volume of one operand from the other.

Using a combination of these three operations, you can create very complex objects very quickly. The subtract operation, for example, can be used to chip away at an object, as a sculptor might a piece of stone. The intersect operation is like moulding, using one shape as the die, the other as the moulding material. The add operation is

like welding, enabling you to build up complex shapes by sticking together simpler ones. There are problems with Booleans, though. You have to treat them with great care, otherwise you might end up breaking objects rather than creating them. The most basic problem with Booleans is that they change the actual geometry of the operands, the objects being operated upon. An add operation between two overlapping objects — for example, two cylinders at right angles to one another to create a sort of cross — results in a single object that is superficially identical to the originals from which it was made.

On the edge

But you will soon find that when you start to inspect the underlying wireframe mesh, a lot has changed. To begin with, the software will have created new edges where the shapes once intersected, and these could be untidy, and in the process removed all texture mapping information (i.e. the information that describes how a 2D texture should be wrapped around the 3D object) will have been lost.

Therefore, if the operands with which you started had complex maps, perhaps intrinsic ones generated when you originally built

the objects, you will have to recreate them. Another challenge you will face with Booleans is ensuring that the resulting geometry hangs together. Quite often, the software will turn your lovely original into something that looks like it’s been through a metal crusher. The most common cause of this sort of problem is where faces or vertices are almost identically aligned, so the software cannot decide which co-incidental elements should be combined, which preserved, and which deleted. Subtractions that involve

punching a hole in an object can be particularly difficult if the meshes are complex. Quite often you will find a stray face or even marooned vertex left behind in what was supposed to be empty space.

Subtractions produce another problem: unexpected results. Unlike an add or intersect operation, the result of a subtraction is dependent on the order in which you do it — which operand is to be subtracted from which. You will find yourself getting the order wrong, and producing the exact opposite of what you wanted. Once you are aware of such problems, though, you can start to deal with them. The most important precaution is to ensure that, before performing any Boolean

BABY LOVE

From the first moment I saw it, I knew “Baby Cha-cha” was destined for greatness. With the original release of “Biped”, a plug-in for 3D Studio MAX designed to help animate bipedal characters, came a file which showed how to copy the steps or movements used to animate one model, to another. This was demonstrated by applying the cha-cha step originally developed to animate a model of an adult dancer,

to a baby. The result was a sensation, a tiny toddler wearing a nappy swinging its hips with all the abandon of a Travolta impersonator. Now, following Baby Cha-cha’s appearance on Channel 4’s *Ally McBeal*, Autodesk’s PR company has put together a sequel and here are some of the frames from it. This time the baby really gets into the swing of things, doing everything from aerobics to kickboxing.

operation, you keep copies of the original objects, either in a separate file or, if the software supports it, in a clipboard. With many 3D authoring packages, it is usually impossible to recover the original geometry if things go wrong.

➤ **Having a backup** of each object operand can pay dividends when it comes to building new map co-ordinates for the object you have created. For example, some software allows you to copy, or acquire mapping co-ordinates from one object and apply them to another. If this is the case, you could simply copy the co-ordinates from a backup of one of your original objects and re-use those.

➤ **A much bigger challenge** is dealing with Booleans that do not work because the geometry of one of the operands clashes with the geometry of the other. One method of dealing with this is to prepare the operands for the operation about to be performed upon them.

➤ **Make sure** that the mesh of each object is properly constructed, that

there are, for example, no stray faces or overlapping edges. These will arise if you have already edited the mesh, so keep any changes you make to any of the operands to an absolute minimum, and always carefully check the geometry after each change. Better still, start with primitives (shapes generated automatically by the software), as they will have valid and simple geometry and are likely to behave in a far more predictable fashion when you perform Booleans upon them.

Snap to it

One good trick is to build up a sort of toolset of basic objects to use in Boolean operations: a cylinder to punch holes, for example, a prism to cut grooves, or lettering made with a diamond-shaped cross-section to engrave words. Use alignment and snap commands to make sure the tool is accurately positioned with respect to the object being operated upon. If, for example, you are using the pyramid to cut a groove of a fixed depth

in, say, a block, make sure the pyramid's "cutting" edge is exactly parallel with the surface to be grooved.

One final consideration is to make sure that you do not use Booleans except where they are necessary. Add operations can often be avoided simply by grouping the objects that were going to be added together in some other way. Sometimes it's a good idea to use subtract and intersect operations to create a rough template of the geometry you are after, and then hand-craft a finished version.

Don't be put off experimenting with Booleans — they can produce dramatic results with minimum effort. Just make sure that you handle them with care.

PCW CONTACTS

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▶ **STILLS, COMPLETE WITH MOTION-BLUR, FROM THE CHA-CHA BABY'S NEW ANIMATION. NEXT STOP, HOLLYWOOD**





hands on

visual programming

Help is at hand

Tim Anderson investigates the best avenues of help with **tricky programming matters**, using hints, tips and solutions from readers.

Developing software is a curious mixture of simple and easy visual programming, with the labyrinthine complexity that lies beneath. Few products now come with chunky manuals which disguise the vast size of their programming languages, class libraries and complex development environments. Most of us have to deal with Windows as well: the original API, already notorious for its complexity way back in version 3.0 days, now pales in significance beside the vast arrays of database APIs, COM documentation, and specialist APIs like TAPI, MAPI, ISAPI and a whole lot more. Next, I should mention the internet RFCs, essential for serious web development, along with HTML, Dynamic HTML and XML.

Debate débacle

That means we all need help. Newsgroups are great, but many questions go unanswered and you soon tire of the endless circular, repetitive debates, usually about Microsoft and

Java. Incidentally, the vendor-specific groups are usually better, particularly those run by Microsoft and Inprise, if you are after technical help rather than debate. But newsgroups are hardly sufficient. Expensive support contracts, or paid-for support calls, may be part of the answer for corporate sites, but ultimately even these have limitations.

The service is not always quick, and the quality of support is variable. Here's a quick look at some other possibilities:

ASK THE EXPERTS IS A GREAT IDEA IN PRINCIPLE — UNTIL YOUR MONEY RUNS OUT, THAT IS

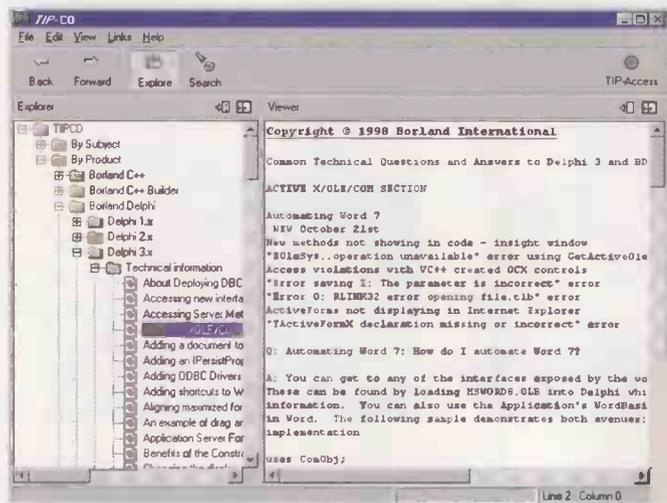
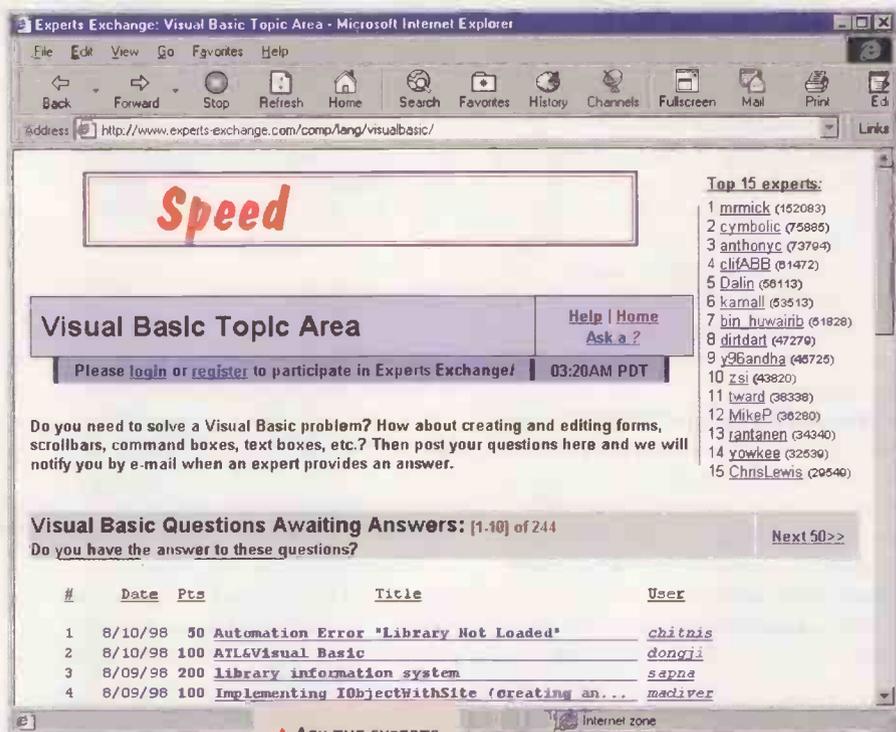
Experts Exchange Reader Matt Baker writes: "I think you could

BORLAND TIP LOOKS USEFUL, BUT IT'S NOT A PATCH ON MSDN

plug the Expert Exchange in your column, as I find this a useful source of advice. It is at www.experts-exchange.com/."

I took a quick look at this site, which is a regulated version of what often happens on newsgroups but with a commercial twist. You can ask questions and read answers not only on programming topics, but also many others. If you have more answers than questions, then you can sign up as an expert and eventually get paid for your answers. The snag is that although basic access is free, there is a limit to how many answers you are allowed to read, unless you pay. It is an interesting approach if you cannot stand the hurly-burly of newsgroup life, or hanging on the telephone for support.

Borland Tip Regular readers will know my great enthusiasm for the **MSDN (Microsoft Developer Network) library**, a CD of Microsoft's documentation and knowledge base for Windows, and all its other professional products. And although the subscription is expensive, much of it is freely available on Microsoft's web site if you can get a good connection. The library is also shipped with all the language



products including Visual Basic and Visual C++. In the latest Visual Studio, it is completely integrated with online help. For some time I have hoped that Borland/Inprise would come up with something similar for Delphi. The CDs from the Borland Developer Conference are usually made available but conference CDs are rarely useful, except as a memento for delegates, because the presenters do not have time to create proper online versions of their sessions.

I was interested, therefore, in a new initiative, Borland Tip. Like MSDN, this is on subscription and provides an information CD with the data mostly stored in a Paradox database and viewed through a BDE-based viewer.

There are product patches, links to an online Tip site, and email posting of technical news.

Inprise should be encouraged, but I do have some reservations. Like most serious Delphi developers,

I had already downloaded all the TI (Technical Information) sheets freely available from the Inprise web site, and much of the first Tip-CD seems to

duplicate these. Also, it is not clear to me why Inprise has devised yet another

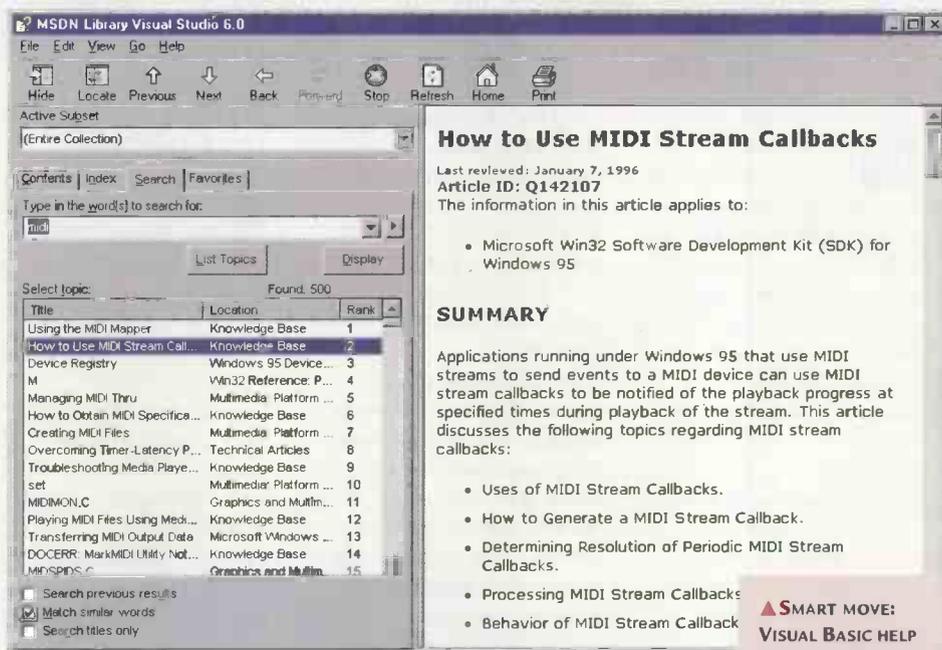
document-viewing application when there are other good (or even better) ones already available — not

least the humble Windows help. And, it strikes me that Inprise can only benefit if people know how to use its products, so the relatively high subscription price

surprises me. Why not make it a

nominal price? If you are a Windows developer, whatever you do, do not get Tip-CD instead of MSDN. To take an example, there is nothing useful on the first Tip-CD about programming MIDI, while MSDN has a number of hands-on articles. Although MSDN has never heard of Delphi, many queries turn out to be Windows queries rather than anything specific to a particular language or product. Even so, Tip has great potential if Inprise is serious about making it good.

If you are a Windows developer, whatever you do, do not get Borland Tip instead of MSDN



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VISUAL BASIC HELP
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THE NAME OF THE GAME

Thanks to David Brown, who has written a **detailed letter about naming conventions**, part of which reads: "I am convinced that the single most important aspect of programming is using well-chosen names. If a program is written with well-chosen names for types, variables, procedures, modules, components, and all other identifiers, it is at least half-way to being a 'good' program. If it is written with names like 'form1', 'edit1', and 'temp', it is guaranteed to be a 'bad' program. By 'good', I am referring to programs which are easy to work with, understand, modify and update.

"It is important to be consistent with names, but conventions used are

ultimately a matter of personal programming style. I generally tend to use the Hungarian convention ('edtFirstName', 'lblTelephoneNo', etc) for components; for normal variables, I always start the names with a small letter; procedures and functions I name with an initial capital.

"It is a common misconception that the key to readable code is the good use of comments. In fact, good layout and well-chosen naming systems make comments almost unnecessary. For new programmers, it is difficult to see the need for proper names since most documentation and books use the default 'Edit1' names — this is unforgivable laziness on the part of the authors. In your column, you

have the opportunity to reach many beginners and experts, and thus I would urge you strongly to promote the use of naming to help people improve their programming."

David is too polite to say so directly, but I generally use default component names in this column. It is not just laziness, since the default names have the advantage of making it quicker for you to reproduce the example, as well as making it obvious what the controls are. For instance, you will know that Edit1 is an edit box, while Label1 is a label.

But I agree that well-chosen names are essential to good code, although, it has to be said, not everyone likes "Hungarian".

Questions & answers

Q I have been programming in VB for about five years but just recently have started writing a database application. I can select an entry from a ListBox (list of names from a field in the database), pass the selection to an SQL statement, and display the data. I have a problem when the selected text includes a single quote (e.g. O'Reilly). This produces an error. I reckon this is due to the single quote mark in the name, but how can I overcome this?

GEORGE MCNANEY

a There are a couple of ways around this kind of problem. First, in this scenario it is not clear to me why you would need to include the name in the SQL string. From what you say, I guess you have the list box bound to a database table, and the user clicks on a row to reveal more data for the chosen record. Rather than using the name field to identify the record, it would be better to use an ID field like a number or code.

Set the properties of the databound listbox as follows: Rowsource: The data control bound to the address table. Listfield: The field for display in the list, in this case Name. BoundColumn: The ID field. Now your search can be something like this (as one line of code):

```
sSQL = "SELECT * FROM
addresses WHERE
AddressID = " &
DBList1.
BoundText
```

But coming back to your original question, there are certainly occasions when you need to search by a character string which may contain awkward characters such as

quotes or other delimiters. Sometimes you can fix it by using the Chr() function to force VB to include the character in the string. For example (one line of code):

```
sSQL = "SELECT * FROM
addresses WHERE Name
= " & Chr(34) &
DBList1.Text &
Chr(34)
Chr(34) returns a double
quote. Of course, this would
still fail, though, if the name
itself contained a double
quote. It may be unlikely, but
the best applications usually
allow for such scenarios. The
solution is to double-up the
problem character.
```

JET SQL has a feature whereby if you are using a single quote as a delimiter, it treats two single quotes as if they were one literal, single quote. So, if you search for O'Reilly, you will find O'Reilly. The same applies to the double quote.

It all gets messy because VB itself follows similar rules. It won't be obvious, when looking at a line of code, which characters are literal, which are VB delimiters or which are SQL delimiters. To achieve perfection, proceed as follows:

- ➡ Decide which character to use as the SQL delimiter.
- ➡ When you are assembling SQL strings, use the Chr() version of your delimiter. Chr(39) gets a single quote, and Chr(34) a double.
- ➡ Check the value you are searching for to see if it contains the delimiter character. If it does, double it up using VB's string functions. If you have VB 6, you can use the new Replace function.

As an example, the following will find the value 6"1', say, in the height field of a doctor's patients table (again, one line of code):

```
sSQL = "SELECT * FROM
patients WHERE
```

```
Height = " & Chr(34)
& "6" & Chr(34) &
Chr(34) &
"1" & Chr(34)
```

Q Inspired by your Hands On colleague, Steven Helstrip, I've decided to write a small utility in Delphi that lets me alter the parameters of my Yamaha SoftSynth (wavetable software). However, the Delphi help examples of how I should go about sending messages to the MIDI device. In particular, I'd like to alter parameters for Resonance, Reverb, Chorus etc, possibly while a separate piece of software plays a MIDI file. I'm using Delphi 1.

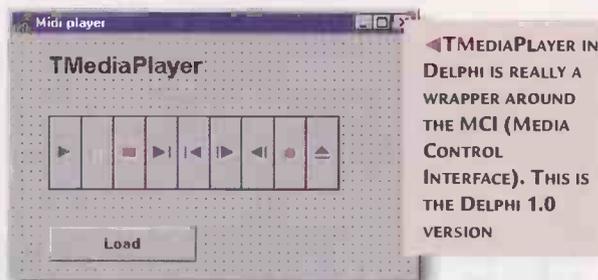
JONATHAN WHITE

a Since Windows 3.1, the Windows API has offered two ways to control multimedia devices. The first is called MCI

mciSendString gives you a certain amount of control, for instance, over the tempo.

When MCI is insufficient, you can use the low-level MIDI Audio services. For example, there is MidiOutOpen to open a MIDI device, MidiOutShortMsg to send a standard MIDI message, and MidiOutLongMsg to send multiple MIDI events and system exclusive messages. For Windows 95 and NT, you should also look up the MIDI stream functions. To use them, you will need a good knowledge of MIDI and a reference that applies the MIDI device you are using and any system exclusive messages it supports. There is no problem with using these functions from Delphi and they are declared in the unit MMSYSTEM.PAS.

There is a problem with documentation, though, particularly as the Delphi 1 Windows API help does not include the multimedia API.



(Media Control Interface) and is nice and easy. MCI treats WAV files, MIDI files and CD Audio as varieties of multimedia device that can each be opened, played and paused, for instance. All the MCI functions are prefixed mci. For MIDI files, you can think of MCI as an interface to a simple sequencer; easy to use but unsophisticated. Delphi's media player component is an encapsulation of MCI. Devices are identified by a DeviceID, which is why TMediaPlayer has a DeviceID property. The API function mciSendCommand or

It is included in the Delphi 3 and 4 help files, although in version 4 Inprise seems to have given up preparing Delphi-specific versions, simply shipping the standard Microsoft API help.

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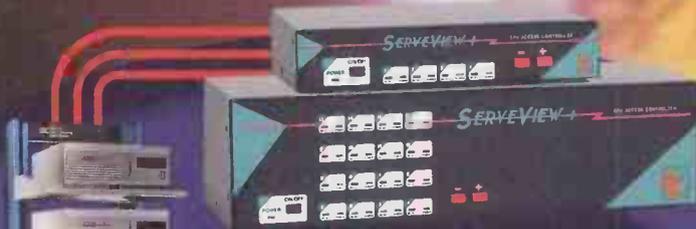
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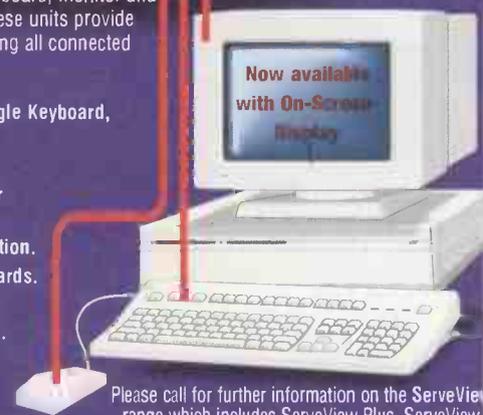
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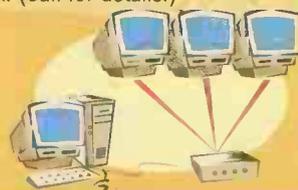


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What's in a name?

A good naming scheme, with a DNS server, is the most efficient way to provide automatic addressing and naming services on a Windows network. Bob Walder shows you how to do it.

In a recent issue, we went into some detail on IP addressing and the use of WINS and DHCP to provide automatic addressing and naming services on a Windows network. Since then, I have received several emails asking me to do a follow-up piece on DNS in Microsoft environments — so here goes.

Domain Name System is the cornerstone of the internet, since it provides the means to turn all those long-winded IP numbers into equally long-winded names — but at least they are easy to remember. For instance, how many of you know the IP address of the Novell web server off the top of your head? Try dropping to a DOS prompt and type `ping www.novell.com`. After a pause, you should see a reply from 137.65.2.11. If you had typed `PING 137.65.2.11` in the first place, you would have got exactly the same result, but marginally quicker. That is because the first thing that happens when you try to PING a domain name is that it must be resolved by a DNS server.

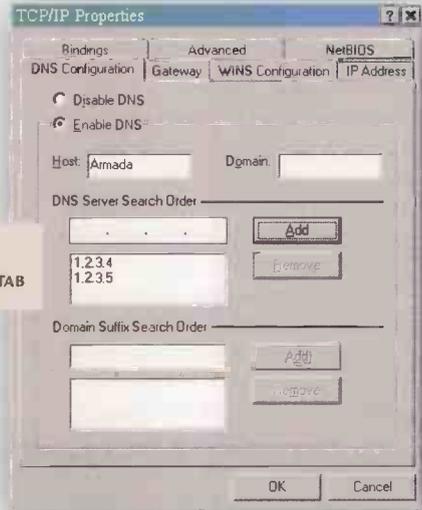
The simplest way to provide name resolution in small networks is to use the HOSTS file. This is a text-based file which can be found on most TCP/IP systems, and which contains a simple list of IP addresses and the names that relate to them [Fig 1]. This file can name common systems both inside and outside an organisation and each address can have several names, usually a “formal” name

followed by a number of less formal “nicknames” or aliases. Hence, in our sample HOSTS file, the marketing server can be referred to by its IP address of 10.1.1.2, its full name of `dilbert.marketing.acme.co.uk`, `marketing.acme.co.uk`, or by its shortened aliases of Dilbert or Marketing. While the use of HOSTS files is possible in smaller networks, they can have serious drawbacks in larger ones.

The main problem is that a copy of the file must exist on each and every TCP/IP client which intends to refer to resources by name rather than IP address. This approach is obviously not very scalable

DNS provides for central control over names and IP addresses

and presents systems administrators with a potential nightmare in a network with hundreds or thousands of clients. Ensuring that each and every HOSTS file is always up to date as network changes are made is bad enough, but there is also the temptation for users to create their own files with customised naming conventions, making it difficult for “hot desking” colleagues. Of course, it is possible to manage HOSTS files by keeping a master version on one of the central servers, and downloading it to clients automatically on a regular basis,



► FIG 2 DNS CONFIGURATION TAB

but this approach, too, can have its problems in large distributed networks.

Obviously, such solutions will not scale in large organisations and certainly will not scale to the internet. The problem of internet naming has, to date, been largely satisfied by DNS which allows a computer that is registered to the internet to be uniquely identified by that name wherever it may be located. Because computers work with numbers rather than names, the second major function of DNS is to translate the unique host name into the appropriate IP address required in order to establish communications.

The use of DNS is certainly mandatory in some form if you wish to participate in the internet. However, a good naming scheme coupled with the implementation of DNS servers can also make life considerably easier for users of a large corporate TCP/IP network, even if

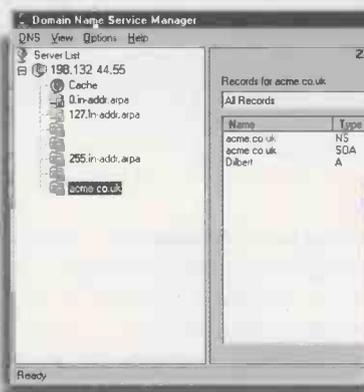
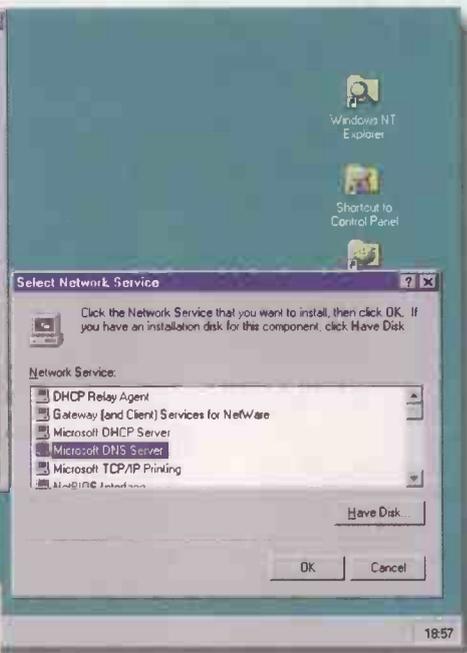
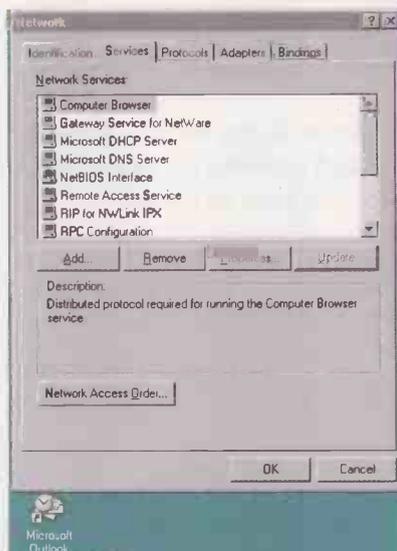
it is not connected to the internet. DNS provides for central control over names and IP addresses and removes the need for individual HOSTS files — although these can co-exist quite happily where required. It allows control to be applied both in a distributed fashion and where it can be most effective, in local sites and divisions. The domain name protocol is quite complex syntactically, although its operation is straightforward. A

{FIG 1}

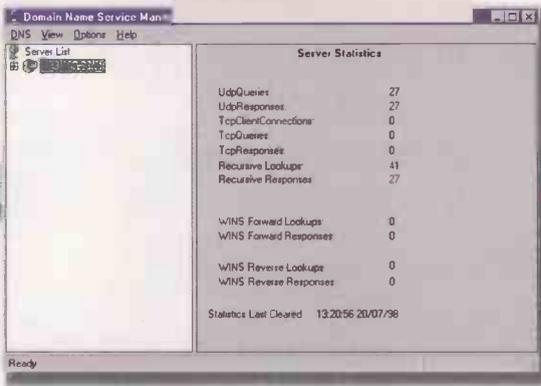
```
; Hosts
;
; IP address name alias
;
127.0.0.0 loopback Bob
10.1.1.2 dilbert.marketing.acme.co.uk Dilbert Marketing
10.1.1.3 dogbert.sales.acme.co.uk Dogbert Sales
10.1.1.5 ratbert.accounts.acme.co.uk Ratbert Accounts
10.1.1.10 bwalder.acme.co.uk Bob
192.168.1.52 bgates.microsoft.com Bill
```



host, given a name, asks the server for a name-to-address translation. If the name server does not possess the means to perform that translation directly, it will pass the request on to a server with a higher authority than itself. This process can be repeated until the request is satisfied, which will always happen unless the requested address was incorrectly specified or there is some unforeseen problem, such as a DNS server being temporarily unavailable. Those of you with internet connections will have one or more entries in the DNS tab in your Network configuration [Fig 2, p299]. This will provide you with everything you need to resolve all those addresses out there on the internet.



▲ FIG 3 ADDING THE DNS SERVER
 ◀ FIG 5 ADDING HOSTS
 ▼ FIG 4 CREATING YOUR FIRST DNS SERVER



But what about those within your own organisation? You may have your own internal web server which you want to be known by the memorable name of DILBERT rather than the slightly less memorable address 10.1.1.2. Luckily, it is easy to add your own DNS server in a Microsoft site, since the appropriate software is included with NT Server 4.0 (prior to this, you had to rely on a rather lacklustre offering in the Resource Kit for 3.51). One nice feature of the Microsoft product is that it hooks neatly into WINS if you already have WINS servers configured. DNS configuration can be quite complex, unfortunately, so I am going to concentrate on the absolute basics to provide internal naming services.

- **Call up** the Control Panel on the server and double-click on the Network icon.
- **Click Services**, Add, and select the Microsoft DNS Server [Fig 3].

- **Supply** the path to the installation files and reboot your server when finished.
- **Once the server** has rebooted, go to Start, Programs, Administrative Tools (Common) and the DNS Manager.
- **Click on DNS**, New Server and provide the IP address of your new DNS server.

The use of DNS is mandatory in some form if you wish to participate in the net

The database files are initialised and this address then appears in the Server List in the left-hand pane [Fig 4]. A number of zones are automatically created and can be ignored for now. Your first job is to create a zone to represent your internal network.

- **Highlight** the DNS server you have just created and click on DNS and New Zone.

- **Click** on Primary and then the Next button.
- **Give** the Zone a name (e.g. ACME.CO.UK), tab to the Zone file field and click on the Next button to accept the default file name.
- **Click** on the Finish button. The new Zone is created with some default entries. All that is left is to enter the host names you wish to resolve. Taking our DILBERT example in the Domain ACME.CO.UK, we would simply highlight the Zone ACME.CO.UK and click on New Host.

Enter the host name (DILBERT) and the address (10.1.1.2), and click on Add Host. Your Domain should now look like the right-hand pane [Fig 5]. Now, include the address of your DNS server in the DNS configuration tab of all your clients (first in the list) and you're ready to go.

Refer to my advice on the use of DHCP in an earlier issue to see how you can make that change across all your clients in a matter of seconds. Now if you drop to the DOS prompt and type PING DILBERT.ACME.CO.UK you should receive a reply from device 10.1.1.2 — and away you go.

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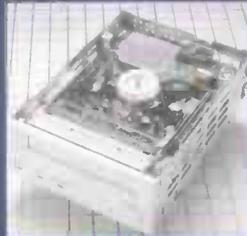
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DT-RAID combines the quality and features you would find only in high end RAID subsystems into a convenient, cost effective storage solution offering full RAID data protection. DT-RAID is available in either a 3, or 5 bay metal construction tower, with hot swap hard drive carriers. The system features a PCI RAID adapter with 4MB ECC cache memory expandable to 64MB. Which supports hardware RAID 0, 1 and 5 including the ability to hot swap failed drive without bringing the system down, and support for automatic or scheduled rebuild of the replacement drive. Optionally the system can be expanded via the addition of a 2nd RAID channel and DAT tape back system.



CONFIGURATION

SIZE	COST
12GB	£1750
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45GB	£3995
3 or 5 Bay Tower	
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SOLID STATE STORAGE

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SIZE	COST
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2.56GB	£29000
5GB	£45000
10GB	£75000

TRANS-STOR

SERVER-LESS STORAGE

TRANS-STOR is a new generation of storage technology Designed for the needs of the dynamic networking environments of the late 90's. The TRANS-STOR system Comes with a direct network connection module. The system can be connected to an existing network and serving the storage needs of users within 15 minutes. No need for client licences or servers. The clients can be PC's MAC's, SUN, HP, DEC in fact virtually any type of client which can connect to the network. The system is optimized for I/O processing and delivers much better performance than general servers.



SIZE	COST
27GB	£5000
45GB	£6500
72GB	£9000
99GB	£11000

FT-SERVER

SOLID STATE SERVER

FT-SERVER is a high performance server designed to deliver the ultimate in reliability. The system consists of no moving parts. The system has no disk drives and relies on FT-RAID for fault tolerant storage. The system features multiple redundant power supplies to ensure continuous operation. The system has on-board both dual channel Ultra Wide SCSI and dual 10/100mbit fast ethernet controllers. In the unlikely event that a fault does ever develop, the system can instantly be swapped out for a new FT-SERVER without having to worry about configuration or internal hard drives e.t.c. Multiple FT-SERVERS can be configured into an FT-CLUSTER with the addition of management modules.



Pentium II		
No	Mhz	COST
1 x	333	£2000
2 x	333	£2500

FT-RAID

SERVER-INDEPENDANT

Today's network servers are complicated machines with many components such as video cards, motherboards, network cards, serial interfaces and memory etc. If the data storage has also been integrated into the server, when a fault develops on the server all of the data will be off-line until the fault is fixed. FT-RAID is designed to deliver a **true** fault tolerant solution for mission critical data storage. It achieves this by making the data storage and RAID controller independent of the server. FT-RAID takes for granted that components will fail! It caters for this eventual failure by having redundancy of every single key component within the system. Disk drives and power supplies are mounted in hot swap canisters and even the external RAID controller can optionally be duplexed to cater for controller failure. When a failure occurs the component can be replaced without bringing the system off-line.. If a failure occurs on a connected server, another standby server or even a workstation (performing the role of a server) can boot of the FT-RAID system and bring the network back on-line with minimum disturbance while the faulty server is fixed. FT-RAID also supports an automated means of bringing standby servers on-line. FT-RAID can service multiple servers at the same time including NT, Netware, Sun, RS6000, SG, HP, Apple and DEC Clustering Hardware etc... A Direct Network Attach Module is available which allows FT-RAID to share storage on the Network without SCSI connection to the Server. FT-RAID can also be configured with both FT-SERVER and FT-CLUSTER to deliver exceptional fault tolerant server and storage in the most demanding network environments. With its vast array of features and expansion capability FT-RAID is the ideal bedrock storage system on which to base your network.



CONFIGURATION

SIZE	COST
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45GB	£6000
72GB	£8500
99GB	£10500
153GB	£15500
207GB	£19500
252GB	£24500
306GB	£29000
504GB	£45000
1TB	£69000
2TB	£129000

OPTIONS

- DUPLIX CONTROLLER
- FIBRE CHANNEL
- DIFFERENTIAL SCSI
- DEC INTERFACES: CI FDDI DSSI
- 19" RACKMOUNT
- FAIL SAFE SERVER SUPPORT
- 4 HOST CHANNELS
- DIRECT NETWORK ATTACH

FT-CLUSTER

FAIL SAFE SERVER

FT-CLUSTER is fault tolerant scaleable network server. The system consists of two independent PC servers connected together into a network cluster. The cluster appears to attached clients as a single server. The network tasks are shared by the two servers. If one server fails the other server takes over the workload automatically. Both servers are connected to **FT-RAID** storage and share access to the same data. FT-CLUSTER delivers the type of scaleable and fault tolerant network computing previously only available on proprietary mini and mainframe hardware using standard PC components. The system is a totally open design and can be upgraded using standard PC memory and parts.



Pentium II		
No	Mhz	COST
2 x	333	£5000
4 x	333	£6000

Cost does not include FT-RAID which is required for operation.



The fun starts here!

Fast, flexible and innovative — and a cool black desktop is just for starters: **Apple's great white hope** is the exciting MacOS 8.5. Cliff Joseph brings you his first impressions of the beta release.

It seems like there's just no stopping the new Apple. September saw the release of the iMac, the most exciting new product to come out of Apple for years, and October brings us MacOS 8.5 — also known as Allegro, within Apple. Many PC users have been asking whether it's worth upgrading to Windows 98, but there are no such doubts about MacOS 8.5. The Mac OS is currently at version 8.1, so the move from 8.1 to 8.5 may not seem like much of a change. But OS 8.5 really does have a lot of very worthwhile new features in it.

Loose ends

The first thing it does is to tidy up a few loose ends left over from pre-PowerPC days. The MacOS still contains a few bits of old code written for Motorola's original 68000 series of processors, despite the fact that Apple switched to PowerPC processors several years ago. MacOS 8.5 has replaced some of this old code with **native PowerPC code** that should run a lot faster. QuickDraw, the software that handles the Mac's screen display, is now entirely native so screen redrawing should be much snappier. The AppleScript scripting system is also native now, so scripts should run much more quickly. This will please the publishing people who use AppleScript to automate their workflow routines, as will the improved performance when copying files across a network.

These under-the-bonnet changes are welcome, but the **great strength of the Mac** has always been its interface, and there are plenty of changes to the Mac interface in OS 8.5. The biggest new feature here is the Appearance control panel. This enables you to create "themes" for the appearance of your Mac's desktop. And as well as choosing



▲ THE APPEARANCE CONTROL PANEL ALLOWS YOU TO CUSTOMISE THE APPEARANCE OF THE MAC DESKTOP USING THEMES SUCH AS GIZMO AND HI-TECH

different fonts and background pictures, themes also allow you to alter the appearance of items such as title bars and scrollbars. The beta release we tested contained two themes called **Gizmo** and **Hi-tech**. Gizmo is a brightly-coloured theme that will probably appeal to kids, while Hi-tech applies a cool, black look to the Mac desktop. Once you've selected the basic theme, you can then alter individual settings such as the colour used to highlight objects or whether or not to have collapsible

The Mac is still capable of coming up with some innovative surprises

windows. And you can add "soundtracks", which link new sound effects to actions such as opening windows or moving items around the desktop.

When you've got the desktop looking and sounding the way you want it, you can save your changes as a custom theme of your own. Themes are stored in their own folder in the main System Folder so it's easy to add new themes, and people will soon probably start to exchange home-made themes on the internet. The

changes you make here affect the way your desktop looks, but there are other improvements in OS 8.5 that affect how the desktop works. Thankfully, you can now resize and re-order the columns of information that appear when you view the contents of a window in List view. If you want to see the size of a file before any other piece of information, you just click on the header of the "Size" column and drag it to the required position. You can also use the Preferences dialog to set global viewing options for all windows, rather than having to set each window's options separately. **Scrollbars work differently now**, providing "live" scrolling so that the contents of windows scroll as you drag the scrollbar. The scrollbar also has a "proportional" option now. This is similar to the way that scrollbars work in Windows, with the size of the scrollbar varying to indicate the proportion of the window you are currently viewing.

In the dock

When you open more than one application, the names of those applications still appear as a pull-down list in the upper right-hand corner of the screen. However, you can now tear off this list so that it remains on-screen as a

small floating palette called the Applications Dock. You can switch from one application to another by clicking the application's name in the dock. This is a useful new feature, but it would be even better if you could switch between applications using the keyboard, as you can in Windows.

Favourite things

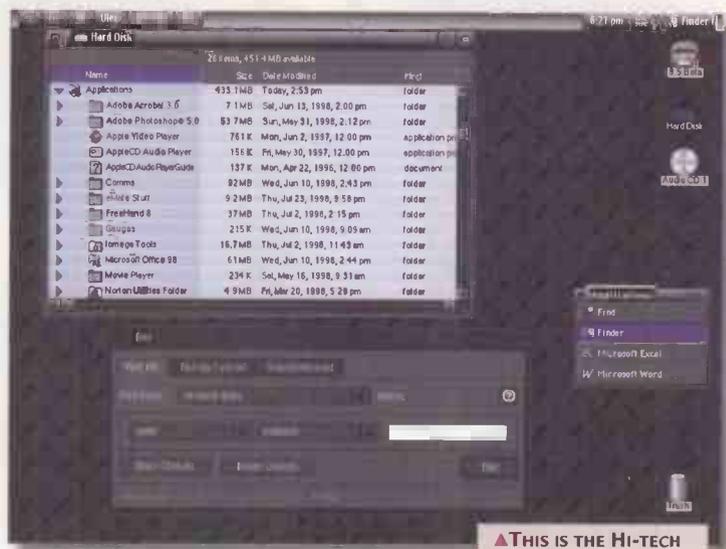
There's one new feature that you may not be able to use straight away. Apple has finally gotten around to redesigning the standard **Open and Save dialog boxes**. These now allow you to select multiple documents, as well as storing a list of your most recently-used files. There's a new option called "favourites", which allows you to create a pull-down list of your most frequently-used folders. This allows you to quickly place documents within these folders without having to navigate through the contents of your hard disk to find them. The only problem here is that applications need to be upgraded before they can make full use of the new Open and Save features. Fortunately, the changes needed are quite small, so hopefully developers will be able to post updates on the internet soon after the release of OS 8.5. The fact that some of these new features are already standard items in Windows 95 and 98 is a sad testimony to the neglect that the Mac OS suffered under some of Apple's previous managements. However, the

Mac is still capable of coming up with some innovative surprises of its own. Perhaps the single **most important improvement** in OS 8.5 is the new Find command.

The Find dialog box now contains three tabbed pages that allow you to perform different types of searches. The standard Find File option is still there, allowing you to quickly locate files on specific hard disks by searching for attributes such as their name, date or size. However, you can now use an intelligent search engine that Apple calls "Sherlock" to locate files by providing details of their content. If I want to locate documents that contain references to the new iMac, I

OS 8.5 provides some real fun ... more than you can say about Windows 98

just type "iMac" into the dialog box and Sherlock will locate all the relevant documents on my hard disk and even sort them into order of relevance. Best of



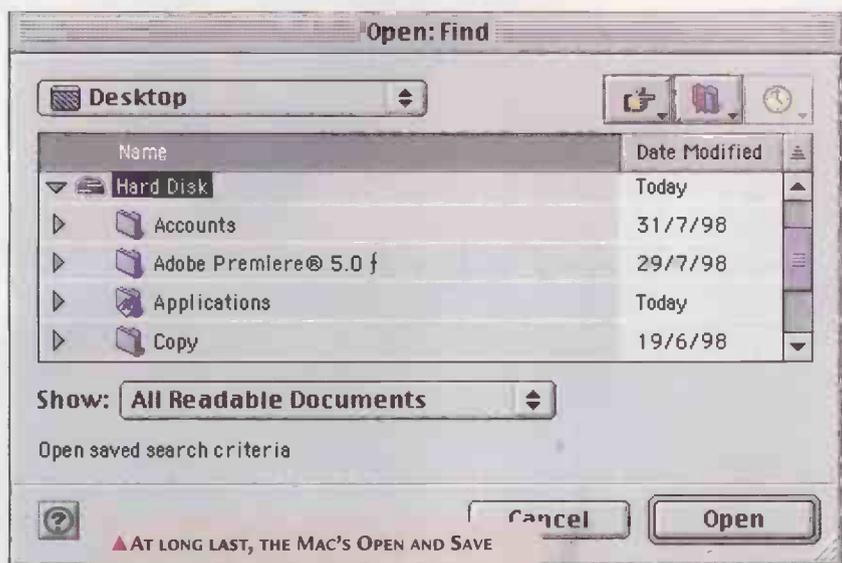
▲ THIS IS THE HI-TECH THEME. IF YOU DON'T LIKE IT, YOU CAN MIX AND MATCH THEME ELEMENTS TO CREATE YOUR OWN PERSONAL THEME

all, though, is the new **Internet Search option**. Just type in the information you're looking for, and Sherlock will connect to the internet and search using whatever search engine you specify. It then compiles a list of web pages that are relevant, and when you click any page in this list it will display a summary of the content of that page in a panel below the main list. The beta version of OS 8.5 that we tested had a few problems when it came to narrowing the scope of internet searches, but hopefully these problems will have been ironed out in the final shipping version. There are quite a few features that we haven't even touched on — such as the new AppleScript tools — but we'll take a closer look at specific features in future editions of this column.

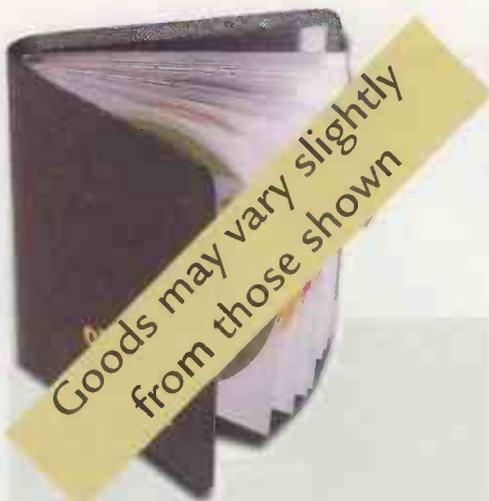
OS 8.5 may only be a stepping stone on the way to OS X — the real biggie that is due this time next year — but it's definitely worth buying. It provides powerful new features, improved performance and — in the Appearance control panel — some real fun. And that's a lot more than you can say about Windows 98.

PCW CONTACTS

Cliff Joseph welcomes correspondence and feedback on the Mac column. Contact him via the PCW editorial office (address, p10) or email mac@pcw.co.uk



▲ AT LONG LAST, THE MAC'S OPEN AND SAVE DIALOG BOXES HAVE BEEN UPDATED. HOWEVER, APPLICATIONS NEED TO BE UPGRADED TO MAKE USE OF THEIR NEW FEATURES



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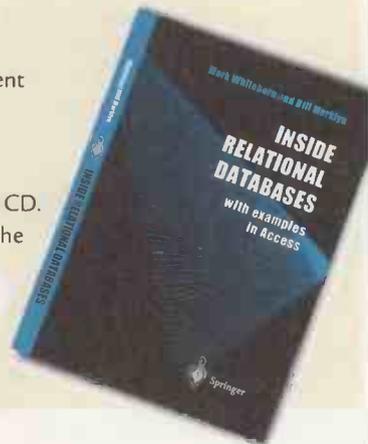
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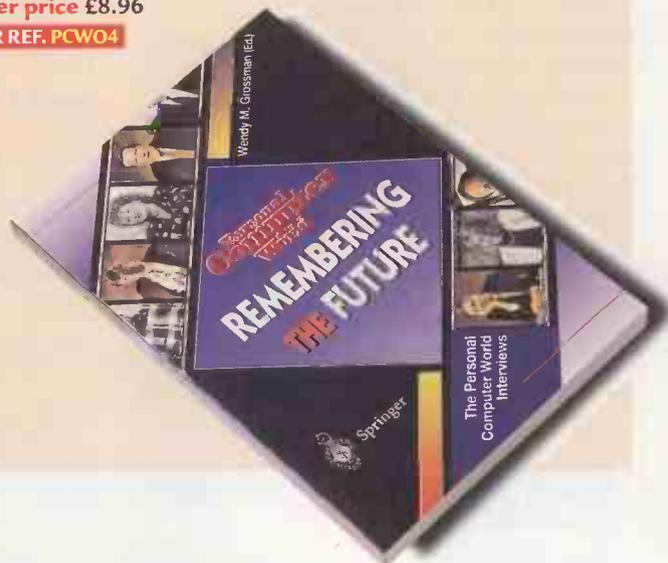
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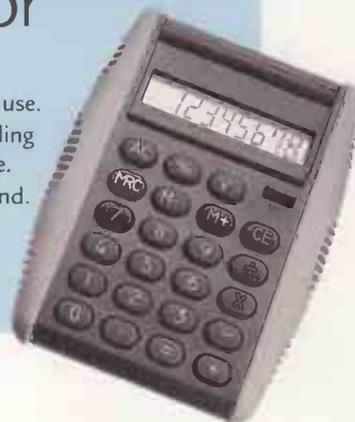
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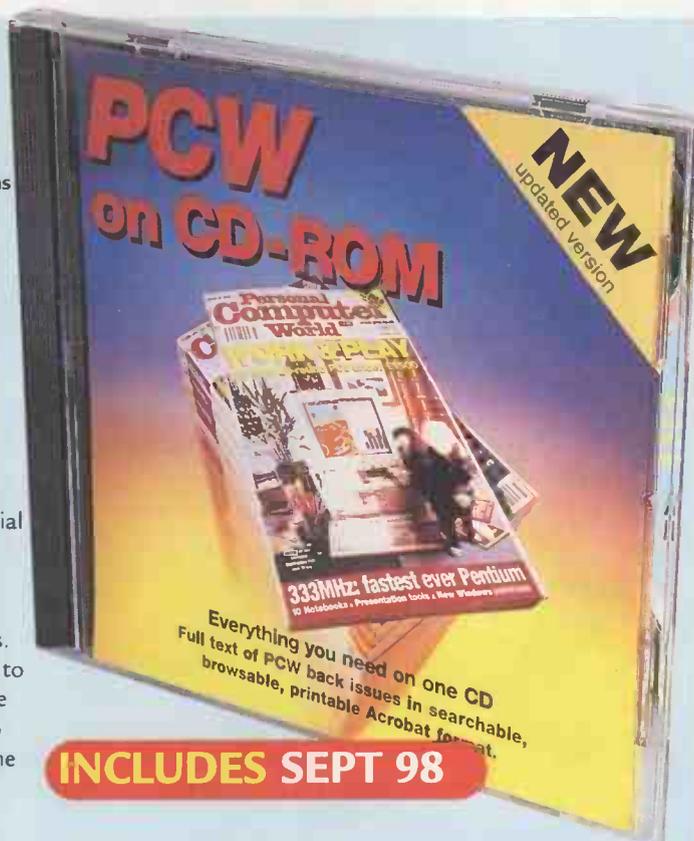
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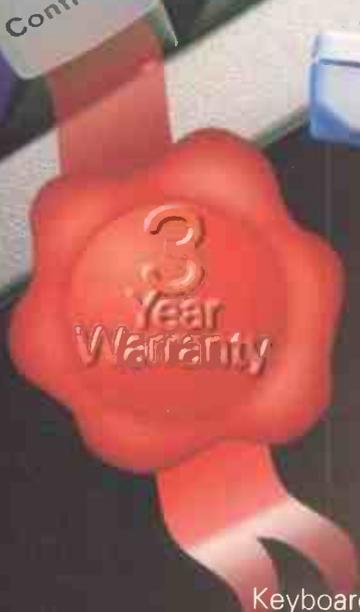
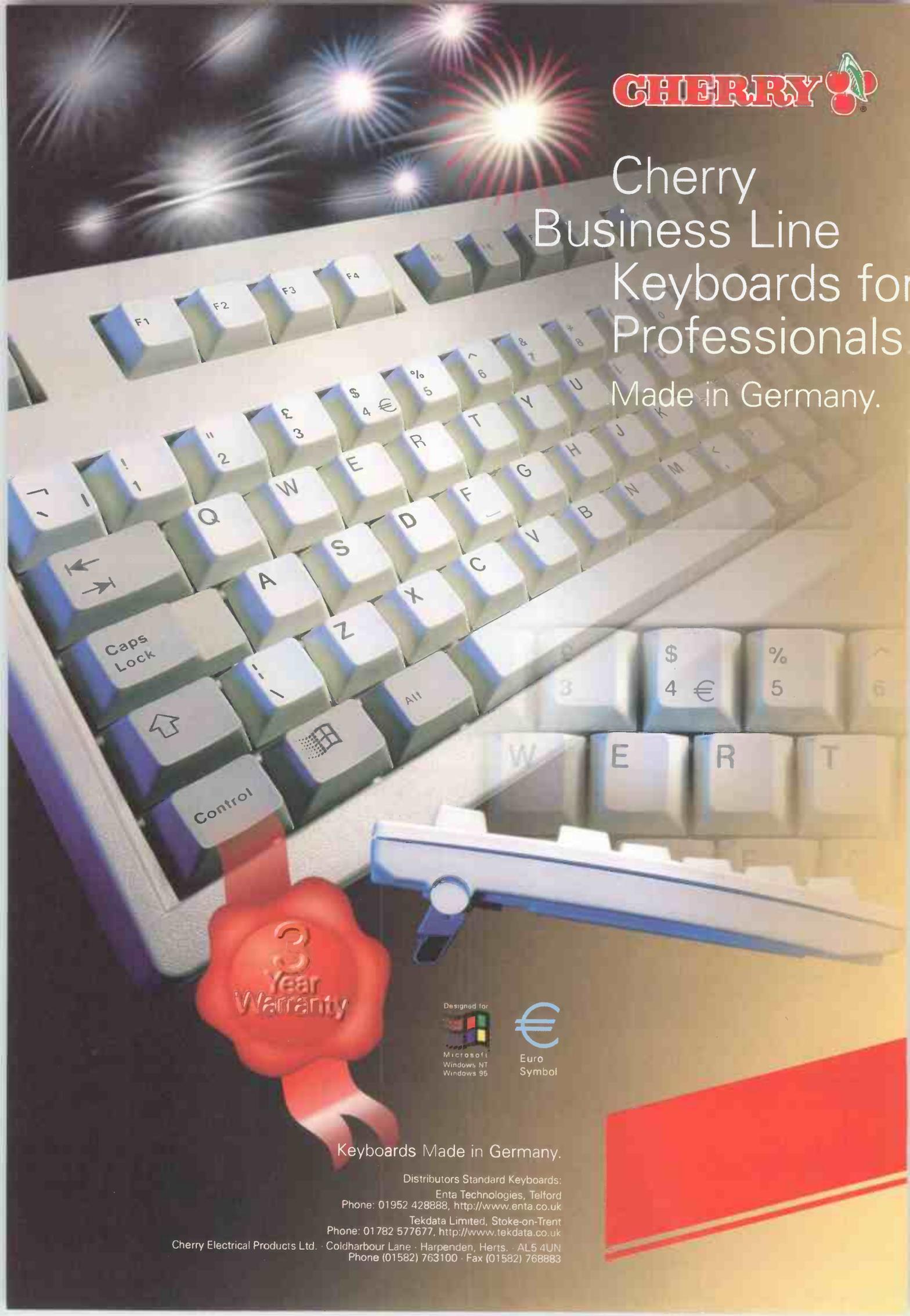
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leisure lines

So many good *Games* have been launched recently that it's been tough deciding which ones to review. Some of those you can see here are the new **X-Files** game, Ian Livingstone's **Deathtrap Dungeon**, and the classic arcade-actioner, **Cannon Fodder**. The *CDs* section has something for everyone: there's the new **Encyclopaedia Britannica**, the updated version of the **Who's Who?** Database, and Cosmopolitan's **Virtual Makeover** kit (featuring stunning pictures of me!). In the *Kids* section we bring you the truth about **Barney**, the purple dinosaur — our results defy all others! We also have reviews of Tivola's **Oscar The Balloonist And The Secrets Of The Forest**, and a new children's word-processing package called **Write**

Away. In the *Books* section we find out how one man survived the gold-rush year on the internet, in **Burn Rate**, and we review the **Ultimate Guide to the Palm Pilot**. You also get a chance to win a copy of the Ultimate Guide, or an actual Palm Pilot!

We have three superb *Competitions* this month. You can have a go at winning a complete home office from **Hewlett-Packard**, modems and video cameras from **Pace**, or a monitor from **Hansol**. This month's *Retro* ignites the spark of the Acorn Electron, while *Brainteasers* gives you something to puzzle over. And there's the *PCW Crossword*, giving you the chance to win a copy of the new **Chambers dictionary**.

So take a break, relax, and enjoy!

ETELKA CLARK, LEISURE LINES EDITOR
ETELKAC@VNU.CO.UK



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The X-Files Game

The answer is **out there** and you'll enjoy finding it.

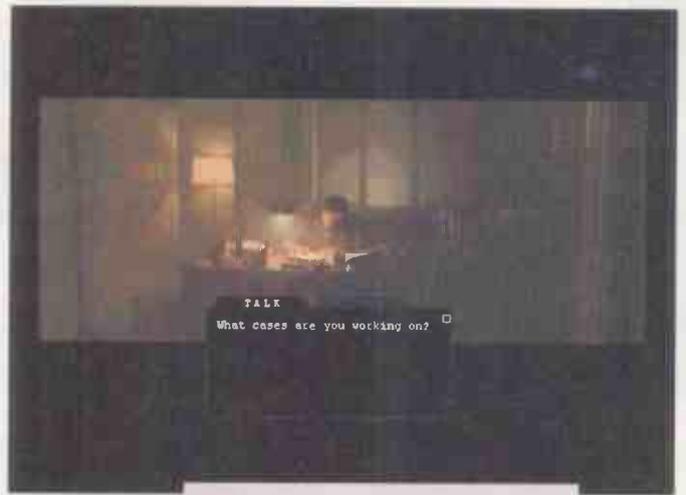


After the mammoth success of the X-Files television series, it was inevitable that a computer game would follow. After two years in the making, the designers have wisely opted not to let you play the part of Scully or Mulder, but to interact with both of them as FBI agent Craig Willmore. You are investigating their disappearance, so before you can start chatting to Scully about her pout and lovely, floaty, red hair... (sorry, forgive me) you've got to find them. Skinner has come over to Seattle to give you some pointers, but mostly seems to stand around looking broody and sullen while you look for his agents.

There are hours' worth of QuickTime movie footage to look at, all of it original

stuff. There's no doubt that this is a quality product. It's scripted by X-Files writers, packed full of Files minutiae, and features a lot of the usual suspects. It is a little over-reliant on point-and-click, though, and navigating through the game involves an awful lot of clicking. The odd, dimly-lit mood of the television show has been successfully recreated but you will need the brightness control on your monitor set to maximum to pick out the clues. The icon interface is well thought out, meaning that there are no complicated key combinations to learn, and despite all the clicking it's worth it for the moody, atmospheric QuickTime clips.

PAUL TRUEMAN



► THE QUIRKY, BROODING MOOD OF THE TV SHOW COMES ACROSS IN THE GAME

PCW DETAILS



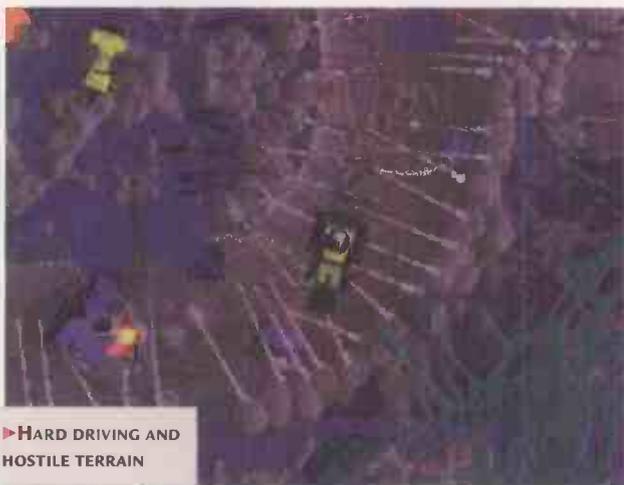
Price £39.99

Contact Fox Interactive 01753 549442
www.foxinteractive.com

System Requirements Windows 95, P120, 16Mb RAM, quad-speed CD-ROM, 250Mb free hard-drive space.

Vangers

Shooting, driving, **strategy and more**; you *must* get this game.



► HARD DRIVING AND HOSTILE TERRAIN



Is it a space game, a strategy game, or a driving game? There is no niche for such a diverse game as Vangers: One for the Road. The background story takes up four pages of the instruction manual, yet unlike the run-up to many other games it is a fascinating read. Thumping music throughout maintains the sense of

tension established in the opening pages, and the graphics suck you in to the heart of the action. As a human/bug hybrid — a Vanger — you're running for your life. The terrain is hostile but your vehicle should see you through. As your trading activities earn you more credits, you'll be

able to buy a better and more manoeuvrable form of transport and, most importantly, weaponry. But why weaponry? The colony, that's why; nasty bug-like creatures that operate with a collective mind who will, given half a chance, use your body as a fertile host for their larvae.

If you're after a fast moving shoot-em-up that will test your keyboard driving



▲ 4WD OWNERS, EAT YOUR HEART OUT!

skills, keep you entertained with an engaging story line, despatch you to a distant part of the known galaxy and throw in a bit of trading strategy on the side, then Vangers: One for the Road is for you. If you're not, then you cannot possibly be a serious PC games player.

NIK RAWLINSON

PCW DETAILS



Price £39.99

Contact Interactive Magic
01344 409399

www.imagicgames.co.uk

System Requirements Windows 95, 98 or NT 4, Pentium 133MHz processor (166MHz recommended), 16Mb RAM (32Mb recommended), 50Mb free hard-drive space (200Mb recommended), quad-speed CD-ROM, SVGA video card, mouse, Windows-compatible sound card.

Outwars

It's easy to get into *Outwars* and satisfying to **blast those bugs**.



fighting a war against hordes of evil alien bugs as they swarm around your bases and attempt to destroy humanity.

I was initially pretty sceptical about *Outwars*, particularly when first loading it up. The graphics are not going to win any major prizes, especially when compared to the likes of *Unreal*. The game

uses Direct 3D, so any reasonably modern 3D

accelerator card can be used. Once you're into a campaign, you'll be treated to some cheesy video briefings before each mission, but they do help to build the plot. The game has various missions and they're not just confined to killing



Outwars marks the end of Microsoft's inhibitions about games with violence. It's a shoot-em-up in

the mould of *Battle Zone*, with a mission-based structure and a continuing storyline. You play a marine,

▲ THE GRAPHICS AREN'T GREAT BUT THE SOUNDTRACK IS PRETTY TASTY

bugs; they are designed to be dynamic, so you'll be given a briefing which could change halfway through if the aliens do something unexpected. One aspect that really adds to the atmosphere is the music, which sounds very cinematic and is, in fact, as good as a few action film soundtracks that I've heard.

Outwars is a little formulaic and doesn't look particularly great. But it offers good gameplay and manages to achieve that elusive feeling of immersion in each mission. Definitely worth a look if you enjoyed *Battle Zone* or fancy some *Starship Troopers*-style bug-blasting.

DAVID FEARON

PCW DETAILS

★★★★

Price £34.99

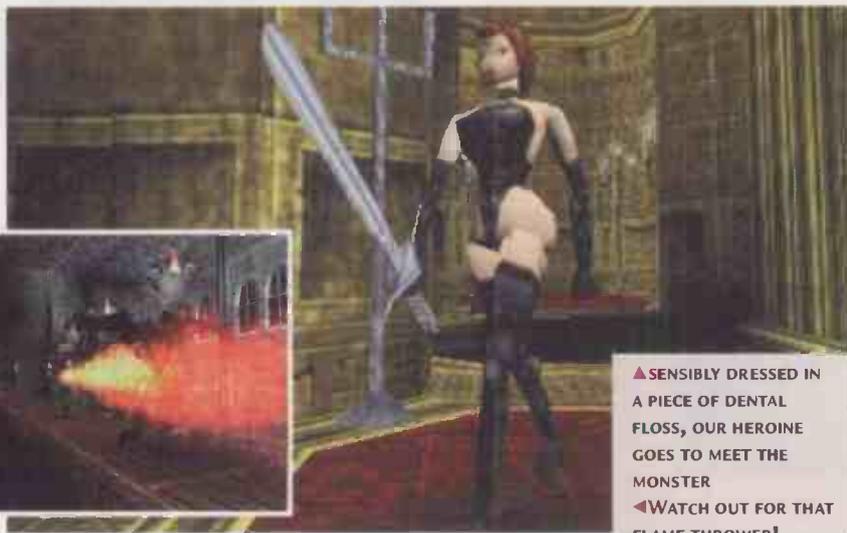
Contact Microsoft 0345 002000

www.microsoft.com/games/outwars

System Requirements Windows 95, Pentium 133, 16Mb RAM, 25Mb available hard-drive space, quad-speed CD-ROM drive, Direct3D-compatible graphics accelerator recommended.

Deathtrap Dungeon

The graphics are grungy but there's plenty of **gruesome gore**.



▲ SENSIBLY DRESSED IN A PIECE OF DENTAL FLOSS, OUR HEROINE GOES TO MEET THE MONSTER

◀ WATCH OUT FOR THAT FLAME THROWER!



Years ago, the ruler of Fang built a huge labyrinth beneath the hillside, filled with traps of devilish cunning and a large collection of wild beasts. Supreme among them was Melkor the Red

Dragon. Offering a reward to anyone who could enter the dungeon and live to talk about it, the Baron sat back and watched hundreds go to their deaths.

The two characters you control in this game seem to think they can do better. There's a massively-proportioned one-

man slaughterhouse, who is getting bored of decapitating anyone who looks at him a bit "funny" and wants the reward so he can retire. Needless to say, the female character wears very few clothes and has a torso that would put the *TV Gladiators* to shame. The idea is to work your way through the ten levels of the castle and dungeon, beginning at the Spire and working through to the final confrontation with the Red Dragon (or will it be the Baron himself?).

This is one of the more inventively-packaged games we've seen so far this year, with *Deathtrap Dungeon* playing cards included, as well as a *Fighting Fantasy* novel written by Ian Livingstone. Although the graphics are a bit disappointing, this game should suit gore fans down to the ground.

PAUL TRUEMAN

PCW DETAILS

★★★★★

Price £34.99

Contact Eidos 0181 636 3000

www.eidos.com

System Requirements Pentium 90MHz processor (P166MHz), Windows 95, 16Mb RAM (32Mb rec.), 120Mb free hard-drive space, double-speed CD-ROM.

M.A.X. 2

Strategy/shoot-em-up gaming **to the max**. It's only 2D, though.



Mankind has been admitted to the The Concord, an intergalactic parliament, but all sides are wary of each other. When

a renegade group of humans land on an unexplored planet and discover an active alien base, it's time for you to step in and sort out a troubled situation. Your first

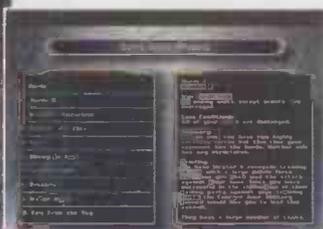
mission is a relatively simple one but as you play on and the story unfolds, you will have to take command of constructing whole human bases and defeating the hordes of aliens that threaten the Concord.

You marshal your troops, and more than 25 tanks, guns and troop carriers — in other words, the usual carriers of death and destruction required in a game such as this this. Combat is easily

arranged: you simply "point and click" on the troops you want, and then click on the enemy to be engaged. As with all good strategy games, though, there is more to it than simply co-ordinating vast planetary punch-ups: you have to use your resources to make initial purchases of engineers and construction machines, and work out what to build with them.

Essentially, M.A.X. 2 provides you with everything you ever wanted from a two-dimensional strategy shoot-em-up, apart from looks. If it's a brainteasing strategy-simulation you're after rather than jaw-dropping graphics, then this is the one for you.

PAUL TRUEMAN



▲ THERE ARE PLENTY OF MISSIONS TO KEEP YOU OCCUPIED
 ▲ PARLIAMENT HAS BEEN DISSOLVED!

PCW DETAILS



Price £34.99

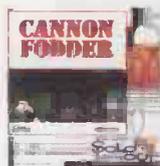
Contact Interplay 01628 423666

www.interplay.com

System Requirements Windows 95, Pentium 133MHz processor, 16Mb RAM, 30Mb free hard-drive space, double-speed CD-ROM.

Cannon Fodder

The price is right, the game is **classic** and the action is furious.



Among Cannon Fodder's stars are, apparently, James Dean, Elvis Presley, Vera Lynn, Norman Wisdom and JR Ewing from Dallas. However, who plays who is anyone's guess.

As the leader, you allocate lots of little men to assist you in carrying out scenes of mass carnage and destruction, wiping out the enemy and blasting their buildings. As you and your recruits run, swim and ski your way through combat, firing bazookas, throwing grenades, driving tanks and flying choppers, you



▲ OUT ON A MISSION TO SEEK AND DESTROY (INSET) SMALL GUYS, BIG BAZOOKER

must fight your way through 24 missions. Each mission takes place in a different zone within which you must follow instructions in order to complete each raid. You can kill yourself and your own, if you wish, and blast other

innocents who misguidedly cross your fearsome path. Although all this sounds gruesome, the comical graphics are reminiscent of a bedtime story. The first missions are very similar, with little

graphical variation, but persevere through this surprisingly more-ish game and it actually becomes quite engaging. The explosions are

satisfying and your bullets never run out.

Cannon Fodder is a shoot-em-up of the old school — if you want fast, all-action, adventure, then don't bother. But if you think you would enjoy playing a classic-style game, then at only £4.99, you could do a whole lot worse.

HELEN FORTGANG

PCW DETAILS



Price £4.99

Contact 0171 721 8767

www.sold-out.co.uk

System Requirements MS-DOS 5.0, 486 DX33MHz, 4Mb RAM (configured to expanded memory), double-speed CD-ROM drive, SoundBlaster-compatible sound card.

Who's Who 1897-1998

An **easy-to-search** century's-worth of who was, and who is, who.

If you use the original CD-ROM version of Who's Who on Windows 95 and plan to upgrade to 98, be prepared to lose your temper — under Windows 98 you will only be able to run this latest version of Who's Who, and it will cost you £300.

Still, at least this new edition, Who's Who 1897-1998, does contain all the latest information. The previous version of the CD-ROM incorporated all nine editions of Who's Who,

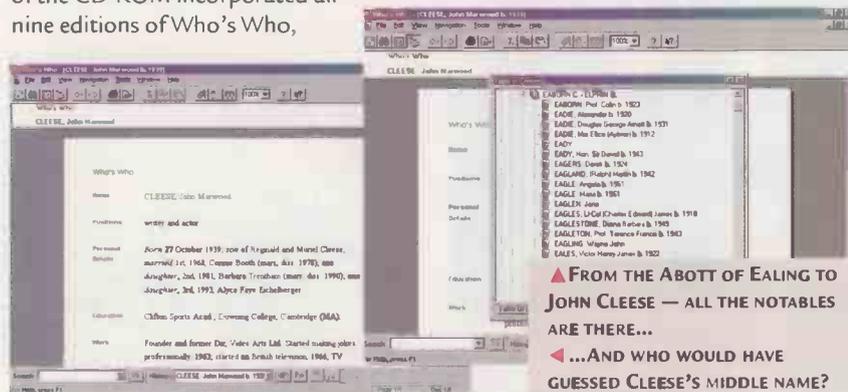
from 1897 to 1995. This one incorporates all that information, plus Who's Who 1998 and information not available elsewhere about those who died in the intervening years. Otherwise, the look and feel is as before.

It's easy to use, and finding the information you require is a doddle. In fact, the search facility is the main

strength of this CD-ROM. You can search by virtually any criteria to locate people by date, profession or interest, and how many liked salmon fishing or those who have some sort of association with Jack the Ripper (playwright Ray Cooney, actors Michael Caine and Peter Ustinov, and author Colin Wilson among others).

There are over 110,000 biographies of people who have in one sense or another contributed to the political, economic, scientific, social and artistic life of Great Britain during the past century. This CD is an essential for any researcher.

PAUL BEGG



▲ FROM THE ABBOT OF EALING TO JOHN CLEESE — ALL THE NOTABLES ARE THERE...
◀ ...AND WHO WOULD HAVE GUESSED CLEESE'S MIDDLE NAME?

PCW DETAILS



Price £293.75

Contact Oxford University Press
01865 267979

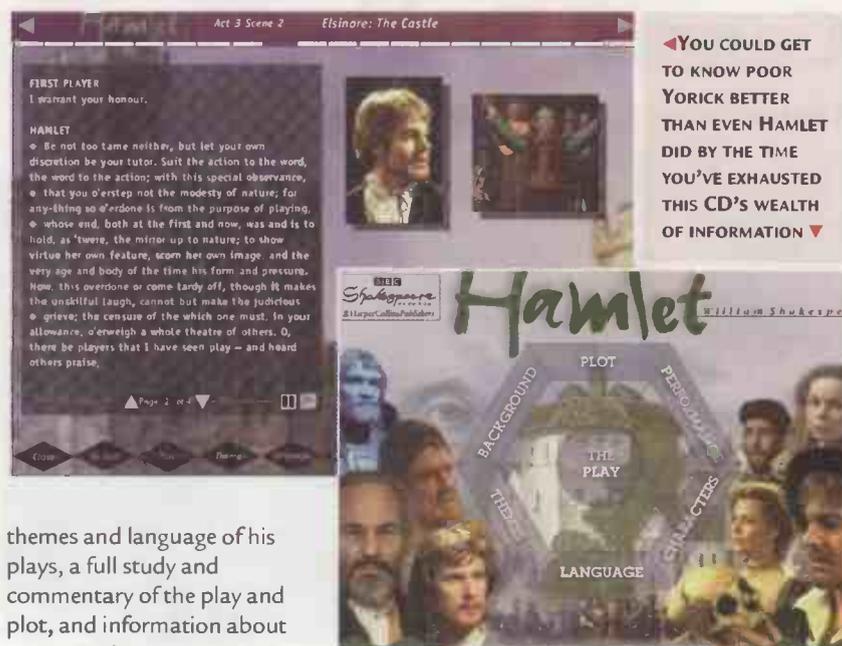
System Requirements Windows 3.1 or later (95 recommended), 33MHz 486 minimum, 4Mb RAM, 20Mb disk space, VGA graphics, mouse, quad-speed CD-ROM drive.

Hamlet

No **winter of discontent** here.

Hamlet is the latest addition to the award-winning BBC Shakespeare on CD-ROM series which so far includes Romeo and Juliet, Macbeth, A Midsummer Night's Dream, Julius Caesar, and The Tempest. When compared to videos, audio cassettes and books, these CDs, costing more than £100, are a significant investment for any school or home budget. They do contain a lot of information, however, and it's wrapped up in a way that makes Shakespeare palatable, even to those who can't tell their Rosencrantz from their Guildenstern and who don't really want to — which in itself is an achievement.

The CD contains the whole of the play in audio (which unfortunately doesn't work on an audio player), the full text of the play (the Alexander Edition, as recommended by many examining boards), and 20 minutes of video from the BBC production of the play. There is also extensive background information: the life and times of Shakespeare, the



◀ YOU COULD GET TO KNOW POOR YORICK BETTER THAN EVEN HAMLET DID BY THE TIME YOU'VE EXHAUSTED THIS CD'S WEALTH OF INFORMATION ▼

themes and language of his plays, a full study and commentary of the play and plot, and information about actors, acting, sets, scenery, costume, music and art.

In addition, there's a range of critical opinions and interviews with various actors. Among them are Kevin Kline and Richard Briars discussing Hamlet, and Derek Jacobi, who plays Hamlet in the BBC production. If Hamlet is on your course this year, this CD-ROM could represent money excellently spent.

PAUL BEGG

PCW DETAILS



Price £117

Contact Collins Educational
0181 741 7070

System Requirements Windows 3.1 or later, 66MHz 486 or higher, 8Mb RAM minimum, 16Mb recommended, VGA graphics, mouse, sound.

Cosmopolitan - Virtual Makeover

Bored with your make-up? Unhappy with your hair? Load up a picture and **try before you dye**.



you how lovely you look? With the Cosmo Virtual Makeover, you need not suffer any of these

dramas. Just scan a photo or take a digital picture of yourself, load it, and you are at liberty

changing world of beauty and fashion, too. Users can visit the virtual makeover web site and download the latest styles, makeup colours and beauty tips.

Having sold over 300,000 copies already in the US, Virtual Makeover is also a hit with the male population. Men can try out new hairstyles or judge whether a moustache or beard would suit them. This CD is great fun to use and will certainly generate a few laughs – how do I look, folks?

ETELKA CLARK

Have you ever thought a certain hairstyle would suit you, then had the chop and realised that it didn't? Or have you ever been for a cosmetic makeover, had tons of the wrong-colour foundation and lipstick caked over you, and then had to thank the beautician through a tight, false smile as she tells

to try as many hairstyles, lipsticks and eye shadows as you like. Be a blonde, cut it short, wear it up, try the new cocoa-colour lipstick... or the red? With over 150 different styles, 20 hair colours and many different shades of cosmetic, you can change your image as many times as you like. This CD keeps up with the ever-

PCW DETAILS



Price £29.99

Contact Roderick Manhattan Group
0181 875 4444

www.virtualmakeover.co.uk

System Requirements Windows 95/ 3.1, 486DX-66MHz or higher, 2X CD-ROM.

Britannica CD 98 Standard Edition

You may have to **search carefully** to get exactly the answers you want.

This latest version of Britannica on CD contains some 44 million words within 72,000 articles, including all the text of the multimedia edition and some beyond the latest printed version. The emphasis is firmly on text. There's little to illustrate it beyond some diagrams and photos, and it's reminiscent of the previous, CD97 edition – it, too, uses a Netscape interface, unlike the Internet Explorer-based multimedia edition.

As you'd expect, the standard way of navigating the disc is by a choice of Boolean or natural language searching.

PCW DETAILS



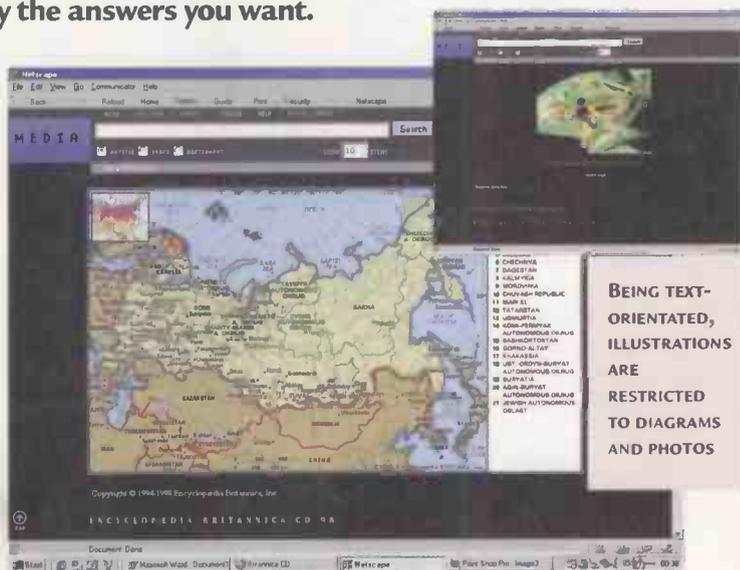
Price £99

Contact Britannica 0800 282433

System Requirements 486/25MHz processor minimum (486/33 or higher recommended). Windows 95, Windows NT 3.51 or 4.0, or Windows 3.x (3.1 requires the Win32s update), or 16Mb RAM is recommended 16Mb free hard-disk space 640 x 480 resolution.

The absence of the ? wildcard from searches shouldn't be a problem in the encyclopaedia but might prove awkward when querying the integral Websters dictionary. Britannica also offers the Compass, where you click on a map to learn about countries, or the Spectrum, which is ten broad categories of knowledge.

All the options are simple to use and the content is almost beyond reproach, but I was not impressed by the natural language searching. All responses are evaluated for their relevance to your



question, but ask how an inkjet printer works and you will be rewarded with the biography of Geoffrey Tory, printer to the King of France, born 1480, died 1533! The CD-ROM performed reasonably fast on our P233MMX but you may find it a bit slow on a lesser-specced machine.

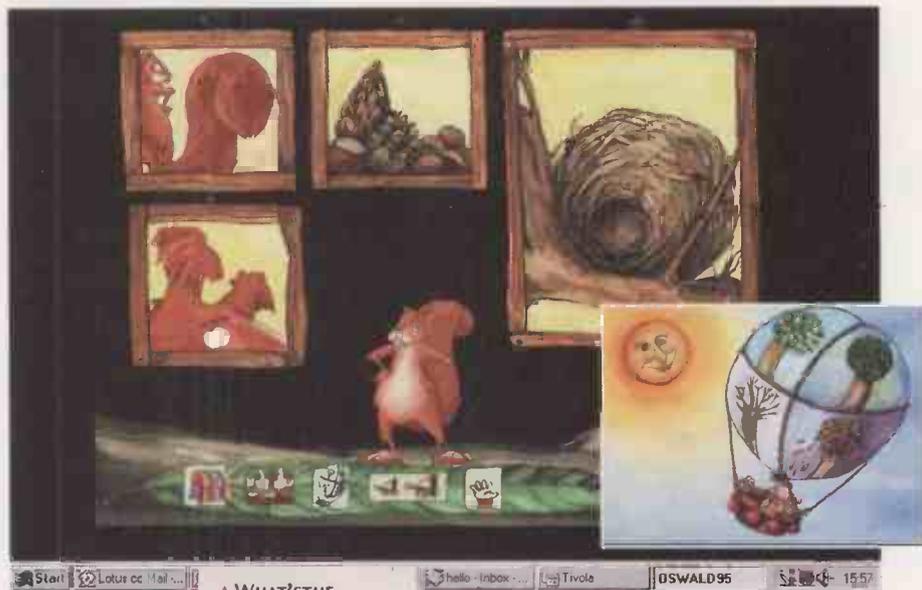
JOHN SABINE

Oscar, the Balloonist, and the Secrets of the Forest

Two educational programs featuring forest and farm. But younger children may need adult help.

European software can be a treat in the midst of all this US animation, and on that basis Oscar the Balloonist, from German software publisher Tivola, is worth a look. Oscar features in two programs: one explores the forest through the seasons, the other discovers the farm. Learning begins when you take off in Oscar's balloon in search of Carmela, his walking, talking toybox.

In *Secrets of the Forest*, Carmela is hidden deep in the forest. Once you've found her, you can play games and puzzles. None of these are particularly novel: there are interactive scenes to click on and games where you match animals to habitats or their favourite food. The feature that makes this game enjoyable is the beautiful detail of the presentation and being able to watch the forest change through the seasons. There is a lot to learn. The programs are aimed at 4- to 8-year-olds but younger children will need adult help with some of the games, especially as there is not the option to have puzzles solved for you if you don't know the answer. For



younger children, Oscar the Balloonist, Discover the

Farm, is probably the easier of the two programs in the series.

DEBBIE DAVIS

▲ WHAT'S THE SECRET, SQUIRREL?
▶ UP, UP AND AWAY IN OSCAR'S SEASONS BALLOON

PCW DETAILS

★★★

Price £24.99

Contact Tivola 0181 741 8011

System Requirements Windows 3.1 or higher/Mac.

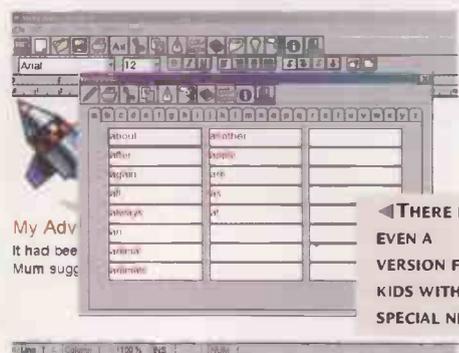
Write Away!

A versatile word processor to help children gain writing skills.

It may not seem necessary for children to have a word processor of their own, but Write Away! is a word processor designed with the specific aim of helping children develop their writing skills as required by Key Stages 1 to 3 of the National Curriculum. Primarily for classroom use, its strength is its

customisability, which lets it be adapted to suit the particular needs of a wide range of children across various age groups and with varying abilities. There is even a talking version available for children with special needs and visual disabilities, who will benefit considerably from the spoken confirmation of what is typed.

To help develop creative skills and encourage children to write, Write Away! has several tools: a writing planner for organising writing projects, a good outline for plotting a story, and writing hints to help with the differences between writing styles (e.g. news and fiction). There's also a word bank containing up to 100 words, a word game to reinforce correct spelling, and



an easy-to-use spelling checker that remembers frequently misspelled words. Write Away! also permits graphics, fonts, and changes to the colour of the "paper" and the words.

Write Away! comes as a standalone application or as part of Toolbox, a collection of five Maths and Science applications for Key Stages 1 to 3 of the National Curriculum.

PAUL BEGG

PCW DETAILS

★★★★★

Price £134 (£114.04 ex VAT) for a five-user licence. Talking Write Away! costs £165 (£193.88 ex VAT) for a five-user licence. Toolbox is £392 (£333.62 ex VAT) for a five-user licence.

Contact BlackCat 01874 622114

System Requirements Windows 3.1 or later, 386 or higher, 4Mb RAM, 5Mb disk space, VGA graphics, mouse.

ActiMates Interactive Barney

He's cute, chatty, cuddly and **great fun for kids** but like other dinosaurs he'll soon become extinct.

When the toy industry gathered earlier this year for its annual fair, there was a newcomer who boasted the biggest stand. Microsoft had arrived in toyland and Interactive Barney, its talking dinosaur, has been tipped as the hot gift this Christmas.

Powered by six batteries and 257Kb of built-in memory, Barney talks, turns tricks, and sings. Setting up a separate transmitter that plugs into your joystick port and loading Barney's CD-ROM, allows him to receive electronic radiation over a distance of 38cm and join in with what's on-screen. As you play shape-sorting games or recognise letters, Barney is there, with encouragement and praise.

All this cutting-edge technology seems to "wow" the adults, but what do the children think? We sent this king of gadgets and gizmos home with some kiddies to find out. Our youngest testers, rising two years old, were unsure — on first sight it even reduced one of them to tears. For our three- to five-year-olds, it was love at first sight. But, as any parent will tell you, a child falling head over heels in love with a purple dinosaur is nothing new. And after a few weeks of playing, Barney was beginning to show the side effects of his radiation therapy. Some of the drawbacks were technical.

When they played before bedtime, our testers wanted Barney, who was younger than them, to rest in bed. That meant he was more than 38cm from the

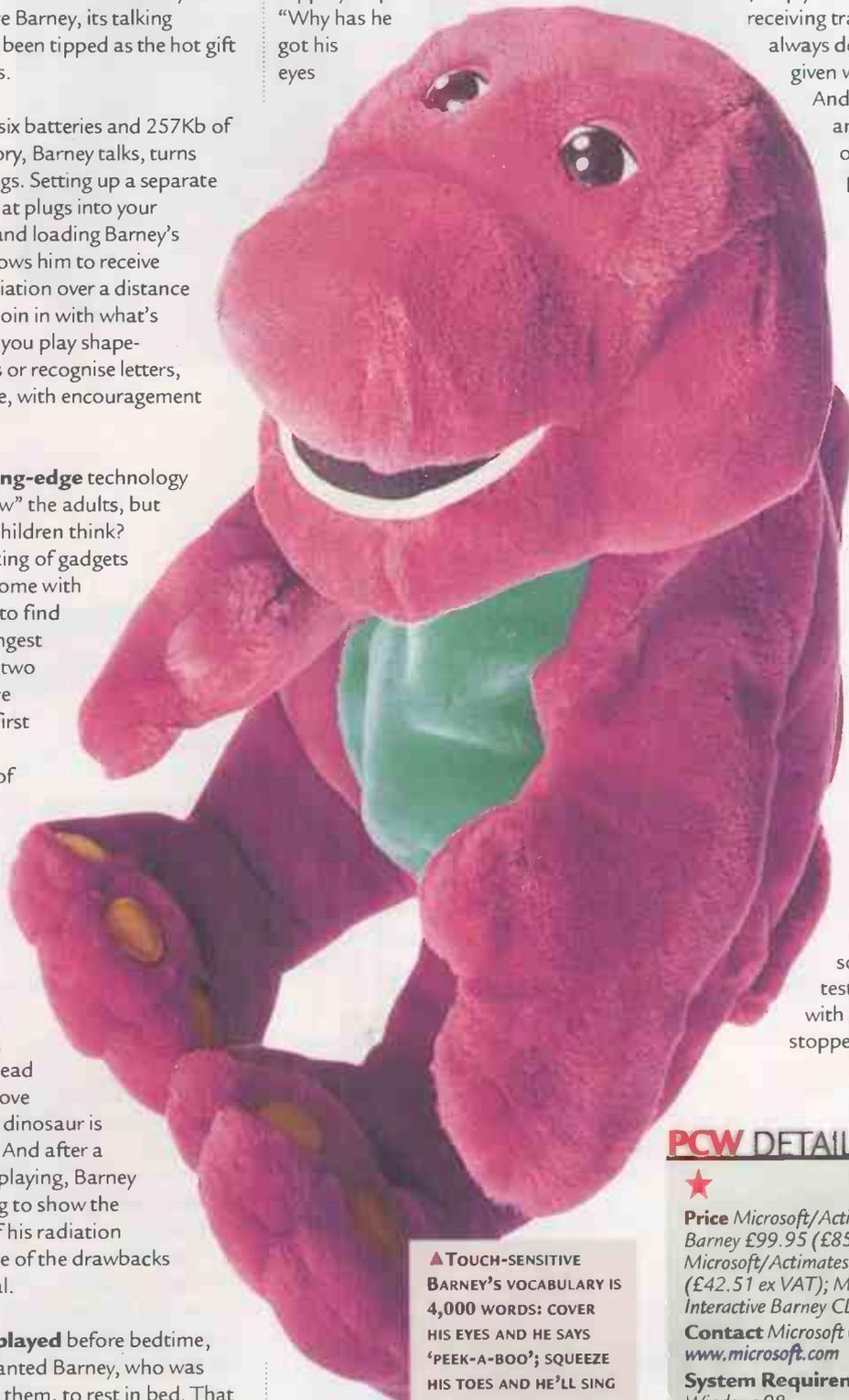
computer screen. So, he missed all his cues. "He's gone to sleep," explained a parent, but she was on a slippery slope. "Why has he got his eyes

open then?" asked one tester. Even worse, another squeezed his toes and he started singing "If you're happy and you know it, clap your hands". When he was receiving transmissions, he didn't always do what was expected, given what was on-screen.

And why didn't he have anything to say when our testers were playing with their new Bananas in Pyjamas CD-ROM? Our testers began to think Barney was a party pooper.

Technical drawbacks were minor. But what really caught Barney out was the way children at this age play; they have a surfeit of imagination and there aren't many toys that can keep up: Lego does, Teddy bears, old clothes and cardboard boxes do well, too. But a toy like Barney depends so much on imposing the game that it becomes a hindrance. It wasn't so much that our testers fell out of love with Barney; they just stopped playing with him.

DEBBIE DAVIS



▲ TOUCH-SENSITIVE
BARNEY'S VOCABULARY IS
4,000 WORDS: COVER
HIS EYES AND HE SAYS
'PEEK-A-BOO'; SQUEEZE
HIS TOES AND HE'LL SING
SONGS

PCW DETAILS



Price Microsoft/ActiMates Interactive Barney £99.95 (£85 ex VAT); Microsoft/ActiMates PC Pack £49.95 (£42.51 ex VAT); Microsoft/ActiMates Interactive Barney CD-ROM titles £29.95

Contact Microsoft 0345 002000
www.microsoft.com

System Requirements Windows 95 or Windows 98.

WIN Hewlett-Packard hardware!



Expanding Possibilities

Hewlett-Packard is giving PCW readers the chance to win equipment to create the complete home office. One person will win a Hewlett-

RULES OF ENTRY

This competition is open to readers of *Personal Computer World*, except for employees (and their families) of VNU Business Publications and Hewlett-Packard. 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.

HOW TO ENTER THE COMPETITION

1. Via our web site at www.pcw.co.uk, or
2. Write your name, address and daytime telephone number on a postcard, or on the back of a sealed envelope. Mark your card 'PCW/HP Competition' and send it to: P.O. Box 191, Woking, Surrey GU21 1FT, by Friday 6th November 1998. Please state clearly on your competition entry if you do not wish to receive promotional material from other companies.

Packard PC from the new **Pavilion 6000 series**, a **DeskJet 710C** printer and a **ScanJet 4100C** scanner. Two runners-up will receive a **ScanJet 4100C** scanner each.

The latest PCs in the HP Pavilion 6000 series deliver everything consumers need to work, play and learn at home. They feature 350MHz Intel Pentium II processors, the ATi Rage Pro AGP 2X graphics card, DVD 2X CD-ROMs, 56K data/fax modems with telephony, and Polk audio stereo speakers with PowerPort technology to deliver a rich, high-quality sound for a "theatre-in-your-home" experience. You will also receive three months' free full internet access and email, and the latest **leading software** to satisfy all your computing needs – MS Windows 98, MS Works, MS Money 98, MS Encarta World Atlas 98, and lots more.

The **DeskJet 710C** printer has been designed to enable users to create brilliant, image-



rich projects at home and in the office. With its compact design and quiet operation, it offers great photo-quality printing on any media, including plain and recycled paper, HP paper, transparencies, banners, iron-on transfers and greeting cards. It can print, on average, four pages per minute and will hold up to 100 sheets of single plain paper at a time.

The **ScanJet 4100C** rounds off this complete set of home/office equipment beautifully. It is an affordable colour scanner designed to make at-home scanning virtually effortless. HP's Intelligent Scanning Technology, Universal Serial Bus connectivity, separate scan and copy buttons, and a recessed cabling design make it perfect for first-time, space-conscious users.

■ **For a chance to win** this great Hewlett-Packard equipment, just answer the following question: **How many sheets of single plain paper can the DeskJet 710C hold at any one time?**

(A) 10 (B) 100 (C) 1000

➔ See the box [left] for entry details.

WIN a Hansol monitor!

Hansol is giving *PCW* readers the chance to win one **17in 700P monitor** and one **19in Mazellan 900P monitor**. The 700P, worth £219, offers the highest resolution and refresh rates as well as the finest dot pitch. It also has high display capabilities, including an ultra-fine 26mm dot pitch. With a high

75Hz flicker-free refresh at 1280x1024 resolution and 1600x1280 maximum resolution at 66.6Hz, crisp lines and sharp text are assured.

The Mazellan 900P, worth £375, is both PC and Mac compatible. Its screen resolution can reach 1600x1200 at 75Hz and features a dot pitch of 26mm. Each of the 22 on-screen functions is controlled by a single rotary dial on the lower front bezel. Hansol currently enjoys one of the lowest failure rates in the monitor market, and the 900P is set to continue this trend.

Both monitors are environmentally friendly. Not only do they surpass MPR-II and Energy Star guidelines, but they also comply with the strict TCO 95 world standards for low radiation, heat reduction, energy efficiency, recycling ability and ergonomics.



■ **For a chance to win** one of these super monitors, just answer the following question:
What does Hansol currently enjoy?
 (A) The lowest failure rates in the monitor market
 (B) Cod and chips
 (C) Seventies disco
 ➔ See the box below for details on how to enter the competition.

WIN top Pace prizes!



Pace, the groovy modem maker, is going modem mad this month. One lucky *PCW* reader can win a complete video-conferencing solution. And five runners-up can win Pace Colour Video Cameras!

The video-conferencing solution is worth £340. It is two Pace 56 Voice modems and two Pace Colour Video cameras. The winner can keep one set and give the other away to a friend with whom they would like to communicate.
The Pace 56 Voice external modem

supports data, voice and fax and is flash-upgradable to V.90. It doubles as a full-duplex hands-free speaker-phone through its built-in microphone and speaker. Pace has focused on developing a 56K product with features not found on other modems. Each model supports UK Caller ID, giving access to a caller's number even before the phone rings.

The Pace colour video camera is designed to sit on top of a PC monitor. We have two versions you can win: one which connects to your PC's USB port, and another which connects to your PC using a supplied PCI card. Used in

conjunction with a modem, you will be able to send video mail and bridge the gap

between distant friends and relatives with video-conferencing.

■ **For a chance to win** this great Pace equipment, just answer this question:
Where does the colour video camera sit?
 (A) Under your desk
 (B) On top of your PC monitor
 (C) On top of your head

RULES OF ENTRY

These competitions are open to readers of *Personal Computer World*, except for employees (and their families) of VNU Business Publications, Hansol and Pace. The Editor of *Personal Computer World* is the sole judge of the competitions and his decision is final. No cash alternative is available in lieu of competition prizes.

HOW TO ENTER THE COMPETITIONS

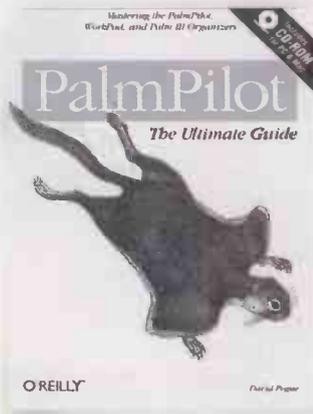
1. Via our web site at www.pcw.co.uk, or
2. Write your name, address and daytime telephone number on a postcard, or on the back of a sealed envelope. Mark your card(s) with the name of the competition(s) you are entering, and send to: P.O. Box 191, Woking, Surrey GU21 1FT, by Friday 6th November 1998. *Please state clearly on your entry if you do not wish to receive promotional material from other companies.*



Palm Pilot: The Ultimate Guide

The **PalmPilot PDA** has been on the market for a few years now and is so simple to use that you would hardly think there was a need for a guide. O'Reilly, however, sees things differently and has produced this weighty tome dealing, in the most part, with fairly simple and self-explanatory subjects, or those things that are detailed in the instruction manual which comes with your PDA. The advantage of this book, however, is that it can afford to take more space to argue its case, which is great for novice users, but for anyone experienced in the use of a PalmPilot, it can become tedious.

Nevertheless, there are many useful tips, hints and anecdotes: everything is touched upon, from the name of the palm-tree mascot of Palm Computing



(it's Sheldon, if you must know) to a quick way of hiding the currency prefix in your expenses. Many areas are examined in depth: a 30-page chapter on programming for the Palm series should serve as a quick-start guide to getting your device to do what you want it to.

A whole array of undocumented procedures can be found scattered throughout the pages of this book. Everything seems to be covered, from unofficial easter eggs which show two-tone photographs of the original US Robotics programmers, to more useful functions such as opening the "developer's backdoor", which is a facility to force your PalmPilot to wait *ad infinitum* for your PC to respond,

instead of timing out as it usually would in an unresponsive Hot Sync session.

The real value of this book, though, is not so much what is written between the covers, but what is attached to them, for inside the back cover you will find a CD-ROM crammed with useful shareware and upgrades. Although many of these utilities are available on the internet, having them supplied on CD saves downloading them yourself.

NIK RAWLINSON

→ We are giving away an actual PalmPilot PDA as well as copies of *PalmPilot: The Ultimate Guide*. To win one of these prizes, put your name and address on a postcard and send it to "PCW/PalmPilot" at the Editorial Office address (p10) to arrive before 16th October. PCW competition rules apply.

PCW DETAILS



PALMPILOT: THE ULTIMATE GUIDE
 Author David Pogue
 Publisher O'Reilly
 ISBN 1-56592-420-7
 Price £21.95

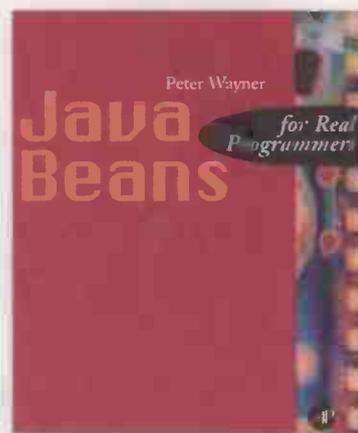
Java Beans for Real Programmers

A **Java Bean is the equivalent** of an ActiveX control, being a piece of Java code that can be used as a component in a visual programming tool such as Inprise JBuilder, Symantec Visual Café, or Sybase PowerJ. That makes this a key topic for anyone doing rapid application development with Java.

Peter Wayner's book is described on the cover as a "high-end developer's guide" but it is suitable for anyone who has done a little Java programming. It starts at the beginning, explaining the essential concepts behind Bean programming, and goes on to explain how to create a simple Bean. Next comes a chapter on persistence, which means saving a Bean to a file or other datastream. There is a brief explanation of events, a vital part

of Beans technology which allows Beans to communicate with each other and work in an event-driven environment. Finally, the book explains how to make international Beans and how to use BeanInfo, the object that lets Beans plug in to a visual programming tool. At the back of the book are a series of examples showing how to use events to link several different Beans. This is a book which scores highly on readability and real-world usefulness. There are plenty of tips and examples, along with warnings about common pitfalls. But there is no accompanying CD.

The problem with the book is that it is too narrow in scope. There is nothing about Enterprise JavaBeans (Beans that



run on the server in a web or multi-tier application). There is nothing about integrating JavaBeans with databases. There is no coverage of Swing, the official new visual components built as JavaBeans. Since the concept of a visual builder is so important for JavaBeans, I would also have liked

some comment on how to create and use Beans with the leading Java development tools. The book as it stands has an attractive simplicity, but as a specialist title it should provide more in-depth treatment. It is still a worthwhile read, though, offering a clear guide to the basics of coding with Beans.

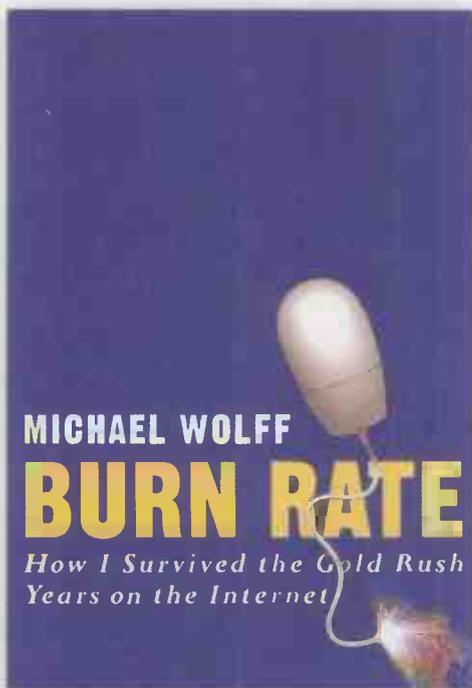
TIM ANDERSON

PCW DETAILS



JAVA BEANS FOR REAL PROGRAMMERS
 Author Peter Wayner
 Publisher AP Professional
 ISBN 0-12-738670-X
 Price £29.95

Burn Rate – How I Survived the Gold Rush Years on the Internet



Information superhighway. There! I wrote it. There is a fabulous whiff of nostalgia hanging around this phrase, now as much a relic of early nineties slang as ‘grunge’ and ‘Generation X’. It is becoming increasingly difficult to clearly remember the time when the internet was still effectively just a very popular bulletin-board and email service for a few thousand geeks. Michael Wolff’s book charts the growth of the internet and its glamorous offspring, the World Wide Web, from the perspective of someone who was sucked into the madness of ‘the gold rush years’.

In 1994, Wolff (originally a journalist) came up with the idea of replicating the US success of TVGuide, with NetGuide which would point people towards what was good on the web. As a self-proclaimed pioneer of the new media,

PCW DETAILS



BURN RATE

Author Michael Wolff

Publisher Weidenfeld and Nicholson

ISBN 0-297-84261-7

Price £18.99

Wolff writes about his early, hilarious meetings with venture capitalists and other

would-be financial partners, few of whom had any clue about what it was they wanted to invest their millions in, other than it was supposed to be the Next Big Thing and therefore definitely A Good Thing. “It’s a mass medium. Everybody will have internet. Everybody will have to have internet...like television,” says one such idiot, before promptly paying Wolff \$10m to use his “database” of a few thousand “outdated site lists”, believing that he had, in fact, bought the internet itself.

Apart from this initial stroke of good fortune, the theme of the book soon becomes obvious: no-one was making money from the internet. The title *Burn Rate* refers to the disparity between a company’s overheads and its revenues, which in Wolff’s case

was running at half a million dollars a month. The book covers Wolff’s increasingly desperate attempts to keep his company afloat despite its continual financial haemorrhaging. He jumps into bed with unscrupulous venture

Apart from an initial stroke of good fortune, the theme of the book soon becomes obvious: no-one was making money from the net

capitalists, watches his mad hippy friend, Louis Rossetto, found a publishing phenomenon with *Wired* magazine, and attempts to screw money out of anyone who’s ever heard of the internet.

This is a delightfully honest read, ludicrous and informative by turns, that should delight anyone with an interest in the black arts of financing and, of course, that information superhighway thingumajig.

PAUL TRUEMAN

TOP

10

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Acorn angst

Simon Collin bought an Acorn Electron — but then **wished he'd bought a BBC Micro instead.**

Like the majority of the computing world, I am tied to a PC desktop. There is nothing wrong with this, but sometimes you forget about the other platforms. Last week, I tested out one of the latest, greatest Acorn computers: its RISC processor flew through complex graphics applications with impressive ease. Seeing the little green acorn logo reminded me of my own Acorn, bought in the early eighties when I was young and impressionable.

Acorn started off in the public arena with its Atom computer. This neat little machine came either in kit form or pre-assembled and had a similar target audience to the Sinclair range (the ZX80 and ZX81, in particular). It was powered by a 6502 processor running at 1MHz and had 2Kb of RAM fitted as standard, along with text and graphics display modes and a sound channel. I didn't buy an Atom. Instead, I went with the pack and picked a ZX80. At the time, the personal computer world was split down the middle by the choice of processor in the box. This mattered, because you had to program the unit in Assembler — it took me months to get any new program to run properly! The two main processors were the 6502 from Motorola and the Z80 from Zilog. I preferred the Z80 architecture, and always considered the 6502 a difficult brute with which to design and program.

Acorn launched a new computer to coincide with a TV series that explained how computers worked. The 6502-based BBC Micro went down a storm and the astonishing demand outstripped supply for weeks. The popularity of the BBC Micro was even more astonishing, given that early models could overheat and were temperamental. Everyone but me had a BBC Micro: I bought a Sharp MZ-80K (another Z80-based computer). Acorn decided to move downmarket (even though the BBC Micro was very reasonably priced) and, in 1983, it launched the Acorn Electron. Having

The Electron sold modestly and was not the success Acorn had hoped



▲ THE ACORN ELECTRON WAS A MODEST FORERUNNER OF ACORN'S LATER RISC-BASED COMPUTERS

resisted temptation for so long, I bought an Electron. Naturally, this was the wrong model to have selected. It was a cut-down, slowed-down cheaper version of the BBC Micro and sold for £199. It could run most of the same software as the BBC Micro, but not everything. It could not accept the same hardware add-ons, and, worst of all, had almost no expansion capabilities.

My first 6502-based computer was not a classic like its bigger brother, the BBC Micro. It had the same brand of Motorola processor but running at a sluggish 1.8MHz and 32Kb of RAM as standard. Its 32Kb of ROM included the by-now famous version of the BBC BASIC programming language. This was more Pascal than Basic, and allowed clever programmers to access the operating system and run a BASIC application at impressive speeds. The Electron had good graphics and text modes for the time, and supported text to

80x32 and graphics resolutions up to 640x256 pixels with eight colours. Best of all, as with the BBC Micro, the Electron supported a good sound chip that, with a little programming effort,

could produce a modest symphony. To store program files there was a socket for a standard cassette recorder, together with three types of video output ranging from a standard TV modulator through to RGB connectors for those with a high-resolution monitor. If only Acorn had spent some of the video connector budget on other types of connector!

If you wanted to expand your Electron, you had to buy an add-on unit that plugged into the back of the machine and included various extra ports. There were three types of these add-ons but only two were ever sold in reasonable quantities: the Plus 1 provided a serial and parallel printer port, while the Plus 3 supported a 3.5in disk drive. For the adventurous, third-party manufacturers sold add-ons that included an EPROM programmer (essential for any self-respecting hacker at the time) and memory expansion units.

The Electron provided a modest stepping stone towards Acorn's current range of great RISC-based computers. But I should have bought a BBC Micro — the big brother that sold fantastically and still has a very active user environment on the web. The Electron sold modestly and was not the great budget-level success Acorn had hoped, but then, following an unexpected runaway success is a difficult task.

brainteasers

Quickie

All the Runners and Riders:
There were some horses and riders in a field, and I counted 78 legs and 35 heads. How many of each were there?

This Month's Prize Puzzle

This is not as difficult as it might at first appear, but should provide a diversion for an hour or so.

Four men, Alf, Bob, Colin and Dave, are married to Kath, Liz, Mary and Nell — although not necessarily respectively. Each of these eight people purchase postage stamps — each buying as many stamps as the denomination of the

stamp in pence, and no person buying the same denomination as any other. Each husband spent exactly P more than his wife — P being less than £1.00.

Colin spent 9p more than Nell, and Dave spent 23p more than Liz. Mary spent more than everyone else except her husband.

Who is married to whom?

Send your answer on a postcard, or on the back of an empty sealed envelope, to:

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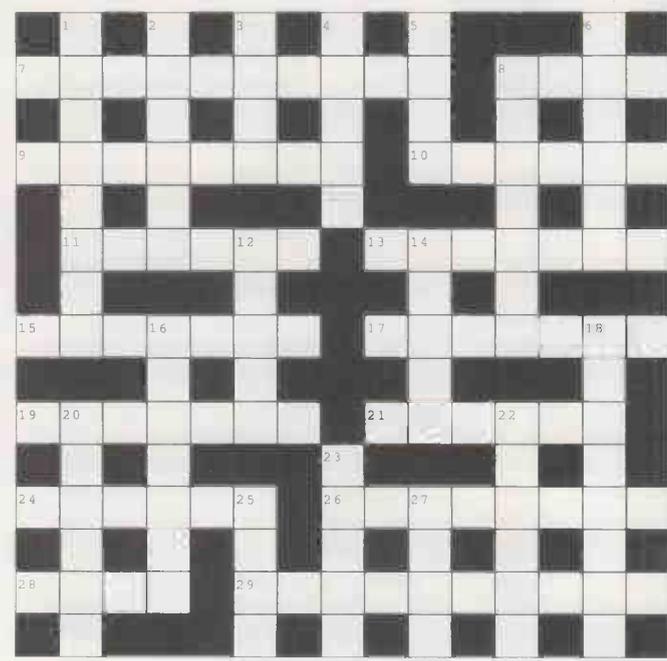
Entries should arrive no later than the 20th November 1998. Please do not send solutions on floppy disks, emails, or in envelopes.

Winner of August 1998 Prize Puzzle

Over 100 entries were received for our not-so-easy-as-it-first-appears logic problem. Most of you came up with the correct solution: *Olive loved Ivor*. The winning card came from Gordon Brindle of Witney, Oxfordshire. Congratulations, Gordon, your prize will be with you shortly. To the also-rans — keep trying, you could be the next winner.

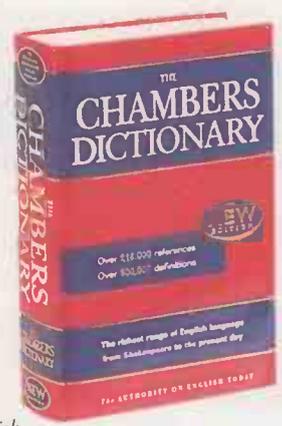
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prize crossword



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Please state clearly if you do not wish to receive promotional material from other companies.



ACROSS

- 7 William Gibson's non-physical binary world (10)
- 8 Permanently resident operating firmware (4)
- 9 Single functional blocks of circuitry (8)
- 10 CAD's D (6)
- 11 Audible mouse activities (6)
- 13 Brings in data from elsewhere (7)

- 15 Printer's roller (7)
- 17 The C of CPU (7)
- 19 The O of OCR (7)
- 21 Like a network made to resemble the workings of the human brain (6)
- 24 See 10 across
- 26 Permanently present in the main memory (8)
- 28 Start it up (4)
- 29 Non-traditional AI way of representing thought (5, 5)

DOWN

- 1 Distantly (8)
- 2 Tedious task (6)
- 3 Counterfoil (4)
- 4 Mistreat (5)
- 5 Minus (4)
- 6 Unit of current (6)
- 8 Most gloomy (7)
- 12 Exotic dance (5)
- 14 Female relative (5)
- 16 Three-pronged spear (7)
- 18 Ocean (8)
- 20 Keyboard instruments (6)
- 22 Wild West shows (6)
- 23 Superficial scratch (5)
- 25 Secure (4)
- 27 Utters (4)

October solutions

ACROSS

- 7 Icons 8 Chip 9 Open
- 11 Device 12 Read-only
- 13 Home 15 POP 16 Macro
- 19 Refresh 20 Corrupt
- 23 Basic 25 VGA 26 Font
- 28 Computer 30 Cursor
- 32 Band 33 DRam 34 Wafer

DOWN

- 1 Ache 2 Engineer 3 Therapy
- 4 Spear 5 Toyota 6 Peel
- 10 Tempest 14 Opera
- 17 Ripen 18 Romance
- 21 Referral 22 Overeat
- 24 Impede 27 Study 29 Oval
- 31 Oven

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dan Ultimate/200, Best Buy, What PC?, April '97



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Personal Computer World, July 1998



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What PC?, June 1998



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What PC?, June 1998



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PC Direct, June 1998



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dan Home Plus, What Personal Computer, October '97



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- 56KBPS VoiceFax/Modem (UK only)
- DVD Drive
- Soundblaster AWE 64 OEM
- Dan Subwoofer & Speakers
- Midi Tower Case with PSU
- Microsoft IntelliMouse™
- 1.44MB Floppy Disk Drive
- 1 Parallel, 2 Fast Serial & 2 USB Ports
- Windows UK Keyboard
- 2MS Sidewinder Joypads, Microphone
- Windows 98 or 95 (please specify)
- MS Works, Encarta 98 US, Intuit Quicken 6SE, Serif Page Plus & MMX™ Software Bundle (5 titles)
- 1 Year On-site Warranty



APR 29.9%

333MHz	£1647	£1936 incl. VAT	£90.82
350MHz	£1700	£1998 incl. VAT	£93.69
400MHz	£1853	£2178 incl. VAT	£102.04
450MHz	£2008	£2360 incl. VAT	£110.47

dan Xplora II Plus
High end INTERNET PC

- 32MB PC 100 SDRAM (1x32MB)
- 4.0GB EIDE HDD
- Intel® Pentium®II Processor with 512KB Pipeline Burst Cache Memory
- ATI 4MB 3D Charger AGP Video Card
- 15" Super VGA L/R N/I Monitor (Viewable size 13.96" - 349mm)
- 56KBPS VoiceFax/Modem (UK only)
- 32MAX Speed EIDE CD-ROM
- SoundBlaster AWE 64 OEM
- Dan Hi-Fi Power Speakers (150W PMPO)
- Midi Tower Case with PSU
- Microsoft IntelliMouse™
- Fast EIDE PCI HDD Controller
- 1.44MB Floppy Disk Drive
- Windows UK Keyboard
- Microphone
- Windows 98 or 95 (please specify)
- 1 Parallel, 2 Fast Serial & 2 USB Ports
- MS Works Suite, Intuit Quicken 6SE & MMX™ Software Bundle (5 titles)
- 1 Year On-site Warranty



APR 29.9%

333MHz	£943	£1109 incl. VAT	£52.48
350MHz	£996	£1171 incl. VAT	£55.35
400MHz	£1149	£1351 incl. VAT	£63.70

5.0GB UDMA HDD Upgrade £11 (£13 incVAT)
8MB Xpert'98 AGP Video Card £15 (£18 incVAT)

dan Xplora
Entry level INTERNET PC

- 32MB SDRAM (1x32MB)
- 3.2GB EIDE Ultra DMA HDD
- Choice of AMD K6 or IBM 686 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 VoiceFax/Modem (UK only)
- 32MAX Speed EIDE CD-ROM
- Soundblaster 16 Soundcard
- Dan Advanced Speakers (10W PMPO)
- Desktop Case with PSU
- Microsoft IntelliMouse™
- Fast EIDE PCI HDD Controller
- 1.44MB Floppy Disk Drive
- Windows UK Keyboard
- Microphone
- Windows 98 or 95 (please specify)
- 1 Parallel & 2 Fast Serial Ports
- MS Works Suite, Intuit Quicken 6SE & MMX™ Software Bundle (5 titles)
- 1 Year On-site Warranty



APR 29.9%

AMD K6 Processor	266	£706	£830 incl. VAT	£39.54
AMD K6 Processor	300	£721	£848 incl. VAT	£40.38
IBM 686 Processor	300	£711	£836 incl. VAT	£39.82

Delivery cost to mainland UK for one system is £19 (£23 incVAT)

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"We judged the PCs in this month's group test on three main criteria: performance, price and internet readiness...There is usually quite a bit of hand-wringing over our Editor's Choice award, but not this month. Sheer value for money, performance and a no-strings internet access trial means that this month's winner just had to be the Dan Xplora Plus/166XT. It is well built, well specified and is one of the few machines to be truly internet ready. Superb."
PCW, Editor's Choice (dan Xplora Plus/166XT), Sept'97



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1997 Service Award



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ATi All in Wonder Pro Video/TV Card

included as standard in dan Home Plus PCs

Customers who are looking for the ultimate in multi-media graphics and video capabilities in a single card need look no further than the All in Wonder Pro from ATi. Based on ATi's latest 3D Rage Pro processor and available in both PCI and AGP formats, the All in Wonder Pro offers just about the most comprehensive solution there is for industry-leading 2D acceleration, arcade-quality 3D acceleration, video capture, output to TV and TV Teletext functions that let users exploit TV content, rather than simply watch it.

- ATi's All in Wonder Pro functions include:
- Rage Pro powered 2D/3D graphics acceleration
 - Still image and motion video capture
 - Video playback software
 - Intelligent TV Tuner
 - TV set display with "Channel Surf", "Instant Replay", "Zoom" and "Scheduled Viewing".
 - Wide screen display capability



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"CTX are the UK's no. 1 in terms of branded volume shipments of colour monitors. This has been achieved through a consistent strategy of producing high quality products at affordable prices."

"At CTX we understand the importance of finding the right customers and we use a variety of different publications to attract business and consumer buyers. We are in no doubt that Personal Computer World has contributed to CTX's success as it has continuously provided us with a broad range of high value, quality customers."

"Personal Computer World provides us with an excellent vehicle to inform and educate customers about our products and brand."

Mike Evans

Mike Evans
Marketing Manager CTX

CTX





Memory



8MB Memory 72-pin Module with Parity	£ 16 (19)
16MB Memory 72-pin Module with Parity	£ 19 (23)
32MB Memory 72-pin Module with Parity	£ 40 (47)
8MB EDO RAM 72-pin Memory Module	£ 9 (11)
16MB EDO RAM 72-pin Memory Module	£ 13 (16)
32MB EDO RAM 72-pin Memory Module	£ 27 (32)
64MB EDO RAM 72-pin Memory Module	£ 85 (100)
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32MB SDRAM 168-pin Memory Module	£ 29 (35)
64MB SDRAM 168-pin Memory Module	£ 65 (77)
128MB SDRAM 168-pin Memory Module	£ 129 (152)
32MB PC100 SDRAM 168-pin Memory Module	£ 33 (39)
64MB PC100 SDRAM 168-pin Memory Module	£ 73 (86)
128MB PC100 SDRAM 168-pin Memory Module	£ 145 (171)

Video Cards



ATI 3D Charger AGP 4MB EDO RAM	£ 25 (30)
ATI Xpert@Work PCI 4MB SGRAM	£ 40 (47)
ATI Xpert@Work PCI 8MB SGRAM	£ 57 (67)
ATI Xpert'98 AGP 8MB SDRAM	£ 40 (47)
Matrox Productiva PCI 4MB SGRAM	£ 29 (35)
Matrox Productiva PCI 8MB SGRAM	£ 47 (56)
Matrox Mystique 220 PCI 4MB SGRAM	£ 65 (77)
Matrox Millennium II PCI 8MB WRAM	£ 146 (172)
Matrox Millennium G200 AGP 8MB SGRAM	£ 77 (91)
Matrox Rainbow Runner Studio	£ 135 (159)
Diamond 3D II Monster 8MB PCI Accelerator	£ 161 (190)
Diamond 3D II Monster 12MB PCI Accelerator	£ 204 (240)

CPUs/Motherboards



CPUs	
IBM 686MX 233MHz	£ 37 (44)
IBM 686MX 266MHz	£ 53 (63)
IBM 686MX 300MHz	£ 69 (82)
IBM 686MX 333MHz	£ 104 (123)
AMD K6 266MHz	£ 64 (76)
AMD K6 300MHz	£ 79 (93)
AMD K6-2 300MHz	£ 92 (109)
AMD K6-2 333MHz	£ 117 (138)
Pentium II 266MHz	£ 129 (152)
Pentium II 300MHz	£ 174 (205)
Pentium II 333MHz	£ 195 (230)
Pentium II 350MHz	£ 248 (292)
Pentium II 400MHz	£ 401 (472)
Pentium II 450MHz	£ 556 (654)
Motherboards	
PCI AT Pentium TX w/512K Cache (Asus)	£ 62 (73)
PCI AT Pentium TX w/512K Cache (Supermicro)	£ 71 (84)
PCI Pentium II BX (Asus)	£ 83 (98)
PCI Dual Pentium II BX w/SCSI Controller	£ 219 (258)

Hard Disk Drives



20GB EIDE	£ 83 (98)
32GB EIDE	£ 91 (107)
40GB EIDE	£ 102 (120)
52GB EIDE	£ 113 (133)
64GB EIDE	£ 126 (149)
64GB EIDE UDMA (IBM)	£ 140 (165)
8.0GB EIDE UDMA (Seagate)	£ 153 (180)
8.0GB EIDE UDMA (IBM)	£ 184 (217)
4.0GB SCSI	£ 253 (298)
9.0GB SCSI	£ 416 (489)
4.0GB Wide SCSI	£ 270 (318)
9.0GB Wide SCSI	£ 433 (509)

Drive Controllers

Adaptec PCI 2920 SCSI controller	£ 105 (124)
Adaptec PCI 2940 SCSI controller	£ 167 (197)
Adaptec PCI 2940 UW SCSI controller	£ 203 (239)
Adaptec PCI 3940 SCSI controller	£ 300 (353)
Adaptec PCI 3940 UW SCSI controller	£ 342 (402)
Promise VESA 2300plus EIDE controller	£ 33 (39)

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Backup Devices



2GB (4GB compressed) int. DAT Streamer +tape	£ 338 (398)
4GB (8GB compressed) int. DAT Streamer +tape	£ 503 (592)
12GB (24GB compressed) int. DAT Streamer +tape	£ 711 (836)
2GB (4GB compressed) ext. DAT Streamer +tape	£ 418 (492)
4GB (8GB compressed) ext. DAT Streamer +tape	£ 582 (684)
Seagate Tape Stor 8000 (IDE)	£ 192 (226)
Seagate Tape Stor 8000 (SCSI)	£ 218 (257)
IOMEGA 2GB Floppy Tape Streamer + tape	£ 81 (96)
IOMEGA 100MB ZIP+ external ATAPI Drive	£ 150 (177)
IOMEGA 100MB ZIP internal ATAPI Drive	£ 58 (69)
IOMEGA 100MB ZIP Cartridge	£ 8 (10)
IOMEGA 2GB JAZ Internal SCSI Drive	£ 225 (265)
IOMEGA 2GB JAZ Int. SCSI Drive + controller	£ 327 (385)
IOMEGA 2GB JAZ Cartridge	£ 73 (86)

Network Products



ISA 16-bit Ethernet Combo Card	£ 16 (19)
ISA 16-bit 3COM 509 Combo Network Card	£ 55 (65)
PCI 32-bit 3COM 905 Base-T Network Card	£ 47 (56)
PCI 32-bit 3COM 900 Combo Network Card	£ 57 (67)
8-port 10 base-T mini Ethernet Hub	£ 30 (36)
16-port 10 base-T mini Ethernet Hub	£ 102 (120)

TV & Teletext Cards



The Hauppauge WinTV PCI board is a single slot Plug and Play card with a 125-channel TV tuner and video digitiser and Teletext Decoder. Capture pro-quality still or motion video (AVI).	
Hauppauge PCI WinTV Card	£ 64 (76)
Hauppauge PCI WinTV & Radio Card	£ 101 (119)



Monitors



14" CTX SVGA Colour Monitor

Shadow Mask, .28dot,
800x600 @ 72KHz
£ 93 (110)

15" CTX 1569UA Colour Monitor

Trinitron, 25ag,
1024x768 @ 85KHz
£ 162 (191)



17" CTX 1769SE FST SVGA Colour Monitor £ 201 (237)
Shadow Mask, .28dot, 1280x1024 @ 60KHz

17" CTX 1792UA FST SVGA Colour Monitor £ 308 (362)
Trinitron, 25dot, 1600x1200 @ 70KHz

19" CTX 1995UE SVGA Colour Monitor £ 371 (436)
.26dot, 1600x1200 @ 75KHz

19" ADI MicroScan 6P SVGA Colour Monitor £ 371 (436)
FST Tube, .26dot, 1600x1200 @ 75KHz

14" iiyama ProLite Flat Panel LCD Monitor .26dot, 1024x768 @ 79KHz	£ 592 (696)
17" iiyama MT8617ES SVGA Colour Monitor Speakers, FST Tube, .26dot, 1600x1200 @ 69KHz	£ 341 (401)
17" iiyama A701GT SVGA Colour Monitor DiamondTron, .25ag, 1600x1200 @ 72KHz	£ 341 (401)
21" iiyama A102GT SVGA Colour Monitor DiamondTron, .28ag, 1800x1440 @ 75KHz	£ 829 (975)

Fax/Modems



Internal 56.6KBPS VoiceFax/Modem	£ 68 (80)
External 56.6KBPS VoiceFax/Modem	£ 104 (123)
Sportster External 33.6KBPS Flash Fax/Modem	£ 110 (130)
US Robotics External 56.6KBPS Message Plus	£ 150 (177)
Pace ISDN Terminal Adapter	£ 217 (255)

All modems are BART Approved

New Products



ATI All in Wonder Pro

Customers who are looking for the ultimate in multimedia graphics and video capabilities in a single card need look no further than the All in Wonder Pro from ATI. Based on ATI's latest 3D Rage Pro processor and available in both PCI and AGP formats, the All in Wonder Pro offers just about the most comprehensive solution there is for industry-leading 2D acceleration, arcade-quality 3D acceleration, video capture, output to TV and TV Teletext functions.



- Rage Pro powered 2D/3D graphics acceleration
 - Still image and motion video capture
 - Video playback software
 - Intelligent TV Tuner
 - TV set display with "Channel Surf", "Instant Replay", "Zoom" and "Scheduled Viewing"
 - Wide screen display capability
- | | |
|-----------------------------------|-------------|
| ATI All in Wonder Pro PCI/AGP 4MB | £ 101 (119) |
| ATI All in Wonder Pro PCI/AGP 8MB | £ 117 (138) |



Printers



Modems



Memory

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	Exc Vat	Inc Vat
Brother BRO-HL820	159.00	£186.83
BRO-HL1040	215.00	£252.63
BRO-HL1050	239.00	£280.83
BRO-HL1070	299.00	£351.33
BRO-HL1078	329.00	£386.58
BRO-HL166e	£639.00	£750.83

	Exc Vat	Inc Vat
Canon BJC250 Colour	£70.00	£82.25
BJC4300	£91.00	£106.93
BJC4300+Scanner	£121.00	£142.18
BJC80 Colour	£139.00	£163.33
BJC50 Colour	£188.00	£220.90

	Exc Vat	Inc Vat
Epson Stylus 440 Colour	£98.00	£115.15
Stylus 640 Colour	£127.00	£149.23
Stylus 700 Colour	£155.00	£182.13
Stylus 740 Colour	£169.00	£198.58
Stylus Colour 850	£198.00	£232.65
Stylus Photo EX A3	£282.00	£331.35
Stylus Pro 5000 A3	£1,499.00	£1,761.33

	Exc Vat	Inc Vat
Hewlett Packard DeskJet 420 Colour	£66.00	£77.55
DeskJet 670C	£96.00	£112.80
DeskJet 690+Photo Car	£126.00	£148.05
DeskJet 710C+Photore II	£129.00	£151.58
DeskJet 720C	£156.00	£183.30
DeskJet 890C	£202.00	£237.35
D/Jet 895CXI+Photore II	£209.00	£245.58
D/Jet 1120C+Photore II	£285.00	£334.88
D/Jet 2000C C4530A	£450.00	£528.75
OfficeJet 635C	£339.00	£398.33
OfficeJet 1170	£491.00	£576.93
OfficeJet 1175	£614.00	£721.45
LaserJet 6L	£232.00	£272.60
LaserJet 6P	£461.00	£541.68
LaserJet 4000 C4118A	£711.00	£835.43
LaserJet 5000 C4110A	£929.00	£1,091.58
L/Jet 8000 C4085A 16Mb	£1,604.00	£1,884.70
L/Jet 3100 C3948A	£471.00	£553.43

	Exc Vat	Inc Vat
Kyocera FS 600	£218.00	£256.15

Scanners

	Exc Vat	Inc Vat
Epson G15500 SCSI for PC	£153.00	£179.78

	Exc Vat	Inc Vat
Hewlett Packard ScanJet 55 Portable	£134.00	£157.45
ScanJet 5100/C5197A	£144.00	£169.20
S/Jet 6200C Nat Mac Comp	£238.00	£279.65

	Exc Vat	Inc Vat
Novatech PhotoMaker 3F	£39.00	£45.83
PhotoMaker 3E Parallel	£39.00	£45.83
PhotoMaker 6F	£59.00	£69.33
PhotoMaker 6E Parallel	£59.00	£69.33

Hard Drives

	Exc Vat	Inc Vat
Fujitsu 3021AT-UDMA 2.1Gb 11ms	£70.00	£82.25
3043AT-UD 4.3Gb 11ms	£86.00	£101.05
3064AT-UD 6.4Gb 11ms	£106.00	£124.55

	Exc Vat	Inc Vat
Quantum SE2160 EIDE 2.1Gb	£71.00	£83.43
SE3240 UDMA 3.2Gb	£79.00	£92.83
SE4300 UDMA 4.3Gb	£90.00	£105.75
QM36400SE/A 6.4Gb	£112.00	£131.60
QM38400SE/A 8.4Gb	£154.00	£180.95

	Exc Vat	Inc Vat
Seagate ST32122A 2.0Gb EIDE	£66.00	£77.55
ST33232A 3.2Gb UDMA	£73.00	£85.78
ST34321A 4.3Gb 11ms Ultra	£84.00	£98.70

	Exc Vat	Inc Vat
Western Digital AC33200A 3.2Gb UDMA	£82.00	£96.35
AC34300 4.3Gb UDMA	£90.00	£105.75
AC36400 6.4Gb UDMA	£112.00	£131.60

Modems

	Exc Vat	Inc Vat
Hayes Accura 56k Internal	£78.00	£91.65
Accura 56K External	£85.00	£99.88

	Exc Vat	Inc Vat
Novatech Novatech 33.6 Internal	£29.00	£34.08
Novatech 33.6 External	£34.00	£39.95
Novatech 56K Internal	£39.00	£45.83
Novatech 56K External	£49.00	£57.58

	Exc Vat	Inc Vat
3Com Voice/Fax 56k V90 Ext	£85.00	£99.88
Message Plus 56k V90 Ext	£125.00	£146.88
V90 56k PCMCIA Mhertz	£129.00	£151.58
Professional Mess. x2 Ext	£139.00	£163.33

Monitors

	Exc Vat	Inc Vat
ADI Provista E33 14"	£89.00	£104.58
Provista E44 15"	£99.00	£116.33
Microscan 4P 15"	£115.00	£135.13

	Exc Vat	Inc Vat
CTX 1792UA 17"	£311.00	£365.43

	Exc Vat	Inc Vat
Iiyama VisionMaster Pro 400 17"	£305.00	£358.38

	Exc Vat	Inc Vat
Novatech 14" 0.28mm DP Digital	£79.00	£92.83
15" 0.28mm DP	£99.00	£116.33
17" 0.28mm DP	£169.00	£198.58
17" .26dp 1600*1200	£257.00	£301.98

Networking

	Exc Vat	Inc Vat
Kingston ISA Ether Combo 20BT	£17.50	£21.15
PCI Fast Ethernet Card	£27.00	£31.73

	Exc Vat	Inc Vat
Dlink ISA DE-220PCT RJ45 BNC	£14.00	£16.45
530CT Combo PCI	£19.00	£22.33

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Graphics Cards

Brand	Exc Vat	Inc Vat
Creative Labs 3D Blast. Voodoo 2 8Mb	£124.00	£145.70
3D Blast. Voodoo 2 12Mb	£144.00	£169.20
Hauptpage Win TV PCI NICAM	£67.00	£78.73
Win TV Radio	£84.00	£98.70
Novatech PCI S3 3D DX Mpeg 2Mb	£19.00	£22.33
PCI S3 3D DX Mpeg 4Mb	£29.00	£34.08
S3 3D DX 4Mb AGP	£35.00	£41.13
Intel 740i 8Mb AGP	£49.00	£57.58

Processors

Brand	Exc Vat	Inc Vat
AMD K6 266	£59.00	£69.33
K6 300	£69.00	£81.08
K62 300	£99.00	£116.33
IDT WinChip 200Mhz	£29.00	£34.08
WinChip 225Mhz	£34.00	£39.95
WinChip 240Mhz	£39.00	£45.83
Intel Pentium II 333Mhz	£139.00	£163.33
Pentium II 350Mhz	£179.00	£210.33
Pentium II 400Mhz	£319.00	£374.83
Pentium II 450Mhz	£499.00	£586.33

Novatech Notebook
Following the huge success of our PCs, Novatech are pleased to announce the arrival of our first notebook. With a larger TFT Screen, permanent CD and floppy drives and a carry case included - it still costs less!

FROM £849 +VAT
(£997.58 inc vat)

14 day money back

SoundCards/Speakers

Brand	Exc Vat	Inc Vat
Creative Labs SB 16 Value Non IDE	£27.00	£31.73
AWE 64 Value	£55.00	£64.63
AWE 64 Gold	£88.00	£103.40
5W(RMS) Speak/Channel	£15.00	£17.63
Novatech 60W Speakers	£17.00	£19.98
16 Bit PNP Sound Card	£19.00	£22.33
300W Speakers+Sub Woof	£35.00	£41.13
3D Interactive PCI S/Card	£39.00	£45.83

Memory

Brand	Exc Vat	Inc Vat
30 Pin 4Mb 30 pin Simm	£8.00	£9.40
72 Pin Non Parity 8Mb Simm	£8.00	£9.40
16Mb Simm	£15.00	£17.63
32Mb Simm	£28.00	£32.90
72 Pin EDO 8Mb Simm	£7.00	£8.23
16Mb Simm	£12.00	£14.10
32Mb Simm	£23.00	£27.03
72 Pin Parity 8Mb Simm	£14.00	£16.45
16Mb Simm	£19.00	£22.33
32Mb Simm	£38.00	£44.65

Novatech 9600dpi 30 bit Flatbed Scanner
The Novatech Photomaker Parallel Interface Scanner - compact and high performance and so easy to use - simply plug in and off you go! Software includes: Twain Scanner Driver, IPhoto Plus 4 and Textbridge Classic.

UNBEATABLE AT £39 +VAT
(£45.83 inc vat)

14 day money back

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Brand	Exc Vat	Inc Vat
Omega Zip Internal IDE	£58.00	£68.15
ZIP Drive Parallel + 1 Disk	£69.00	£81.08
Zip Drive SCSI External	£69.00	£81.08
Zip 100Mb Disk	£9.00	£10.58
Syquest Sparq 1.0Gb Int IDE	£111.00	£130.43
Sparq 1.0Gb Ext Parallel	£113.00	£132.78
Sparq 1Gb Cartr	£19.00	£22.33

Novatech Win-Chip PC
Check out the new IDT Win-Chip Processors. Fully compatible with existing MMX technology, these low cost processors have been fitted to our existing, high quality, budget priced range to provide you with even MORE value for money at our lowest ever price.

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Intuit Quicken 98 Deluxe	£34.00	£39.95
Microsoft Win 98 Plus	£26.00	£30.55
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Encarta 98 Deluxe	£51.00	£59.93
Encarta 98 Ref. Suite	£79.00	£92.83
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High speed connections at low prices, the Novatech External Modem is V90 Compatible with line data rate 56K

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- Caller Line Identification* / 50 Page Memory
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BROTHER FAX 920	(INK FILM)	-NEW £189	£255
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BROTHER FAX 930	TAM (INK FILM)	-NEW £219	£289
BROTHER FAX 1020	(INK FILM)	£239	£305
BROTHER FAX 8000P	(LASER)	£459	£554
BROTHER FAX 8250P	(LASER)	-NEW £429	£524
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PANASONIC KX-F1830E	Ansafax (INK FILM)	-NEW £269	
PANASONIC UF-332	(INKJET)	£385	
PANASONIC UF-342	Colour (INKJET)	£739	£639
PANASONIC UF-344	Colour (INKJET)	£1029	£929
PANASONIC UF-550	(LASER)	£705	£579
PANASONIC UF-560	(LASER)	£764	£639
PANASONIC UF-770	(LASER)	£1085	£959
PANASONIC UF-880	(LASER)	£1173	£1045

CANON L300 £679

NEW ERA IN COMMUNICATION

- 6 Seconds Transmission Speed • Scanning Speed
- 20 One Touch Destinations
- 100 Coded Speed Dialling Destinations
- 42 Pages Standard/138 Pages Optional Document Memory
- 30 Sheets Automatic Document Feed
- 250 Sheets Standard Paper Capacity
- Full Dual Access • 64 Grey Scales Halftones
- Automatic Fax / Telephone Switch

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		1yr OSM	NoWAR
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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	£495
CANON FAX L90	The Coporate Communicator (LASER)	£779	£689
CANON FAX L800	The Coporate Communicator (LASER)	£1325	£1049
OSM (On Site Maintenance)			
RICOH FAX 680MP	(INKJET)	£329	
RICOH FAX 880MP	(INKJET)	£469	

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FAX & TEL with ANSWERING

- Space Saving Design • 50M Roll Capacity
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- Three Personal Voice Mailboxes
- 64 Level Halftones with Digital Image Processing
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- Voice Time/Day Stamp • Automatic Paper Cutter



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		1yr OSM
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SHARP UX-178	(THERMAL)	-NEW £115
SHARP UX-258	TAM (THERMAL)	-NEW £155
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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



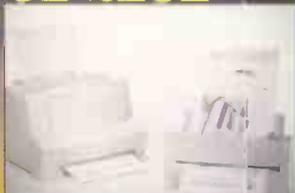
HP DESKJET 400L	(INKJET)	£68
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HP DESKJET 720C	(INKJET)	£156
HP DESKJET 1100C	(A3)	£252
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HP DESKJET 1600CM	POSTSCRIPT (INKJET)	£1299

HP LASERJET 6L £232

AFFORDABLE LASER PRINTER

- 6ppm Engine
- First Page Print in 18 Seconds - no warm up time
- True 600x600dpi RET and microfine toner
- Prints on paper, envelopes, labels, post cards and transparencies

26 Intellifont scalable typefaces built in	
1 Mb Standard, effectively doubled with MET	
3 Years on Site	£77
HP Laserjet 6L Toner (C3906A)	£36



HP LASERJET COMPANION	(COMPANION)	£79
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HP LASERJET 5000N	A3 (LASER)	-NEW £1334
HP LASERJET 5000GN	A3 (LASER)	-NEW £1649
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HP LASERJET 8000DN	(LASER)	-NEW £2099

HP DESKJET 890C £202

PREMIUM PRINTING HIGH PERFORMANCE

- 600 x 600dpi black and 600 x 600dpi colour
- Prints up to 9 ppm black and 5 ppm colour
- MMX compatible
- HP Photo RET II, ColourSmart II and Kodak Image Enhancements

3 Years on Site	£66
HP Black Cartridge 51645A	£17
HP Colour Cartridge C1823A	£21



HP PHOTOSMART DIGITAL CAMERA	(DIGITAL CAMERA)	£209
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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
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HP Laserjet 6P Toner (C3903A)	£46



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WE STOCK FULL RANGE OF INKJET & LASER PRINTER SUPPLIES FOR BROTHER, CANON, HP, KODAK, LEXMARK, MT, OLIVETTI, XEROX ETC.

HP DESKJET 1120C £285

VERSATILE WIDE FORMAT BUSINESS PRINTER

- A3 Capability, prints on media up to 0.3mm thick
- HP ZoomSmart scaling technology
- 600 x 600dpi black and 600 x 600dpi colour
- Prints up to 6.5 ppm black and 4 ppm colour (A4)
- Windows NT 4.0 Drivers-in-box

3 Years on Site	£96
HP Black Cartridge 51645A	£17
HP Colour Cartridge C1823A	£21



HP LASERJET 4000 £710

OFFICE STANDARD PRINTER

- Fast 16ppm print speed • PCL6 printer language
- 1200dpi with RET and microfine toner
- HP JetAdmin printer management software

HP Laserjet 4000T	£787
HP Laserjet 4000N	£914
HP Laserjet 4000TN	£999
3 Years on Site	£180
HP 4000 Standard Toner (27A)	£59
HP 4000 High/Cap Toner (27X)	£85



LASER PRINTER • TONERS • DRUMS • PHOTOCONDUCTORS • DEVELOPERS • FUSERS

*Photoconductor Unit / **Fuser Units	TONER DRUM	*Photoconductor Unit / **Fuser Units	TONER DRUM	*Photoconductor Unit / **Fuser Units	TONER DRUM
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Apple Personal Laserwriter 300/320 (M2045G/A).....	£58	HP Laserjet 4L / 4ML / 4P / 4MP (92274A).....	£39 **£179	Nec Silentwriter S60P/S62P/S102P.....	£119
Brother HL630/660/FAX5000P/6000 (TN/DR100).....	£19 £89	HP Laserjet 5L/6L (C3906A).....	£36	Nec SuperScript SS610.....	£84
Brother HL730/760/FAX8000P/9000 (TN/DR200).....	£18 £95	HP Laserjet 5P / 5MP / 6P / 6MP (C3903A).....	£45	Okidata Okpage 4W (5089/5096).....	£18 £85
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Brother HL2400 Colour Laser (TN01 BLACK).....	£86 C/M£69	HP Laserjet IIiSi / 4Si (92291A).....	£62 **£269	Olivetti PG306/308/404/408 (923762/82377/82505).....	£24 £99
Canon LBP 360PS Colour Laser (EPH-BLACK).....	£59 C/M£69	HP Laserjet 4V / 4MV (C3900A).....	£79	Panasonic KXP4400/4401/5400 (KXP455/PDM6).....	£10 £55
Canon CLP2460 (EPW).....	£109	HP Laserjet 5Si (C3909A).....	£95	Panasonic KXP4420 (KXP451/PDM2).....	£25 £57
DataProducts LZR 650/900/960/965 (S051011).....	£32 £99	HP Laserjet 4000 Series Standard (C4127A).....	£59	Panasonic KXP4410/4430/4440 (KXP453/PDM5).....	£24 £75
Epson GQ3500/GQ5000 (7670/5793).....	£16 £119	HP Laserjet 4000 Series High Cap. (C4127X).....	£85	Panasonic KXP4450/4451/4455 (KXP450/PDM1).....	£20 £75
Epson EPL3000 (S051020).....	£73	HP Laserjet 5000 Series High Cap. (C4129X).....	£109	Panasonic KXP6100/6150 (KXP457/PEP3).....	£12 £105
Epson EPL4000/4100/4300 (S051002/51005).....	£85 *£119	HP Color Laserjet 5 Black Toner (C3105A).....	£6	Panasonic KXP6300/6500 (KXP459/PEP5).....	£12 £115
Epson EPL5000/5100/5200 (S051011).....	£92	HP Color Laserjet 5 Cyan/Yellow/Magenta (C3102/3/4A).....	£26	Panasonic KXP7200 (PEP6).....	£145
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Epson EPL5700 (S051010/51055).....	£58 *£40	IBM Lexmark Optra N (High Yield-1382140).....	£145	Sharp JX9400/9460/9600/9660 (JX94TC/DR).....	£69 £79
Epson EPL7100/7500/8000/8100 (S051009).....	£131	Kodak Ektaplus 7008.....	£20 £89	Sharp JX9500 (JX95TC/95DF).....	£32 *£89
Epson EPL9000 / 9100 (S051022).....	£149	Kodak Ektaplus 7016.....	£89 *£65	Star WinType 4000 EPX-B (ST87339/340).....	£68
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Black	Colour
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Canon BJ130 (BJ1481).....	£11
Canon BJ300/330 (BJ1642).....	£9
Canon BJ10E/EX/20 (BC01).....	£13
Canon BJ200/E/X/230 (BC02).....	£13
Canon 210/240/250 (BC0205).....	£13 £17
Canon 240/250 Photo Cart. (S051011).....	£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
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Canon BJC4000 TANKS (BC12).....	£5 £13
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Canon 42/4300/45/4650 Fluorescent (BC29F).....	£21
Canon BJC7000 (BC06/61).....	£22 £24
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Canon BJC7000 (BC62).....	£33

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Black	Colour
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Stylus Pro XL+ (S020034/66).....	£10 £20
Stylus Photo (S020093/20110).....	£14 £18
Stylus 200 (S020047/97).....	£13 £18
Stylus 300 (4 Colour Cart.) (S020138).....	£15
Stylus 500 (S020093/97).....	£14 £18
Stylus 400/600 (S020093/86).....	£14 £14
Stylus 800/1520 (S020108/20089).....	£14 £14
Stylus Col. II/IS/820 (S020047/94).....	£13 £18
Stylus 1500 (S020062/49).....	£32 £18
Stylus 3000 (S020118/22/C20/M26).....	£34 £38
Stylus 5000 (S020118/22/C47/M43).....	£34 £38

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

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HP D/Jet 690 Photo Cart. (C1816A).....	£23
HP D/Jet 690 Photo Kit (C4584A).....	£28
HP 800Series/1100C (51645/41).....	£17 £18
HP 720/890/1120C (51645/C1823A).....	£17 £21
HP Deskjet 1600 (51645/40C/Y/M).....	£17 £19
HP Deskjet 1200 (51640A/40C/Y/M).....	£18 £19
HP PhotoSmart Printer (C3844/45A).....	£26
HP P/Jet XL300 (51639A/39C/Y/M).....	£15 £17

OTHER SUPPLIES

Apple Stylewriter I/II (APM8041G).....	£14
Brother HJ100/400 (BRIN10).....	£21
Brother HJ770 (BRIN20).....	£16
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Kodak Diconix 150/180/330C.....	£10 £15
Lexmark Winwriter150 (1380620/19).....	£21 £25
Lexmark PS4079 (1380490/C12/Y3/M).....	£15 £20
Lexmark 1020/2030 (1380620/19).....	£21 £25
Lexmark 2050/2070 (1382050/60).....	£24 £26
Lexmark 5000/7000 (12A1970/80).....	£19 C/M/Y
Olivetti JP50/70/90.....	£24
Olivetti JP50/70/90Head+3Refills.....	£28
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CANON INKJET MEDIA

A4	A3
Coated Paper (200) (LC101).....	£20 £35
DoubleSidedCoated (200) (LC301).....	£12 £25
High Resolution (200/100) (HR101).....	£17 £21
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High Gloss Film (20) (HG201).....	£16 £36
High Gloss Photo Film (10) (HG201).....	£14
Iron-on-Transfer (A4-10/A3-5) (TR201).....	£12 £12
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EPSON INKJET PAPER MEDIA

Photo Paper 4"x6" (20) (S041134).....	£5
A6 Photo Inkjet Card (50) (S041054).....	£6
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A4 Photo Glossy (20) (S041126).....	£6
A4 Photo Paper (20) (S041140).....	£8
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A4 Iron on Transfer (10) (SE41001).....	£11
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A3 Glossy (10) (S041073).....	£36
A3 Photo Glossy (20) (S041125).....	£16
A3 Photo Paper (20) (S041142).....	£19
A4 720/1440 Dpi (100) (S041068).....	£25
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Super A3 720/1440 Dpi (100) (S041069).....	£27
Super A3 360 Dpi (100) (S041066).....	£20
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A3+ Photo Paper (20) (S041143).....	£23
A2 Photo Glossy (20) (S041123).....	£32
A2 720/1440 Dpi (30) (S041079).....	£22
A2 360 Dpi (30) (S041078).....	£17
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HP A4 INKJET PAPER MEDIA

HP Premium Inkjet Paper (200) (51634Z).....	£12
HP Premium GlossyPaper (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
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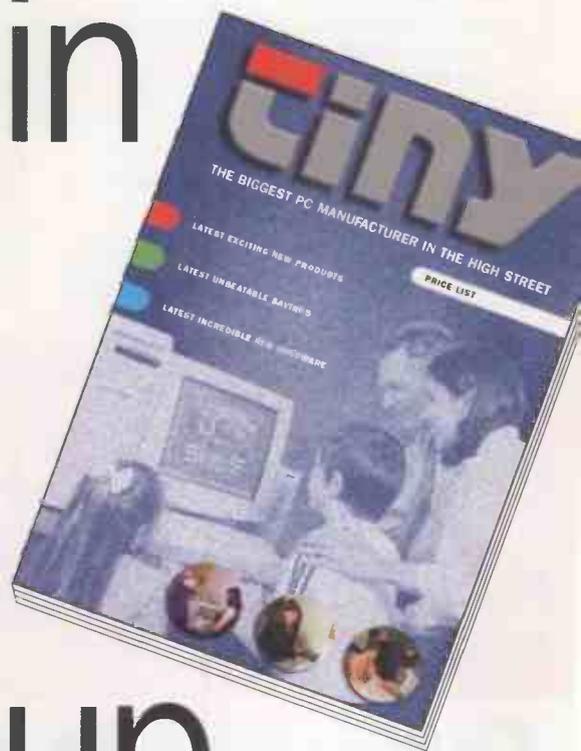
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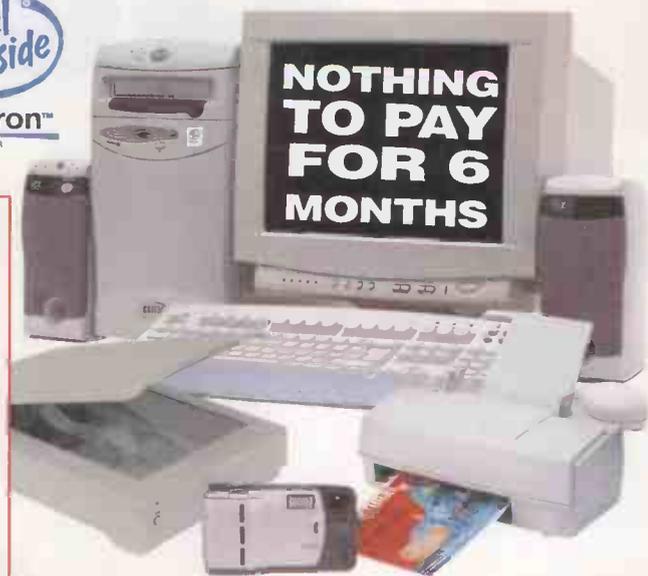
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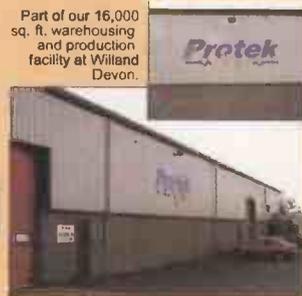
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MODEL	PRICE
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8 Speed	£149
10 Speed	£204
D-Link 660 CT Ethernet Combo	£49
Game Card Joystick	£45
Actiontec SCSI	£89
APEX Data 33.6 Fax/Data modem	£89
APEX Data 56.6 fax/Data modem	£129
Option 56.6 Fax/Data modem	£139
Socket Serial Card	£129
Greycell V.34 + Ethernet	£159

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CTX EZSHOW



ONLY 4.5Kg

The 4 data & video projectors in the CTX range only weigh 4.5Kg, offering the simplest solution for the travelling executive and mobile presenter. They project at a brightness of 350-550 ANSI lumens for 'Lights Oh' presentations producing a 2 metre image at 2 metres distance. CTX EzShow projectors provide great resolutions & high definition images. The units will arrive 'ready-to-go' with hard carry case and a fully featured remote control.

MODEL	PRICE
CTX EzShow 500 (640x480) 350ANSI 4.5Kg	£1035
CTX EzShow 550 (800x600) 350ANSI 4.5Kg	£1365
CTX EzShow 500M (800x600) 350ANSI 4.5Kg	£1695
CTX EzShow 700 (800x600) 550ANSI 5.5Kg	£2945

CTX 600



200:1 Contrast Ratio

CTX have now released this high brightness 550 ANSI lumens data projector. Being very lightweight (12lbs) is supplied with a carry case and 2 year RTB warranty. 800x600 resolution it is the excellent companion for the brightest of mobile presentations.

MODEL	PRICE
CTX 600 800x600) 550ANSI 5.4Kg	£2325
CTX 680 (1024x768) 550ANSI 5.4Kg	£3285

INFOCUS 720

The Infocus 720 is very portable at only 5kg. It has all the features for the future with 500 ANSI Lumens and true 800x600 resolution and the facility to compress to 1024x768 resolution. July 97 Editor's Choice PC Magazine.



MODEL	PRICE
INFOCUS 720 (800x600) 500ANSI 5Kg	£3495
INFOCUS 730 (1024x768) 500ANSI 5Kg	£3995
INFOCUS 725 (800x600) 750ANSI 5.4Kg	£3795

INFOCUS 420

Lightweight at only 3.1Kg offering no compromise. 500 ANSI lumens and 800x600 resolution, it cannot be matched for portability and brightness and still capable of running at 1024x768 resolution (intelligently compressed)



ONLY 3.1Kg

MODEL	PRICE
INFOCUS 425 (800x600) 500ANSI 3.1Kg	£3195
INFOCUS 1280 (1280x1024)	£13,995

PROXIMA DS1

The Proxima DS1 brings high brightness, 600 ANSI lumens, only 4.8Kg and 800x600 resolution, 16.7 million colours with the added benefit of a power zoom and Proxima's laser FX remote



NEW

MODEL	PRICE
DS1 (800x600) 600ANSI 4.8Kg	£2895

HITACHI CPL850



650 ANSI

The CPL850 (800x600 resolution) and CPL950 video data projectors have stunning brightness at 650 ANSI lumens, they are incredible in bright rooms. With Polysilicon technology, both projectors will astound and add to every corporate presentation and training session. The other unique feature about these models is that they include 2 video and 2 VGA outputs.

MODEL	PRICE
CPL 850 (800x600) 650ANSI 7.5Kg	£2475
CPL 950 (1024x768) 650ANSI 7.5Kg	£3375

EPSON



1200 ANSI

Epson offer a complete range of quality projectors - the new EMP5100 has an amazing brightness of 750 ANSI Lumens and can compress to 1024x768. The EMP7100 has true 1024 x 768 resolution providing high quality images at 650 ANSI lumens.

MODEL	PRICE
EMP 7300 (800x600) 1200ANSI	£7145
EMP5100 (800x600) 650ANSI	£3385
EMP7100 (1024x768) 500ANSI	£4345

PICO PROJECTOR



With FREE 10MB Flash Card, this 500 ANSI Lumens, 5.5Kg, 800x600 resolution projector requires no computer for presentations! With 2000 hour lamp life it is the ultimate light-weight presentation solution delivered by PICO Direct.

MODEL	PRICE
PICO PROJECTOR (800x600) 500ANSI	£2495

NEC MT 820/1020

The NEC MT820 and MT1020 LCD projectors provide highly portable display solutions, sophisticated images and customizable controls, with high brightness.



200:1 Contrast Ratio

MODEL	PRICE
MT 820 (800x600) 750ANSI 7Kg	£3245
MT 1020 (1024x768) 650ANSI 7Kg	£4245
LT80 (800x600) 600ANSI 4.5Kg	£3045

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for projectors starting from £75.00 per day

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ASK A4+ & A6+

ASK have just upgraded the ASK A4 and A6 to the A4+ and A6+, continuing in their mission to produce the brightest and lightest projectors. The projectors now come with a massive 700 ANSI Lumens of power light and still have an incredibly high contrast ratio of 300:1 leaving your audience with a lasting impression. The ASK A4+ and A6+ include a power zoom, PC mouse control, reveal functions, 4 high output speakers and smooth video play.



300:1 Contrast Ratio

ONLY 5Kg

MODEL	PRICE
ASK A4+ (800x600) 700ANSI 5Kg	£3295
ASK A6+ (1024x768) 700ANSI 5Kg	£4295
ASK 1280 (1280x1024) 350 ANSI 5Kg	£7595
ASKA10	£7195

PROXIMA

The new Proxima 5800, 5900 and 9200 video and data projectors (6.4Kg) combine polysilicon technology with SVGA (800x600) resolution and 700 ANSI lumens to produce razor sharp images in well lit rooms. The 5800 comes with a motorised zoom lens giving you the flexibility to place it at almost any distance in the room. The Proxima models come with a 2000 hours lamp life.

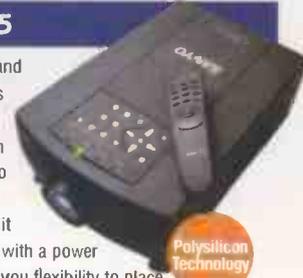


Polysilicon Technology

MODEL	PRICE
PROXIMA 9200 (1024x768) 500ANSI	£3995
PROXIMA 5800 (800x600) 650 ANSI	£3095
PROXIMA 5900 (800x600) 700ANSI	£3095

SANYO 5605

The Sanyo 5605 video and data projector combines polysilicon technology with 800x600 resolution and 700 ANSI lumens to produce razor sharp, brilliant images in well-lit rooms. The unit comes with a power focus zoom lens giving you flexibility to place it at any distance in the room.



Polysilicon Technology

MODEL	PRICE
SANYO 8805 (1024x768) 500ANSI	£4095
SANTO 5605 (800x600) 700ANSI	£3245

OTHERS

MODEL	PRICE
HITACHI CPS 830 (800x600) 500ANSI 4.2Kg	£2195
DAVIS 450	£2045
DAVIS 650	£3525
DAVIS 1200	£6345

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ERICSSON MC12 & MC16



MC12

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- 2MB Compact Flash
- 640x240 display
- Touch screen
- Unique 'My Ericsson Phone' software
- Built-in software modem
- CE2
- Includes leather carry case

SPECIAL OFFER MC12 £189

MC16

- 8MB RAM
- 640x240 display
- Touch screen
- Unique 'My Ericsson Phone' software
- Built-in software modem
- CE2
- Includes leather carry case

MODEL	PRICE
MC16	£449



SHARP HC4000 & HC-4500A with windows CE (V.2)

Sharp's unique image editor allows you to draw and edit image files as well as capture images from the internet or with the optional digital camera card.



SPECIAL OFFER HC-4000A Mono £189

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- 640x240 touch screen LCD
- Colour VGA screen
- Image editor. Create/edit images.
- Voice recorder
- Multimedia E-mail
- Seamless connectivity
- PC Card slot Type II
- CE Windows Version 2
- Optional docking station

MODEL	PRICE
HC-4500A Colour Screen	£559
HC-4000A Mono Screen	£189
Digital Camera	£275

HP COLOUR 620LX with windows CE (V.2)

Built on the features of the HP 360LX. A bright, 256-colour display delivers unmatched readability. The optional VGA-out PC card lets you give full colour PowerPoint presentations using any standard VGA monitor or projector. With instant voice recording you can document ideas. Complete with Word, Excel and other CE applications.

- 640x240 LCD, 256 colours, Backlit, Auto dimming
- 16MB RAM, 75Mhz CPU
- 1 x PC Card Type II, Compact Flash
- Dimensions 7.8 x 4.1 x 1.4"
- Lithium-ion rechargeable battery pack
- 1 x RS232C, 1 x IrDA. Includes Word, PowerPoint, Excel, Internet Explorer, bFAX Pro



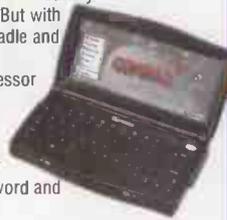
620LX 16MB FLASH £639

MODEL	PRICE
620LX	£479
360LX	£339

Optional VGA Card £89 • Compact Flash PC Card Reader £79 • Leather Case £49 • 3 Year Warranty £66 • Chess £49

COMPAQ C-SERIES with windows CE (V.2)

- C-Series 810; 8MB, 16MB ROM, 33.6Kbps soft modem, 640x240 resolution mono display, AC Adaptor
- C-Series 810C; Same as 810 but with 256 colour full time back light display, rechargeable NiMH battery
- C-Series 2010C; Same as 810C But with 20MB RAM and convenience cradle and desk stylus bundle in.
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- Type II PC Card slot
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MODEL	PRICE
810	£359
810C	£429
2010C	£489

4 MB memory expansion £24 • 16Mb memory expansion £75 Ask for ATA Flash Prices

CASSIOPEIA E-10

The Cassiopeia enables you to carry all your Personal Information Management (PIM) data; contact, schedules, and tasks wherever you are. The ActiveSync technology will automatically update the information when connected to your desktop PC. The E-10 allows you to stay in touch away from your desktop PC through both sending and receiving e-mail messages.



- MS Windows CE V.2.1
- Monochrome FSTN screen
- EL backlit screen
- 4MB RAM
- RS232C serial port
- Weight: 156g
- Optional Compact Flash card
- Weight: 156g
- E-mail, voice recorder, contacts, tasks and schedules

MODEL	PRICE
CASSIOPEIA	£249

3COM PALM PILOT (not CE)

Stores thousands of addresses, phone and fax numbers, hundreds of To-Do lists and personal notes and dozens of e-mail messages. The backlit screen lets you see it all easily.

- Seamless synchronisation with a desktop
- Find information instantly
- Long battery life
- Intuitive easy-to-use interface with accurate pen recognition
- Optional SnapOn GSM adaptor enables you to update your schedule, access your e-mail and synchronise all your data wherever you are

MODEL	PRICE
Professional	£159
Personal	£109
PalmPilotIII	£229
IBM WorkPad with Lotus Notes	£234

Slim Leather Case £17 • Delux Leather Case £49 • GSM Modem £99 • PSTN Modem £79



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- Software development for handheld corporate applications
- Independent advice

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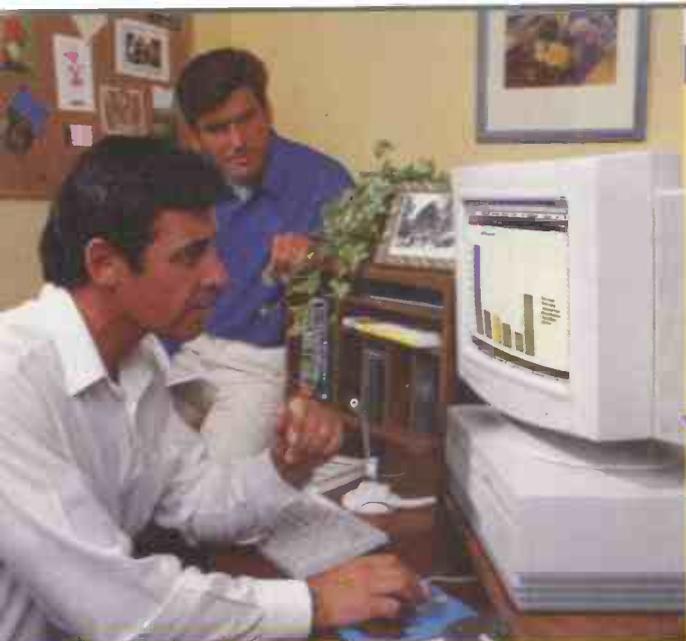
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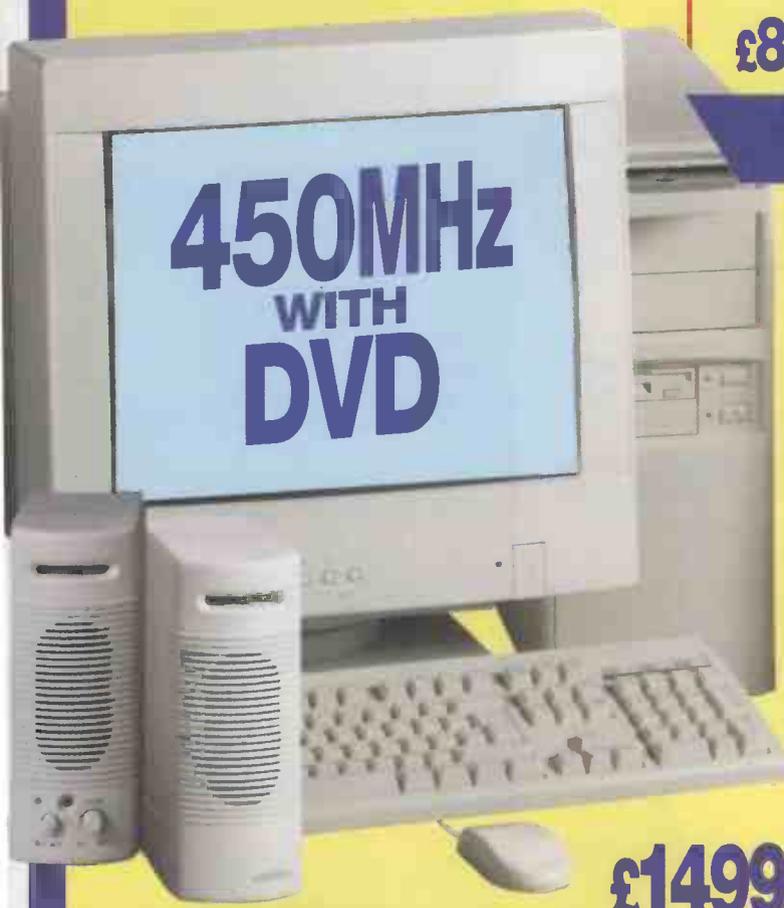
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- Plus choose seven other top software titles[▲]

MODEL: Presario 2255

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- 64Mb Memory
- 6.0Gb Hard Disk
- 4Mb Video Memory
- 32 x CD-ROM
- 56K Modem
- 15" SGVA colour Monitor
- Dolby Digital Surround Sound
- High performance JBL Pro Speakers
- Compaq Easy Access Internet Keyboard
- Windows '98
- Quality Software bundle[▼]
- Plus choose seven other top software titles[▲]

MODEL: Presario 5150

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COMPAQ

AMD-K6 2 333MHz PROCESSOR

- 48Mb SDRAM Memory
- 4.0Gb Hard Disk
- 4Mb Video Memory
- 32 x CD-ROM • 56K Modem
- 15" SGVA colour Monitor
- Dolby Digital Surround Sound
- High performance JBL Pro Speakers
- Compaq Easy Access Internet Keyboard
- Windows '98
- Quality Software bundle[▼]
- Plus choose seven other top software titles[▲]

MODEL: Presario 5060

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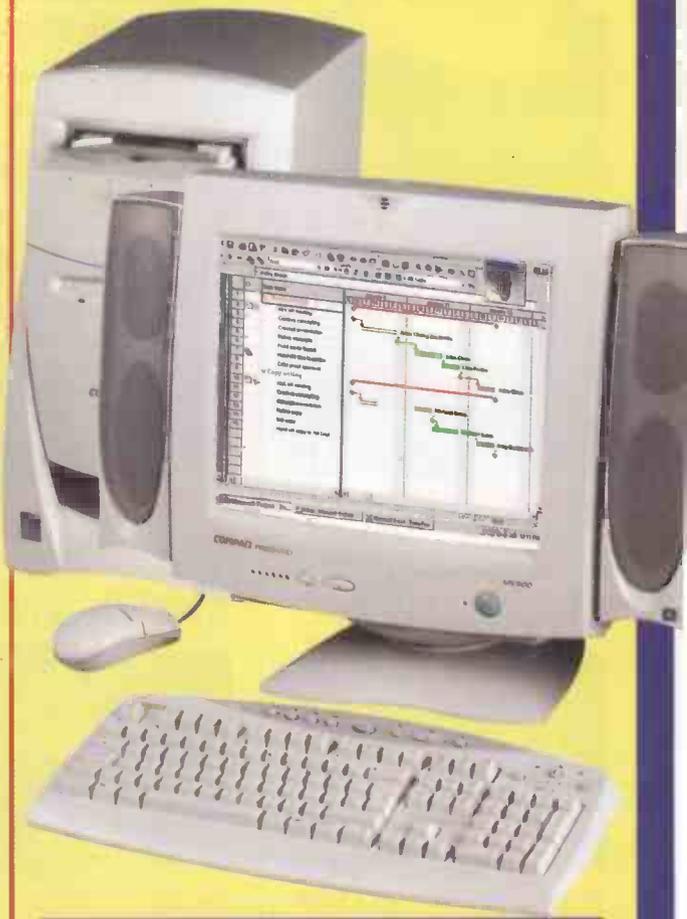
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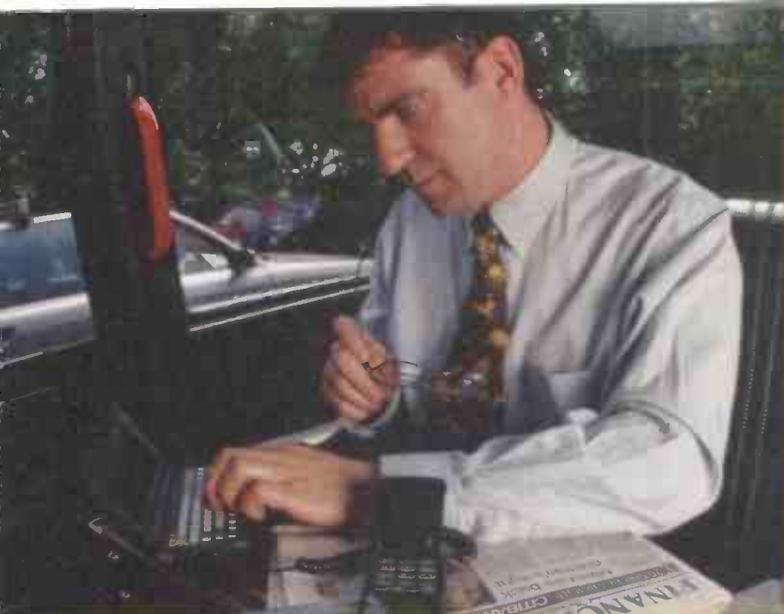
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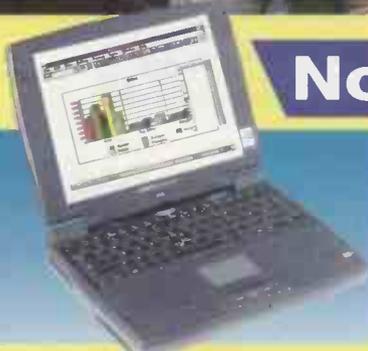
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- HP Intelligent Scanning Technology

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 - 360 x 360 dpi (colour)
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- Hewlett Packard DJ690c**
- Colour Inkjet printer
 - 600 x 300 dpi
 - 5 pages per minute (black)
 - 1.7 pages per minute (colour)

£115 EX. VAT
£135.13 INC. VAT + DEL.



- Epson Stylus 700**
- Colour Inkjet printer
 - 1440 x 720 dpi
 - 3.5 pages per minute
 - Photo quality printing

£170 EX. VAT
£199.75 INC. VAT + DEL.



- Canon BJC4300**
- Colour Bubblejet printer
 - 720 x 360 dpi (black & colour)
 - Up to 4.5 pages per minute (black)
 - Up to 2.5 pages (colour)

£85 EX. VAT
£99.88 INC. VAT + DEL.



- Epson Stylus 640**
- Colour Inkjet printer
 - 1440 x 720 dpi
 - 5 pages per minute (black)
 - 3.5 pages per minute (colour)

£135 EX. VAT
£158.63 INC. VAT + DEL.



- Hewlett Packard 6L**
- Laser printer
 - HP Resolution Enhancement technology
 - 600 x 600 dpi resolution
 - 6 pages per minute
 - Micro fine toner

£229 EX. VAT
£269.08 INC. VAT + DEL.



- Epson Stylus 440**
- Colour Inkjet printer
 - 720 x 720 dpi
 - 4 pages per minute (black)
 - 2.5 pages per minute (colour)

£115 EX. VAT
£135.13 INC. VAT + DEL.



- Hewlett Packard DJ720**
- Colour inkjet printer
 - HP Photo Resolution Enhancement technology II
 - 600 x 600 dpi (mono)
 - 8 pages per minute black
 - 4 pages per minute colour

£149 EX. VAT
£175.08 INC. VAT + DEL.



- Hewlett Packard OJ635**
- All-in-one colour printer, colour copier and scanner with plain paper fax
 - 600 x 600 dpi (black)
 - 600 x 300 dpi (colour)
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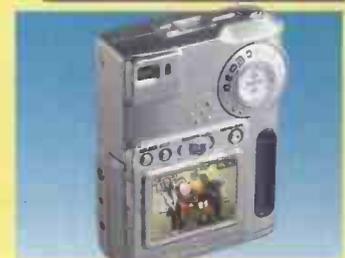


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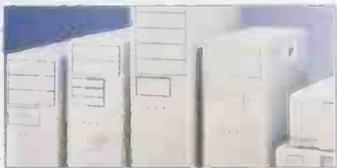
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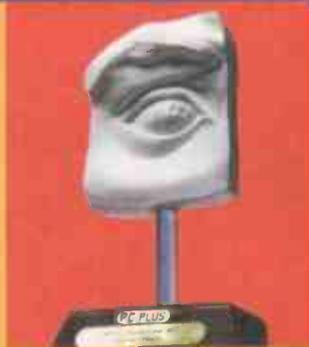
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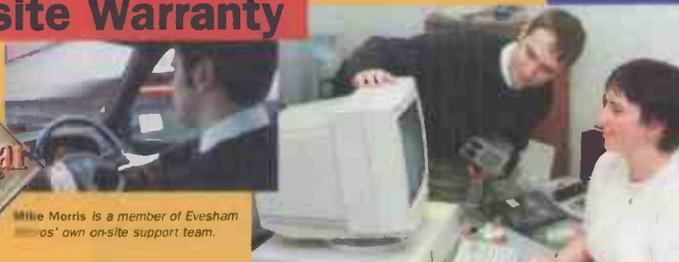
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"As usual, excellent - decisive, expert support gets my business every time. Showroom pre-sales always objective and informed." I. C., Cheltenham

"I have found your helpline and on-site maintenance to be of the highest standard." G. B., Flitwick

"An excellent, no quibble, fast service. Thank you." G. D., Bristol

"Very prompt and helpful service" C.F. Shpiston on Stour

At Evesham Micros we understand it isn't enough to just build an award winning PC range like EveshamVale, we must have the right people to support it. We believe in taking care of our customers, from friendly sales advice to unrivalled technical support.

Our EveshamVale technical department is manned by friendly & knowledgeable staff, who have a full history and build schedule of each individual PC. You can now reach them via a Freephone number, Monday to Saturday.

PC PRO "Evesham showed how customer service should be done"

Evesham FINANCE

Evesham Finance is a facility specifically set up to meet the needs of business customers, offering a comprehensive range of finance facilities to meet the needs of the most demanding clients. To find out more see page 12/13 or call now on:

0800 496 0600



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. 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. EAGE

TAXAN TC095 monitors

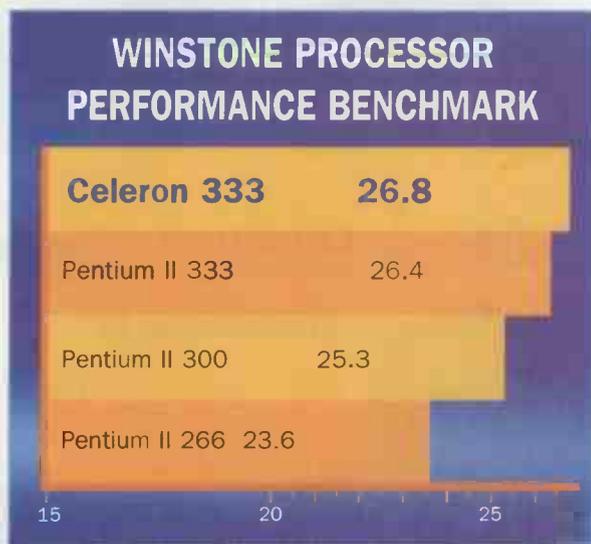
Taxan monitors are TC095 compliant - meeting the latest and most stringent safety and ergonomic standards. They are now standard fitment on our high end systems, and optional on all others.



Evesham Micros

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0800 496 0800
 Web: <http://www.evesham.com>

Intel® Celeron™ 333MHz - the most CPU power for your £££s



Figures produced by Evesham Micros on an EveshamVale Platinum TNT PC.



The new **Celeron 333** offers a breakthrough in price/performance technology. This new processor makes all Pentium II processors up to 333MHz redundant by offering higher performance at a lower cost. The key to such performance is 128kb of Level 2 cache *running at processor speed*. Just one look at the graph highlights its outstanding potential to perform when you need it most.



"The 15-inch monitor gave a good, bright picture and was easy to control...What is certainly more than adequate is the performance of the 333MHz Celeron...This machine is a little scorcher at a very competitive price"
EveshamVale Prestige 333
Performance 10/10



"A well specified system for the money, proving that a good PC can be built from Intel's newest budget CPU. The big question is the performance, and this proved to be good. Considering you're getting a fast high-spec PC from a well known company, the price seems very reasonable. The EveshamVale Prestige 333 is a well-rounded PC and shows what can be done with Intel's latest chip. If you're after decent performance at a reasonable price, it's a good choice."
EveshamVale Prestige 333

Look out for our Intel
Celeron 333 powered Prima,
Prestige & Platinum models on pages 4-9

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
01 855 4444
Fax: 01 855 4440

Web: <http://www.evesham.com>

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ENTHUSIAST'S EDITIONS

GameStation II

The new 3Dfx Voodoo 2 chip has taken 3D gaming performance into to a new dimension. The GameStation II combines the power of the 12Mb Canopus Pure3D II LX card with a 333Mhz 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 Yamaha MS25 system which comes with a sub-woofer. If you want the best in 3D performance this system offers incredible value for money!!

GameStation 2:
Prestige Celeron II MULTIMEDIA PC
 with **3Dfx Voodoo 2** graphics upgrades:

- ◆ 6.4Gb hard disk
- ◆ Canopus Pure3D II LX 12Mb 3Dfx accelerator for unprecedented 3D graphics
- ◆ Genuine Creative Labs SoundBlaster 64 wavetable sound card
- ◆ 17" EveshamVale monitor
- ◆ Yamaha YST-MS25 speaker system with sub-woofer
- ◆ Suncom F15-E Raptor joystick

See page 6 for full details of Prestige models

only (£977.87+VAT)
£1149 inc VAT

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?

BUY NOW
PAY 1999
 SEE PAGE 2 FOR DETAILS



MovieStation

The best DV capture card in the world is now available in PAL format, enabling us to offer this professional video editing suite...

MovieStation 98

- ◆ 400MHz Intel Pentium® II processor
- ◆ Dual processor capable motherboard with Intel 440BX AGPset
- ◆ 128Mb SDRAM (100MHz)
- ◆ 2x 9Gb Quantum Viking II LVD SCSI super fast hard disks
- ◆ Adaptec 2940 LVD U2W SCSI controller
- ◆ 8Mb ATI Xpert98 AGP 3D graphics accelerator and ATI 8Mb Xpert@Work PCI graphics accelerator
- ◆ 19" Taxan Ergovision 975 TCO95 monitor and 15" Ergovision 550 TCO95 monitor
- ◆ Canopus DVREx-M1 digital audio and video capture with Ulead MediaStudio Pro 5.02 - the ultimate video editing solution now with audio scrubbing
- ◆ Panasonic DVD-ROM drive (also works as CD-ROM drive) - or upgrade to DVD-RAM
- ◆ Genuine Creative Labs SoundBlaster 64 wavetable sound card
- ◆ Yamaha YST-MS25 speaker system with sub-woofer
- ◆ Microsoft Intellimouse
- ◆ Windows 98

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 Microsoft Intellimouse, real-time audio and video scrubbing
- Digital audio in/out (coaxial and optical) with DVREx-M2 option

DV "this is a professional system that will find happy use in day-to-day editing situations."
DV REX-M1 ONLY
£1899 (inc VAT)
 "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."



MovieStation 98

£4499 (£5286.33)
 +VAT

DVD RAM
 UPGRADE ONLY...
£399+VAT
 (£468.83)

MovieStation NT:

- ◆ 8Mb ATI Xpert 98 AGP 3D graphics
- ◆ 21" Taxan Ergovision 2160 TCO95 DiamondTron monitor
- ◆ Windows NT

Other specifications as MovieStation 98

£4699 +VAT
 (£5521.33)

MovieStation EL:

- ◆ Single processor capable motherboard
- ◆ 10.2Gb Quantum Fireball EL IDE hard disk
- ◆ 8Mb ATI Xpert 98 AGP 3D graphics
- ◆ 19" Taxan Ergovision 975 TCO95 monitor

Other specifications as MovieStation 98

£3399 +VAT
 (£3993.83)

DVREx-M2
 UPGRADE ONLY...
£300+VAT
 (£352.50)

Cv 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

Canon XLI

DV camcorder

ONLY... £2720
 (£3195 inc VAT)



"this is a brilliant camcorder, which used in most settings will produce outstanding results. It certainly deserves its growing reputation as a DV ground-breaker and should produce a lot of footage of the 'broadcast' variety."

EveshamVale

BUY NOW
PAY 1999
SEE PAGE 2 FOR DETAILS

Prima

Dublin Branch
Now Open
Tel: 01 855 4444

We have set out to build a quality PC and sell it at a keen price, whilst still offering a standard of equipment that allows us to maintain our award winning level of service and support. The Prima is the result and is now established as a standard setting entry level PC, as confirmed by winning Computer Shopper's "Best Buy" award when pitted against computers from 13 leading suppliers.

From
£399 +VAT (£468.83)

Prima Standard models:

- ◆ 512kb cache (WinChip models)
- ◆ 128kb processor speed cache (Celeron 333 models)
- ◆ Intel Slot One (Celeron models) for processor upgrades
- ◆ Socket 7 (WinChip models) for processor upgrades
- ◆ 16Mb RAM (WinChip 200 models)
- ◆ 32Mb RAM (other models)
- ◆ 2.1Gb hard disk (WinChip 200 models)
- ◆ 4Gb hard disk (other models)
- ◆ ATI 2Mb PCI video card
- ◆ 14" SVGA monitor
- ◆ 14 day moneyback guarantee
- ◆ 1 year on-site maintenance for parts and labour
- ◆ Lifetime technical support hotline
- ◆ Year 2000 ready BIOS
- ◆ 1 EPP parallel port and 2 serial ports with 16550 UART
- ◆ 3.5" 1.44Mb floppy disk drive
- ◆ Mini-tower case
- ◆ TÜV approved power supply with low noise fan
- ◆ Windows95 keyboard
- ◆ Mouse
- ◆ Windows98 installed, with full manuals and disks supplied (Windows95 is a no cost option)

Prima MULTIMEDIA models and Media98

models also have:

- ◆ 24x CD-ROM drive
- ◆ SoundBlaster 16 compatible sound
- ◆ Zy-Fi Compact amplified speakers



Prima Multimedia PC (case style may vary)

Reviews

COMPUTER SHOPPER

"Good specification, good performance and a good price."
EveshamVale Prima

PC Plus

"the main components for which you're likely to buy are all sound and well coupled together. A good, base level PC."
EveshamVale Prima



"If we were choosing the machine that combined performance, presentation and configuration then our choice would be narrowed down to the Evesham...we fully approve of its documentation, setup and choice of components"
EveshamVale Prima

EveshamVale Prima			
Processor:	Standard	MULTIMEDIA	Media98
idt WinChip™ 200 MMX, 16Mb RAM, 2.1Gb HDD	£399-VAT (£468.83)	£469-VAT (£551.08)	£539-VAT (£633.33)
idt WinChip™ PR233 MMX, 32Mb RAM, 4Gb HDD	£449-VAT (£527.58)	£519-VAT (£609.83)	£599-VAT (£703.83)
Intel Celeron™ 300, 32Mb RAM, 4Gb HDD	£499-VAT (£586.33)	£539-VAT (£633.33)	£619-VAT (£727.33)
Intel Celeron™ 333, 32Mb RAM, 4Gb HDD	£529-VAT (£621.58)	£569-VAT (£668.58)	£649-VAT (£762.58)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

Prima upgrades

16Mb to 32Mb RAM	£40 +VAT (£47.00)
32Mb to 64Mb RAM	£40 +VAT (£47.00)
15" EveshamVale monitor	£30 +VAT (£35.25)
17" EveshamVale monitor	£115.11 +VAT (£135.25)
K56flex EveshamVale modem	£49 +VAT (£58.58)
Desktop case (illustrated page 8)	£25 +VAT (£29.38)
Second year on-site maintenance	£40 +VAT (£47.00)
ValeStart Service	models without modem £60 +VAT (£70.50) models with modem £85 +VAT (£99.85)

Media98

10 of Microsoft's latest and most popular software titles:

- Microsoft Works – The world's most popular integrated word processor, spreadsheet, database, drawing and communications package.
- Microsoft Encarta 98 – Award winning multimedia encyclopaedia (International Edition)
- Microsoft Encarta 98 World Atlas – The world's leading atlas
- Microsoft Magic School Bus Rainforest – A fun filled, fact pact science adventure in the Costa Rican rainforest.

- Microsoft Monster Truck Madness 2 – Down and dirty racing.
- Microsoft Money 98 – The easy way to manage your finances.
- Microsoft Golf 98 – The top selling golf game for Windows.
- Microsoft Football – Experience all the atmosphere of world class football.
- CART Precision Racing – All the speed and thrills of Indy car racing with this simulator.
- Chaos Island: Jurassic Park – Real-time klds strategy game based on the hit film.
- Suncom Joystick

This bundle is available with any EveshamVale PC – see the following pages

Software boxes shown for illustration only. Please note that the software is not supplied in retail packaging.



Do you need a little help installing your new computer?

"ValeStart" service could be your answer!

From just **£60** +VAT (£70.50)

If you purchase a Prima Multimedia PC model without modem, add £85 (+VAT) for a connection to the internet.

We'll install your new PC and get you started

One of our HomeStart technicians will come to your home and ensure that your computer is properly installed and configured and then demonstrate to you how to use the PC to its full potential.

One the engineer has left, you're not on your own either - Evesham Micros give you the reassurance of a dedicated, knowledgeable and friendly technical support line, for the lifetime of your PC. The technicians are there

to answer your questions, give you advice or point you in the right direction should you take a wrong turn. And what's more, calls to the Technical support line are free.

Unlike most suppliers we include on-site maintenance as standard. If something goes wrong we will send one of our engineers to your home to sort out the problem. Let's face it, the last thing you will want to do if your computer breaks down is to have to pack it off and return it to a supplier for an unknown length of time!

BIRMINGHAM
0121 683 6868
Fax: 0121 683 6869

CAMBRIDGE
01223 323 898
Fax: 01223 322 883

MILTON KEYNES
01908 230 898
Fax: 01908 230 865

LEEDS
0113 203 2000
Fax: 0113 203 2001

DUBLIN
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Fax: 01 855 4440

5

EveshamVale

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Evesham Vale

Prestige

See page 4 for

ENTHUSIAST'S EDITIONS!

Buy Now
PAY 1999
See page 2 for details

Our benchmark PC – available in a range of configurations to suit most applications.

Prestige Standard models:

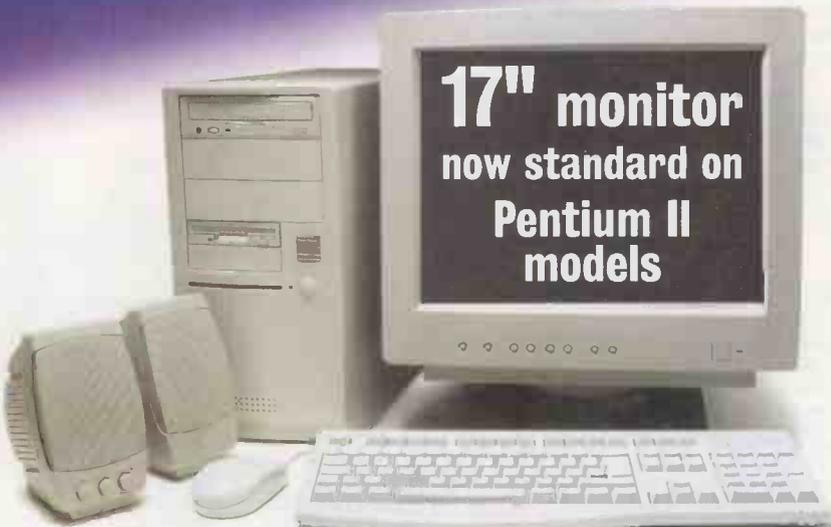
- ◆ Intel 440EX AGPset (Celeron models)
- ◆ Intel 440BX AGPset (Pentium II models)
- ◆ 128kb processor speed cache (Celeron 333 models)
- ◆ 512kb cache (Pentium II models)
- ◆ 64Mb SDRAM
- ◆ 4Gb hard disk (Celeron models)
- ◆ 6.4Gb hard disk (Pentium II models)
- ◆ ATI 4Mb 3D Charger AGP video card
- ◆ 15" Evesham Vale monitor (Celeron models)
- ◆ 17" Evesham Vale monitor (Pentium II models)
- ◆ 2x Universal Serial Bus (USB) ports
- ◆ 14 day moneyback guarantee
- ◆ 2 years on-site maintenance for parts and labour
- ◆ Lifetime technical support hotline
- ◆ Year 2000 ready BIOS
- ◆ 1 EPP parallel port and 2 serial ports with 16550 UART
- ◆ 3.5" 1.44Mb floppy disk drive
- ◆ Choice of desktop or midi-tower case
- ◆ TÜV approved power supply with low noise fan
- ◆ 'Windows95' keyboard & mouse
- ◆ Windows98 installed, with full manuals and disks supplied (Windows95 is a no cost option)

Prestige MULTIMEDIA models and Media98

- models also have (in addition to Standard):
- ◆ 32x CD-ROM drive
 - ◆ SoundBlaster 16 compatible sound
 - ◆ Zy-Fi amplified speakers

Prestige Office models also have

- (in addition to Standard):
- ◆ 32x CD-ROM drive
 - ◆ Microsoft Office97 Small Business Edition (see page 7)



Prestige Multimedia PC with 17" EveshamVale monitor

Microsoft Office 97

See p5 for details of Media98 software.

EveshamVale Prestige: 64Mb RAM, 4Gb HDD

Processor:	Standard	MULTIMEDIA	Media98	Office
Intel Celeron™ 300	£549 ^{-VAT} (£645.08)	£589 ^{-VAT} (£692.08)	£669 ^{-VAT} (£786.08)	£709 ^{-VAT} (£833.08)
Intel Celeron™ 333	£579 ^{-VAT} (£680.33)	£619 ^{-VAT} (£727.33)	£699 ^{-VAT} (£821.33)	£739 ^{-VAT} (£868.33)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch. See page 5 for details of Media98 pack.

EveshamVale Prestige: 64Mb RAM, 6.4Gb HDD

Processor:	Standard	MULTIMEDIA	Media98	Office
Intel Pentium® II 350	£849 ^{-VAT} (£997.58)	£889 ^{-VAT} (£1044.58)	£969 ^{-VAT} (£1138.58)	£1009 ^{-VAT} (£1185.58)
Intel Pentium® II 400	£989 ^{-VAT} (£1162.08)	£1029 ^{-VAT} (£1209.08)	£1109 ^{-VAT} (£1303.08)	£1149 ^{-VAT} (£1350.08)
Intel Pentium® II 450	£1129 ^{-VAT} (£1326.58)	£1169 ^{-VAT} (£1373.58)	£1249 ^{-VAT} (£1467.58)	£1289 ^{-VAT} (£1514.58)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch. See page 5 for details of Media98 pack.

Prestige upgrades

64Mb to 96Mb RAM (Celeron models).....	£40+VAT (£47.00)
64Mb to 128Mb RAM (Pentium II models).....	£80+VAT (£94.00)
15" Taxan Ergovision 550 TCO95 monitor (Celeron models).....	£30+VAT (£35.25)
17" EveshamVale monitor (Celeron models).....	£85.11+VAT (£100.00)
17" Taxan Ergovision 760 TCO95 monitor (Celeron models).....	£130+VAT (£152.75)
17" Taxan Ergovision 760 TCO95 monitor (Pentium II models).....	£45+VAT (£52.88)
K56flex EveshamVale modem.....	£49+VAT (£57.58)
Desktop case (illustrated page 8).....	£25+VAT (£29.38)
ValeStart installation service (see page 5).....	models without modem: £60+VAT (£70.50) models with modem: £85+VAT (£99.88)

SpaceStation

Prestige Celeron 300MHz MULTIMEDIA PC with Taxan Crystalvision 640 TCO95-S flat panel LCD monitor

- ◆ 14.1" LCD panel with 1024 x 768 resolution
- ◆ Perfectly flat square display with no distortion

◆ Similar screen area to a 17" conventional monitor

◆ Only 170 mm overall depth including stand



£1149^{+VAT}
Including (£1350.08)
the PC!

Reviews



"The Prestige is a good machine at a very competitive price. If you're working to a tight budget, this machine must be at the top of your short list!"
EveshamVale Prestige



"A good, well-designed machine offering superb value for money."
EveshamVale Prestige



"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 Media97



"The Evesham uses quality components throughout which help maximise the potential of its powerful CPU... faster than some Pentium 200s! One of the first MMX machines we tested, the Evesham is a great example of the technology's potential."



"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



"very well future-proofed."
"Fastest of all was the Evesham... It doesn't even have a 266MHz processor, but beats those that do."
"With the Evesham reputation, we reckon this machine would be a good budget choice, so recommend it." EveshamVale Prestige P-II 233



"Evesham is just as capable at entry level machines as at big network servers. Performance is a particular strong point of this machine."
"At £1000, like all the others and with markedly superior performance, the Vale Prestige PII-233 deserves and earns a PC Plus Performance Award." EveshamVale Prestige

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Evesham Vale

Autumn Specials

Prestige Scorcher

BUY NOW
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SEE PAGE 2 FOR DETAILS

Prestige Scorcher MULTIMEDIA models:

- ◆ Intel 440EX AGPset
- ◆ 128kb processor speed cache
- ◆ 64Mb SDRAM
- ◆ 6.4Gb hard disk
- ◆ 8Mb ATI Xpert98 AGP 3D graphics accelerator
- ◆ 15" EveshamVale monitor
- ◆ 32x CD-ROM drive
- ◆ On-board 16-bit audio
- ◆ Zy-Fi amplified speakers
- ◆ K56flex modem ◆ 30 day free Internet access*
- ◆ 2x Universal Serial Bus (USB) ports
- ◆ 14 day moneyback guarantee
- ◆ 2 years on-site maintenance for parts and labour
- ◆ Lifetime technical support hotline

Other features on Prestige range (see left)

Prestige Scorcher Media98 models also have:

- ◆ Microsoft Media98 pack
- ◆ Lexmark 1100 Colour JetPrinter

Prestige Scorcher Office models also have:

- ◆ Microsoft Office97 Small Business Edition

Prestige Scorcher: 64Mb RAM, 6.4Gb HDD

Processor:	MULTIMEDIA	Media98	Office
Intel Celeron™ 333	(£880.80) £799 inc VAT	(£816.17) £959 inc VAT	£819 inc VAT (£962.33)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch. See page 5 for details of Media98 pack.



"A well specified system for the money, proving that a good PC can be built from Intel's newest budget CPU.

The big question is the performance, and this proved to be good. Considering you're getting a fast high-spec PC from a well known company, the price seems very reasonable. The EveshamVale Prestige 333 is a well-rounded PC and shows what can be done with Intel's latest chip. If you're after decent performance at a reasonable price, it's a good choice." EveshamVale Prestige 333

"The 15-inch monitor gave a good, bright picture and was easy to control...What is certainly more than adequate is the performance of the 333MHz Celeron...This machine is a little scorcher at a very competitive price"
EveshamVale Prestige 333 Performance 10/10

Prestige TNT

Maximum performance - Maximum upgradeability

Prestige TNT models use not only the brand new STB Velocity 4400 graphics accelerator - but also the very latest Intel BX chipset, with 128Mb of 100MHz SDRAM and capable of upgrade to the fastest Pentium II processor. So as well as having the performance to raise it above the competition now, the TNT has the upgradeability to keep it there.

- ◆ Intel 440BX AGPset
- ◆ 128kb processor speed cache (Celeron 333 models)
- ◆ 512kb cache (Pentium II models)
- ◆ 128Mb SDRAM (100MHz)
- ◆ 8.4Gb Ultra ATA hard disk
- ◆ 16Mb STB Velocity 4400 2D/3D graphics accelerator
- ◆ 17" EveshamVale monitor
- ◆ K56flex modem ◆ 30 day free Internet access*
- ◆ 32x CD-ROM drive
- ◆ Genuine Creative Labs SoundBlaster 64 wavetable sound card
- ◆ Zy-Fi Pro amplified speakers
- ◆ 2x Universal Serial Bus (USB) ports
- ◆ 14 day moneyback guarantee
- ◆ 2 years on-site maintenance for parts and labour
- ◆ Lifetime technical support hotline

Other features on Prestige range (see left)

Prestige TNT Media98 models also have:

- ◆ Microsoft Media98 pack
- ◆ Lexmark 1100 Colour JetPrinter

Prestige TNT Office models also have:

- ◆ Microsoft Office97 Small Business Edition

STB VELOCITY 4400

The new VELOCITY 4400 delivers next generation 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.



www.gamespot.com
Rating:



"...beats any 2D/3D
combo card hands down"

EveshamVale Prestige TNT: 128Mb RAM, 8.4Gb HDD

Processor:	MULTIMEDIA	Media98	Office
Intel Celeron™ 333	(£977.87) £1149 inc VAT	(£1114.04) £1309 inc VAT	£1099 inc VAT (£1291.33)
Intel Pentium® II 400	(£1275.74) £1499 inc VAT	(£1411.91) £1659 inc VAT	£1399 inc VAT (£1643.83)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch. See page 5 for details of Media98 pack.

Microsoft software bundles

Available with any EveshamVale Multimedia or Media98 PC

Microsoft Office 97 Professional Edition £99 (£116.33) +VAT	Microsoft Office 97 Small Business Edition £149 (£175.08) +VAT	Microsoft Office 97 Professional Edition £239 (£280.83) +VAT
◆ Word 97◆ Excel 97◆ Outlook 97◆ Access 97◆ Powerpoint 97	◆ Word 97◆ Excel 97◆ Outlook 97◆ Publisher 97◆ AutoRoute Express	◆ Word 97◆ Excel 97◆ Outlook 97◆ Access 97◆ Powerpoint 97

*To qualify for the Student Edition you or someone in your family needs to be aged 5 or over and in full or part time education. †A Dip. in Education & Child Development (DCE) required. ‡As either a student or teacher. Product supplied via voucher redemption. †Product supplied in Office97 Upgrade Pack, plus a suitable product to upgrade from. ‡Office 97 Professional requires industry standard documentation.

Add a splash
of colour with a
LEXMARK

1100 Colour Jetprinter

Included with
the Prestige
Media98



The family colour
printer with Disney's
characters

An award winning combination...

COLOUR PRINTER & DIGITAL CAMERA

Upgrade the Prestige Scorcher Media98 or Prestige TNT Media98 to the award winning Lexmark 5700 photo quality printer for (85.11 +VAT) **£100** inc VAT

or the Lexmark 5700 & AGFA ePhoto307 digital camera for (170.21 +VAT) **£200** inc VAT

Printer and camera bundle is available separately for **£299** inc VAT

*You need to provide a telephone line, and pay for (local rate) call charges. You will also require a credit card to activate your free internet trial. (This will only be charged if you choose to extend the service beyond three months)

BIRMINGHAM
0121 683 6868
Fax: 0121 683 6869

CAMBRIDGE
01223 323 898
Fax: 01223 322 883

MILTON KEYNES
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PAY 1999
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Platinum

"THE BEST PC EVER"

EveshamVale Platinum PC Pro

EveshamVale Platinum PCs have always been a favourite with reviewers - in fact *PC Pro* recently described one as "the best PC EVER". The current Platinum is an enhanced version of that review specification, with faster processors, more hard disk space and 17" Taxan monitor (instead of 15"). Despite the improvements, we have managed to reduce the price.

All Platinum models:

- ◆ Chaintech 6BTM motherboard with Intel 440BX AGPset, 100MHz bus, and SeePU and APTC technologies (*Pentium II models*)
- ◆ Chaintech motherboard with Intel 440 AGPset (*Celeron models*)
- ◆ 128kb processor speed cache (*Celeron models*)
- ◆ 512kb cache (*Pentium II models*)
- ◆ 64Mb SDRAM, expandable to 256Mb (100MHz)
- ◆ 2x Universal Serial Bus (USB) ports
- ◆ 6.4Gb Ultra ATA high speed hard disk
- ◆ 8Mb ATI Xpert 98 AGP 3D graphics accelerator
- ◆ 17" Taxan Ergovision 760 TCO95 monitor
- ◆ 32x CD-ROM drive
- ◆ Microsoft Intellimouse
- ◆ 14 day moneyback guarantee
- ◆ 2 years on-site maintenance for parts and labour
- ◆ Lifetime technical support hotline
- ◆ Year 2000 ready BIOS
- ◆ 1 EPP parallel port and 2 serial ports with 16550 UART
- ◆ 3.5" 1.44Mb floppy disk drive
- ◆ Keytronic PS/2 "Windows 95" keyboard
- ◆ Choice of high quality ATX style desktop or midi-tower case
- ◆ TÜV approved power supply with low noise fan
- ◆ Windows98 installed, with full manuals and disks supplied (Windows95 is a no cost option)

Platinum **MULTIMEDIA** models and **Media98** models have:

- ◆ Genuine Creative Labs SoundBlaster 64 wavetable sound card
- ◆ Zy-Fi amplified speakers

Platinum **Office** models have:

- ◆ Microsoft Office97 Small Business Edition (see page 7)



EveshamVale Platinum: 64Mb SDRAM, 6.4Gb HDD

	MULTIMEDIA	Media98	Office
Celeron™ 333	£879 [•] VAT (£1032.83)	£959 [•] VAT (£1126.83)	£949 [•] VAT (£1115.08)
Pentium® II 350	£1009 [•] VAT (£1185.58)	£1089 [•] VAT (£1279.58)	£1079 [•] VAT (£1267.83)
Pentium® II 400	£1149 [•] VAT (£1350.08)	£1229 [•] VAT (£1444.08)	£1219 [•] VAT (£1432.33)
Pentium® II 450	£1289 [•] VAT (£1514.58)	£1369 [•] VAT (£1608.58)	£1359 [•] VAT (£1596.83)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

Platinum upgrades

128Mb RAM	£80+VAT (£94.00)
256Mb RAM	£240+VAT (£282.00)
17" Iiyama Vision Master 400 monitor	£109+VAT (£128.08)
17" Iiyama Vision Master Pro 400 monitor	£125+VAT (£146.88)
17" Taxan 750 TCO95 monitor	£150+VAT (£176.25)
19" Taxan 975 TCO95 monitor	£210+VAT (£246.75)
21" Taxan 2160 TCO95 monitor	£570+VAT (£669.75)
SoundBlaster Live sound card	£99+VAT (£116.33)
Panasonic LS-120 120Mb drive instead of 1.44Mb floppy drive	£60+VAT (£70.50)
K56flex EveshamVale modem	£49+VAT (£57.98)
Maxtor DiamondMax 2500 10Gb hard disk	£120+VAT (£142.25)
Matrox G200 Millennium 8Mb video card	£40+VAT (£47.00)
ValeStart service (see page 5 for full details) ...models without modem	£60+VAT (£70.50)
...models with modem	£85+VAT (£99.88)

Platinum TNT upgrades

256Mb RAM	£160+VAT (£188.00)
Diamond Max 2500 hard disk	£70+VAT (£82.25)
Yamaha YST-MS25 speaker system (Multimedia and Media98)	£40+VAT (£47.00)
No modem	deduct £49+VAT (£57.98)

Other upgrades as Platinum models



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

Platinum TNT

Platinum TNT models have the following enhancements to Platinum models:

- ◆ 128Mb SDRAM (100MHz)
- ◆ 10.2Gb Quantum Fireball EL hard disk
- ◆ 16Mb STB Velocity 4400 2D/3D graphics accelerator
- ◆ Zy-Fi 2 Pro speakers (*MULTIMEDIA* and *Media98* models)
- ◆ K56flex modem



EveshamVale Platinum TNT: 128Mb SDRAM, 10.2Gb HDD

	MULTIMEDIA	Media98	Office
Celeron™ 333	£1099 [•] VAT (£1291.33)	£1179 [•] VAT (£1385.33)	£1169 [•] VAT (£1373.58)
Pentium® II 350	£1229 [•] VAT (£1444.08)	£1309 [•] VAT (£1538.08)	£1299 [•] VAT (£1526.33)
Pentium® II 400	£1369 [•] VAT (£1608.58)	£1449 [•] VAT (£1702.58)	£1439 [•] VAT (£1690.83)
Pentium® II 450	£1509 [•] VAT (£1773.08)	£1589 [•] VAT (£1867.08)	£1579 [•] VAT (£1855.33)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

STB VELOCITY 4400

(see page 7 for further details)

The new VELOCITY 4400 delivers next generation graphics performance that simply blows away everything that has come before.



Platinum Multimedia PC in the optional desktop case

Microsoft software bundles Available with any EveshamVale Multimedia or Media98 PC - see page 7 for details

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Pay 1999
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Platinum Wonder

"THE BEST" GETS BETTER

The Platinum Wonder is the affordable 'ultimate' PC. Like the rest of the Platinum range it is based on our proven formula of the very best components, solid and reliable build quality, and award winning customer care.

Platinum Wonder key features:

- ◆ Intel 440BX AGPset (100MHz bus)
- ◆ 128Mb SDRAM (100MHz)
- ◆ 10Gb Maxtor DiamondMax 2500 (The fastest IDE hard disk available)
- ◆ ATI 8Mb All-in-Wonder Pro AGP video card
- ◆ 12 MbVoodoo 2 3Dfx card
- ◆ 19" Taxan Ergovision 975 TCO95 monitor
- ◆ Panasonic DVD-ROM drive (also works as CD-ROM drive)
- ◆ Yamaha YST-MS25 speaker system with sub-woofer
- ◆ Iomega zip drive
- ◆ K56flex modem
- ◆ Microsoft Natural keyboard

Other features as Platinum MULTIMEDIA and Media98 models

Platinum Wonder: 128Mb SDRAM, 10Gb HDD

	MULTIMEDIA	Media98
Pentium® II 350	£1749-VAT (€2055.08)	£1829-VAT (€2148.08)
Pentium® II 400	£1889-VAT (€2219.58)	£1969-VAT (€2315.58)
Pentium® II 450	£2029-VAT (€2384.08)	£2109-VAT (€2478.08)

Prices highlighted are "Ready to Ship" models which we try to keep in stock for immediate despatch.

256Mb RAM.....	£160+VAT (€188.00)
Upgrade to 21" Taxan 2160 monitor.....	£360+VAT (€423.00)
32x CD-ROM drive instead of DVD-ROM drive.....	deduct £40+VAT (€47.00)
DVD-RAM (rewritable) drive instead of DVD-ROM drive.....	£399+VAT (€468.83) (includes SCSI controller card)
HP Surestore CD-RW 7200 CD-ROM writer.....	£239+VAT (€280.83)

SEE PLATINUM MODELS FOR OTHER UPGRADES

Fastest PC

If you simply must have the fastest PC available, then look no further. This model takes the highly impressive Platinum Wonder, and adds the latest SCSI disk system. The twin 9Gb Quantum drives and Adaptec controller utilise the latest Low Voltage Differential signalling to double the burst transfer rate of Ultra 2 to 80Mbytes/sec.

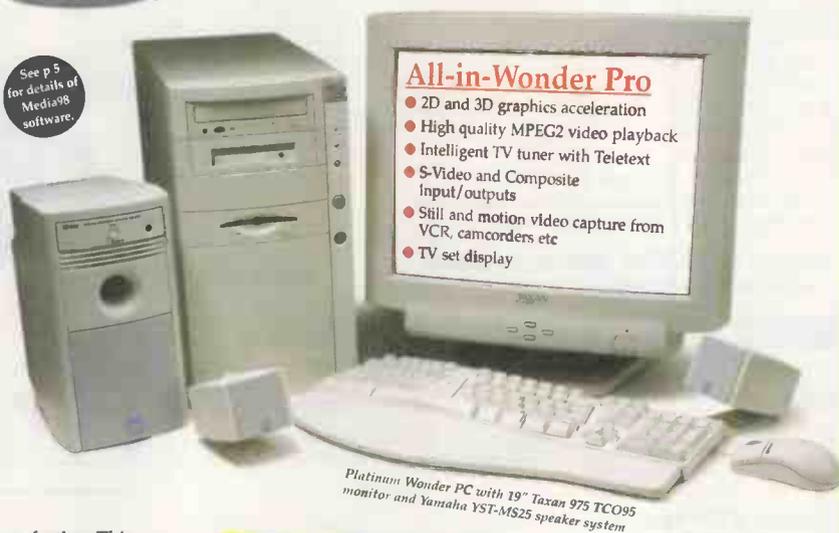
Platinum Wonder Pentium® II 450 PC with the following upgrades:

- ◆ 2x 9Gb Quantum Viking II LVD SCSI super fast hard disks
- ◆ Adaptec 2940 LVD U2W SCSI controller

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See p 5 for details of Media98 software.



Platinum Wonder PC with 19" Taxan 975 TCO95 monitor and Yamaha YST-MS25 speaker system

Now 450MHz

Fastest PC	
MULTIMEDIA	Media98
£2799-VAT (€3288.83)	£2879-VAT (€3382.83)

ATI 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



"All in all, this is an extremely impressive package... when you bear in mind the price you could expect to pay for all those extra bits on board, it's something of a bargain... Just for once, this is a product that does everything it sets out to do, and it does it all well." All-in-Wonder Pro



All-in-Wonder Pro

All-in-Wonder Pro

- 2D and 3D graphics acceleration
- High quality MPEG2 video playback
- Intelligent TV tuner with Teletext
- S-Video and Composite input/outputs
- Still and motion video capture from VCR, camcorders etc
- TV set display



"FASTEST PC"

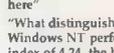
"The Vale Platinum PII/400 is the latest in a series of ever-more powerful machines we've recently seen from Evesham... Evesham's system is one for the hardcore speed freaks... The PC equivalent of a land-speed record holder... All too predictably, the Platinum 400 knocks the Platinum 333 off its perch 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

Reviews

Platinum & Platinum SE

"Fastest PC on the Planet"

"Evesham has put together a 'no expense spared' system, which shows what the 266MHz Pentium II can do - it's breathtaking!"
"Evesham must know something others don't about heat generation - there's certainly little to support the 'hot running' rumours here!"
"What distinguishes this machine beyond doubt is its Windows NT performance. Turning in a PC Plus index of 4.24, the highest we've ever seen, earns it a Performance award!"
EveshamVale Platinum SE



EveshamVale Platinum SE



EveshamVale Platinum SE

"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



EveshamVale Platinum SE Pro.

EveshamVale Platinum SE



"As always, we tried hard to be critical - but this time around, we have to hold our hands up and admit that the Platinum SE is a great system."
Rating: ★★★★★
EveshamVale Platinum SE



steadily, flicker-free image."
"A machine to suit most business needs."
EveshamVale Platinum



EveshamVale Platinum SE



"It's easy to set up and the user manual is informative, well written and illustrated."
"Evesham Micros gets a special mention for future-proofing its PC with a DVD-ROM drive"
"The insides of this PC are a tribute to good housekeeping"
"GOOD POINTS: Performance, ease of use and installation, warranty, monitor, DVD-ROM drive"
EveshamVale Platinum



"This is a well specified system... and is configured appropriately for both home and games usage, delivering very good performance."
"Evesham's Vale gets our vote for its overall level of presentation."
EveshamVale Platinum



go with Evesham Micros"
"GOOD POINTS: Fast, expandable, quiet fan"
"CONCLUSION: I'm very happy"
EveshamVale Platinum SE



"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

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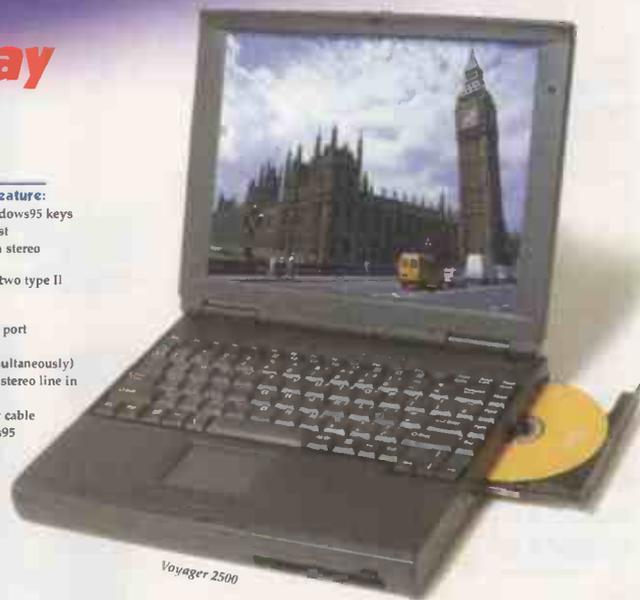
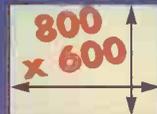
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Voyager 2500

A fully featured 266MHz notebook with TFT display for only £949+VAT !!



Voyager 2500 MULTIMEDIA models:

- ◆ 2 year warranty, with accidental damage insurance
- ◆ 256kb asynchronous cache
- ◆ 32Mb EDO RAM (266 models)
- ◆ 64Mb EDO RAM (300 models)
- ◆ 3.2Gb hard disk (266 models)
- ◆ 5Gb hard disk (300 models)
- ◆ 2Mb 64bit PCI graphics accelerator
- ◆ 12.1" TFT colour display with 800x600 SVGA resolution
- ◆ 20x CD-ROM drive
- ◆ 3.5" floppy drive
- ◆ Nickel MetalHydride battery
- ◆ Extensive power management features, including 'suspend to RAM' and 'suspend to disk'

Voyager 2500 models also feature:

- ◆ Good solid keyboard with Windows95 keys
- ◆ Built-in touchpad with palm rest
- ◆ Built-in 16bit stereo sound with stereo speakers and microphone
- ◆ ZV-enabled PCMCIA ports for two type II or one type III card
- ◆ 16550 compatible serial port
- ◆ EPP/ECP bi-directional parallel port
- ◆ PS/2 mouse or keyboard port
- ◆ External monitor port (runs simultaneously)
- ◆ Jacks for external speakers and stereo line in
- ◆ Infra red data link
- ◆ Anchor for Kensington security cable
- ◆ Windows98 installed (Windows95 is a no cost option)

Voyager 2500 Office models also have:

- ◆ Microsoft Office97 Small Business Edition (see page 7)



Voyager 2500 - 12.1" TFT display, NiMH battery

	MULTIMEDIA (TFT)	Office (TFT)
AMD K6 266	£949+VAT (£1115.00)	£1089+VAT (£1279.58)
AMD K6 300	£1099+VAT (£1291.33)	£1239+VAT (£1455.83)

Prices highlighted in yellow indicate "Ready to Ship" models which we try to keep in stock for immediate despatch.

WHAT PC?

"quality screen... good colour and contrast; it is also visible from a good range of angles." "The keyboard is comfortable to type on."
 EveshamVale Voyager 2000

WHAT PC? Testdrive

"When he looked at the EveshamVale Voyager 2000's specification, Tim found it hard to believe it fell within his budget." "In the end, the EveshamVale Voyager 2000 looked the most promising."
 EveshamVale Voyager 2000

Voyager 2700 models

differ in the following respects:

- ◆ Low voltage Intel Mobile Pentium® II processor
- ◆ 13.3" TFT colour display with 1024 x 768 resolution
- ◆ 32Mb RAM (PII 233 models)
- ◆ 64Mb RAM (PII 266 models)
- ◆ 4Gb hard disk (PII 233 models)
- ◆ 5Gb hard disk (PII 266 models)
- ◆ 512kb Pipeline-Burst cache



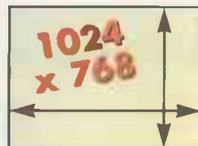
From **£1399+VAT** (£1643.83)



Voyager 2700 - 13.3" TFT display, NiMH battery

	MULTIMEDIA (TFT)	Office (TFT)
Pentium® II 233	£1399+VAT (£1643.83)	£1539+VAT (£1808.33)
Pentium® II 266	£1699+VAT (£1998.33)	£1839+VAT (£2160.83)

Prices highlighted in yellow indicate "Ready to Ship" models which we try to keep in stock for immediate despatch.



Voyager 2000 series upgrades

32Mb to 96Mb RAM	£75+VAT (£88.13)
Car cigar lighter adaptor	£79+VAT (£92.83)

We've got you...

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.

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)

Evesham Micros

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EveshamVale

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
- ◆ 32Mb SDRAM (233 models)
- ◆ 80Mb SDRAM (266 models)
- ◆ 4Gb enhanced IDE hard disk (233 models)
- ◆ 5Gb enhanced IDE hard disk (266 models)
- ◆ 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 7)



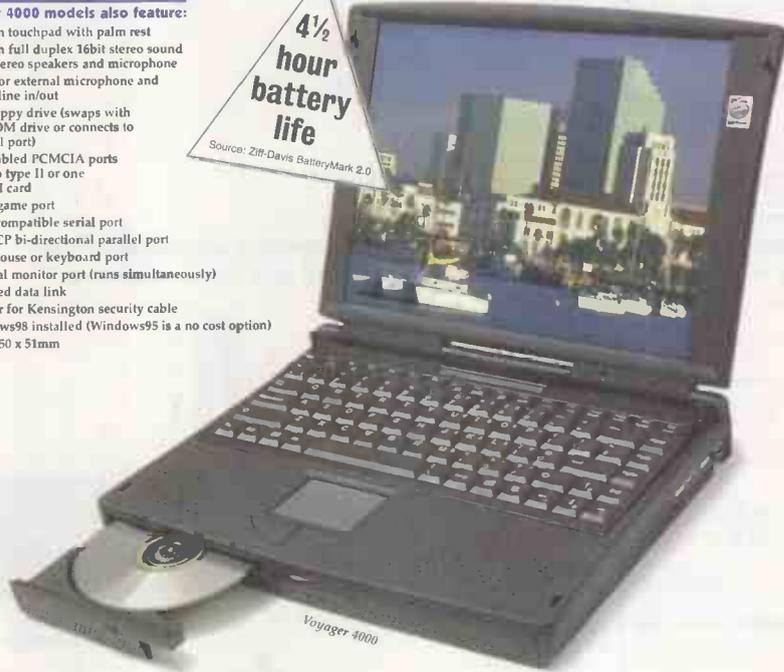
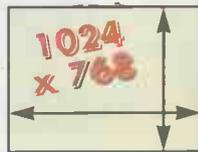
Voyager 4000 - 13.3" TFT display, Li-Ion battery

	MULTIMEDIA (TFT)	Office (TFT)
Pentium® II 233	£1699-VAT (£1996.33)	£1839-VAT (£2160.83)
Pentium® II 266	£1999-VAT (£2348.83)	£2139-VAT (£2513.33)

Prices highlighted in yellow indicate "Ready to Ship" models which we try to keep in stock for immediate despatch.

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
- ◆ EP/ECPC 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



BUY IT!
COMING 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

Voyager 4000 upgrades

- 32Mb to 80Mb RAM.....£80+VAT (£94.00)
- Car cigar lighter adaptor.....£79+VAT (£92.83)
- Second battery.....£129+VAT (£151.58)
- Port replicator.....£149+VAT (£175.08)



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.....covered

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.

PCMCIA card options

EveshamVale 56k modem.....	£79+VAT (£92.83)
EveshamVale ethernet adaptor.....	£59+VAT (£69.33)
USR Sportsler Xjack modem.....	£155+VAT (£182.13)
Pace microlin NB 33.6 voice.....	£162+VAT (£190.35)
3Com Etherlink III 10BaseT LAN & 33.6 modem combo.....	£178+VAT (£209.15)
Psion Gold Card 56k modem.....	£224+VAT (£263.20)
Psion Gold Card Combo LAN & 33.6 modem.....	£231+VAT (£271.43)
Xircom Global Access 10BaseT LAN & 33.6 modem combo.....	£219+VAT (£257.33)

Microsoft software bundles Available with any EveshamVale Multimedia or Media98 PC - see page 7 for details

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CAMBRIDGE
01223 323 898
Fax: 01223 322 883

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Evesham Vale

Prestige

The Prestige offers an entry level solution to your business requirements.

- Intel Celeron® 333MHz processor
- Intel 40EX AGPset
- 64Mb SDRAM
- 4Gb Hard Disk
- ATI 4Mb 3D Charge AGP video card
- 15" EveshamVale Monitor

(See page 6 for full details of Prestige models)

£579 +VAT

Evesham Finance example: £20.83+VAT per month
3 year term payable quarterly by Direct Debit. Other terms are available - Please call for details.

Prestige upgrades

64Mb to 96Mb RAM£40+VAT



Prestige

Rapier Server

Fast and reliable, the Rapier Server is a real office workhorse. From a modest print and file server to a powerful SBS implementation, the possibilities are endless.

- Intel Pentium® II 400MHz processor (upgradeable to dual processors)
- 128Mb high performance RAM
- Safety first - 9Gb Ultra Wide SCSI hard disk and dual redundant PSUs
- Dedicated server case for maximum expansion potential

£2149 +VAT

Evesham Finance example: £77.30+VAT per month
3 year term payable quarterly by Direct Debit. Other terms are available - Please call for details.

Rapier Server upgrades

P II-400 to dual P II-400 processor£400+VAT
128Mb to 256Mb RAM£240+VAT
4/8Gb DAT drive£650+VAT
12/24Gb DAT drive£799+VAT



Rapier Server

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

£3499 +VAT

Evesham Finance example: £125.86+VAT per month
3 year term payable quarterly by Direct Debit. Other terms are available - Please call for details.

Samurai RAID Server upgrades

P II-400 to dual P II-400 processor£400+VAT
128Mb to 256Mb RAM£240+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



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 is available for any order in excess of £1000. This facility is offered subject to status.

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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 765500 and ask.

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

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POWER TO SPARE...

XenQua Server

The ultimate solution to your mission critical system requirements: the XenQua Server is the server you can depend on

- Dual Intel Pentium® II Xeon 400MHz processors with 512kb cache (upgradeable to quad processors)
- 54Gb RAID array
- 512Mb high performance RAM
- Delivered and commissioned on-site free of charge

£13499 +VAT

Evesham Finance example: £478.13 +VAT per month 3 year term payable quarterly by Direct Debit. Other terms are available - Please call for details.

XenQua Server upgrades

Dual P II-400 to quad P II-400 processors.....	£call
4/8Gb DAT drive.....	£650+VAT
12/24Gb DAT drive.....	£799+VAT

This is an example configuration - call us on 0800 765500 to discuss your specific requirements



Closed view



XenQua server



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 400MHz processor
- 128Mb SDRAM
- 2x 9Gb SCSI hard disks with Adaptec 2940 LVD U2W controller
- Diamond Fire GL1000 8Mb professional video card
- 21" Taxan Ergovision 2150 TCO95 monitor with DiamondTron tube
- High-tower case with plenty of expansion room

£3499 +VAT

Evesham Finance example: £125.86 +VAT per month 3 year term payable quarterly by Direct Debit. Other terms are available - Please call for details.

DesignStation upgrades

128Mb to 256Mb RAM.....	£240+VAT
4/8Gb DAT drive.....	£650+VAT
12/24Gb DAT drive.....	£799+VAT



DesignStation



"FASTEST PC"

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"

The EveshamVale DesignStation is an enhanced version of this PC with a dual 400MHz processor.



INTEGRAPH SOLID EDGE™

Powerful 3D Solid Modelled CAD

If you are interested in the power and flexibility of a professional 3D CAD system then you must look at Solid Edge - we believe that £ for £ nothing else comes close. Evesham Micros is a Solid Edge Business Partner and we would be delighted to discuss your requirements.

KINETIX

3D Studio MAX R2

The market leader in 3D graphics - we can supply you the fantastic new version and some amazing systems to run it on! Call us to discuss your requirements.

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Peripherals



CHAINTECH
COMPUTER CO., LTD.



Innovative simple CPU installation via BIOS - no jumpers
High security Active Processor Temperature Control - multi-level CPU temperature protection function



Chaintech 6ESA motherboard has on-board 16-bit audio

RUN!PC

"Technology Creativity" award. Chaintech 5TDM & 5TMM

MOTHERBOARDS

Buy a motherboard and processor together, and you get a free heatsink and fan.

Name	Form factor	Processor support			Chipset	Cache	RAM support				Exp. slots			Price
		K6	Pentium	Pentium II			Fast page/EDO	SD	ISA	PCI	AGP	USB		
Chaintech 5TDM	Baby AT	•	•		430TX	512kb	•	•	•	3"	4"		Opt	£45+VAT (£52.84)
Chaintech 5TMM	ATX	•	•		430TX	512kb	•	•	•	4"	4"		Opt	£45+VAT (£52.84)
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)
Tyan Tiger 100	ATX			Dual	440BX	on CPU	•	•	•	2"	5"	1	•	£195+VAT (£229.19)

Note some motherboard features may not work without Windows 98 *One slot shared *Use of USB requires cable @ £5+VAT (£5.88)



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)



6ESA
"...you can't underestimate the power this puppy packs. Its meek bark is made up for sheer power..."
"...you can enjoy the awesome FPU performance of a Celeron/6ESA combo for a previously unheard of price." AnandTech's website



5TMM
"Features the spectacular SpeedUP jumperless CPU setup"
"I suggest that you seriously consider the Chaintech 5TMM"
Ratings: Performance *****
Ease of use *****
Documentation *****

6LTM

"still smokes the competition"



EX
Based Bundles

BX
Based Bundles

UPGRADE PACKS

- 430TX motherboard, Winchip 200 & Fan£79+VAT (£92.83)
- 430TX motherboard, Winchip 200, Fan & Case£99+VAT (£116.33)

- Chaintech 6BTM Motherboard, Celeron 333, Cooler, 64Mb PC100 SDRAM ..£269+VAT (£316.08)
- Chaintech 6BTM Motherboard, Pentium II-350, Cooler, 64Mb PC100 SDRAM...£399+VAT (£468.83)
- Chaintech 6BTM Motherboard, Pentium II-400, Cooler, 128Mb PC100 SDRAM.£599+VAT (£703.83)

Chaintech 6ESA Motherboard, Celeron 333MHz, Cooler & 32Mb£199+VAT (£233.83)

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	
Mid tower	Baby AT	2x3.5"	3x5.25" 2x3.5"	£29+VAT (£34.68)
Desktop	ATX	4x3.5"	2x5.25" 2x3.5"	£59+VAT (£69.33)
Mid tower	ATX	3x3.5"	2x5.25" 3x3.5"	£49+VAT (£57.58)

120MB FLOPPY DRIVE

- LS-120 internal with controller card£79+VAT (£92.83)
- LS-120 internal no controller card£55+VAT (£64.63)
- 120Mb floppy disk£14+VAT (£16.45)
- Panasonic 1.44Mb floppy disk drive.....£15+VAT (£17.63)

PROCESSORS

- K6-233 MMX£55+VAT (£64.63)
- K6-266 MMX£64+VAT (£75.20)
- K6-300 MMX£75+VAT (£86.13)
- Celeron 266£59+VAT (£69.33)
- Celeron 300£79+VAT (£92.83)
- Celeron 333£155+VAT (£182.13)
- Pentium II 350£235+VAT (£276.13)
- Pentium II 400£379+VAT (£445.33)

STORAGE & BACKUP

- omega ditto tape drives:**
 - Tapes for ditto 2Gb3 pack £39+VAT (£45.83)
 - Tapes for ditto 3.2Gb£25+VAT (£29.38)
- omega ditto Max tape drives:**
 - Tapes for ditto Max 7Gb2 pack £35+VAT (£41.13)
 - 10Gb internal£184+VAT (£216.20)
 - Tapes for ditto Max 10Gb£22+VAT (£25.85)
- All ditto capacities quoted are with 2x compression
- omega sip drives:**
 - Zip ext drive 'parallel port'£95+VAT (£111.63)
 - Zip ext SCSI£95+VAT (£111.63)
 - Zip plus ext drive£125+VAT (£146.83)
 - Cartridge for zip drive£12+VAT (£14.10)
 - Cartridge for zip drive6 pack £55+VAT (£64.63)
 - Battery pack for zip drive£49+VAT (£57.58)
- omega 1Gb jaz drives:**
 - Cartridge£69+VAT (£81.08)
- omega 2Gb jaz drives:**
 - Internal£349+VAT (£410.08)
 - external£419+VAT (£492.33)
 - SCSI card£69+VAT (£81.08)
 - Cartridge3 pack £279+VAT (£327.83)

MEMORY MODULES

- 4Mb 72-pin£12+VAT (£14.10)
- 8Mb 72-pin£19+VAT (£22.33)
- 16Mb 72-pin£35+VAT (£41.13)
- 4Mb EDO£11+VAT (£12.43)
- 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)
- Twinhead Slimnote memory
- 8Mb for SL7£39+VAT (£45.83)
- 16Mb for SL7£59+VAT (£69.33)
- 32Mb for SL7£109+VAT (£128.03)
- 16Mb for SL9£59+VAT (£69.33)

- hp** SureStore 1224Gb DAT drive£799+VAT (£938.83)
- Seagate** 120m DAT tape£25+VAT (£29.38)
- 48Gb Internal DAT drive£650+VAT (£763.75)

HARD DISKS & CONTROLLERS

Optional installation kdt (5.25" mounting bracket plus cables)...£10+VAT (£11.75)

Quantum

- Fireball EL 7.6Gb Ultra-ATA£169+VAT (£198.58)
- Fireball EL 10.2Gb Ultra-ATA£219+VAT (£257.33)
- 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)
- 4.3Gb IDE£89+VAT (£104.58)
- 6.4Gb IDE£112+VAT (£131.60)

SAMSUNG ELECTRONICS

- Promise PCI Ultra ATA controller£49+VAT (£57.58)

MODEMS

Quality hardware voice modems

- Internet access starter pack: includes full internet and World Wide Web access software, with first month membership free and 10 hours free on-line time
- Cables included
- K56flex units include SuperVoice software

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
- 32 bit VxD CAPI 2.0 driver
- Answering machine
- Telephone book/call log
- Telephone through port
- RVS-COM software for Windows 95/NT provides Microsoft Internet Explorer, Fax group 3 reception/transmission, and E-mail

56 Voice Internal£79+VAT (£92.83)

- 56 Voice external (supports UK caller ID) ...£109+VAT (£128.03)
- 56 PCMCIA£99+VAT (£116.33)
- 56 Solo£155+VAT (£182.13)

Robotics

- Sportster Message Plus£135+VAT (£158.83)
- Courier ISDN internal£259+VAT (£304.33)
- Courier ISDN external£259+VAT (£304.33)

All modems include internet connection software with free trial connection period.

Network Products

- Plug-N-Play ethernet adaptor£19+VAT (£22.33)
- PCI ethernet adaptor£29+VAT (£34.06)
- PCMCIA ethernet adaptor£59+VAT (£69.33)
- Sportster 56.6 Flash external£92+VAT (£108.10)
- RVS-COM software for Windows 95/NT provides Microsoft Internet Explorer, Fax group 3 reception/transmission, and E-mail

Pro 10/100 PCI£55+VAT (£64.63)

- Pro 10/100 PCI5 pack £259+VAT (£304.33)
- 10Mbps 5 port hub£45+VAT (£52.86)
- 10Mbps 8 port hub with BNC£65+VAT (£76.38)
- 100Mbps 4 port fast hub£135+VAT (£158.83)
- 100Mbps 8 port fast hub£259+VAT (£304.33)
- 100Mbps 8 port fast hub with 10/100 bridge port£485+VAT (£589.88)
- 10Mbps 8 port switch£385+VAT (£468.83)
- 10Mbps 8 port switch with two 10/100 bridge ports£499+VAT (£596.33)

Internal station£275+VAT (£323.13)

- The cost effective way to share an 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)

- 3Com 3C509 Combo£75+VAT (£88.13)
- 3C589 PCMCIA Combo£119+VAT (£139.83)
- OfficeConnect products:
- 3C16704 Hub TP4£51+VAT (£59.83)
- 3C16700 Hub 8/TP0£79+VAT (£92.83)
- 3C16702 Hub TP16C£175+VAT (£205.83)
- 3C16720 Hub 8/TP100£485+VAT (£589.88)

UPSs

Protect your installation from mains power faults with an uninterruptible power supply.

Station series UPSs

- Reliable protection from mains surges, spikes, noise and failure
- Interface port and power management software for automatic system shutdown and remote alarm notification by paging/email
- Station 280 (280VA)£99+VAT (£116.33)
- Station 650 (650VA)£189+VAT (£228.00)
- Station 420 (420VA)£129+VAT (£151.58)
- Station 1000 (1kVA)£249+VAT (£292.54)

System series on-line UPSs

- PowerSave software and intelligent interface allows comprehensive monitoring and control, plus automated alarm and shutdown routines
- System 1000 (1kVA)£999+VAT (£703.83)
- System 3000 (3kVA)£1249+VAT (£1467.50)

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Web: <http://www.evesham.com>

LEXMARK AN AWARD WINNING COMBINATION AGFA



- 1200 x 1200 dpi
- 8 pages per minute
- Waterproof Black Ink
- Photo cartridge compatible
- On-screen ink level indicator
- Dual cartridge system

5700 Colour Jetprinter

Mustek DIGITAL CAMERA

Superb colour pictures – straight into your PC (No fuss, no films, no developing costs, and no scanner required!)

- Capture vibrant colour images any time, any place for instant use with your PC or laptop
- Use it to build-up your family album, or create flyers, adverts, newsletters, reports, or for property guides or insurance claims
- Simple point and shoot operation – fixed focus lens and automatic exposure
- 1.8" colour LCD screen for viewing and picture review
- Up to 640x480 resolution with 24 bit colour
- Fixed focus lens – 250mm to infinity
- Built-in 2Mb flash memory

Store up to 48 images in memory, then download to your PC with the serial cable supplied

Internal slot supports CF card for extra memory

Auto flash

Preview the output image on the camera, a PC or your TV screen

Complete with batteries, image editing software, TWAIN driver, carry pouch and Mains supply!

System requirements: 486 or higher processor, Windows 3.1 or higher, 3.5" floppy disk drive, hard disk drive with at least 15Mb available, 8Mb RAM or higher, 256 colour VGA display or higher, RS232 serial port

Mustek FLATBED SCANNING

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

Requirements: Pentium processor, Windows 95, mouse, CD-ROM drive, SVGA graphics or higher, at least 16Mb RAM, and hard disk with at least 70Mb free

PC FORMAT

"The handled software is impressive... The scans themselves are satisfying and higher than you could reasonably expect for the price. The design of the case is sleek and it's compact enough to fit on the smallest desktop." Mustek 600

"Mono text has excellent contrast and super-sharp lines; photographic reproduction is second in none!"

"In terms of Photographic reproduction the Mustek 1200 returned to the top of the tree, superbly capturing the colour and in particular the detail, of our test photograph." Mustek 1200

"As far as output quality is concerned the Scanexpress 1200P is a good choice... and a cost effective one as well." Quality 5% Value for money 5% Mustek 1200

SYMBOL OF EXCELLENCE WINNER

VIDEO CARDS

canopus Pure3D 6Mb 3Dfx.....£69+VAT (£81.08)

Pure3D II LX 12Mb Voodoo II 3Dfx.....£169+VAT (£198.58)

DVRex-M1 The complete DV editing system.....£1899+VAT (£2231.33)

DVRex-M2 option board.....£300+VAT (£352.50)

See the EveshamVale MovieStation on page 4 for full details

3D Charger 2Mb (PCI Bus).....£25+VAT (£29.38)

3D Charger 4Mb (PCI Bus).....£33+VAT (£38.78)

3D Charger 4Mb (AGP Bus).....£34+VAT (£39.95)

All-in-Wonder Pro 8Mb (AGP).....£109+VAT (£128.88)

Xpert 98 8Mb (AGP).....£49+VAT (£58.58)

ATI TV (TV tuner card).....£69+VAT (£81.08)

CREATIVE Voodoo 2 8Mb.....£145+VAT (£170.38)

Voodoo 2 12Mb.....£175+VAT (£205.53)

EveshamVale 4Mb 3DFX card.....£49+VAT (£57.58)

matrox Millennium G200 8Mb SDRAM.....£59+VAT (£69.33)

FM RADIO

EveshamVale FM Radio.....£25+VAT (£29.38)

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 01 855 4444 Fax: 01 855 4440

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HP OfficeJet 635 **£390+VAT** (£458.25)



All in one colour printer, plain paper fax, scanner and copier

- PRINT ■ 600x600dpi black with REi
- 600x300dpi colour with ColourSmart
- Versatile media handling including envelopes
- FAX ■ Plain paper and PC faxing ■ 100 speed dials
- Approx 65 page memory
- Confirmation and activity reports

SCAN ■ 300dpi optical (1200dpi interpolated) ■ 24-bit colour ■ 256 greyscale ■ OCR software included ■ TWAIN interface

COPY ■ 600x300dpi text ■ 300x300dpi graphics/photos ■ Sheet-fed design ■ Up to 99 copies from original

HP DeskJet 720C



£167+VAT (£196.23)

The colour business printer that does it all

- HP's PhotoREi II and ColourSmart II give outstanding results every time ■ Up to 8ppm black, up to 4ppm colour ■ Supports Intel's MMX technology for faster colour printing ■ Designed for MS Windows 3.1x/95/NT4 ■ Amazingly quiet ■ 1000 page per month duty cycle

HP DeskJet 400L.....£75+VAT (£98.15)	HP DeskJet 890.....£213+VAT (£256.20)
HP DeskJet 340.....£145+VAT (£170.36)	HP LaserJet 6 L.....£249+VAT (£292.58)
HP DeskJet 690C.....£103+VAT (£121.03)	HP LaserJet 6 P.....£493+VAT (£574.56)
HP DeskJet 690Plus.....£119+VAT (£136.83)	HP LaserJet 2000.....£490+VAT (£575.70)
HP DeskJet 690C with EasyPhoto Reader.....£172+VAT (£202.10)	HP LaserJet 4000.....£749+VAT (£886.08)
HP DeskJet 710.....£143+VAT (£168.03)	HP LaserJet 5000.....£979+VAT (£1156.33)
	HP LaserJet 5000 N.....£1399+VAT (£1643.83)



HEWLETT PACKARD
 Authorised Reseller
 Personal Computer Products

LEXMARK

Colour Jetprinters

1100 Colour Jetprinter With Disney's Print Studio CD-ROM...£84.25+VAT (£98.99)
3200 Colour Jetprinter.....£126.81+VAT (£149)
5700 Colour Jetprinter.....£159+VAT (£186.83)
Photo-Print cartridge for 3200.....£28+VAT (£32.90)
Photo-Print cartridge for 5700.....£28+VAT (£32.90)

PRINTING

INK, TONER & OSM

Black ink cartridges	DeskJet 720, 880, 990, OfficeJet Pro 1150, 1120.....£19+VAT (£22.33)
51.....£19+VAT (£22.33)	DeskJet 400 series, 500 series, OfficeJet 350.....£19+VAT (£22.33)
51629A.....£19+VAT (£22.33)	DeskJet 400 series, OfficeJet 635.....£19+VAT (£22.33)
51630A.....£19+VAT (£22.33)	DeskJet 1200, 1600C, 1600CM.....£22+VAT (£25.85)
51440A.....£22+VAT (£25.85)	
Colour ink cartridges	DeskJet 720, 880, 1120.....£20+VAT (£23.50)
C-225A.....£20+VAT (£23.50)	DeskJet 200, 870, 1100, OfficeJet Pro 1150.....£24+VAT (£28.20)
51629A.....£19+VAT (£22.33)	DeskJet 890 series, OfficeJet 635.....£22+VAT (£25.85)
51640A.....£22+VAT (£25.85)	
Photo cartridge for DeskJet 690	£26+VAT (£34.08)
Cyan cartridge for DeskJet 1200, 1600C, 1600CM.....£21+VAT (£24.66)	
Magenta cartridge for DeskJet 1200, 1600C, 1600CM.....£21+VAT (£24.66)	
Yellow cartridge for DeskJet 1200, 1600C, 1600CM.....£21+VAT (£24.66)	
Black laser toner	LaserJet 5L, 6L, 3100.....£46+VAT (£52.88)
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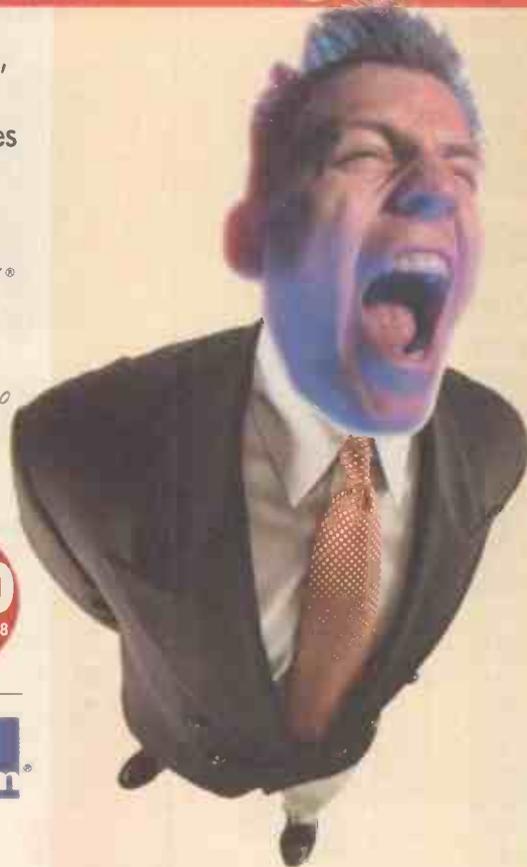


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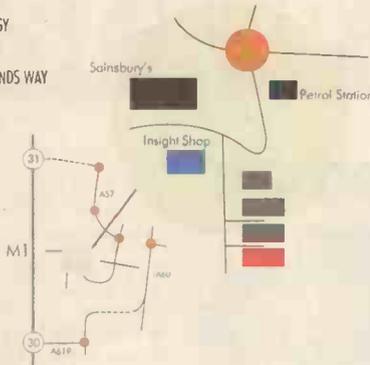


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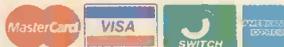
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HP 620LX
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PTH11
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HP 620LX PalmTop

Building on its leadership position in the handheld industry, HP's newest palmtop PC adds to HP's complete line of palmtop PCs, which are true enterprise companions as they address the needs of today's mobile professionals. It comes with 16MB of RAM and Windows CE 2.0 functionality, allowing users to insert a VGA-out card (sold separately) for on-the-road presentations. It also includes a dedicated storage slot for a CompactFlash card, leaving the PC card slot free for a modem connection, LAN connection or another memory card. This flexibility enables users to choose the type and speed of modem that best suits their needs, protecting their investment.



COMPAQ C-SERIES

It's the World's First Professional Handheld PC!

For over a decade Compaq has developed technologies, products and solutions that customers want and need - From high-end servers through to portables. Now Compaq extends its range to fulfil the demands of the highly mobile professional. The new C-Series - the first truly professional handheld PC. It offers a wealth of features specially designed for the mobile professional, including: a wide choice of connectivity methods; robust security features and a design that offers speed, compactness and ease-of-use. Using the C-Series is just like using the most essential features of the PC on your desk. In addition to its rich feature set, the C-Series has been completely designed and produced by Compaq so you can bank on our proven quality, service and support.

- **Connectivity** - Even when away from your PC, you can access the network and reach the files you need, when you need them.
- **Communication** - Read and write e-mails, send faxes or even surf the Web at any time. Benefit from long battery life thanks to the unique 33.6 Kbps integrated low-power modem.
- **Security** - Business-critical information is safeguarded by intelligent and robust security features. Reducing your Total Cost of Ownership - Standard software, compatibility and asset management functions let the C-Series integrate seamlessly with your existing network.
- **Options for a Complete Solution** - Make the C-Series work the way you want with an impressive range of hardware and software options.
- Windows CE 2.0

C-SERIES			
HAC001	C-SERIES 810 - 8Mb - MONO	£359.00	£421.83
HAC002	C-SERIES 810C - 8Mb - 256 COLOUR	£425.00	£499.38
HAC003	C-SERIES 2010C - 20Mb - 256 COLOUR	£489.00	£574.58
HAC004	CARRY CASE	£39.00	£45.83

HAC001 8MB MONO
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The Palm III™ connected organizer is the third generation of the award-winning line of small, smart connected organizers from 3Com®.

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PalmPilot

The Connected Organizer

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USM35 Targus A4 Case	£79.00	£92.83
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USM45 Delux III Case	£45.00	£52.88

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NOTEBOOKS

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Libretto 100CT	LAP1525	P166	7.1" TFT	32	2.1Gb	No	No	£1089	£1279.58
Satellite 320CDS	LAP1530	P233 MMX	12.1" DSTN	32	2.1Gb	16x	No	£835	£981.13
Satellite 320CDT	LAP1531	P233 MMX	12.1" TFT	32	2.1Gb	16x	No	£1089	£1279.58
S/Pro 460CDX	LAP1519	P166 MMX	12.1" DSTN	32	2.1Gb	10x	No	£999	£1173.83
S/Pro 480CDT	LAP1512	P233 MMX	12.1" TFT	32	4.1Gb	10x	No	£1599	£1878.83
S/Pro 490CDT	LAP1540	P233 II	12.1" TFT	32	4.1Gb	20x	No	£1679	£1972.83
S/Pro 490XCDT	LAP1535	P266 II	13.3" TFT	32	3.8Gb	20x	No	£1929	£2266.58
S/Pro 4000CDS	LAP1530	P233 II	12.1" DSTN	32	3.8Gb	24x	No	£CALL	£CALL
S/Pro 4000CDT	LAP1551	P233 II	12.1" TFT	32	3.8Gb	24x	No	£CALL	£CALL
Tetra 8000-0	LAP1529	P233 II	12.1" DSTN	32	3.8Gb	24x	No	£CALL	£CALL
Tetra 8000-1b	LAP1553	P266 II	13.3" TFT	64	3.8Gb	24x	No	£CALL	£CALL
Tetra 8000-1c	LAP1554	P300 II	13.3" TFT	64	3.8Gb	24x	No	£CALL	£CALL
Tetra 8000-1d	LAP1555	P300 II	14.1" TFT	64	7.6Gb	24x	No	£CALL	£CALL
Tetra 7800DV	LAP1533	P266 II	13.3" TFT	64	8.1Gb	16x	Yes	£2949	£3465.08

IBM® 380E/ED and 770 Series

ThinkPad 380XD	LAP184	PII 233	12.1" TFT	32	4.0Gb	24x	No	£1282	£1506.35
ThinkPad 380XD	LAP1842	P233 MMX	12.1" TFT	32	4.0Gb	24x	No	£1321	£1552.18
ThinkPad 380XD	LAP1843	PII 266	12.1" TFT	32	5.0Gb	24x	No	£1715	£2015.13
ThinkPad 560X	LAP1811	P233 MMX	12.1" TFT	32	4.0Gb	No	No	£1792	£2105.60
ThinkPad 600	LAP1841	P233 MMX	13.0" HPA	32	3.2Gb	24x	No	£1481	£1740.18
ThinkPad 600	LAP1840	P233 II	13.3" TFT	32	3.2Gb	24x	No	£2131	£2503.93
ThinkPad 600	LAP1822	P266 II	13.3" TFT	32	4.0Gb	24x	No	£2378	£2794.15
ThinkPad 770e	18D58942	P266 II	14.1" TFT	32	5.1Gb	No	No	£2335	£2743.63
ThinkPad 770ed	18D58994	P266 II	14.1" TFT	64	8.1Gb	DVD	No	£2825	£3319.38

COMPAQ

Armada 1590DT	LAP16	P166 MMX	12.1" TFT	16	2.1Gb	20x	No	£999	£1173.83
Armada 1592DT	LAP127	P233 MMX	12.1" TFT	32	3.2Gb	20x	No	£1221	£1434.68
Armada 5200SB	LAP160	P200 MMX	12.1" DSTN	32	3.2Gb	20x	No	£1219	£1432.33
Armada 5235SB	LAP161	P233 MMX	12.1" DSTN	32	4.0Gb	20x	No	£1400	£1645.00
Armada 4150	LAP107	P150 MMX	12.1" TFT	16	1.6Gb	No	No	£1139	£1338.33
Armada 4210T	LAP128	P233 MMX	12.1" TFT	32	3.2Gb	No	No	£1484	£1743.70
Armada 4220T	CP074123	P266 MMX	12.1" TFT	32	4.0Gb	No	No	£1659	£1949.33
Armada 1700	LAP162	PII 233	12.1" TFT	32	4.0Gb	24x	Yes	£1484	£1743.70
Armada 1700	LAP163	PII 233	12.1" TFT	32	4.0Gb	24x	No	£1484	£1743.70
Armada 1700	LAP164	PII 266	13.3" TFT	32	4.0Gb	24x	No	£1833	£2153.78
Armada 7330DMT	LAP19	P150 MMX	12.1" TFT	16	2.1Gb	No	No	£1482	£1741.35
Armada 7380DMT	LAP19-7	P266 MMX	12.1" TFT	32	4.0Gb	20x	Yes	£3612009	£2360.58
Armada 7710MT	LAP13	P150 MMX	12.1" TFT	16	1.6Gb	No	No	£3612099	£1526.33
Armada 7792DMT	CP074123	P266 MMX	13.3" TFT	32	5.0Gb	20x	Yes	£3612097	£2463.98
Armada 7800	CP074123	PII 266	13.3" TFT	64	5.0Gb	20x	No	£2448	£2876.40
Armada 7800	CP074123	PII 266	14.1" TFT	64	8.0Gb	24x	No	£2797	£3286.48

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Omnibook 2100	LAPHP52	P233 MMX	12.1" TFT	32	3.2Gb	20x	No	£1419	£1667.33
Omnibook 3100	LAPHP53	P266 MMX	13.3" TFT	32	4.0Gb	20x	No	£2007	£2358.23
Omnibook 4100	LAPHP54	PII 233	13.3" TFT	32	4.0Gb	20x	No	£2120	£2491.00
Omnibook 4100	HP4826	PII 266	14.1" TFT	32	4.0Gb	20x	No	£2447	£2875.23
Omnibook 4100	LAPHP55	P266 MMX	14.1" TFT	32	4.0Gb	20x	No	£2202	£2587.35
Omnibook 4100	LAPHP56	PII 266	14.1" TFT	32	6.4Gb	20x	No	£2610	£3066.75
Omnibook 7100	LAPHP57	P266 II	14.1" TFT	32	6.4Gb	20x	No	£2683	£3152.53
Omnibook 7100	LAPHP58	P266 II	14.1" TFT	32	8.0Gb	20x	No	£2919	£3429.83
Omnibook Sojourn	LAPHP59	P233 MMX	12.1" TFT	64	2.1Gb	20x	No	£3059	£3594.33

TWINHEAD SLIMNOTES

SL9TE-23TZ	LAPTW23	P233 MMX	12.1" TFT	32	3.1Gb	20x	No	£1109	£1303.08
SLEX-20TG	LAPTW11	P200 MMX	13.3" TFT	32	2.1Gb	20x	No	£1309	£1538.08
SLEX-23TG	LAPTW12	P233 MMX	13.3" TFT	32	3.1Gb	20x	No	£1459	£1714.33
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SLEK-26TG	LAPTW15	P266 MMX	13.3" TFT	64	4.0Gb	20x	No	£1649	£1937.58
SLE2-26TG	LAPTW16	P266 II	13.3" TFT	64	3.1Gb	20x	No	£1759	£2066.83
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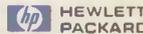
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ThinkPad 600
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LAP1841

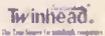
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TWINHEAD SLIMNOTES

Twinhead SL9TE-23TZ
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Twinhead SLEX-26TG
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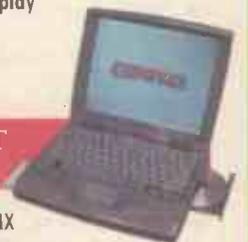
LAP160

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M3200/W95	BRC0012	Pentium®II 333	NO	32Mb SDRAM	3.2Gb	24x	512K	ATI RAGE IIC	WIN 95	£828.00	£972.90
M6400/W95	BRC0013	Pentium®II 400	NO	64Mb SDRAM	6.4Gb	24x	512K	ATI RAGE PRO	WIN 95	£1165.00	£1368.88
M6400/W95	BRC0015	Pentium®II 350	NO	64Mb SDRAM	6.4Gb	24x	512K	ATI RAGE PRO	WIN 95	£1045.00	£1227.88

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M6400/WNT	BRC0005	Pentium®II 350	NO	32Mb SDRAM	6.4Gb	Opt.	512K	ATI RAGE Pro AGP 2X	Win NT	£1130.00	£1327.75
M6400/W95	BRC0006	Pentium®II 350	NO	32Mb SDRAM	6.4Gb	Opt.	512K	ATI RAGE Pro AGP 2X	Win 95	£1086.00	£1276.05
M6400CDS/W95	BRC0007	Pentium®II 350	NO	64Mb SDRAM	6.4Gb	24X	512K	ATI RAGE Pro AGP 2X	Win 95	£1174.00	£1379.45
M6400CDS/W95	BRC0008	Pentium®II 400	NO	64Mb SDRAM	6.4Gb	24X	512K	ATI RAGE Pro AGP 2X	Win 95	£1328.00	£1560.40

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Equium 7000S	PCTS11	Pentium®II 300	NO	32Mb	4.3Gb	24X	256K	ATI 3D RAGE AGP 2Mb	Win 95	£685.00	£804.87
Equium 7000S	PCTS15	Pentium®II 300	NIC	32Mb	4.3Gb	24X	256K	ATI 3D RAGE AGP 2Mb	Win 95	£728.00	£855.40
Equium 7000D	PCTS13	Pentium®II 300	NO	32Mb	4.3Gb	24X	256K	ATI 3D RAGE AGP 2Mb	Win 95	£728.00	£855.40
Equium 7100S	PCTS19	Pentium®II 400	NO	64Mb	4.3Gb	24X	512K	ATI 3D RAGE AGP 2Mb	Win 95	£954.00	£1120.95
Equium 7100D	PCTS20	Pentium®II 400	NO	64Mb	4.3Gb	24X	512K	ATI 3D RAGE AGP 2Mb	Win 95	£997.00	£1171.47

TOSHIBA MONITORS

MOTS1 RC4P	15" Autostan monitor									£189.00	£222.08
MOTS2 RC4P	17" Autostan monitor									£329.00	£386.58

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HP Brio 8213	PCHP30	Pentium® 233 MMX	NO	16Mb	4.0Gb	Opt.	256K	S3 Trio64V2	Win 95	£439.00	£515.83
HP Brio 8314	PCHP31	Pentium® 266 celeron	NO	32Mb	2.1Gb	Opt.	256K	S3 Trio64V2	Win 95	£445.00	£522.88
HP Brio 8338	PCHP32	Pentium® II 300	NO	32Mb	4.0Gb	32X	256K	S3 Trio64V2	Win 95	£769.00	£903.58
HP Brio 8377	PCHP33	Pentium® II 266	NO	32Mb	4.0Gb	32X	256K	S3 Trio64V2 & 56k modem	Win 95	£862.00	£1012.85
HP Brio 8532N	HP943B043	Pentium® II 400	NO	64Mb	8.0Gb	32X	256K	S3 Trio64V2	Win NT	£1219.00	£1432.33
HP Brio 8379	HP949553	Pentium® II 333	NO	32Mb	8.0Gb	32X	256K	MGA 4Mb	Win 95	£1169.00	£1373.57

SIEMENS SCENIC RANGE

ProD6	PCSN20	Pentium® 266 celeron	15"	16Mb	2.1Gb	Opt.	512K	ATI VT4 2Mb	Win 95	£519.00	£609.83
ProD6	PCSN19	Pentium® II 266	15"	32Mb	2.1Gb	Opt.	512K	ATI VT4 2Mb	Win 95	£619.00	£727.33
ProC6	PCSN26	Pentium® II 300 celeron	15"	32Mb	4.3Gb	32X	512K	ATI VT4 2Mb	Win 95	£699.00	£821.32
ProD6	PCSN27	Pentium® II 333	ND	32Mb	4.3Gb	32X	512K	MGA G100 2Mb	Win 95	£875.00	£1028.12
EDITION	PCSN28	Pentium® II 400	NO	32Mb	6.4Gb	32X	512K	MGA G100 2Mb	Win 95	£1124.00	£1320.70

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Deskpro EP M3200/W95	BRC0012	Intel Pentium II 333	32Mb SDRAM	3.2Gb HDD	24x CD ROM	ATI RAGE IIC	WIN 95	£828.00	£972.90
Deskpro EP M6400/W95	BRC0013	Intel Pentium II 400	64Mb SDRAM	6.4Gb HDD	24x CD ROM	ATI RAGE PRO	WIN 95	£1165.00	£1368.88
Deskpro EP M6400/W95	BRC0015	Intel Pentium II 350	64Mb SDRAM	6.4Gb HDD	24x CD ROM	ATI RAGE PRO	WIN 95	£1045.00	£1227.88

COMPAQ

Deskpro EN Series



Deskpro EN M3200/W95	BRC0004	Intel Pentium II 333	32Mb SDRAM	3.2Gb HDD	ATI RAGE AGP 1X	WIN 95	£918.00	£1078.65
Deskpro EN M6400/WNT	BRC0005	Intel Pentium II 350	32Mb SDRAM	6.4Gb HDD	ATI RAGE PRO AGP 2X	WIN NT	£1086.00	£1276.05

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- 32Mb EDO RAM
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- 24x CD ROM
- ATI 3D RAGE AGP 2Mb VIDEO CARD
- WINDOWS 95

Toshiba Equium 7100S

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PCTS16

- Intel Pentium II 350
- 64Mb EDO RAM
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- 24x CD ROM
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Toshiba Equium 7100D

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PCTS18

- Intel Pentium II 350
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PCHP33

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- WINDOWS 95

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HP943B043

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- ATI VT4 2Mb VIDEO CARD
- WINDOWS 95

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Siemens ProC6

£598.00 £702.65

PCSN24

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TDC20	DITTO MAX 7GB MEDIA	£18.00	£21.15
TDC30	DITTO MAX 10GB MEDIA	£22.00	£25.85
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T41	DC2120XL 350MB	£11.00	£12.93
T42	QIC WIDE 420MB	£12.00	£14.10
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TDLT20	DLT 20/40GB MEDIA	£75.00	£88.13
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D2

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OP130	1.3GB 5.25" OPTICAL	£23.00	£27.03
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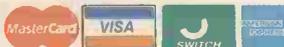
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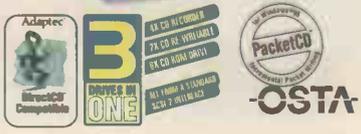
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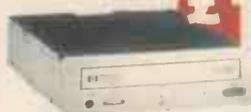
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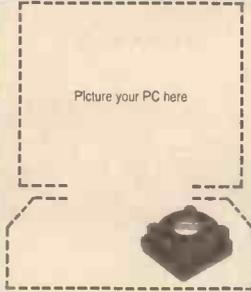
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* System requirements of Windows 98: 486 DX2/66, 16 MB RAM memory. ** 5-Pack includes 5 Upgrade Modules, 5 Install Disks (376) or 1 Utility Disk (242), 1 Installation Guide, 1 Removal Tool (242).

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SKU	SIZE	CODE	TYPE	ACCESS	CACHE	SPIN	FF	WARRANTY	NOTES	EX VAT	INC VAT
MEDALIST PRO SCSI DRIVES											
HASE004	4.55Gb	Medalist Pro ST34520N	SCSI	9.5ms	512k	7200	3.5	3 Yrs	Ultra SCSI 3 / NARROW	£169.00	£198.58
HASE003	4.55Gb	Medalist Pro ST34520W	SCSI	9.5ms	512k	7200	3.5	3 Yrs	Ultra SCSI 3 / WIDE	£179.00	£210.33
HASE005	6.5Gb	Medalist Pro ST36530N	SCSI	9.5ms	512k	7200	3.5	3 Yrs	Ultra SCSI 3 / NARROW	£215.00	£252.63
HASE006	6.5Gb	Medalist Pro ST36530W	SCSI	9.5ms	512k	7200	3.5	3 Yrs	Ultra SCSI 3 / WIDE	£259.00	£304.33
HASE007	9.1Gb	Medalist Pro ST39140N	SCSI	9.5ms	512k	7200	3.5	3 Yrs	Ultra SCSI 3 / NARROW	£317.00	£372.48
HASE008	9.1Gb	Medalist Pro ST39140W	SCSI	9.5ms	512k	7200	3.5	3 Yrs	Ultra SCSI 3 / WIDE	£317.00	£372.48
BARRACUDA SCSI DRIVES											
HASE009	4.55Gb	Barracuda ST34573N	SCSI	7.1ms	512k	7200	3.5	5 Yrs	Ultra SCSI 3 / NARROW	£279.00	£327.83
HASE010	4.55Gb	Barracuda ST34573W	SCSI	7.1ms	512k	7200	3.5	5 Yrs	Ultra SCSI 3 / WIDE	£318.00	£373.65
HASE033	4.55Gb	Barracuda ST34573WC	SCSI	7.1ms	512k	7200	3.5	5 Yrs	Ultra Wide Single Connector	£318.00	£373.65
HASE035	4.55Gb	Barracuda ST34573LW	SCSI	7.1ms	1024k	7200	3.5	5 Yrs	Ultra 2 Wide	£318.00	£373.65
HASE036	4.55Gb	Barracuda ST34573LC	SCSI	7.1ms	1024k	7200	3.5	5 Yrs	Ultra 2 Wide Single Connector	£318.00	£373.65
HASE037	4.55Gb	Barracuda ST34573FC	SCSI	7.1ms	1024k	7200	3.5	5 Yrs	Fiber Channel	£345.00	£405.38
HD911-S	9.1Gb	Barracuda ST39173N	SCSI	7.1ms	512k	7200	3.5	5 Yrs	Ultra SCSI 3 / NARROW	£389.00	£457.08
HD911-SW	9.1Gb	Barracuda ST39173W	SCSI	7.1ms	512k	7200	3.5	5 Yrs	Ultra SCSI 3 / WIDE	£389.00	£457.08
HASE002	9.1Gb	Barracuda ST39173WC	SCSI	7.1ms	512k	7200	3.5	5 Yrs	Ultra Wide Single Connector	£389.00	£457.08
HASE038	9.1Gb	Barracuda ST39173WD	SCSI	7.1ms	512k	7200	3.5	5 Yrs	Ultra Wide Differential	£455.00	£511.13
HASE039	9.1Gb	Barracuda ST39173LW	SCSI	7.1ms	1024k	7200	3.5	5 Yrs	Ultra 2 Wide	£415.00	£487.63
HD913-SW	9.1Gb	Barracuda ST39173LC	SCSI	7.1ms	1024k	7200	3.5	5 Yrs	Ultra 2 Wide Single Connector	£415.00	£487.63
HASE040	9.1Gb	Barracuda ST39173FC	SCSI	7.1ms	1024k	7200	3.5	5 Yrs	Fiber Channel	£415.00	£487.63
HASE041	18.2Gb	Barracuda ST118273N	SCSI	7.6ms	512k	7200	3.5x1.6	5 Yrs	Ultra SCSI 3 / NARROW	£719.00	£844.83
HASE042	18.2Gb	Barracuda ST118273W	SCSI	7.6ms	512k	7200	3.5x1.6	5 Yrs	Ultra SCSI 3 / WIDE	£719.00	£844.83
HASE043	18.2Gb	Barracuda ST118273WC	SCSI	7.6ms	512k	7200	3.5x1.6	5 Yrs	Ultra Wide Single Connector	£719.00	£844.83
HASE044	18.2Gb	Barracuda ST118273WD	SCSI	7.6ms	512k	7200	3.5x1.6	5 Yrs	Ultra Wide Differential	£759.00	£891.83
HASE032	18.2Gb	Barracuda ST118273LW	SCSI	7.6ms	1024k	7200	3.5x1.6	5 Yrs	Ultra 2 Wide	£739.00	£868.33
HASE031	18.2Gb	Barracuda ST118273LC	SCSI	7.6ms	1024k	7200	3.5x1.6	5 Yrs	Ultra 2 Wide Single Connector	£739.00	£868.33
HASE030	18.2Gb	Barracuda ST118273FC	SCSI	7.6ms	1024k	7200	3.5x1.6	5 Yrs	Fiber Channel	£739.00	£868.33
CHEETAH SCSI DRIVES											
HD460-S	4.55Gb	Cheetah ST34501N	SCSI	7.5ms	512k	10,033	3.5	5 Yrs	Ultra SCSI 3 / NARROW	£339.00	£398.33
HD461-S	4.55Gb	Cheetah ST34501W	SCSI	7.5ms	512k	10,033	3.5	5 Yrs	Ultra SCSI 3 / WIDE	£339.00	£398.33
HASE013	4.55Gb	Cheetah ST34501WD	SCSI	7.5ms	512k	10,033	3.5	5 Yrs	Ultra Wide Differential	£389.00	£457.08
HD461-SG	4.55Gb	Cheetah ST34501WC	SCSI	7.5ms	512k	10,033	3.5	5 Yrs	Ultra Wide Single Connector	£339.00	£398.33
HASE015	4.55Gb	Cheetah ST34501FC	SCSI	7.5ms	1024k	10,033	3.5	5 Yrs	Fiber Channel	£375.00	£440.63
HASE016	4.55Gb	Cheetah ST34502LW	SCSI	5.2ms	1024k	10,025	3.5	5 Yrs	Ultra 2 Wide	£339.00	£398.33
HASE017	4.55Gb	Cheetah ST34502LC	SCSI	5.2ms	1024k	10,025	3.5	5 Yrs	Ultra 2 Wide Single Connector	£339.00	£398.33
HASE019	9.1Gb	Cheetah ST39102LW	SCSI	5.2ms	1024k	10,025	3.5	5 Yrs	Ultra 2 Wide	£479.00	£562.83
HASE020	9.1Gb	Cheetah ST39102LC	SCSI	5.2ms	1024k	10,025	3.5	5 Yrs	Ultra 2 Wide Single Connector	£479.00	£562.83
HASE021	9.1Gb	Cheetah ST39102FC	SCSI	5.2ms	1024k	10,025	3.5	5 Yrs	Fiber Channel	£479.00	£562.83
HD900-S	9.1Gb	Cheetah ST19101N	SCSI	8.0ms	512k	10,033	3.5	5 Yrs	Ultra SCSI 3 / NARROW	£475.00	£558.13
HD900-SW	9.1Gb	Cheetah ST19101W	SCSI	8.0ms	512k	10,033	3.5	5 Yrs	Ultra SCSI 3 / WIDE	£489.00	£574.58
HASE024	9.1Gb	Cheetah ST19101WD	SCSI	8.0ms	512k	10,033	3.5	5 Yrs	Ultra Wide Differential	£519.00	£609.83
HASE025	9.1Gb	Cheetah ST19101WC	SCSI	8.0ms	512k	10,033	3.5	5 Yrs	Ultra Wide Single Connector	£489.00	£574.58
HASE001	18.2Gb	Cheetah ST118202LW	SCSI	5.7ms	1024k	10,025	3.5x1.6	5 Yrs	Ultra 2 Wide	£849.00	£998.58
HASE028	18.2Gb	Cheetah ST118202LC	SCSI	5.7ms	1024k	10,025	3.5x1.6	5 Yrs	Ultra 2 Wide Single Connector	£849.00	£998.58
HASE029	18.2Gb	Cheetah ST118202FC	SCSI	5.7ms	1024k	10,025	3.5x1.6	5 Yrs	Fiber Channel	£849.00	£998.58

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HD431-S5	ST34321A	4.3GB	128K	10.5MS	5400	UDMA33	£83.00	£97.53
HD641-SU	ST36531A	6.4GB	128K	10.5MS	5400	UDMA33	£99.00	£116.33
HD650-S	ST36530A	6.5GB	512K	9.5MS	7200	UDMA33	£125.00	£146.88
HD910-S	ST39140A	9.1GB	512K	9.5MS	7200	UDMA33	£157.00	£184.48



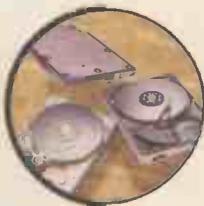
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IC51	3940U ULTRA SCSI MULTI CHANNEL	£254.00 £298.45
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HD310-RW	AC33100RTL	3.1GB	128K	10MS	5200	£113.00	£132.78
HD400-RW	AC4000RTL	4.0GB	128K	10MS	5200	£119.00	£139.83
WD1410357	AC51000RTL	5.1GB	256K	11MS	5400	£135.00	£158.63
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HD910-W	E/PRISE	9.1GB UW	512K <8MS	7200	£419.00	£492.33
HD910-WA	E/PRISE AV	9.1GB UW	1Mb <8MS	7200	£469.00	£551.08
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HD430-W	E/PRISE	4.3GB U	512K <8MS	7200	£229.00	£269.08
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HD570-DM	2880	5.7GB	256K	<9MS	5400	UDMA 33	£94.00	£110.45
HD841-DM	2880	8.4GB	256K	<9MS	5400	UDMA 33	£136.00	£159.80
HD115-DM	2880	11.5GB	256K	<9MS	5400	UDMA 33	£186.00	£218.55

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HAMX002	2880	2.8GB	256K	<9MS	5400	UDMA 33	£105.00	£123.38
HAMX003	2880	4.3GB	256K	<9MS	5400	UDMA 33	£115.00	£135.13
HAMX004	2880	5.7GB	256K	<9MS	5400	UDMA 33	£139.00	£163.33
HAMX005	2880	7.2GB	256K	<9MS	5400	UDMA 33	£179.00	£210.33
HAMX006	2880	11.5GB	256K	<9MS	5400	UDMA 33	£269.00	£316.08

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HAMX008	3400	6.8GB	256K	<9MS	5400	UDMA 33	£104.00	£122.20
HAMX009	3400	10.2GB	256K	<9MS	5400	UDMA 33	£162.00	£190.35
HAMX010	3400	13.6GB	256K	<9MS	5400	UDMA 33	£217.00	£254.98

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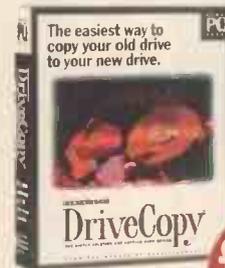
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COURIER I

F97 F97-1 COURIER MODEM

£239.00

£280.83



SPORTSTER ISDN TA

A low-cost ISDN only External adaptor, aimed at corporate remote workers and SOHO users.

F701 SPORTSTER ISDN

£99.00 ex £116.33 inc



Hayes modems

HAYES/BT V.90 INTERNET KIT

The V.90 Internet Kit from BT & Hayes combines speed and reliability with Hayes legendary technology.



Through BT it offers access to:

- BT Internet* - Online Access
- LineOne* - Information Service
- HomeCampus* - Education
- Wireplay - Gaming

*These services are available through 1-3 month FREE trials included in the box.

HS4240266 V.90 BT KIT

£94.49

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ACCURA RANGE

K56 Voice Fax Data Modems

Transmit Data In The Blink Of An Eye

Varying line conditions may result in lower speeds.



FH800 56K MODEM

£82.49

£96.93



FH810 56K MODEM INT

£76.49

£89.88

ISDN TERMINAL ADAPTOR



This External ISDN Adaptor is low cost solution for people who need ISDN facilities. Comes with Hayes 5 Year Product Guarantee.

FH740 ISDN TA

£164.49

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OPTIMA 56K GLOBAL PC CARD

FH785 OPTIMA 56K GLOBAL PCMCIA MODEM

£151.49 ex £178.00 inc



FH785 OPTIMA 56K PCMCIA

£151.49

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PACE 56 VOICE MODEMS

56Kbps voice/fax/data external, internal or PC Card modems

- 56,000bps internet downloads & 33,600bps data transfer
- Voice mail, fax mail & e-mail
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- V90 upgradeable free of charge
- Complete messaging & private mailboxes for multiple users
- External and internal have full duplex 'hands free' speaker phone capability
- PC Card has true hardware implementation, unlike WinModem solutions
- PC Card has ultra low power operation & standby mode
- Incorporates Rockwell™ technology



F511 56K VOICE FROM.
£66.00
£77.55



F522 NB56 PC CARD
£95.00
£111.63

F511	56K VOICE INTERNAL	£66.00	£77.55
F521	56K VOICE EXTERNAL	£86.00	£101.05
F525	56 SOLO	£138.00	£162.15
F522	56K NB VOICE PC Card	£95.00	£111.63
F524	56K Voice External - M.A.C.	£89.00	£104.58
F523	ISDN Terminal Adpt.	£175.00	£205.63

PACE 56 SOLO

- 56kpbs self-memory messaging system
- 56,000bps voice/fax/data modem with on-board memory
 - Receive/store voice & fax messages even with your PC off
 - Stores a combination of approximately 30 minutes of speech or 30 pages of fax
 - V90 upgradeable FREE OF CHARGE!
 - Audible UK calling line identification
 - Hands free speaker phone without your PC



F525 56 SOLO
£138.00
£162.15

pace COLOUR VIDEO CAMERA USB OR PCI

Communications for your desktop!

- Send 'video e-mails' to family and friends
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- PCI version supplied complete with PCI video capture card and accepts input from any camcorder or VCR

F624 VIDEO CAMERA
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£76.38



DIAMOND

MOD120 SUPRAEXPRESS
£65.00
£76.38

SUPRAEXPRESS 56ePRO

High speed external data/fax modem

- Connect to the internet at 56Kbps
- Answer machine functionality
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- Consistently voted best-buy modem
- Ideal for multiplayer gaming via the Internet



Media Force - PowerPacked Modems

Insight is delighted to offer the complete Media Force range of Modems.

Combining incredible value for money with blistering performance they continue to be one of our best selling ranges.



MOGE002 56K EXT VOICE
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MOGE003 56K PCMCIA
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GOLD CARD NETGLOBAL 56K + 10MB ETHERNET

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- Upgradeable to 10Base2
- GSM, ISDN AND V.90 ready
- Ready for GSM & ISDN
- Supports all common Ethernet standards and most common operating systems
- Also available in Gold Card NetGlobal range: Gold Card NetGlobal 10MB, Gold Card NetGlobal 10/100Mb and Gold Card NetGlobal CardBus 10/100Mb.

ISDN UPGRADE
£119+VAT

ISDN & GSM READY

PSD5530344 GOLD CARD 56K
£165.00
£193.88

FP120	GOLD CARD GLOBAL 56k	£152.49	£179.18
PSD5530344	GOLD CARD NETGLOBAL 56k+10MB	£165.00	£193.88
PSION DACOM GOLD CARD GSM UPGRADES			
FP130	NOKIA 2110	£89.00	£104.58
FP140	PANASONIC G350/400/500	£89.00	£104.58
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MONITORS

ADI - see advert for other models

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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

M0745	104010 14" DIGITAL	£75.00	£88.13
M0747	105035 15" FST	£92.00	£108.10
MNBL007	107020 17" FST TCO 95	£155.00	£182.13
M0750	107050 17" DIAMONDTRON TCO 95	£255.00	£299.63
M0751	106090 19" FST TCO 95	£310.00	£364.25
MNBL005	108050 21" FST TCO95 BNC	£546.00	£641.55

CTX

M0610	1451E/VL400 14"	£85.00	£99.88
M0614	15555E/VL510 15"	£95.00	£111.63
M0602	15695E/VL500 15"	£105.00	£123.38
M0611	1569UA/TR500 15" TRINITRON	£159.00	£186.83
M0609	1569MS/MS500 15" INC SPEAKERS	£159.00	£186.83
M0616	17695E/VL700 17"	£189.00	£222.08
M0615	1769MS/MS700 17" INC SPEAKERS	£249.00	£292.58
M0613	17925E/VL710 17"	£249.00	£292.58
M0605	1785XE 17"	£257.00	£297.33
M0612	1792UA/PR710 17" TRINITRON	£329.00	£386.58
M0617	1995UE/VL950T 19"	£369.00	£433.58
M0607	2085XE/EX800 20"	£599.00	£703.83
M0621	CTX PANOVUE 745 14.5 LCD	£599.00	£703.83

IYAMA

M0105	MF8515G VISION MASTER 350 15"	£149.00	£175.08
MN1001	5701GT VISION MASTER 400 17"	£299.00	£351.33
MN1002	A701GT VISION MASTER PRO 400 17"	£315.00	£370.13
M0108	MF8617ES VISION MASTER 17ES 17"	£349.00	£410.08
M0112	5901GT VISION MASTER 450 19"	£439.00	£515.83
M0114	TXA3601GT PROLITE 36 14.1" TFT	£575.00	£675.63

NOKIA

M0315	NOKIA 449XPLUS 15.0 2SDP MON*	£175.00	£205.63
M0316	NOKIA 449XPLUS 15.0 25 "	£185.00	£217.38
M0311	NOKIA 447ZA 17 FST 0.26DP *	£279.00	£327.83
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MNNK001	NOKIA 447X PRO AUDIO 17 "	£339.00	£398.33
MNNK002	NOKIA 446X 19 FST MONITOR *	£465.00	£546.38
M0313	NOKIA 446XPRO 19 FST "	£475.00	£558.13
MNNK003	NOKIA 445XI PLUS 21 FST "	£665.00	£781.38
MNNK004	NOKIA 300XA 13.3 TFT PANEL *	£815.00	£957.63
MNNK005	NOKIA 400XA 14.1 TFT PANEL *	£815.00	£957.63
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PGS009	ARCADIA AR2.7 29" PRESENTATION	£499.00	£586.33
PGS010	DPP500 14" TFT INC 4MB ATI LCD GRAPHICS CARD	£499.00	£586.33

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M0201	SM500S 15"	£99.00	£116.33
M0201	SM500B 15"	£129.00	£151.58
M0204	SM700S 17"	£185.00	£217.38
M0205	SM700P 17"	£295.00	£346.63
SA320TFT	SM320TFT 13.3" TFT PANEL	£505.00	£593.38
SA400TFT	SM400TFT 14.1" TFT PANEL WITH AUDIO	£599.00	£703.83
SA520TFT	SM520TFT 15" TFT PANEL WITH AUDIO	£789.00	£927.08

SONY

M0410	MULTISCAN 100ES 15"	£169.00	£198.58
M0411	MULTISCAN 100GST 15"	£212.00	£249.10
M0413	MULTISCAN 120AS 15"	£289.00	£339.58
M0412	MULTISCAN 200ES 17"	£295.00	£346.63
M0409	MULTISCAN 200GST 17"	£339.00	£398.33
M0415	MULTISCAN 220AS 17"	£425.00	£499.38
MNSY001	MULTISCAN 400PST 19"	£519.00	£609.83
M0406	MULTISCAN 20SEII 20"	£709.00	£833.08
M0416	MULTISCAN 500PST 21"	£815.00	£957.63

TAXAN

M0512	ERGOVISION 430LR 14"	£113.00	£132.78
M0511	ERGOVISION 550 TCO 95 15" FST	£151.00	£177.43
MNTA002	ERGOVISION 550 TCO 95-5 15" FST	£161.00	£189.18
M0503	ERGOVISION 730 TCO 95 17" FST	£255.00	£299.63
MNTA003	ERGOVISION 730 TCO 95-5 17" FST	£265.00	£311.38
MNTA004	ERGOVISION 760 TCO 95 17" FST	£265.00	£311.38
M0513	ERGOVISION 760 TCO 95-5 17" ZENTAN	£275.00	£323.13
M0504	ERGOVISION 740 TCO 95 17" FST	£305.00	£358.38
MNTA005	ERGOVISION 740 TCO 95-5 17" FST	£315.00	£370.13
M0505	ERGOVISION 750 TCO 95 17" DIAMONDTRON	£399.00	£468.83
M0515	ERGOVISION 975 TCO 95 19" FST	£475.00	£558.13
MNTA007	ERGOVISION 2160 TCO 95 21" DIAMONDTRON	£835.00	£981.13
MNTA007	CRYSTALVISION 600 10.4" TFT + AUDIO	£619.00	£727.33
MNTA008	CRYSTALVISION 620 12.1" TFT + AUDIO	£665.00	£781.38
MNTA001	CRYSTALVISION 640 TCO 95-5 14.1" TFT + AUDIO	£715.00	£840.13
MNTA009	CRYSTALVISION 650 14.5" TFT + AUDIO	£1095.00	£1286.63
MNTA015	CRYSTALVISION 650 PLUS 14.5" TFT + AUDIO	£1139.00	£1338.33
MNTA010	CRYSTALVISION 660 TCO 95 15" TFT	£1235.00	£1451.13
MNTA011	CRYSTALVISION 670 TCO 95-5 15.1" TFT + AUDIO	£1235.00	£1451.13

MNMI001	MITSUBISHI SCAN 50 15 FST	£135.00	£158.63
MNMI002	MITSUBISHI SCAN 70 17 FST	£235.00	£276.13
MNMI013	MITSUBISHI PLUS 71	£279.00	£327.83
MNMI005	MITSUBISHI PLUS 72 17	£309.00	£363.08
MNMI006	MITSUBISHI PRO 700 17	£399.00	£468.83

MNMI012	MITSUBISHI SCAN 90 19	£425.00	£499.38
MNMI007	MITSUBISHI PRO 91TXM 21	£689.00	£809.58
MNMI009	MITSUBISHI PRO1010 21	£1,058.00	£1,243.15
MNMI010	MITSUBISHI LXA420W 14.1 TFT	£855.00	£1,004.63
MNMI011	MITSUBISHI LXA520W 15.1 TFT	£999.00	£1,173.83



Turn on your imagination

ALL MITSUBISHI MONITORS COME WITH A 3 YEAR WARRANTY - THE FIRST BEING ON-SITE



Scan 50

Competitively priced fully-featured 15" colour monitor
Mitsubishi Electric has announced the Diamond Scan 50, a high performance 15-inch colour monitor, the latest addition to its DiamondLine range. The Diamond Scan 50 is designed to meet the needs of corporate customers looking for high levels of quality, performance and support

- Flat-square CRT with Invar alloy shadow mask to ensure colour stability at sustained high brightness levels.
- Improved front-panel, MPU-based on-screen user controls.
- 1280 x 1024 @ 60 Hz non-interlaced maximum addressable resolution.
- Fine 0.28 mm dot pitch
- Integrated tilt and swivel base
- 3 Year Warranty 1st year on site

MNMI001
£135.00
£158.63



Plus 71

Competitively priced fully-featured 17" colour monitor
The compact Diamond Plus 71 17" colour monitor features a super-fine 0.25mm grille pitch for sharply focused, vibrant images. Ideal for text-intensive work, this monitor boasts a maximum resolution of 1280 x 1024 @ 60Hz.

- 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

MNMI013
£279.00
£327.83



Pro 700

High Performance fully-featured 17" colour monitor
The Diamond Pro 700 is a high-performance 17" colour display ideal for graphics-intensive, CAD/CAM and desktop publishing requirements.

- High performance 17" colour DIAMONDTRON™ display ideal for graphics intensive, CAD/CAM & desktop publishing requirements
- Super-fine 0.25mm grille pitch with a maximum resolution of 1600 x 1200 @ 75Hz
- Meets latest environmental & safety standards including VESA, MPR-II, Energy Star & TCO95.
- 3 Year Warranty 1st year on site

MNMI006
£399.00
£468.83



Scan 90

High Performance fully-featured 19" colour monitor
The Diamond Scan 90 is a high-performance 19" colour display ideal for graphics-intensive, CAD/CAM and desktop publishing requirements.

- High performance 19" colour display ideal for graphics intensive, CAD/CAM & desktop publishing requirements
- Super-fine 0.25mm grille pitch with a maximum resolution of 1600 x 1200 @ 75Hz
- Meets latest environmental & safety standards including VESA, MPR-II, Energy Star & TCO95.
- 3 Year Warranty 1st year on site

MNMI012
£425.00
£499.38

DISPLAY EXCELLENCE by ADI the display specialists



NEW - SGT TRINITRON 17"

A bright idea from ADI with superb colour and crispness of display. High resolutions and extensive graphic features at an incredible pricepoint.

MNMI017
£279.00
£327.83



PROVISTA SERIES

MNMI014
£89.00
£104.58

MNMI015
£99.00
£116.33

Display the best of today's demanding home & office applications.

SP2000 SPEAKERS FOR ALL P SERIES MONITORS £16.00 + vat



MICROSCAN P SERIES

MNMI015
£115.00
£135.13

MNMI017
£189.00
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Excellence in display combined with integral microphone, stereo speaker & USB technology options.

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



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VIEWSONIC			
MO800	E641 14 MONITOR	£95.00	£111.63
MO801	E655 15 MONITOR	£125.00	£146.88
MO48-1	E771 17 FST 0.27DP	£255.00	£299.63
MNVW001	G653 15"	£135.00	£158.63
VS6524146	GA655 15" MULTIMEDIA	£185.00	£217.38
MO33-1	G771 17 FST 0.27DP	£265.00	£311.38
MO811	G5771 17 MONITOR	£285.00	£334.88
MNVW002	GA771 17 0.27MM	£325.00	£381.88
MO810	G773 17 MONITOR	£295.00	£346.63
MO808	G1775 17"	£365.00	£428.88
MO49-1	G790 19 0.26DP	£485.00	£569.88
MO807	G800 20"	£635.00	£746.13
MO33-2	P655 15	£145.00	£170.38
MO44-1	P773 17 FST 0.25DP	£365.00	£428.88
MO809	PT775PRO 17"	£405.00	£475.88
MO803	P810 21"	£745.00	£875.38
MO806	PT813 21"	£695.00	£816.63
MO805	P815 21"	£875.00	£1,028.13
MNVW004	VPA138 13.8" LCD	£615.00	£722.63
MO813	VPA145 14.5 LCD	£795.00	£934.13
MNVW003	VPA150 15" LCD	£975.00	£1,145.63



PRINCETON® Enhance your image.



EO710
PRINCETON
EO710

- 17" (15.95" viewable) high contrast FST
- 1024x1024
- 0.26 dot pitch
- Reduced emissions
- AART™ (advanced Anti-reflection Technology)
- 3Yrs warranty

PGS004 EO710
£185.00
£217.38



EO900
PRINCETON
EO900

- 19" (18" viewable) high contrast FST
- 1600x1200
- 0.26 dot pitch
- TCO95
- AART™ (advanced Anti-reflection Technology)
- 3Yrs warranty

PGS007 EO900
£349.00
£410.08



DPP
POWERPANEL

- 14" TFT-LCD, anti glare, hard coating.
- Digital technology for crisp image and text
- Multimedia capable with builtin stereo speakers
- 4Mb ATI Rage LT Pro included
- 3Yrs warranty

PGS010 DPP POWERPANEL
£499.00
£586.33



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The Vision Master™ 350
Colour Monitor Model
MF8515

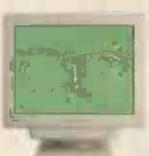


- 15" FST screen with anti-reflect/anti static coating and 0.28 dot pitch. 1024x768 @ 85Hz.

MO105 **£149.00** £175.08

iiyama

The Vision Master™450
19" Colour Monitor
Model S901GT



- 19" screen FST with 18" viewable. Anti-reflect/anti glare/anti static coating and 0.26 dot pitch. 1600x1200 @ 80Hz.

MO112 **£439.00** £515.83

iiyama

The Award Winning Vision
Master™Pro 400 Colour
Monitor Model A701GT



- 17" Diamondtron tube with anti-reflect/anti static coating and 0.25mm aperture grille. 1600x1200 @ 75Hz.

MN1002 **£315.00** £370.13

iiyama

The New Vision
Master™PRO 501 21"
Colour Monitor Model
A101GT



- 21" DiamondTron, 0.28mm a.g Max Res: 1600x1200@75Hz (AR/ASC)

MN1003 **£729.00** £856.58

All iiyama monitors come with 3yr warranty, 1st yr On-Site, 2nd & 3rd RTB, or upgrade to VisionCare warranty, 3yr On-Site!

<p>CTX 1555E/VL510 £95</p> <p>CRT Size/Viewable 15"/13.8" Dot Pitch (mm) 0.28mm CRT Type FST Max. Resolution 1024x768@70Hz Rec. Resolution 800x600@90Hz Special Features MPRII, CE</p>	<p>CTX 1792UA/PR710T £329</p> <p>CRT Size/Viewable 17"/16" Dot Pitch (mm) 0.25mm CRT Type Trinitron™ Max. Resolution 1600x1200@75Hz Rec. Resolution 1280x1024@85Hz Special Features MPRII, CE, TCO 95</p>
<p>CTX 1769SE/VL700 £189</p> <p>CRT Size/Viewable 17"/15.7" Dot Pitch (mm) 0.28mm CRT Type FST Max. Resolution 1280x1024@65Hz Rec. Resolution 1024x768@90Hz Special Features MPRII, CE</p>	<p>CTX 1995UE/VL950T £369</p> <p>CRT Size/Viewable 19"/18" Dot Pitch (mm) 0.26mm CRT Type High Contrast FST Max. Resolution 1600x1200@75Hz Rec. Resolution 1280x1024@90Hz Special Features MPRII, CE, TCO 95</p>

CTX Executive Exchange Service A 3 year on site warranty for all CTX customers.

Monitors • Notebooks • LCD Displays • Systems

Ergovision 760 TCO95-S **TAXAN**



The Ergovision 760 TCO95-S features the new short neck 17" ZenTan FST producing a desktop foot print equal to a conventional 14" monitor of just 392mm

- AGRAS face treatment
- 0.27mm dot pitch
- 1024 x 768 @ 86Hz
- Easy one-touch OSD control
- Fully TCO 95 compliant
- 3Yr warranty - 1st Yr on site

Ergovision 750 TCO95 **MOS13 760 TCO95-S**



£275.00
£324.13

The multiple award winning Ergovision 750 TCO95 features the superb short neck 17" Diamondtron tube for the ultimate in picture clarity

- K-coating face treatment
- 0.25mm aperture grill pitch
- 1280 x 1024 @ 80Hz
- Fully TCO 95 compliant
- Dual Input

MOS05 750 TCO95
£399.00
£468.33

TAXAN

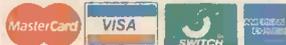
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PHILIPS

Designed with inspiration..... for users with ambitions to achieve, for buyers with budgets to meet and for specialists looking for a superior result.



Philips 105S - 15"



- 1024 x 768 Resolution
- 0.28 dot-pitch
- Digital Control
- MPR-II, Plug n Play

For use with both business and home applications. Typical applications are word-processing, spread sheets, computer aided education and PC games.

MoPo2 15" **£109.00**

Philips 107B - 17"



- 1280 x 1024 Resolution
- 0.28 dot-pitch
- On-Screen Display
- Speakers & Microphone

Ideal for mainstream business applications, this 17" FST Autoscan multimedia model offers excellent value for money. An ideal partner for Windows 95 and other platforms.

MoPo3 17" **£269.00**

DC CHIPS

BXCEL PII 100MHz
Fantastic value for money from a board that supports PII - 233-450Mhz Processors.

- 3 PCI Local Bus Slots
- 2 x 16 bit ISA Bus Slots, 1 x AGP SLOT
- Supports: 4 IDE devices in 2 channels. UltraDMA. PIO Mode 0 to 4 at 16.67Mb/s.
- 2 serial Ports with 16550 Fast UARTs 1 parallel port with EPP/ECP capabilities. Floppy Disk Drive I/F
- Uses 168-pin DIMM x 3 PC100 Spec EDO DRAM/SDRAM
- Supports AMIBIOS multisetup function inc WINBIOS and simple BIOS setup
- Baby AT form factor
- On board 3d SoundPro meets PC98 spec.
- Optional ATX form card provides USB, infra-red & PS2 Mouse connectivity



MBPC7290 **£65.00**

DC CHIPS

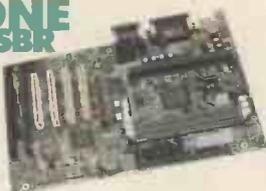
Socket7 100MHz VGA on board
1Mb Cache, 4Mb VGA and 3D sound on board from this complete low cost board.

- Supports 90-350MHz Processors. Including K6-2.
- 2 ISA Slots/3 PCI
- 1Mb synchronous pipeline burst L2 cache on board.
- Supports: 4 IDE devices in 2 channels. Ultra DMA 33Mb p/sec transfer 2 serial Ports with 16550 Fast UARTs 1 parallel port with EPP/ECP capabilities. Floppy Disk Drive interface.
- Uses 2x 168-pin DIMM modules and 2x 72-pin SIMM.
- Supports both EDO and SDRAM
- On board 4Mb 64Bit 3D AGP VGA graphics accelerator
- Baby AT form factor. Optional ATX form card provides USB, infra-red & PS2 Mouse connectivity
- On board 3d SoundPro meets PC98 spec.



MBPC5900 **£59.00**

REDSTONE M1-SBR 440BX CHIPSET

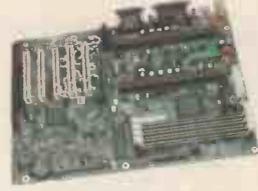


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- Supports 66Mhz & 100Mhz FSB
- Phoenix 4.06 BIOS
- PC100 compliant SDRAM
- 4 x 3.3v DIMMS
- 5 PCI Slots, 1 ISA & 1 AGP
- LM79 Systems Hardware Monitoring
- Wake-On-LAN
- Sounblaster 16 compatible
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M890	P6LX-A UWSCST PII Dual Slot 440LX - ATX	£289.00	£339.58
M840	P5TX-AR 430TX - ATX - 512K	£99.00	£116.33
M850	TX-B-512 430TX - 3/4Baby AT - 512K	£69.00	£81.08
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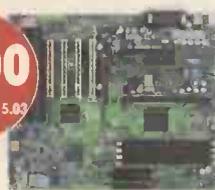
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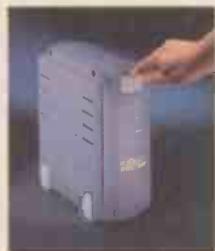
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U-A206	Additional battery pack for 2200XLI	£177.00	£207.98
U-A210	Matrix UPS 3000W	£1429.00	£1679.08
U-A215	Matrix UPS 5000W	£2599.00	£3053.83
U-A220	SmartCell for 3000/5000W	£309.00	£363.08
U-A225	Matrix UPS 3000RW	£1729.00	£2031.58
U-A230	Matrix UPS 5000RW	£2199.00	£2583.83
U-A235	SmartCellXP for 3000/5000RW	£699.00	£821.33

APC The World's leading brand of UPSs

4 million APC UPS users worldwide can't be wrong!

AMERICAN POWER CONVERSION.

Back-Up UPS

Designed for use with standalone & networked PCs, they offer blackout and brownout protection with Surge protection.

Back-Up UPS PRO

Total solution UPS that comes with PowerChute Plus for Win NT, Win 95, Win 3.x & Windows for Workgroups, allowing display of UPS status, system shutdowns, event logging & remote management.

U-A201	BackUPS 300 VA inc. Surge Pro. for 1 prntr	£59.00	£69.33
U-A202	BackUPS 500 VA inc. Surge Pro. for 1 prntr	£83.00	£97.53
U-A203	BackUPS 650 VA inc. Surge Pro. for 1 prntr	£125.00	£146.88
U-A20	BackUPS Pro 280 - /w PowerChute Pro	£82.00	£96.35
U-A25	BackUPS Pro 420 - /w PowerChute Pro	£115.00	£135.13
U-A30	BackUPS Pro 650 - /w PowerChute Pro	£155.00	£182.13
U-A35	BackUPS Pro 1000	£245.00	£287.88
U-A40	BackUPS Pro 1400	£309.00	£363.08

Smart UPS

Performance and power management for servers. Features Internal SmartSlot accessory card for SNMP support, intelligent battery management & PowerChute Plus software for shutdown and power management.



U-A55	SmartUPS 700i NET - /w PowerChute Plus	£233.00	£273.78
U-A60	SmartUPS 1000i NET - /w PowerChute Plus	£255.00	£299.63
U-A65	SmartUPS 1400i NET - /w PowerChute Plus	£355.00	£417.13
U-A70	SmartUPS 2200i NET - /w PowerChute Plus	£539.00	£633.33

SEE LINE LISTINGS FOR RACK MOUNTABLE SMART UPS

Designed specifically for small office environments.

3Com

- 3 x 3C509TPO Cards
- O/Connect Hub 8/TPC
- 3 x 50ft UTP cables
- Power Supply

£159.00 (E183)

NETGEAR

SEE OPPOSITE FOR FULL LISTINGS

NORTEL NORTHERN TELECOM

Bay Networks



FS102 2 PORT 100
£147.50 (E173.31)

NS150 6PORT SLIM
£33.50 (E39.36)

NS185 4 PORT 100
£59.00 (E69.33)

4, 6, 8, 16 and rack mounted available

4, 8, 16 and dual speed available

ETHERNET HUBS
 NETGEAR Ethernet hubs are available in either the compact EN100 Series or the Rack-mount EN500 series (rack-mount brackets included). The rack-mount hubs have an internal power supply. NETGEAR EN308 hub is unique in the range in that it provides an internal power supply in a compact wall-mountable design. NETGEAR 10Base-T hubs have a lifetime warranty.

FAST / DUAL SPEED HUBS
 NETGEAR Fast Ethernet (FE) hubs and Dual Speed (DS) hubs are available in both rack-mount (FE500 / DS500) or compact sizes (FE100 / DS100). The new Dual Speed Hubs auto-sense 10 or 100 on every port - allowing different speed devices to be used on one hub. Cascade cables are included with the rack-mount models. Up to 4 FE500 hubs can be mixed in a stack and up to 8 DS500 hubs can be mixed in a stack.

SWITCHES
 NETGEAR mixed port switches (SW500) offer cost effective performance by providing one or two 10/100 ports for server attachment or uplinking plus a set of 10Base-T ports for workstation or printer attachment. For the ultimate in performance and flexibility, choose NETGEAR Fast Ethernet Switches (FS100 / FS500) with 10/100 auto-sensing on every port. All FS500 and SW500 switches are provided with rack-mount brackets.

SAME WORKING DAY DESPATCH ON ALL STOCK ITEMS

Freefone SALES DIRECT

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Insight

3Com World leading third generation Ethernet adapters

High performance third generation network adapters from world leading 3Com. These Etherlink III Parallel tasking adapters offer up to 25% faster data throughput as well as:

- Self tuning drivers for maximum performance
- Low component count
- Auto Installation
- Menu Driven NetWare Installation
- NDIS & ODI drivers for widest support
- Lifetime Warranty



Parallel Tasking technology allows adaptors to overlap tasks & increase performance. The adaptor starts writing the first portion of a packet onto the network, while it is still reading the last portion of the packet still in the adaptors memory - simple!



ETHERLINK III ETHERNET CARDS (20 & 100 packs available - please ring for details)					
3Com Part Number		1 Single Card		5 Pack of Cards	
3C509BTPQ-Etherlink III UTP only	N151	£33	£38.75	N153	£152 £178.60
3C509BTPC-Etherlink III UTP/BNC	N159	£43	£50.53	N159-5	£182 £213.85
3C509B-COMBO-Etherlink III COMBO	N151-C	£72	£79.90	N154	£299 £351.33
3C900BTPQ-Etherlink XL PCI UTP only	N140	£33	£38.78	N140-5	£145 £170.38
3C900B-Combo Etherlink XL PCI Combo	N141	£70	£82.25	N141-5	£335 £393.63
3C15-TX Fast Etherlink 10/100 ISA	NR400	£89	£104.58	NR400-5	£409 £480.58
3C905B-TX Fast Etherlink XL 10/100 PCI	N158	£52	£61.10	N158-5	£242 £284.35

NM171 PCMCIA 10/100 TX Slot II ENW9503 £99.00 £116.33

SOMO SERIES ETHERNET HUB

NM190	5 port palm 5x10BaseT, plastic EH-501	£34.00	£39.95
NM200	8 port mini hub 8x10BaseT/1xBNC EH-800	£45.00	£52.88

RACK MOUNTABLE UN-MANAGED 10BASET HUBS

NM230	16 port 16x10BaseT/10BaseT uplink x 1/2xBNC/2xAUI EH1602R	£109.00	£128.08
NM240	24 port 24x10BaseT/10BaseT uplink/2xBNC/2xAUI EH-2400	£189.00	£222.08
NM250	32 port 32x10BaseT/10BaseT uplink/2xBNC/2xAUI EH-3200	£195.00	£229.13

ETHERNET TRANSCEIVERS

NM260	AUI to BNC ET506	£18.00	£21.15
NM270	AUI to 10BaseT ET-507	£18.00	£21.15
NM280	AUI to ST (fibre) ET-108A	£94.00	£110.45
NM290	10BaseT to BNC ET-509	£79.00	£92.83

COAX REPEATERS

NM300	2 port 2xAUI/BNC ER-200	£99.00	£116.33
NM310	4 port rack mountable 4x AUI/BNC ER-400R	£199.00	£233.83

100BASETX FAST ETHERNET STACKABLE STANDARD HUBS

NM320	5 port palm top stackable FN-500	£149.00	£175.08
NM340	4 port stackable with bridging port FNB-400	£199.00	£233.83
NM360	12 port stackable + bridging port FNB-1200	£285.00	£334.88
NM370	Fibre-Optic module for FNB series (SC type)	£169.00	£198.58
NM380	Fibre-Optic module for FNB series (ST type)	£169.00	£198.58
NM390	8 port stackable 10/100 100BaseTX FH-801	£299.00	£351.33
NM400	16 port stackable 10/100 100BaseTX FH-1601	£599.00	£703.83

10/100 ETHERNET/FAST ETHERNET SWITCHING HUBS

NM430	8 port 10/100BaseTX FNSW-8080	£879.00	£1032.83
NM450	2 port 10/100BaseTX, 16 port 10BaseT FNSW-1820	£749.00	£880.08

10/100 DESKTOP EXPRESS SWITCHING HUBS

NM485	4 port 10/100BaseTX FHSW-4040A	£399.00	£468.83
NM495	8 10/100BaseTX FHSW-8080A	£799.00	£938.83
NM505	2 port 100BaseTX, 8 port 10BaseT FHSW-1020N	£499.00	£586.33

10/100 Microswitch Hubs

NM515	2 port 10/100BaseTX FS-2020A	£389.00	£457.08
NM520	2 port 100BaseTX, 24 port 10BaseT in 4 switching cluster FHSW-2402	£799.00	£938.83

Ethernet Print servers and Internet Router

NM550	1 port direct attached Print Server (IPX/SPX, TCP/IP, Apple, SMB) PS-5P-D	£185.00	£217.38
NM565	3 parallel Fast Ethernet Print Server (IPX/SPX, NDS, TCP/IP, Apple, SMB) FPS-5P-M	£249.00	£292.58
NM570	Single port ethernet router with 1xBNC/10BaseT, 1port DB-9 RT-101	£199.00	£233.83

SOFTWARE

N-S05	Starter Kit for 2 PCs - 5 Port Hub, Cables, PnP NIC, 16bit ISA, 10Base-T Uses NDS320 Cards	£69.00	£81.08
N-S05A	PCI Starter Kit for 2 PCs - 5 Port Hub, Cables, PnP NIC, 32bit PCI, 10Base-T	£89.00	£104.58
N-S05B	100MBPS Starter Kit for 2 PCs - 5 Port 100BaseTX Hub Cables, 2x PnP NIC, 32bit PCI 10/100Base-T	£159.00	£186.83
N-S010	5 P/Hub, Palm Sized, Dsktp, W/M 10Base-T	£34.00	£39.95
N-S065	1 Port Print Server for Win95/NT	£93.00	£109.28
N-S070	1 Port Print Server for Novell & WinNT	£129.00	£151.58
N-S050	FAST E/NET HUB, 8 Port, RJ45, Rack Mblle, 100Base TX	£329.00	£386.58
N-S060	E/NET HUB, 8 Port, RJ45 & BNC, Rack Mblle,	£65.00	£76.38
N-S015	25ft UTP Cable Assembly - 10Base-T	£7.00	£8.23
N-S020	High performance NIC, Auto Config, 32bit PCI Combo, 10Base-T & COAX	£25.85	£22.00
N-S025	PCMCIA NE2000 compatible NIC, Self Installing PCMCIA 10Base-T & COAX	£62.00	£72.85
N-S030	PCMCIA NE2000 compatible NIC, Self Installing PCMCIA 10Base-T	£47.00	£55.23
N-S035	NE2000 PnP NIC, Self Installing 16bit ISA, 10Base-T & COAX	£27.00	£31.73
N-S040	NE2000 PnP NIC, Self Installing 16bit ISA 10Base-T	£20.00	£23.50
N-S045	FAST ETHERNET, NIC, 10/100Mbps auto switchable s/installing, 32bit PCI 10Base-T, 100 Base TX	£39.00	£45.83

BAY NETWORKS - NETGEAR

NS100	Ethernet Starter Kit - EN104TP + Two FA310TX + Two 25' Cables SB104	£65.00	£76.38
NS105	Fast Ethernet Starter Kit - FE104 + Two FA310TX + Two 25' Cables FB104	£105.00	£123.38
NS110	10Mbps ISA Network Card for PCs EA201	£12.75	£14.98
NS115	10Mbps ISA Network Card for PCs - 10 pk EA201-10	£115.00	£135.13
NS120	10/100Mbps Fast E/net TP PCI Card FA310	£23.10	£27.14
NS125	10/100Mbps Fast Ethernet TP PCI Card - 10 pk FA310-10	£210.00	£246.75
NS130	10/100Mbps Fast Ethernet TP PCI Card - 50 pk FA310-50	£869.00	£1,021.08
NS135	10/100Mbps TP PCMCIA Card FA410	£67.00	£78.73
NS140	4 Port Slimline 10Base-T Ethernet Hub ext psu (inc UK220 volt power adpt) EN104TP	£26.50	£31.14
NS145	4 Port Slimline 10Base-T Ethernet Hub with integrated BNC port ext psu EN104	£36.00	£42.30
NS150	6 Port Slimline 10Base-T Ethernet Hub ext psu EN106TP	£33.50	£39.36
NS155	8 Port Slimline 10Base-T Ethernet Hub ext psu EN108TP	£38.50	£45.24
NS155	8 Port Slimline 10Base-T Ethernet Hub with integrated BNC port or AUI ext psu EN108	£53.50	£62.86
NS160	8 Port 10Base-T Ethernet Hub with int power supply BNC and AUI port int psu EN308	£63.50	£74.61
NS170	16 Port Slimline 10Base-T Ethernet Hub with integrated BNC and AUI port ext psu EN116	£89.00	£104.58
NS175	16 Port 10Base-T Ethernet Hub with int power supply BNC and AUI port rack mount int psu EN516	£99.00	£116.33
NS180	24 Port 10Base-T Ethernet Hub with int power supply BNC and AUI port rack mount int psu EN524	£129.00	£151.58
NS185	4 Port Slimline Class II 100Base-TX Fast Ethernet Hub ext psu FE104	£59.00	£69.33
NS190	8 Port Slimline Class II 100Base-TX Fast Ethernet Hub ext psu FE108	£134.00	£157.45
NS195	8 Port 100Base-TX Fast Ethernet Cascade Port Rackmount Stackable Hub int psu FE508	£265.00	£311.38
NS200	16 Port 100Base-TX Fast Ethernet Cascade Port Rackmount Stackable Hub int psu FE516	£446.00	£524.05
NS205	8 Port Slimline Dual Speed Hub ext psu DS108	£229.00	£269.08
NS210	8 Port Dual Speed Cascade Port Rackmount Stackable Hub int psu DS508	£299.00	£351.33
NS215	16 Port Dual Speed Cascade Port Rackmount Stackable Hub int psu DS516	£489.00	£574.58
NS220	2 Port Ethernet Switch ext psu SW108	£179.00	£210.33
NS225	2 Port E/net Switch one UTP AUI & BNC Port & one speed sensing 10/100Mbps UTP Port int psu SW502	£247.00	£290.23
NS230	7 Port Ethernet Switch with six 10Base-T Ethernet Ports & one speed sensing 10/100Mbps UTP Port int psu SW507	£219.00	£257.33
NS235	10 Port E/net Switch + 8 10Base-T E/net Ports & 2 speedensing 10/100Mbps UTP Ports Rack int psu SW510	£217.00	£254.98
NS240	18 Port E/net Switch + 16 10Base-T Ethernet Ports & 2 speed-sensing 10/100Mbps UTP Ports Rack int psu SW518	£409.00	£474.58
NS245	2 Port Fast E/net Sw. spd-sensing ext psu FS102	£147.50	£173.31
NS250	4 Port Fast E/net Sw. spd-sensing ext psu FS104	£229.00	£269.08
NS255	8 Port Fast E/net Sw. spd-sensing int psu FS508	£329.00	£382.58
NS260	16 Port Fast E/net Sw. spd-sensing rack mount int psu FS516	£829.00	£974.08
NS270	128k ISDN Router one POT/S & ST I/F Multilink PPP Security 1 Analog Port RT120	£189.00	£222.08
NS280	128k ISDN Router with ST I/F NAT + DHCP & 2 POT/S Multilink PPP Security 2 Analog Ports RT328	£178.00	£209.15
NS285	ISDN Router with 4 port hub RH348	£184.00	£216.20
NS290	128k ISDN Digital Modem with ST interface 2 (A-law) POT/S Multilink PPP 2 Analog Ports XM128	£116.00	£136.30

SuperStack II Baseline Hubs & Switches

SuperStack II Baseline hubs and switches provide cost-effective, unmanaged solutions across a wide range of networking technologies for people who need the assurance of high quality, reliability, and robustness of 3Com's SuperStack II family.

- Easy to install and use
- Performance to suit your application & budget
- Superior reliability
- Year 2000 Compliance
- Lifetime Limited Warranty

NE3C001	Baseline hub 12x10BaseT 3C16440	£109.00	£128.08
NR102	Baseline hub 24x10BaseT 3C16441	£169.00	£198.58

Fast Etherlink 16bit PC Card 10/100 Base TX

Fastest Data throughput rates in both 10Base-T & 100Base-T environments



NR405 16bit PCI Card
£89.00
£134.98

Cost-Effective Networking From OfficeConnect



The OfficeConnect Hub/TP4 offers 4 twisted pair ports & diagnostic LEDs, with the TP4 Combo also having an AUI & BNC port. The TP16C is a 16 port hub with a BNC port. All hubs have an MDI/MDIX switch & are easy to install. Increasing your capabilities the 8TPC features a ninth coaxial port that permits connection to other devices. The 8TPM offers the added power of support for Transcend® Quick Configuration Manager Software via an integral SNMP SmartAgent®. The OfficeConnect Networking Kit contains one Hub 8TPC, 3 EtherLink III ISA TPO adapters, 3 x 50 foot cables and an easy to use guide.

3COM SMALL OFFICE HUBS, SWITCHES & ROUTERS - OFFICE CONNECT

NR270	Hub/4TPD 4x 10BaseT 3C16704	£34.00	£39.95
NR280	Hub/4TPC 4x 10BaseT, 1x BNC/AUI 3C16703	£45.00	£52.88
NR290	Hub/8TPD 8x 10BaseT 3C16700	£46.00	£54.05
3CM3821701	Hub/8TPC 8x 10BaseT, 1x BNC 3C16701	£66.00	£77.55
N410	As N400 + 1 BNC + S/MMP	£189.00	£222.08
NR310	Hub/TP16C 16x BNC thin ethernet 3C16702	£109.00	£128.08
NR320	Fast e/net hub/TP100 8x100BaseTX 3C16720	£265.00	£311.38
NR330	OC Switch 14x 60BaseT, 1x 100BaseTX 3C16730	£219.00	£257.33
NR340-1	511 ISDN router (data)3C410002	£299.00	£351.33
3CM3822744	5215 ISDN router (data/voice)3C410007	£359.00	£421.83
3CM3822480	5315 ISDN router (data/voice/WAN) 3C410012A	£599.00	£703.83
NR365	Remote access 535 Gateway 3C410011	£799.00	£938.83

Why 3Com OfficeConnect Products?

- Easy to use and install
- Lifetime Limited Warranty
- Full compatibility
- Complete Network control
- Web-Based Management
- Cool-Curve Design



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Photo PC 700

ONLY PHOTO PC 700
£398.00 (was £467.80)



EPSON STYLUS COLOR 440

LOW COST - EASY TO USE - HIGH QUALITY 720DPI COLOUR INKJET PRINTER WITH NO HIDDEN EXTRAS

- 720dpi PhotoReal colour and black printing
- Designed for ease of use - ideal for first time buyers
- Easy to use - Interactive Online help
- New full function Status Monitor
- FREE NEW "PerfectPicture Pak" Home Creativity software bundle
- FREE PhotoQuality Paper Pack
- High quality output on all media types
- Advanced Dual Cartridge Ink System
- New Printer Driver Enhancements
- Fast Print Speeds
- 1 Year RTB Warranty



NEW

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EPSON COVERPLUS £35.00 3yr onsite

PR-E20 COLOR 440
£103.00 (was £121.03)



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



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PR-E25 COLOR 640
£133.00 (was £156.28)



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



NEW

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EPSON COVERPLUS £59.00 3yr onsite

PR-E30 COLOR 740
£177.00 (was £207.98)



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

FREE DELIVERY ON THIS PRINTER

EPSON COVERPLUS

PR-E5 PHOTO 700
£163.00 (was £191.53)



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

FREE DELIVERY ON THIS PRINTER

PR-E6 COLOR 850
£207.00 (was £243.23)



EPSON STYLUS COLOR 1520

1440DPI WIDE FORMAT PRINTER

True A3+ printing from this wide format colour printer. Comes complete with ColorPak software.

- 1440dpi colour or true black printing with Epson Super MicroDot™
- Wide format A3+ in size
- 6PPM Mono & Colour

DOWN IN PRICE

FREE DELIVERY ON THIS PRINTER

PR-115 COLOR 1520
£451.00 (was £529.93)



EPSON STYLUS Photo EX

BRILLIANT PROFESSIONAL A3 COLOUR IMAGES AT 1400DPI

- 1440 dpi and smaller Super MicroDot for the highest photo quality output
- Windows 3.1, Windows '95, Windows NT and Macintosh compatible
- EPSON PhotoEnhance 2 - automatically optimises photo output
- Prints on plain paper with EPSON QuickDry Ink
- Prints on a wide range of media
- 1 year RTB warranty as standard



COVERPLUS £99.00 3yr onsite

FREE DELIVERY ON THIS PRINTER

EPSON COVERPLUS

PR-E4 PHOTO EX
£308.00 (was £361.90)



EPSON STYLUS Pro5000

A3+ COLOUR INKJET FOR PROOFING & PHOTOGRAPHIC OUTPUT

- A3+ Colour inkjet printer for proofing & photographic output
- The new standard in professional photo-quality printing
- 1440dpi, six colour technology
- Enhanced Epson SuperMicroDot
- 6Kb RAM, exp. to 96Kb
- Windows & MAC compatible
- Opt. Network connection

ONLY £399.00 3yr onsite

FREE DELIVERY ON THIS PRINTER

INEP001 PRO5000
£1587.00 (was £1864.73)



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

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LAEP001 EPL-5700
£304.00 (was £357.20)



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Insight

HP HEWLETT PACKARD

HP DESKJet 890C



FREE DELIVERY ON THIS PRINTER

SUPPORTPACK £66.00 3yr onsite

The premium Colour Inkjet that makes any printing look professional

Enjoy improved black and colour printing on standard office paper with improved PhotoREt II, Colour Smart II and Kodak Image Enhancements. Print up to 9ppm black or 5 colour. MMX™ compatible.

- Smaller ink drops deliver less visible dots on any paper
- More shades of color for clear, vibrant, natural-looking results

PR59 DESKJET 890C £202.00 £237.95

FREE DELIVERY ON ALL HEWLETT PACKARD PRINTERS THIS MONTH

HP DESKJet 720C



FREE DELIVERY ON THIS PRINTER

SUPPORTPACK £40.00 3yr onsite

The affordable business printer for sharper & more realistic colour & crisp black text

The 720C gets your printing done quickly, at up to 8 ppm in black or 4 in colour, whilst being Windows NT compatible, whilst supporting MMXTM technology for faster colour processing. The business printer that really does it all!

- Smaller ink drops deliver less visible dots on any paper
- More color shades provide smoother color transitions

PR58 DESKJET 720C £149.00 £175.08

HP DESKJet 2000C



FREE DELIVERY ON THIS PRINTER

SUPPORTPACK £40.00 3yr onsite

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 6L

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 6L printer offers a fast 6 page-per-minute print speed, superior flexibility, optional network capability, & HP's proven laser technology for reliable performance year after year.

FREE DELIVERY ON THIS PRINTER



SUPPORTPACK £77.00 3yr onsite

STAR BUY

PR51 LASERJET 6L £232.00 £272.50

HEWLETT PACKARD PRINTERS & OFFICEJETS - FREE DELIVERY

PR28 DJ	400L COLOUR	£59.00	£69.33
PR-HP1 DJ	420 COLOUR	£66.00	£77.55
PR120 DJ	340 COLOUR PORTABLE	£144.00	£169.20
PR66 DJ	340Cbt (infrared)COLOUR PORTABLE	£159.00	£186.83
PR-HP2 DJ	690C	£94.00	£112.80
PR22 DJ	690C PLUS	£111.00	£130.43
PR-HP3 DJ	710C	£134.00	£157.45
PR58 DJ	720C	£149.00	£175.08
PR59 DJ	890C	£202.00	£237.35
PR29 DJ	1100C	£247.00	£290.23
PRHP01 DJ	1120C	£285.00	£334.88
PR46 DJ	1600C	£871.00	£1023.43
PR46-CM DJ	1600CM INCLUDING JETDIRECT	£1110.00	£1304.25
PR46-M	DJ 1600CM POSTSCRIPT	£1280.00	£1504.00
PR62	PHOTOSMART PRINTER	£323.00	£379.53
PR51	LaserJet 6L	£232.00	£272.60
PRC51	LaserJet 6L COMPANION	£78.00	£91.65
PR403	LaserJet 6P	£461.00	£541.68
PR404	LaserJet 6MP	£562.00	£660.35
PR-HP4	LaserJet 2000C	£450.00	£528.75
PR-HP5	LaserJet 2000CN	£675.00	£793.13
PR405	LaserJet 4V	£1184.00	£1391.20
PR406	LaserJet 4M	£1724.00	£2025.70
PR40	LaserJet 5Si	£1649.00	£1937.58
PR41	LaserJet 5Si MAX	£2249.00	£2642.58
PR43	LaserJet 5Si NX	£1799.00	£2113.83
PR42	COLOUR LJ 5	£2460.00	£2890.50
PR78	COLOUR LJ 5N	£2700.00	£3172.50
PR43	COLOUR LJ 5M	£3099.00	£3641.33
PR64	LJ 5Si MOPIER	£4447.00	£5252.23
LAHP005	LJ 8000 A3 24PPM PS	£1574.00	£1849.45
LAHP006	LJ 8000 A3 24PPM PS E/RNET	£1762.00	£2070.35
LAHP004	LJ 8000DN A3 24PPM PS E/RNET DUPLEX	£2062.00	£2422.85
PR42	OJ 590 COLOUR	£296.00	£347.80
PR443	OJ 635	£339.00	£398.33
LAHP001	LJ 3100 PRINTER-FAX-COPIER-SCANNER	£471.00	£553.43
PR-D11	OJ 1170	£491.00	£576.93

HP DESKJet 340C

Makes any place your workplace Whether you're traveling or working at home, the HP DeskJet 340 for the notebook PC and PowerBook* gives you the flexibility to print wherever you need to print. You get crisp, high-quality black plus easy-to-add color with the HP Color Kit. It offers portable, full-featured quality printing.

FREE DELIVERY ON THIS PRINTER

SUPPORTPACK £40.00 3yr onsite

PR120 DESKJET 340C £144.00 £169.20

HP DESKJet 690C+

Vibrant life-like images & crisp black text.

The versatile HP DeskJet 690C brings professional communications capabilities to the home or the office. Produce reports, brochures, proposals, financial charts and graphs, banners, labels and more.

FREE DELIVERY ON THIS PRINTER

SUPPORTPACK £40.00 3yr onsite

PR22 DESKJET 690C+ £111.00 £130.43

HP LASERJet 6P & 6MP

Great looking documents, enhanced productivity & room to grow

Start with high-resolution laser print quality, versatile paper handling and 8 page-per-minute print speed driven by a fast processor. Add expandability with attractive pricing and what you get is the HP LaserJet 6P printer, delivering outstanding value for individual or shared use from the market leader in laser printing for the office.

SUPPORTPACK £142.00 3yr onsite

- 6 Pages Per minute
- 18 secs. for first page
- 600 x 600dpi
- MicroFine Toner
- Sharp Text, Crisp Graphics



PR403 LASERJET 6P £461.00 £541.68

PR404 LASERJET 6MP £562.00 £660.35

HP LASERJet 4000 Series

Bringing significant technology improvements to workgroup laser printing



FREE DELIVERY ON THIS PRINTER

SUPPORTPACK £180.00 3yr onsite

From paper handling to print quality HP has completely redesigned the best selling HP LaserJet 5 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.

HP LASERJET 4000 SERIES

PR411	4000	£711.00	£835.43
PR412	4000T	£816.00	£958.80
PR413	4000TN	£1023.00	£1202.03
PR414	4000N	£914.00	£1073.95

HP LASERJet 5000 Series Full bleed A3 Printing



FREE DELIVERY ON THIS PRINTER

SUPPORTPACK £235.00 3yr onsite

The printer the graphics industry and general office environments have been waiting for. Perfect for the CAD Professional, DTP Professional or overworked PCLAN Manager. Enjoy exceptional print quality for work at full A3 size. Network ready and easily managed these printers are MAC compatible and are supplied in 3 versions for basic requirements, Networks (N) and Graphics Networks (GN).

HP LASERJET 5000 SERIES

PR511	LJ 5000	£929.00	£1091.58
PR512	LJ 5000N	£1334.00	£1567.45
PR513	LJ 5000GN	£1649.00	£1937.58

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FREE DELIVERY ON ALL PRINTERS

Canon

Brighten Up your Homework and all your Work At Home with the BJC 250

BLOCKBUSTER

FREE VIDEO RENTAL until the year 2000

- * 1 movie per week
- * maximum of 52 rentals until 31st December 1999
- * any film category
- * full terms and conditions available on request from Canon

Details in boxes

Applicable to 5000, 7000, 250, 4300, 4650.

PR-72

£71.00 (€83.43)

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

Professional colour printing from Canon's BJC 7000

FREE DELIVERY ON THIS PRINTER

PR69

£175.00 (€205.63)

- 1200 dpi plain paper output
- True A4 print size
- Print on card up to 550gsm
- Photo printing with BC-62 photo cartridge
- 1 RTB Warranty

THE RANGE OF CANON PRINTERS

PR-72	BJC 250	£71.00	£83.43
PR-73	BJC 4300	£89.00	£104.58
PR-86	BJC 4650	£194.00	£227.95
PR-61	BJC 80	£139.00	£163.33
PR-69	BJC 7000	£175.00	£205.63
PR-98	BJC 5500	£405.00	£475.88
PR-83	LBP 660	£178.00	£209.15

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.

MLT8810144

£327.00 (€384.23)

FREE DELIVERY ON THIS PRINTER

MINOLTA			
PR-M1	PAGEPRO 6L	£179.00	£210.33
PR-M2	PAGEPRO 6	£244.00	£286.70
PR-M3	PAGEPRO 6E	£239.00	£280.83
PR-M5	PAGEPRO 20	£829.00	£974.08
PR-M6	COLOR PAGEPRO	£1729.00	£2031.58
MLT8810143	PAGEPRO 8L	£276.00	£324.30
MLT8810144	PAGEPRO 8	£327.00	£384.23
MLT8810145	PAGEPRO 8e	£430.00	£505.25

HL-820

The robust, low cost Windows dedicated printer. Ideal for SOHO use

- Up to 8ppm
- Windows dedicated printing
- 600dpi print resolution
- 200 sheet paper input
- Semi-automatic double-sided printing
- Intelligent sleep mode

FREE DELIVERY ON THIS PRINTER

LABR001

£159.00 (€186.91)

BROTHER

PR279	HL-730 + 6ppm Laser 600x600dpi	£199.00	£233.83
PR272	HL-760 6ppm Laser 1200x600dpi	£229.00	£269.08
PR272.5	HL-760 5mb 6ppm Laser 1200x600dpi	£245.00	£287.88
PR275	1 Yr On Site Warranty for 730/760	£29.00	£35.15
PR273-6	HL-1060 10ppm Laser 6Mb 1200x600dpi	£315.00	£370.13
PR283	HL1660e 8mb 16ppm Laser 1200x600dpi	£639.80	£750.83
PR284	HL1660eN 8mb 16ppm Laser 1200x600dpi	£859.00	£1009.33
PR285	HL1660eN 16mb 16ppm Laser 1200x600dpi	£875.00	£1028.13
PR281	HL2400C Colour Laser	£2349.00	£2760.08
PR282	HL2400C Colour Laser	£2685.00	£3154.88
PR276	MC3000 All in One print/scan - col inkjet	£449.00	£527.58
PR278	MC9000 All in One print/scan/fax - LASER	£569.00	£668.58
PR280	MFC700C All in One print/scan/fax - LASER	£649.00	£762.58
PR277	HL1660EX 4mb 16ppm	£1,069.00	£1,256.08
PR277-10	HL1660EX 10mb 16ppm	£1,076.00	£1,264.30

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
- Auto e-mail printing*
- Network connectivity option
- Low running costs
- Easy change consumables

*win95/POP 3 required

FREE DELIVERY ON THIS PRINTER

LABR002

£215.00 (€252.63)

KYOCERA

FS-1700

This easy to install and set-up 12ppm printer offers a low cost of ownership at just 0.3p per page, plus a clear upgrade path and an ability to overlay fonts, forms & logos.

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.

FREE DELIVERY ON THIS PRINTER

PR-K15 FS-1700

£494.00 (€580.45)

FREE DELIVERY ON THIS PRINTER

PR-K20 FS-600

£239.00 (€286.83)

KYOCERA - FREE DELIVERY ON ALL PRINTERS

PR-K30	Kyocera FS-600	£239.00	£280.83
LAKY001	Kyocera FS-800	£415.00	£487.63
PR-K15	Kyocera FS-1700	£494.00	£580.45
PR-K25	Kyocera FS-3700	£679.00	£797.83
PR-K36	Kyocera FS-7000	£1779.00	£2090.33

LEXMARK - FREE DELIVERY ON ALL PRINTERS

INLX001	Colour Jetprinter 1000	£61.00	£71.68
PR401	Colour Jetprinter 2050	£175.00	£205.63
PR-L14	Colour Jetprinter 5000	£135.00	£158.63
PR-L16	Colour Jetprinter 5700	£169.00	£198.58
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
LALX001	Optra S 1255	£615.00	£722.63
LALX002	Optra S 1255N	£709.00	£833.08
LALX003	Optra S 1855	£709.00	£833.08
LEX4511954	Optra S 1855 N	£909.00	£1068.08
LEX4511955	Optra S 2455	£1309.00	£1538.08
LEX4511956	Optra S 2455 N	£1599.00	£1878.83
PR-L40	Optra N	£1700.00	£1997.50
LEX4511017	2380	£269.00	£316.08
LEX4511018	2381	£329.00	£386.58
LEX4511019	2390	£269.00	£316.08
LEX4511020	2391	£329.00	£386.58
LEX4511280	4227	£1099.00	£1291.33
INLX002	OPTRA 45	£609.00	£715.58
INLX003	OPTRA 45N	£969.00	£1138.58
INLX004	OPTRA 40	£281.00	£330.18
INLX005	OPTRA 40N	£435.00	£511.13
INLX006	4079 PLUS	£1339.00	£1573.33
INLX007	4079 PLUS PRO	£1499.00	£1761.33
LALX009	OPTRA K 1220	£461.00	£541.68

CANON - FREE DELIVERY ON ALL PRINTERS

PR-72	BJC 250	£71.00	£83.43
PR-73	BJC 4300	£89.00	£104.58

PR-86	BJC 4650	£194.00	£227.95
PR-61	BJC 80	£139.00	£163.33
PR-69	BJC 7000	£175.00	£205.63
PR-98	BJC 5500	£405.00	£475.88
PR-83	LBP 660	£178.00	£209.15

EPSON PRINTERS - FREE DELIVERY ON ALL PRINTERS

PR18	LX-300 9PIN 80 COLUMN	£87.00	£102.23
PR190	LX-1050+ 9PIN 136 COLUMN	£154.00	£180.95
PR-E1	FX-880 9PIN 80 COLUMN	£247.00	£290.23
PR192	FX-1170 9PIN 136 COLUMN	£230.00	£270.25
PR-E2	FX-2170 9PIN 136 COLUMN	£395.00	£464.13
PR193	OFX-5000+ 9PIN 136 COLUMN	£1226.00	£1440.55
PR194	OFX-8000 9PIN 136 COLUMN	£1911.00	£2245.43
PR197	LQ-300 24PIN 80 COLUMN	£115.00	£135.13
PR-E3	LQ-570+ 24PIN 106 COLUMN	£216.00	£253.80
PR198	LQ-670+ 24PIN 106 COLUMN	£290.00	£342.25
PR199	LQ-870 24PIN 80 COLUMN	£277.00	£327.78
PR199	LQ-2070 24PIN 136 COLUMN	£330.00	£387.78
PR128	LQ-2170 24PIN 136 COLUMN	£468.00	£549.90
PR201	OLQ-3000 24PIN 136 COLUMN	£791.00	£929.43
PR129	STYLUS COLOR 300	£76.00	£89.30
PR114	STYLUS COLOR 400	£89.00	£104.58
PR112	STYLUS COLOR 600	£118.00	£138.65
PR-E4	STYLUS COLOR 850	£207.00	£243.23
PR-E6	STYLUS PHOTO EX	£308.00	£361.90
PR-E5	STYLUS PHOTO 700	£163.00	£191.53
PR115	STYLUS COLOR 1520 A2	£451.00	£529.93
PR119	STYLUS COLOR 3000 A2	£1118.00	£1313.65
PR131	STYLUS 1000 MONO	£292.00	£343.10
INEP001	STYLUS PRO 5000 A3	£1587.00	£1864.73
PR123	EPL-N1200	£593.00	£696.78
PR124	EPL-N1200EN ETHERNET	£791.00	£929.43
PR125	EPL-N1200PS POSTSCRIPT	£986.00	£1158.55
PR126	EPL-N2000 A4/A3	£1278.00	£1501.65
PR127	EPL-N2000PS POSTSCRIPT	£1582.00	£1858.85

PRINTER STARTER KITS from Insight

EPSON PAK

EPSON

BUNDLE PRICE

£164.99 (€193.86)

PR-E25	EPSON STYLUS 640	£133.00 + VAT
EP2353595	Black cartridge	£14.00 + VAT
EP2353550	Colour cartridge	£15.00 + VAT
BC345	IEEE cable	£10.99 + VAT
TOTAL		£172.99 + VAT

HP HEWLETT PACKARD

PR51	HPLaserjet 6L	£232.00 + VAT
CT150	Laser toner	£38.00 + VAT
BC345	IEEE cable	£10.99 + VAT

(HP approved)

TOTAL

£280.99 + VAT

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SCANNERS

ACER			
AC215	VUEGOSCAN 310P 4800DPI FLATBED	£49.00	£57.58
AC210	VUEGOSCAN 310S 4800DPI FLATBED	£69.00	£81.08
AC220	VUEGOSCAN 610P 9600DPI FLATBED	£75.00	£88.13
AC225	VUEGOSCAN 610S 9600DPI FLATBED	£99.00	£116.33
AGFA			
AGF4080418	SNAPSCAN 310 PARALLEL	£85.00	£99.88
SC-A5	SNAPSCAN 310 SCSI	£89.00	£104.58
SC-A35	SNAPSCAN 600 SCSI	£175.00	£205.63
SC-A40	SNAPSCAN 600 ARTLINE SCSI	£219.00	£257.33
BTC			
SC-B5	6630 SHEETFEED SCANNER	£75.00	£88.13
CANON			
SCN004	CANOSCAN FB310 PARALLEL	£99.00	£116.33
SC-C10	CANOSCAN 300 INC SCSI CARD	£129.00	£151.58
SCN005	CANOSCAN FB610 PARALLEL	£189.00	£222.08
SC-C20	CANOSCAN 600 INC SCSI CARD	£499.00	£586.33
LOGITECH			
SC-L10	SCANMAN COLOUR 2000	£75.00	£88.13
LT001	PAGESCAN PARALLEL	£85.00	£99.88
LT002	PAGESCAN USB	£99.00	£116.33
LT003	FREESCAN PARALLEL	£99.00	£116.33
MICROTEK			
SC-M12	SCANMAKER 330	£95.00	£111.63
SC-M13	SCANMAKER 630	£175.00	£205.63
DEM214	PHOTOSHOP LE only sold with scanner	£49.00	£57.58
DEM215	PHOTOSHOP FE only sold with scanner	£139.00	£163.33
MEDIAFORCE			
SC65	COLOUR HAND HELD SCANNER	£39.00	£45.83
SCME002	SCANMAGIC 9600DPI 30BIT A4 FLATBED	£40.00	£47.00
PLUSTEK			
SC-P5	OPTICPRO A3 30BIT FLATBED	£269.00	£316.08
SC-P10	FBIII 30BIT A4 FLATBED	£50.00	£58.75
SC-P15	FBIV 30BIT A4 FLATBED	£102.00	£119.85

SC V40 PRO OCR SCANNING S/W
£59.00
£83.33

visioneer CASHBACK

Purchase certain Visioneer Scanners from Insight and receive either a £15 or £30 CashBack Voucher which Visioneer will redeem for a full £30 within 7 days of your purchase (amounts stated on price box)

PRO OCR 100 v1

Scan virtually any document with Visioneer ProOcr100! It's the 1st 100% useful OCR for any scanner! up to 50% faster than current OCR solutions

visioneer PAPERPORT Visual Explorer

The Easiest Way to Manage Files & Web Pages

SCV002 VISUAL EXPLORER
£59.00
£83.33

visioneer PAPERPORT OneTouch Scanner

The high-resolution scanner with OneTouch access to faxing, copying & Visioneer's award winning software.

With the ability to scan at a 600 x 1200 resolution that recognises over 68 billion colours Visioneer's OneTouch is so simple to operate with its 5 convenient buttons for scanning, copying or faxing directly into Visioneer's award winning PaperPort software.

SCV003 ONETOUCH AFTER £15 CASHBACK
£134.00
£157.45

visioneer PAPERPORT 3100

Superb value for money from this 300 x 600 dpi, 30bit scanner.

- Affordable, professional quality scanning
- 30bit colour scanning
- 300 x 600 dpi
- Single pass colour CCD
- FREE bundled software: PaperPort, Web Publishing Kit, Xerox TextBridge, Corex CardScan, PictureWorks PhotoEnhancer™, Quicken Expensable SE, Connectix QuickCards™ LE

SC-V35 AFTER £15 CASHBACK

£52.00
£76.38

STAR BUY

visioneer PAPERPORT 6000a

Excellent performance with unmatched ease of use.

- Affordable, professional quality scanning
- 30bit colour scanning
- 600 x 1200 dpi
- Single pass colour CCD
- FREE bundled software: PaperPort, Web Publishing Kit, Xerox TextBridge, Corex CardScan, PictureWorks PhotoEnhancer™, Quicken Expensable SE, Connectix QuickCards™ LE

SCV1001 AFTER £15 CASHBACK
£74.00
£89.35

UMAX

ASTRA 1220u

Sizzling performance from this fantastically priced entry level desktop scanner.

- Affordable, professional quality scanning
- 30bit colour scanning
- 600 x 900 dpi
- Single pass colour CCD

UMX1220U ASTRA 1220U
£149.00
£175.08

ASTRA 610S

The Astra 610 series was created for those looking for an easy, affordable way to put the sizzle into everyday documents.

- Affordable, professional quality scanning with SCSI interface
- 30bit colour scanning
- 300 x 600 dpi
- Single pass colour CCD
- FREE bundled software: PhotoDeluxe, Presto!, PageManager, VistaScan, & OmniPage Direct

SC105-U ASTRA 610P £59.00 £69.33

SC100-U 610S
£89.00
£104.58

WHY NOT TAKE OUT AN EXTENDED WARRANTY AT YOUR TIME OF PURCHASE?

UMAX			
SCW-U	ASTRA 610/600 2 YEARS RTB WARRANTY	£29.00	£34.08
SCW1-U	ASTRA 610/600 3 YEARS RTB WARRANTY	£49.00	£57.58
SCW2-U	ASTRA 1200S 2 YEARS RTB WARRANTY	£45.00	£52.88
SCW3-U	ASTRA 1200S 3 YEARS RTB WARRANTY	£75.00	£88.13
SC205-U	POWERLOOK II COLOUR STUDIO SCANNER	£749.00	£880.08
SC36-U	MIRAGE SE A3	£3499.00	£4111.33
SC46-U	MIRAGE II PRO A3 DUAL LENS	£5999.00	£7048.83
SC56-U	TRANSPARENCY ADAPTOR VISTA S6	£299.00	£351.33
SC120-U	TRANSPARENCY ADAPTR ASTRA 600/1200	£199.00	£233.83



ASTRA 1220S

The Astra 1220 desktop scanner was created for those looking for an easy, affordable way to obtain professional quality scans at a very competitive price.

- Affordable, professional quality scanning
- 30bit colour scanning
- 600 x 1200 dpi
- Max. Res. 9600 x 9600
- FREE bundled software: PhotoDeluxe & PageManager

CS122U ASTRA 1220S
£219.00
£257.33

HP ScanJet 6100c



HP's personal color scanner for creative communication

The HP ScanJet 6100C Professional Series scanner lets you create high-impact communications to help you look your best. Add a color or black-and-white image, sharp line drawing or printed page of text to a Web page, your company intranet, a presentation and more.

SC5100 SCANJET 6100C
£420.00
£482.50

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.

HEWLETT PACKARD

SC151	55 SHEETFEED COLOUR-GREYSCALE SCANNER	£129.00	£151.58
SC157	PHOTOSMART SCANNER	£323.00	£379.53
SC5100	SCANJET 5100C	£144.00	£169.20
SC6100	SCANJET 6100C	£420.00	£493.50
HP6200C	SCANJET 6200C	£237.00	£278.48
HP943980	SCANJET 6250C	£277.00	£325.48

SC5100 SCANJET 5100C
£144.00
£169.20

EPSON

EPSON GT 7000

The GT-7000 combines amazing quality with powerful, easy to use software and hardware at an extremely affordable price.

EP7000 GT 7000
£341.00
£383.33

EPSON GTX 9500

Epson's highest quality, most affordable A4 flatbed with its colour CCD sensor & 36-bit scanning capabilities at 600 x 1200 dpi, plus a dynamic range of 3.0D, for improved shadow and highlight detail - the GT-9500 offers the superior image quality.

SC131 GTX 9500
£383.00
£438.33

SC146	GTX-5500 SCSI	£187.00	£219.73
SC122	GT-9500 Bare scanner	£383.00	£450.03
SC131	GT-9500 PARALLEL	£383.00	£450.03
SC132	GTX-9500 SCSI	£469.00	£551.08
SC133	GTX-9500 SCSI	£538.00	£632.15
EP7000	GT-7000	SCALL	SCALL
EP7000P	GT-7000 PHOTO	SCALL	SCALL



- High quality 600x2400dpi optical resolution (with EPSON MicroStepDrive)
- Can distinguish 68 billion different colours (36 bit)
- Start button for easy ultra fast One touch scanning - a leader in its class
- Optional film adapter and ADF
- For Win95/98 NT3.51 or later or MAC



- Affordable, professional quality scanning
- High speed and easy to use
- 4800 dpi & 36 bits per pixel in colour providing 68 billion colours
- SCSI and Bi-directional parallel interfaces built-in as standard

Nikon

COOLSCAN III

The CoolScan III 35mm film scanner.

The personal film scanner with revolutionary new technology.



SCN1005 COOLSCAN III
£509.00
£598.08

NIKON COOLSCAN III

SCN1005	Coolscan III with Nikon Scan 2.1 & PhotoShop LE	£509.00	£598.08
SCN1007	Coolscan III with Nikon Scan 2.1 & AdapteX SCSI Card & PhotoShop LE	£527.00	£619.23

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 £18.50 (£21.00)

240W PMPO Speakers

 £25.50 (£29.00)

300W PMPO 3D Speakers

 £36.50 (£42.00)

SPEAKERS

MEDIAFORCE SPEAKERS

SP23	BLASTER 30W	£6.50	£7.64
SP50	BLASTER 70W	£9.00	£10.58
SP42	BLASTER 120W	£15.00	£17.63
SP61	BLASTER 200W	£19.00	£22.33
SPWE001	BLASTER 300W	£25.00	£29.38

YAMAHA SPEAKERS

SP27	YMS M15 10W	£35.00	£41.13
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SP29	YST M7 10W	£29.00	£34.08
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SP83	LCS 1022 10W RMS 10W	£30.00	£35.25
SP84	LCS 1224 10W RMS3D SPATIALIZER	£41.00	£48.18
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SP86	LCS 2612 20W RMS S/WOOFER & SPEAKERS	£80.00	£70.50

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SP94	SRS-PC91 DESKTOP 10W	£80.00	£94.00
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CREATIVE LABS SPEAKERS

SP120	CSW20 - 5 Watt RMS	£12.00	£14.10
SP122	CSW50 - 11 Watt RMS	£29.00	£34.08

CREATIVE LABS 3 PIECE SPEAKERS

SP121	CSW100 - 17 Watt RMS	£45.00	£52.88
SP123	CSW200 - 23 Watt RMS	£72.00	£82.83
SP124	CSW350 - 68 Watt RMS	£79.00	£70.50

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SP15	SOUNDWAVE + STANDS 20W	£15.00	£17.63
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SP45	3DSOUND DIMENSION 300W	£35.00	£41.13
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S070	SOUNDBLASTERAW 64 GOLD	£92.00	£108.10
S071-M	CREATIVE 4MB UPGRADE FOR AWE 64	£29.00	£34.08
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DIAMOND SONIC IMPACT

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S071	SOUNDBLASTERAW 64 Value	£59.00	£69.33
S070	SOUNDBLASTERAW 64 GOLD	£92.00	£108.10
S071-M	CREATIVE 4MB UPGRADE FOR AWE 64	£29.00	£34.08
S070-M	CREATIVE 8MB UPGRADE FOR AWE 64	£55.00	£64.63
S097	CREATIVE 3DD BLASTER GAME PLAYER	£99.00	£116.33

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S0129	16 BIT OPTI 931	£10.00	£11.75
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SP-CS01	CIRCLE SOUND VIRTUAL 3D PROCESSOR	£15.00	£17.63
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S0-M4	MAXI SOUND 64 HOME STUDIO II	£89.00	£104.58
S0-M6	MAXI SOUND 64 DYNAMIC 3D	£59.00	£69.33
S0-M7	MAXI SOUND homestudiopro 64	£165.00	£193.88

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S0112	STEREO WAVE TABLE standard socket	£5.00	£5.88
S0113	PINE MEGAWAVE 3D	£29.00	£34.08
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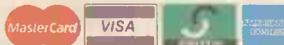
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VIDEO CARDS

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V-M15	VIDEO DC10 - ZORAN PCI BUS	£179.00	£210.33
V-M60	VIDEO DC30 - ZORAN PCI BUS	£399.00	£468.83
V-M61	VIDEO DC30+ - ZORAN PCI BUS	£599.00	£703.83
V-M11	VIDEO DIRECTOR STUDIO 200	£159.00	£186.83
V-M13	VIDEO DV300 FIREWIRE	£499.00	£586.33
VIMR001	MIRO DC50 PROFESSIONAL EDITING	£1,295.00	£1,521.63

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V-D37	FIRE GL PRO 1000 8Mb AGP	£93.00	£109.28
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V501	VIDEO BOOST MACH64 VT 2MB EDO oem	£25.00	£29.38
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V518	3D CHARGER 2Mb PC2TV oem	£35.00	£41.13
V519	3D CHARGER 4Mb PC2TV oem	£45.00	£52.88
V508	ATI TV TUNER AND CAPTURE CARD oem	£49.00	£57.58
V522R	ATI ALL IN WONDER PRO 8Mb	£121.00	£142.18
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V513A	ATI XPRT@PLAY 4MB AGP OEM	£53.00	£62.28
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V514R	ATI XPRT@PLAY 8MB TV OUT RETAIL PCI	£85.00	£99.88
V515A	ATI XPRT@WORK 4MB AGP OEM	£43.00	£50.52
V516	ATI XPRT@WORK 8MB OEM PCI	£55.00	£64.63
V516A	ATI XPRT@WORK 8MB AGP OEM	£59.00	£69.33
V516R	ATI XPRT@WORK 8MB RETAIL PCI	£75.00	£88.13
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V213	HERCULES DYNAMITE 3D GL 4MB	£85.00	£99.88
V214	HERCULES DYNAMITE 3D AGP BUS	£85.00	£99.88
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V303	S3 VIRGE 3D EDD DRAM 4MB	£25.00	£29.38
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VIME002	TRIDENT 9750 AGP 4MB EDORAM	£35.00	£41.13
V305	MEDIAFORCE TV TUNER CARD	£45.00	£52.88
V300	MEDIAFORCE S3 VIRGE 3D 2MB EDO	£19.00	£22.32
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V304	MEDIAFORCE 3D PC2TV CARD 2MB	£25.00	£29.38
V874	MEDIA FORCE AGP GRAPHICS CARD	£45.00	£52.88

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V135B	MATRIX MYSTIQUE 220 BUSINESS	£49.00	£57.58
V137	MYSTIQUE 220 4MB RETAIL	£49.00	£57.58
V133	MATRIX RAINBOW RUNNER STUDIO	£102.00	£119.85
V133TV	MATRIX RAINBOW RUNNER TV	£65.00	£76.38
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V138	MILLENNIUM II 4MB RETAIL (250 RAMDAC)	£89.00	£104.58
V139	MILLENNIUM II 8MB RETAIL (250 RAMDAC)	£105.00	£123.38
V140	MILLENNIUM II 4MB OEM (250 RAMDAC)	£75.00	£88.13
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VIMT003	MILLENNIUM G200 8MB retail	£84.00	£98.70
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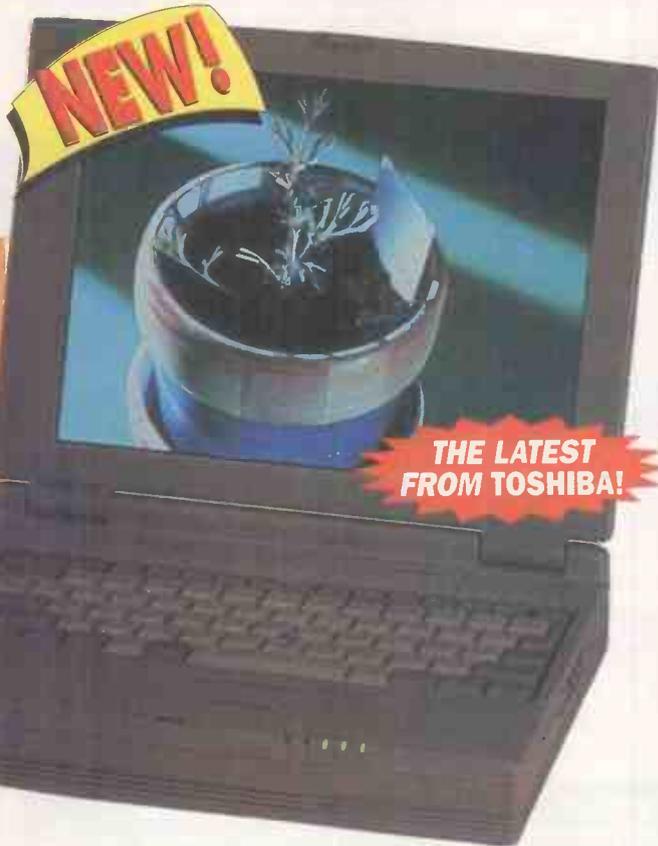
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Welcome to Technomatic's November edition! These pages are absolutely packed with major innovations and exceptional deals on every leading brand. Take a moment to look through the Hewlett Packard printer line-up (pp12-14) - you'll find a range of FREE promotions across the board. For Memory and Hard Disk drives, we've worked hard to bring you the very latest products at rock bottom prices to ensure upgrading your PC doesn't break the bank! (see pp10-11 and 19). For those of you looking for the latest desktop or notebook technology, there's never been a better time to buy. We are working closer than ever with companies like HP, Toshiba, IBM and Compaq to guarantee you big name quality at amazing prices, and with exceptional pre- and post-sales support. On the software side, turn to page 31 to see how licensing can revolutionise the way your business buys software - the savings are impressive!



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The table shows typical prices based on the examples listed. However, please confirm total order weight with your sales representative at time of ordering. Special quotations for larger orders and overseas shipping are available on request.



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Powerful Desktop Business Solutions from COMPAQ

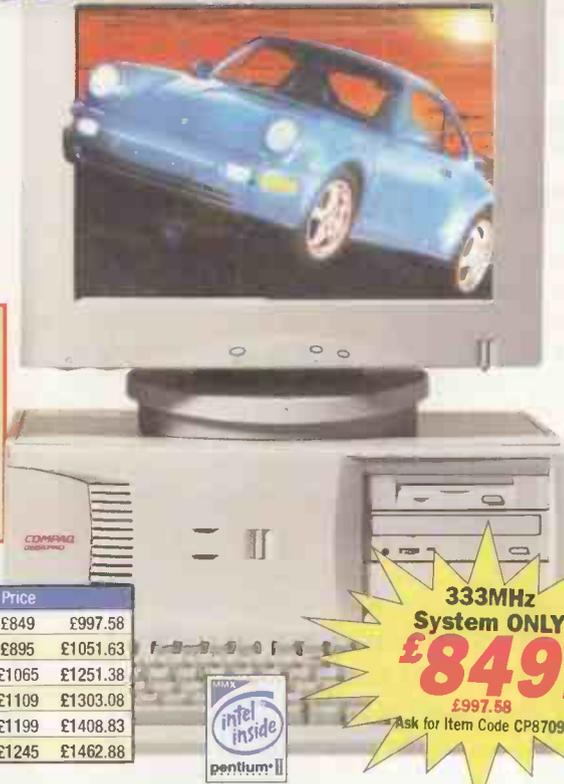
COMPAQ DESKPRO EP SERIES

Available With Either Powerful Pentium® II or NEW Budget-Priced Celeron Processors!

The Compaq Deskpro EP Series enables you to choose from entry level 333MHz processors to high-powered Intel Pentium® II processor, with speeds as fast as 400MHz! All models include either ATI RAGE IIC AGP graphics cards or ATI Rage Pro Turbo graphics cards that provide advanced 2D, 3D, and multimedia performance. The Compaq Deskpro EP Series delivers a new chassis design, enabling the desktop to be easily positioned as a minitower by simply rotating the quick-release drives and placing the chassis on its side. This interchangeability between desktop and minitower profiles allows the Deskpro EP Series to be adapted to a variety of workplaces and to be easily reconfigured.

ONLY £145!
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New!



333MHz System ONLY
£849!
 £997.58
 Ask for Item Code CP8709

DESKPRO EP SERIES FEATURES:

- ✓ Flexible desktop/minitower chassis
- ✓ 512K cache standard on all Pentium® II models
- ✓ Fast Intel Pentium® II Processors up to 400MHz
- ✓ Choose from Windows® 95 or NT Workstation models
- ✓ CD-ROM drive on selected models
- ✓ Manufacturer's three-year limited warranty
- ✓ Large capacity, Ultra ATA hard drives

Order No.	Processor	Speed	RAM/Max	HD	CD-ROM	Cache	Video Card	OS	Price
CP8709	Pentium II	333MHz	32MB/256MB	3.2GB	24X	512KB	2MB AGP	95	£849 £997.58
CP8080	Pentium II	333MHz	32MB/256MB	3.2GB	24X	512KB	4MB AGP	NT4	£895 £1051.63
CP7686	Pentium II	350MHz	64MB/384MB	6.4GB	24X	512KB	4MB AGP	95	£1065 £1251.38
CP7688	Pentium II	350MHz	64MB/384MB	6.4GB	24X	512KB	4MB AGP	NT4	£1109 £1303.08
CP7689	Pentium II	400MHz	64MB/384MB	6.4GB	24X	512KB	4MB AGP	95	£1199 £1408.83
CP7691	Pentium II	400MHz	64MB/384MB	6.4GB	24X	512KB	4MB AGP	NT4	£1245 £1462.88

COMPAQ DESKPRO EN SERIES

All with Pentium® II processors, as fast as 400MHz, plus powerful manageability features for network environments!

The Compaq DeskPro EN Series can be easily integrated into your enterprise environment. You can choose among 333MHz, 350MHz and 400MHz Pentium® II processors. All models include an ATI Rage Pro Turbo graphics card for 3-D acceleration. Compaq's Intelligent Manageability technology provides the tools you need to simplify and enhance desktop management within your network environment — so you can deploy, configure, secure, and troubleshoot every DeskPro PC in your network from a single workstation. The Compaq DeskPro EN Series is designed to deliver stability and consistency — enabling you to easily expand as your needs grow!



LEASING AVAILABLE ON ALL PRODUCTS SHOWN! SEE PAGE 4 FOR DETAILS!

Up to 400MHz!

DESKPRO EN SERIES FEATURES:

- ✓ Smart II Ultra ATA hard drive
- ✓ Choose from Windows® 95 or NT Workstation models
- ✓ 24X CD-ROM (select models)
- ✓ Intelligent Manageability
- ✓ PremierSound audio
- ✓ Manufacturer's three-year limited warranty
- ✓ ATI Rage Pro Turbo graphics

Order No.	Processor	Speed	RAM/Max	HD	CD-ROM	Video Card	NIC	OS	Price
CP8094	Pentium II	333MHz	32MB/384MB	3.2GB		4MB AGP	N	95	£899 £1056.33
CP8090	Pentium II	333MHz	32MB/384MB	3.2GB		4MB AGP	Y	95	£939 £1103.33
CP8107	Pentium II	350MHz	64MB/384MB	6.4GB	24X	4MB AGP	Y	95	£1119 £1314.83
CP8108	Pentium II	350MHz	64MB/384MB	6.4GB	24X	4MB AGP	Y	NT4	£1249 £1467.58
CP8085	Pentium II	400MHz	64MB/384MB	6.4GB	24X	4MB AGP	Y	95	£1319 £1549.83
CP8084	Pentium II	400MHz	64MB/384MB	6.4GB	24X	4MB AGP	Y	NT4	£1409 £1655.58

Monitor and CD-ROM sold separately.



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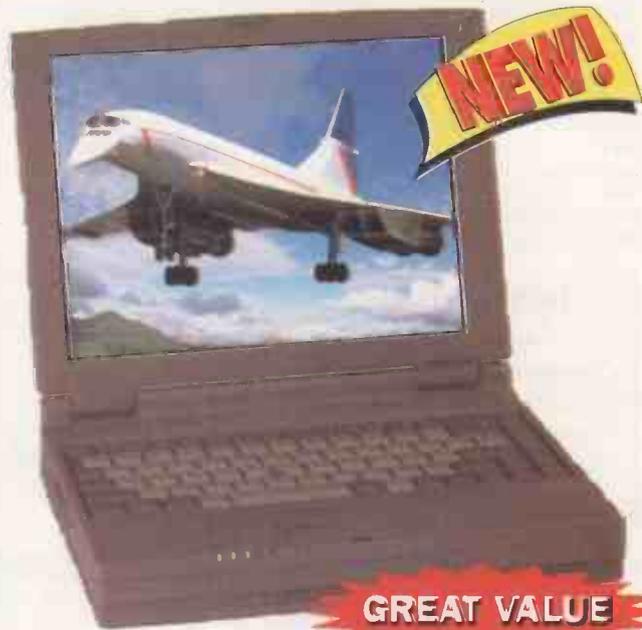
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The Latest Inno

TOSHIBA Satellite 4000 Series

Cutting Edge Technology at Incredible Value!

The Toshiba Satellite 4000 Series notebook computers feature a high-speed Intel Mobile Pentium®II 233MHz processor, The convenient all-in-one design, including built-in CD-ROM, diskette and hard disk drive gives you optimum performance and functionality wherever you happen to go. In addition, the 12.1" diagonal display provides 16 million colours with either a TFT or Colour bright LCD. Toshiba Satellite 4000 Series notebook computers provide top performance at an affordable price from the world leader in portable computing.



NEW!

- ✓ Intel Pentium®II 233MHz Processors
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- ✓ Integrated 24X (max) CD-ROM drive
- ✓ 3.82GB Hard Drive
- ✓ Windows 95/98 Dual Boot

GREAT VALUE

Code	Model	Price	Inc. VAT
NEW	Satellite 4000CDS (DSTN display)	CALL	CALL
NEW	Satellite 4000CDT (TFT display)	CALL	CALL

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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 utilises a standard platform with a single motherboard, system BIOS and graphics architecture that enable you to customise or expand your system while using the same system software image. This simplifies planning procurement, and provides for seamless technology transition.

- ✓ Choice of Intel Pentium®II 233, 266 or 300MHz processors
- ✓ Display sizes up to 14.1"
- ✓ Up to 7.63GB Hard Drive



NEW!

Code	Processor	Memory	HDD	CD-ROM	Display	Price	Inc. VAT
NEW	Pentium®II 233MHz	32MB	3.82GB	24X	12.1" DSTN	CALL	CALL
NEW	Pentium®II 233MHz	32MB	3.82GB	24X	12.1" TFT	CALL	CALL
NEW	Pentium®II 266MHz	64MB	3.82GB	24X	13.1" TFT	CALL	CALL
NEW	Pentium®II 300MHz	64MB	3.82GB	24X	13.1" TFT	CALL	CALL
NEW	Pentium®II 300MHz	64MB	7.63GB	2XDVD	14.1" TFT	CALL	CALL



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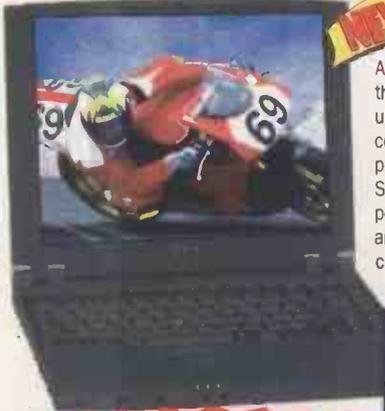
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- ✓ 32MB SDRAM (expandable to 256MB)
- ✓ 12.1" TFT Display

Code	Description	Processor	Memory	HD/CD	Screen	Price	Inc. VAT
NEW	Portege 7010CT	266MHz MMX	32MB	3.82GB	10.4" TFT	CALL	CALL

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Code	Description	Processor	Memory	HD/CD	Screen	Price	Inc. VAT
CP6692	Libretto 70CT	120MHz MMX	16MB	1.51GB	6.1" TFT	£835	£981.13
CP6904	Libretto 100CT	166MHz MMX	32MB	2.02GB	7.1" TFT	£1089	£1279.58

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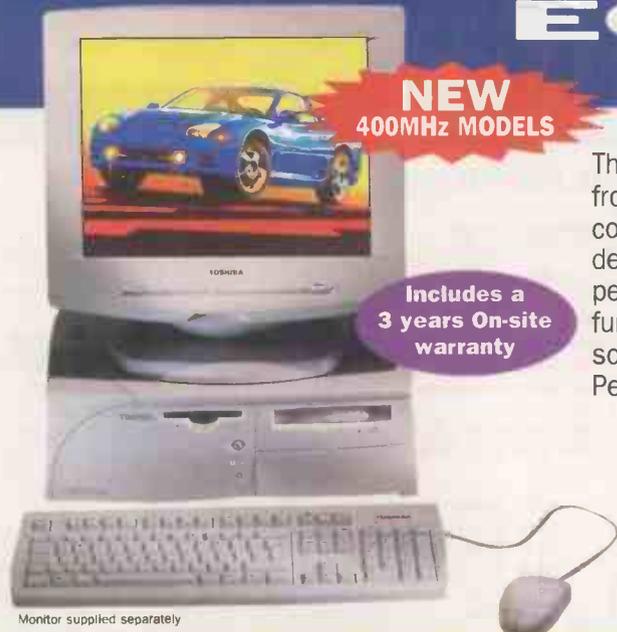
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- ✓ CD-ROM on selected models
- ✓ Integrated Intel 100Base-TX network support
- ✓ Windows 95 or Windows NT Workstation 4.0

Item#	Model	Speed	RAM	HDD	CD	LAN	Price	Inc. VAT
CP8336	7000S	300MHz	32MB	4.3GB	24X	N	£669.00	£786.08
CP7233	7000D	300MHz	32MB	4.3GB	24X	N	£715.00	£840.13
CP8338	7000S	300MHz	32MB	4.3GB	24X	Y	£715.00	£840.13
CP8344	7000D	300MHz	32MB	4.3GB	24X	Y	£765.00	£898.88
CP8677	7100S	350MHz	64MB	4.3GB	32X	N	£809.00	£950.58
CP8685	7100D	350MHz	64MB	4.3GB	32X	N	£849.00	£997.58
CP8679	7100S	400MHz	64MB	4.3GB	32X	N	£935.00	£1,098.63
CP8688	7100D	400MHz	64MB	4.3GB	32X	N	£979.00	£1,150.33

Please call for the full list of Toshiba Equium Desktops



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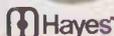


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Item#	Model	Processor	Speed	RAM/Max	Display	Hard drive	CD-ROM	OS	Price	(inc. VAT)
CP7049	Model AAO	Pentium w/MMX	266MHz	32MB/96MB	12.1" TFT	5.1GB	24X	95	£1489	(£1749.58)
CP7493	Model EAO	Pentium II	233MHz	32MB/96MB	12.1" HPA	4.0GB	24X	95	£1319	(£1549.83)
CP7495	Model FAO	Pentium II	266MHz	32MB/96MB	12.1" TFT	5.1GB	24X	95	£1769	(£2078.58)

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Item#	Model	Processor	Speed	RAM/Max	Display	Hard drive	CD-ROM	OS	Price	(inc. VAT)
CP9050	Thinkpad 600 Model 350	Pentium II	233MHz	32MB/256MB	12.1" TFT	3.2GB	24X	95	£2029	(£2384.08)
CP7499	Thinkpad 600 Model 410	Pentium II	233MHz	32MB/288MB	13.3" TFT	3.2GB	24X	95	£2199	(£2583.83)
CP7500	Thinkpad 600 Model 510	Pentium II	266MHz	32MB/288MB	13.3" TFT	4.0GB	24X	95	£2449	(£2877.58)
CP8065	Thinkpad 600 Model 910	Pentium II	266MHz	32MB/288MB	13.3" TFT	4.0GB	24X	NT4	£2509	(£2948.08)

IBM PC 300GL Series

Superb Performance and Value

FEATURES

- Choice of Intel Celeron® 300MHz or up to Pentium® II 400MHz processors
- 16 or 32MB SDRAM as Standard
- 2.1GB or 3.2GB Hard Drives
- 2MB AGP Graphics Controller
- Choice of Windows® 95 or Windows® NT Workstation
- 3 Year Warranty (Parts and Labour)

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£574.58 monitor not included CP8495

NEW Celeron® models

The PC 300GL range delivers performance with maximum affordability. When networked, these PCs are easy to manage as a result of integrated Wake on LAN technology and LANClient Control Manager software which help boost productivity and remote system setup. The Advanced chassis design is available in Desktop or Mini-tower formats.

Item#	Processor	Speed	RAM/Max	Hard drive	Cache	Design	OS	Price	(inc. VAT)
CP8495	Celeron	300MHz	16MB/256MB	2.1GB		Desktop	95	£489	(£574.58)
CP8496	Celeron	300MHz	32MB/256MB	3.2GB		Mini-tower	95	£549	(£645.08)
CP8498	Pentium II	333MHz	32MB/384MB	3.2GB	512KB	Desktop	95	£775	(£910.63)
CP8705	Pentium II	333MHz	32MB/384MB	3.2GB	512KB	Desktop	NT4	£815	(£957.63)
CP8499	Pentium II	350MHz	32MB/384MB	3.2GB	512KB	Desktop	95	£899	(£1056.33)
CP8500	Pentium II	350MHz	32MB/384MB	3.2GB	512KB	Desktop	NT4	£939	(£1103.33)
CP8501	Pentium II	400MHz	32MB/384MB	3.2GB	512KB	Desktop	NT4	£999	(£1173.83)

Monitor and CD-ROM supplied separately.

intel inside celeron™

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Model	Processor	Order No.	RAM	HDD	CD-ROM	Design	OS	Price	Inc. VAT
7111	Celeron® 266MHz	CP9068	32MB	2.1GB	Micro	W98		£459.00	£539.33
7133	Celeron® 300A	CP9187	32MB	4.3GB	32X	Micro	W98	£535.00	£628.63
7114	Celeron® 333MHz	CP9069	32MB	4.3GB	Micro	W98		£615.00	£722.63
7174	Celeron® 333MHz	CP9072	32MB	4.3GB	32X	Micro	W98	£739.00	£868.33
7176	Pentium® II 333MHz	CP9073	32MB	4.3GB	32X	Micro	W98	£779.00	£915.33
8531	Pentium® II 350MHz	CP9064	32MB	4.3GB	32X	Mini	W98	£989.00	£1,162.08
8532NT	Pentium® II 400MHz	CP9065	64MB	8.0GB	32X	Mini	WNT	£1,185.00	£1,392.38
8533	Pentium® II 450MHz	CP9198	64MB	8.0GB	32X	Mini	W98	£1,245.00	£1,462.88

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17" Performance	MT2354£469	£551.08
19" Mainstream	MT1765£525	£616.88
21" Performance	MT1764*£919	£1079.83

Monitor supplied separately. CD-ROM on selected models. *Includes MS Word.

Vectra VE

The HP Vectra VE PCs are designed to give you the latest mainstream performance at entry-level pricing. Available with a choice of Celeron or Pentium II based processors, these PCs also feature Advanced Configuration and Power Interface (ACPI) power management, SDRAM and Ultra ATA hard disk drives. The new Matrox MGA G100 AGP graphics engine supports resolutions up to 1600 x 1200. With the included free HP Top Tools software, the HP Vectra VE PCs offer extra management security and data protection capacities. HP's quality, reliability and service are backed up by three-years warranty (one year on-site, two-years RTB.)

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FROM ONLY £445 £522.88 CP8511



Monitor supplied separately. Desktop design shown. CD-ROM on selected models.

Processor	Item#	RAM	HDD	Design	OS	Price	Inc. VAT
Vectra VE							
Celeron 266MHz	CP8511	32MB	2.5GB	MT	W95	£445	£522.88
CeleronA 300MHz	CP9202	32MB	3.2GB	DT	W95	£619	£727.33
Pentium II 333MHz	CP8233	32MB	3.2GB	DT	W95	£685	£804.88
Pentium II 333MHz	CP8234	32MB	3.2GB	MT	W95	£685	£804.88
Pentium II 350MHz	CP8242	32MB	3.2GB	DT	W95	£759	£891.83

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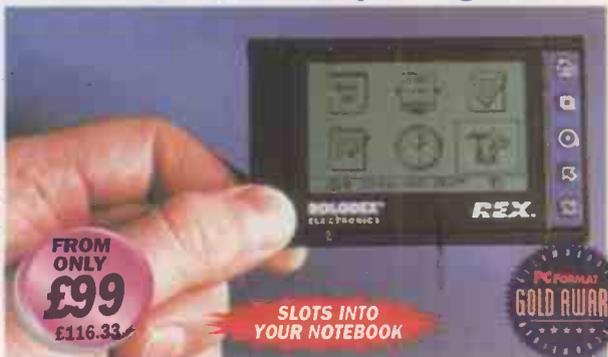
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PDA0355	REX-3	£99.00	£116.33
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UT8007	Intellisync for REX	£24.95	£29.32

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AC24693	Stylus for Palm III (3-Pack)	£6.95	£8.17
UT7907	Intellisync for Palm III	£34.00	£39.95

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NOTEBOOKS

Model name	Part Number	Processor	Speed	RAM	Max RAM	Display size	Display	HDD	CD-ROM	Cache	O/S	SKU	Price	Inc. VAT
Ascentia VL5200S	503530-102	Pentium w/MMX	200MHz	32MB	128MB	12.1	HPA	2.1GB	24X	512KB	NT4	CP8113	£915.00	£1,075.13
Ascentia VL5230S	503531-102	Pentium w/MMX	233MHz	32MB	128MB	12.1	HPA	3.2GB	24X	512KB	NT4	CP8115	£1,059.00	£1,244.33
Ascentia VL5230T	503533-002	Pentium w/MMX	233MHz	32MB	128MB	12.1	TFT	3.2GB	24X	512KB	95	CP8109	£1,089.00	£1,279.58
Ascentia VL5230T	503533-102	Pentium w/MMX	233MHz	32MB	128MB	12.1	TFT	3.2GB	24X	512KB	NT4	CP8110	@1,169.00	£1,373.58
Ascentia VL5200S	503530-002	Pentium w/MMX	200MHz	32MB	128MB	12.1	HPA	2.1GB	24X	512KB	95	CP8112	£839.00	£985.83
Ascentia VL5230S	503531-002	Pentium w/MMX	233MHz	32MB	128MB	12.1	HPA	3.2GB	24X	512KB	95	CP8114	£979.00	£1,150.33

COMPAQ

Armada 1573D	201810-032	Pentium w/MMX	233MHz	32MB	96MB	12.1	CTFT	3.2GB	20X	512KB	95	CP8580	£1,035.00	£1,216.13
Armada 1598DT	201650-032	Pentium w/MMX	266MHz	32MB	96MB	13.3	TFT	4GB	20X	512KB	95	CP7297	£1,485.00	£1,744.88
Armada 4220T	290950-032	Pentium w/MMX	266MHz	32MB	96MB	12.1	TFT	4GB		512KB	95	CP6791	£1,709.00	£2,008.08
Armada 7380DMT	306000-035	Pentium w/MMX	266MHz	32MB	128MB	12.1	TFT	4GB	20X	512KB	95	CP6783	£2,069.00	£2,431.08
Armada 7380DMT	306010-036	Pentium w/MMX	266MHz	32MB	128MB	12.1	TFT	4GB	20X	512KB	NT4	CP6784	£2,159.00	£2,536.83
Armada 7792DMT	315780-031	Pentium w/MMX	266MHz	32MB	144MB	13.3	TFT	5GB	20X	512KB	95	CP6778	£2,159.00	£2,536.83
Armada 7792DMT	315800-031	Pentium w/MMX	266MHz	32MB	144MB	13.3	TFT	5GB	20X	512KB	NT4	CP6779	£2,249.00	£2,642.58
Armada A17	316290-032	Pentium II	233MHz	32MB	96MB	12.1	CTFT	4.0GB	24X	512KB	95	CP8581	£1,525.00	£1,791.88
Armada A17	316290-034	Pentium II	233MHz	32MB	96MB	12.1	CTFT	4.0GB	24X	512KB	98	CP8582	£1,525.00	£1,791.88
Armada 7800	314950-032	Pentium II	266MHz	64MB	160MB	13.3	CTFT	5GB	20X	512KB	95	CP7628	£2,525.00	£2,966.88
Armada 7800	315150-032	Pentium II	266MHz	64MB	160MB	13.3	CTFT	5GB	20X	512KB	NT4	CP7630	£2,615.00	£3,072.63
Armada A17	316390-032	Pentium II	266MHz	32MB	96MB	13.3	CTFT	4.0GB	24X	512KB	95	CP8583	£1,889.00	£2,219.58
Armada A78	340350-032	Pentium II	266MHz	64MB	160MB	14.1	CTFT	8.0GB	24X	512KB	95	CP8584	£2,879.00	£3,382.83
Armada A78	340250-032	Pentium II	266MHz	64MB	160MB	14.1	CTFT	8.0GB	24X	512KB	NT4	CP8585	£2,975.00	£3,495.63

FUJITSU

Lifebook 675TX	JR63472331E2	Pentium w/MMX	200MHz	32MB	96MB	12.1	TFT	3.2GB		512KB	95	CP5971	£1,579.00	£1,855.33
Lifebook 675TX	JR63474331E2	Pentium w/MMX	200MHz	32MB	96MB	12.1	TFT	3.2GB	20X	512KB	95	CP7334	£1,879.00	£2,207.83
Lifebook 270DX	JT64437311E2	Pentium w/MMX	200MHz	32MB	96MB	12.1	HPA	3.2GB		512KB	95	CP7338	£879.00	£1,032.83
Lifebook 985TX	JP74462351E2	Pentium w/MMX	233MHz	32MB	160MB	13.3	TFT	5GB	20X	512KB	95	CP6967	£2,345.00	£2,755.38

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OmniBook 2100	F1597W	Pentium II	233MHz	32MB	96MB	12.1	DSTN	3.2GB		512KB	95	CP8560	£1,279.00	£1,502.83
OmniBook 2100	F1598W	Pentium II	233MHz	32MB	96MB	12.1	TFT	4GB		512KB	95	CP8562	£1,555.00	£1,855.33
OmniBook 4100	F1462W	Pentium II	233MHz	32MB	96MB	13.3	TFT	4GB	24X	512KB	95	CP7869	£1,989.00	£2,337.08
OmniBook 2100	F1599W	Pentium II	266MHz	32MB	96MB	12.1	TFT	4GB		512KB	95	CP8564	£1,735.00	£2,038.63
OmniBook 4100	F1464W	Pentium II	266MHz	32MB	96MB	14.1	TFT	6.4GB	24X	512KB	95	CP7993	£2,679.00	£3,147.83
OmniBook 4100	F1479W	Pentium II	266MHz	32MB	96MB	14.1	TFT	4GB	24X	512KB	95	CP8074	£2,489.00	£2,924.58
OmniBook 7100	F1441W	Pentium II	266MHz	32MB	160MB	14.1	TFT	6.4GB	24X	512KB	95	CP7872	£2,659.00	£3,124.33
OmniBook 7100	F1442W	Pentium II	266MHz	32MB	160MB	14.1	TFT	8.1GB	24X	512KB	95	CP7874	£2,825.00	£3,319.38

IBM

Thinkpad 380XD Model 8A0	3808AUK	Pentium w/MMX	233MHz	32MB	96MB	12.1	FRSTN	3.2GB	24X	512KB	95	CP7047	£1,139.00	£1,338.33
Thinkpad 380XD Model 9A0	3809AUK	Pentium w/MMX	233MHz	32MB	96MB	12.1	TFT	4.0GB	24X	512KB	95	CP7048	£1,359.00	£1,596.83
Thinkpad 600 Model 210	60021UK	Pentium w/MMX	233MHz	32MB	256MB	13.3	HPA	3.2GB	24X	512KB	95	CP7497	£1,525.00	£1,791.88
Thinkpad 770 Model 300	77030UK	Pentium w/MMX	233MHz	32MB	256MB	13.3	TFT	4GB		512KB	95	CP5745	£1,959.00	£2,301.83
Thinkpad 380XD Model AA0	380AAUK	Pentium w/MMX	266MHz	32MB	96MB	12.1	TFT	5.1GB	24X	512KB	95	CP7049	£1,485.00	£1,744.88
Thinkpad 380XD Model EA0	380EAUK	Pentium II	233MHz	32MB	96MB	12.1	HPA	4.0GB	24X	512KB	95	CP7493	£1,319.00	£1,549.83
Thinkpad 600 Model 410	60041UK	Pentium II	233MHz	32MB	288MB	13.3	TFT	3.2GB	24X	512KB	95	CP7499	£2,199.00	£2,583.83
Thinkpad 380XD Model FA0	380FAUK	Pentium II	266MHz	32MB	96MB	12.1	TFT	5.1GB	24X	512KB	95	CP7495	£1,765.00	£2,073.88
Thinkpad 600 Model 510	60051UK	Pentium II	266MHz	32MB	288MB	13.3	TFT	4.0GB	24X	512KB	95	CP7500	£2,449.00	£2,877.58
Thinkpad 770 Model 510	77051UK	Pentium II	266MHz	32MB	288MB	14.1	TFT	5.1GB		512KB	95	CP7502	£2,565.00	£3,013.88
Thinkpad 770 Model 520	77052UK	Pentium II	266MHz	32MB	288MB	14.1	TFT	5.1GB		512KB	NT4	CP7503	£2,629.00	£3,089.08
Thinkpad 770 Model 5A0	7705AUK	Pentium II	266MHz	64MB	288MB	14.1	TFT	8.1GB	DVD	512KB	95	CP7504	£3,179.00	£3,735.33
Thinkpad 600 Model 910	60091UK	Pentium II	266MHz	32MB	288MB	13.3	TFT	4.0GB	24X	512KB	NT4	CP8065	£2,515.00	£2,955.13

TOSHIBA

Satellite 320CDS	PA1271UKV	Pentium w/MMX	233MHz	32MB	160MB	12.1	STN	3.82GB	20X	256KB	95	CP7487	£999.00	£1,173.83
Satellite 320CDT	PA1271UKXT	Pentium w/MMX	233MHz	32MB	160MB	12.1	TFT	3.82GB	20X	256KB	95	CP7488	£1,255.00	£1,474.63
Satellite Pro 480CDT	PA1256UKXT	Pentium w/MMX	233MHz	32MB	160MB	12.1	TFT	3.82GB	10X	256KB	95	CP6495	£1,595.00	£1,874.13
Satellite Pro 490CDT	PA1269UKXT	Pentium II	233MHz	32MB	160MB	12.1	TFT	3.82GB	20X	512KB	95	CP7489	£1,679.00	£1,972.83
Satellite Pro 490XCDT	PA1270UKXT	Pentium II	266MHz	32MB	160MB	13.3	TFT	3.82GB	20X	512KB	95	CP7490	£1,929.00	£2,266.58
Portege 320CT	PA1274UKXT	Pentium w/MMX	266MHz	32MB	64MB	10.4	TFT	3.82GB		256KB	95	CP7085	£1,845.00	£2,167.88
Tecra 550CDT	PA1268UKXT	Pentium w/MMX	266MHz	32MB	160MB	12.1	TFT	3.82GB	20X	512KB	95	CP7491	£1,845.00	£2,167.88
Tecra 780DVD	PA1264UKXT	Pentium II	266MHz	64MB	192MB	13.3	TFT	4.77GB	DVD	512KB	95	CP7492	£3,025.00	£3,554.38
Libretto 70CT	PA1260UKXT	Pentium w/MMX	120MHz	16MB	32MB	6.1	TFT	1.51GB		32KB	95	CP6692	£835.00	£981.13
Libretto 100CT	PA1254UKXT	Pentium w/MMX	166MHz	32MB	64MB	7.1	TFT	2.02GB		256KB	95	CP6904	£1,089.00	£1,279.58

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RAM	Speed	Layout	Order No.	New Sell	Inc.VAT
8MB	60ns	2 x 32	EURMY1332	£7.50	£8.81
16MB	60ns	4 x 32	EURMY1555	£10.50	£12.34
32MB	60ns	8 x 32	EURMY1643	£18.50	£21.74
64MB	60ns	16 x 32	MY6995	£72.00	£84.60

72-pin FPM Non-Parity SIMMS

RAM	Speed	Layout	Order No.	New Sell	Inc.VAT
8MB	70ns	2 x 32	EURMY1249	£8.00	£9.40
8MB	60ns	2 x 32	EURMY1250	£8.00	£9.40
16MB	70ns	4 x 32	EURMY1252	£13.95	£16.39
16MB	60ns	4 x 32	EURMY1253	£13.95	£16.39
32MB	70ns	8 x 32	EURMY1254	£26.00	£30.55
32MB	60ns	8 x 32	EURMY1293	£26.00	£30.55
64MB	70ns	16 x 32	MY7529	£99.00	£116.33
64MB	60ns	16 x 32	MY7936	£99.00	£116.33

168-pin 100MHz (PC100) SDRAM DIMMS

RAM	Speed	Layout	Order No.	New Sell	Inc.VAT
32MB	8ns	4 x 64	MY9369	£27.50	£32.31
64MB	8ns	8 x 64	MY9370	£59.00	£69.33
128MB	8ns	16 x 64	MY9371	£135.00	£158.63
256MB	8ns	32 x 64	MY9301	£399.00	£468.83

168-pin 66MHz SDRAM DIMMS

RAM	Speed	Layout	Order No.	New Sell	Inc.VAT
16MB	10ns	2 x 64	MY6590	£15.50	£18.21
32MB	10ns	4 x 64	MY6589	£32.50	£38.19
64MB	10ns	8 x 64	MY7504	£65.00	£76.38
128MB	10ns	16 x 64	MY8004	£129.00	£151.58

ACER - NOTEBOOKS

Order No.	Model	Upgrade Size	Price	Inc.VAT
MY6361	AcerNote Lite Nouvo, 350ec, 370, 970	16MB	£23.95	£28.14
MY6363	AcerNote Lite Nouvo, 350ec, 370, 970	32MB	£47.95	£56.34
MY19999	AcerNote Pro 950, 953, 954, 955, 957, 959	16MB	£23.95	£28.14
MY6361	Extensa 355, 390, 395, 600, 605, 610,	16MB	£23.95	£28.14
MY6363	Extensa 355, 390, 395, 600, 605, 610,	32MB	£47.95	£56.34
MY6361	TravelMate 6020, 6030, 6050	16MB	£23.95	£28.14
MY6363	TravelMate 6020, 6030, 6050	32MB	£47.95	£56.34

AST-Notebooks

Order No.	Model	Size	Price	Inc.VAT
EURMY1333	Ascentia 800N,810N	4MB	£39.95	£46.94
EURMY1339	Ascentia 800N,810N	16MB	£49.95	£58.69
EURMY1501	Ascentia 900N,910N	4MB	£44.95	£52.82
EURMY1502	Ascentia 900N,910N	8MB	£44.95	£52.82
EURMY1503	Ascentia 900N,910N	16MB	£54.95	£64.57
EURMY1631	Ascentia 950N	8MB	£54.95	£64.57
EURMY1630	Ascentia 950N	16MB	£59.95	£70.44
EURMY1674	Ascentia P Series	8MB	£49.95	£58.69
EURMY1675	Ascentia P Series	16MB	£59.95	£70.44
EURMY1672	Ascentia P Series	32MB	£119.00	£139.83
EURMY1677	Ascentia J Series	8MB	£49.95	£58.69
EURMY1676	Ascentia J Series	16MB	£59.95	£70.44
EURMY1673	Ascentia J Series	32MB	£99.95	£117.44
MY7018	Ascentia A & M Series	8MB	£39.95	£46.94
MY7075	Ascentia A & M Series	16MB	£49.95	£58.69
MY7509	Ascentia A & M Series	32MB	£99.95	£117.44
MY7633	Ascentia A & M Series	64MB	£189.00	£222.08

COMPAQ - NOTEBOOKS

Order No.	Model	Size	Price	Inc.VAT
MY6361	Armada 1500 Series, 7300 Series, 7700 Series	16MB	£23.95	£28.14
MY6363	Armada 1500 Series, 7300 Series, 7700 Series	32MB	£47.95	£56.34
MY7633	Armada 1500 Series, 7300 Series, 7700 Series	64MB	£109.95	£129.19
MY6369	Armada 4110, 4110D, 4120, 4120T, 4125D	16MB	£43.95	£51.64
MY6371	Armada 4110, 4110D, 4120, 4120T, 4125D	32MB	£77.95	£91.59
MY6367	Armada 1100, 1120, 1120T, 1125	16MB	£37.95	£44.59

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Order No.	Model	Size	Price	Inc.VAT
MY6590	DeskPro 2000/4000 166, 200, 233 (Pentium w/ MMX)	16MB	£15.50	£18.21
MY6589	DeskPro 2000/4000 166, 200, 233 (Pentium w/ MMX)	32MB	£32.50	£38.19
MY7504	DeskPro 2000/4000 166, 200, 233 (Pentium w/ MMX)	64MB	£65.00	£76.38
MY19987	Deskpro 2000/4000/6000 Pentium/Pentium Pro	16MB	£19.00	£22.33
MY19986	Deskpro 2000/4000/6000 Pentium/Pentium Pro	32MB	£35.00	£41.13
MY9289	DeskPro 6000 Pentium II w/MMX	64MB	£99.00	£116.33
MY19997	Deskpro E series Pentiums	16MB	£19.00	£22.33
MY19998	Deskpro E series Pentiums	32MB	£35.00	£41.13
MY9369	Deskpro EN/EP 6350, 6400	32MB	£27.50	£32.31
MY9370	Deskpro EN/EP 6350, 6400	64MB	£59.00	£69.33
MY19996	Proliant 1200, 1600, 3000, 5500	16MB	£55.95	£65.74
MY19995	Proliant 1200, 1600, 3000, 5500	32MB	£99.95	£117.44
MY19994	Proliant 1200, 1600, 3000, 5500	64MB	£217.95	£256.09
MY19997	Prolinea 2000/ML 5133, 5150, 5166	16MB	£19.00	£22.33
MY19998	Prolinea 2000/ML 5133, 5150, 5166	32MB	£35.00	£41.13

DELL - DESKTOPS/SERVERS

Order No.	Model	Size	Price	Inc.VAT
EURMY1252	Dimension 4**V, Performance 425s/L/M	16MB	£13.95	£16.39
MY19993	Dimension 425si, 433i/si, 450i, 466i	16MB	£46.95	£55.17
MY19992	Dimension 425si, 433i/si, 450i, 466i	32MB	£85.95	£100.99
MY6590	Dimension XPS 166s, 200s	16MB	£15.50	£18.21
MY6589	Dimension XPS 166s, 200s	32MB	£32.50	£38.19
MY6590	Dimension XPS M166s, M200s, P133s, P166s, P200s	16MB	£15.50	£18.21
MY6589	Dimension XPS M166s, M200s, P133s, P166s, P200s	32MB	£32.50	£38.19
EURMY1252	Dimension XPS 450, 466, 4100, OptiPlex 4**/L/M	16MB	£13.95	£16.39

SIEMENS NIXDORF - NOTEBOOKS

Order No.	Model	Upgrade Size	Price	Inc.VAT
MY6361	Scenic Mobile 510, 710	16MB	£23.95	£28.14
MY6363	Scenic Mobile 510, 710	32MB	£47.95	£56.34
MY7633	Scenic Mobile 510, 710	64MB	£108.95	£128.02

SIEMENS NIXDORF - DESKTOPS

Order No.	Model	Upgrade Size	Price	Inc.VAT
MY7044	Scenic D6 Pentium Pro 200, 266	32MB	£51.95	£61.04
MY7506	Scenic D6 Pentium Pro 200, 266	64MB	£96.95	£113.92

HP - DESKTOPS/SERVERS

Order No.	Model	Upgrade Size	Price	Inc.VAT
MY6590	Kayak XA Series	16MB	£15.50	£18.21
MY6589	Kayak XA Series	32MB	£32.50	£38.19
MY7504	Kayak XA Series	64MB	£65.00	£76.38
MY9289	Kayak XU and XW Series	64MB	£99.00	£116.33
MY7507	NetServer LH Pro 6/200, 6/200 SMP	16MB	£14.95	£17.57
MY7044	NetServer LH Pro 6/200, 6/200 SMP	32MB	£51.95	£61.04
MY7506	NetServer LH Pro 6/200, 6/200 SMP	64MB	£96.95	£113.92
EURMY1252	Vectra VE 5/75, 5/90, Vectra VL2 5/60	16MB	£13.95	£16.39
EURMY1252	Vectra XM Series 3 Pentium, Pavilion 7000 Series	16MB	£13.95	£16.39
EURMY1239	Vectra XP/60, Vectra XU 5/90, 5/90C (GX)	16MB	£23.95	£28.14
EURMY1241	Vectra XP/60, Vectra XU 5/90, 5/90C (GX)	32MB	£42.95	£50.47

IBM - DESKTOPS

Order No.	Model	Upgrade Size	Price	Inc.VAT
MY6590	PC 300 GL	16MB	£15.50	£18.21
MY6589	PC 300 GL	32MB	£32.50	£38.19
MY19989	PC 300 Series Model 360 S150	16MB	£15.00	£17.63
MY7507	PC 365 S200 6589-12U, 18U, 14U	16MB	£14.95	£17.57
MY7044	PC 365 S200 6589-12U, 18U, 14U	32MB	£14.95	£17.57
MY7506	PC 365 S200 6589-12U, 18U, 14U	64MB	£96.95	£113.92

IBM - NOTEBOOKS

Order No.	Model	Upgrade Size	Price	Inc.VAT
MY6361	ThinkPad 365 X Models(X & XD), ThinkPad 380/D, 385	16MB	£23.95	£28.14
MY6363	ThinkPad 365 X Models(X & XD), ThinkPad 380/D, 385	32MB	£47.95	£56.34
MY8057	ThinkPad 365C/CS/CD/CSD; 365E/ED	16MB	£29.95	£35.19
MY6361	ThinkPad 560E, ThinkPad 760 E, EL, ELD	16MB	£23.95	£28.14
MY6363	ThinkPad 560E, ThinkPad 760 E, EL, ELD	32MB	£47.95	£56.34
MY6361	ThinkPad 760XD, 760XL, 765D, 765L	16MB	£23.95	£28.14
MY6363	ThinkPad 760XD, 760XL, 765D, 765L	32MB	£47.95	£56.34
MY19988	Thinkpad 770	16MB	£23.95	£28.14
MY9871	Thinkpad 770	32MB	£46.95	£55.17
MY8895	Thinkpad 770	64MB	£90.95	£106.87

DIGITAL - NOTEBOOKS

Order No.	Model	Upgrade Size	Price	Inc.VAT
MY8057	HiNote Ultra/ Ultra II	16MB	£29.95	£35.19
MY19991	HiNote VP 520, 525, 535, 545	16MB	£59.95	£70.44
MY19990	HiNote VP 703, 710, 715, 717, 725, 735, 745	16MB	£55.95	£65.74
MY9871	HiNote VP 703, 710, 715, 717, 725, 735, 745	32MB	£46.95	£55.17
MY8895	HiNote VP 703, 710, 715, 717, 725, 735, 745	64MB	£89.95	£105.69

TOSHIBA - NOTEBOOKS

Order No.	Model	Upgrade Size	Price	Inv.VAT
EURMY1308	Satellite 100, 110, 200, 210, 400, 410, 420, 430 Series	16MB	£36.95	£43.42
EURMY1462	Satellite 100, 110, 200, 210, 400, 410, 420, 430 Series	32MB	£63.95	£75.14
MY6556	Satellite 100, 110, 200, 210, 400, 410, 420, 430 Series	64MB	£192.95	£226.72
MY6810	Portege 650CT, 660CDT	32MB	£51.95	£61.04
MY6876	Portege 650CT, 660CDT	64MB	£118.95	£139.77
MY6136	Portege 650CT, 660CDT, Tecra 750CDT, 750DVD	16MB	£29.95	£35.19
MY6136	Satellite 445CDT /CDX, 460CDT, Pro 440CDT /CDX	16MB	£29.95	£35.19
MY6810	Satellite 445CDT /CDX, 460CDT, Pro 440CDT /CDX	32MB	£51.95	£61.04
MY6875	Satellite 445CDT /CDX, 460CDT, Pro 440CDT /CDX	48MB	£125.95	£147.99
MY6876	Satellite 445CDT /CDX, 460CDT, Pro 440CDT /CDX	64MB	£118.95	£139.77
MY6136	Tecra 520CDT, 530CDT, 750CDT	16MB	£29.95	£35.19
MY6810	Tecra 520CDT, 530CDT, 750CDT	32MB	£51.95	£61.04
MY6875	Tecra 520CDT, 530CDT, 750CDT	48MB	£125.95	£147.99
MY6876	Tecra 520CDT, 530CDT, 750CDT	64MB	£118.95	£139.77
EURMY1308	Tecra 710CDT, 720CDT, 730 Series, 740CDT	16MB	£36.95	£43.42
EURMY1462	Tecra 710CDT, 720CDT, 730 Series, 740CDT	32MB	£63.95	£75.14
MY6556	Tecra 710CDT, 720CDT, 730 Series, 740CDT	64MB	£192.95	£226.72

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The Fast Professional Laser Printer for the Individual Business User

The HP LaserJet 6L printer is ideal for business users in Microsoft® Windows®, DOS or OS/2 environments who want the convenience and confidentiality of a desktop laser printer. The HP LaserJet 6L printer offers a fast 6 page-per-minute print speed, superior flexibility, optional network capability, and HP's proven laser technology for reliable performance year after year.

FEATURES

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- Prints on envelopes, labels, post cards and transparencies
- 26 Intellifont scalable typefaces built in
- 1 MB Standard, effectively doubled with MET

BN5584	HP LaserJet 6L Printer	£232.00	£272.60
C3906A	HP LaserJet 6L Toner Cartridge	£33.95	£39.89
EURWR0078	HP Support Pack	£77.00	£90.47

HP LaserJet 3100

Printer • Fax Copier • Scanner

Features:

- ✓ Professional communications documents
- ✓ 600 x 600dpi laser output
- ✓ 6ppm print, copy, scan 6 seconds per page fax
- Scan ahead to memory and separate paper paths support multitasking
- 2MB memory (150 fax pages)
- Windows 95, NT 4.0, 3.1/3.1
- Standalone fax/copier capable, even without connection to PC

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PR13320	HP LaserJet 3100	£471	£553.43
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- Up to 1200 dpi colour scanning
- 1 year warranty

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PR13279	OfficeJet 635	£339	£398.33
PR12623	OfficeJet 590	£296	£347.80
PR12187	OfficeJet 1150C	£491	£576.93

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PR12232	HP Laser Jet Companion	£79	£92.82
C3903A	Toner: HP LaserJet 6P/6MP	£45.95	£53.99

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WR1564	SupportPack 635	£72	£84.60
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- ✓ ProRes 1200 for quality graphic intensive documents
- ✓ 220 levels of grey
- ✓ HP JetAdmin
- ✓ Win NT 4.0 driver included



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BN5585	HP LaserJet 4000N	£914	£1073.95
BN5587	HP LaserJet 4000TN	£990	£1163.25
PA0990	HP Standard Capacity Toner Cartridge	£54.95	£64.56
PA0991	HP High Capacity Toner Cartridge	£76.95	£90.42

TAKE COVER Buy HP SupportPack

HP LaserJet 5000

Features a wide range of paper handling options

- ✓ 16ppm print speed
- ✓ 100MHz RISC processor
- ✓ 300dpi and 600dpi FastRes 1200
- ✓ PCL6, PCL5e Postscript language
- ✓ 80 scalable TrueType font, Postscript Level II emulation



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Image shows optional paper trays

BN5592	HP LaserJet 5000	£929	£1091.58
BN5593	HP LaserJet 5000N	£1334	£1567.45
BN5594	HP LaserJet 5000GN	£1649	£1937.58

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- ✓ 80 scalable true Type fonts



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PR13444

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PR13447	HP LaserJet 8000DN	£2099	£2466.33
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HP Colour LaserJet 5

Incredible Colour Laser Quality



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- ✓ 1200 dpi with RET
- ✓ 20MB standard
- ✓ Standard 250 sheet tray

EURPR1643	HP Color LaserJet 5	£2459	£2889.33
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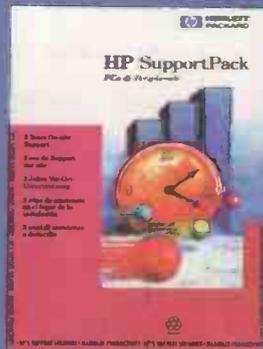
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Deskjet 690C Plus & SupportPack: BN4290:	£159	£186.83	LaserJet 8000 & SupportPack: BN4332:	£2249	£2642.58
LaserJet 6L & SupportPack: BN4262:	£299	£351.33	LaserJet 5000 & SupportPack: BN4331:	£1149	£1350.08
LaserJet 6P & SupportPack: BN3929:	£589	£692.08	OfficeJet 635 & SupportPack: BN4229:	£399	£468.83
LaserJet 6MP & SupportPack: BN3928:	£685	£805.88	Deskjet 720C & SupportPack: BN4228:	£189	£222.08
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Superb Offers* on the Latest Colour Printers from HP!

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HP 2000C / CN Printers - Professional Series Colour Printers



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 BN5589

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- ✓ Up to 600dpi with black pigmented ink
- ✓ PhotoREt II for photo quality
- ✓ Up to 10ppm black
- ✓ Up to 7ppm colour
- ✓ 160 TrueType fonts for Windows
- ✓ 2MB built-in RAM

BN5589	HP 2000C Printer	£450.00	£528.75
C4601A	250 sheet accessory paper tray for 2000C	£139.00	£163.33
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Expanding Possibilities

HP DeskJet 890C



- ✓ Up to 600 x 600dpi
- ✓ Up to 9ppm black, 2ppm colour
- ✓ MMX compatible
- ✓ Photo REt, Colour, Colour Smart II, Kodak Image Enhancements

ONLY £202
 (£237.35)
 BN5591



BN5591	HP DeskJet 890C	£202.00	£237.35
51645A	Black Ink Cartridge	£16.65	£19.56
C1823A	Colour Ink Cartridge	£24.45	£28.73
WR1219	Warranty-Support Pack	£66.00	£77.55

HP DeskJet 710C



ONLY £135
 (£158.63)
 BN5596

- Features:
- ✓ Crisp black text with HP pigmented ink, 600dpi
 - ✓ PhotoREt II for photo-quality. Kodak image enhancement
 - ✓ Up to 6ppm black, 3ppm colour

- ✓ 100 sheet input tray
- ✓ Compatible with Windows 98/95/3.1 & NT 4.0
- ✓ Best class in printing on plain paper

BN5596	HP DeskJet 710C	£135	£158.63
51645A	HP Black Ink Cart	£16.65	£19.56
C1823A	HP Colour Ink Cart	£24.45	£28.73
BN5595	HP DeskJet 720C	£149	£175.08
234318	HP SupportPack	£40	£47.00

HP DeskJet 1120C



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- ✓ A3 Capability, prints on media up to 0.3mm thick
- ✓ HP ZoomStart scaling technology
- ✓ 6.5 ppm black, 2ppm colour
- ✓ Windows NT 4.0 Driver-in-box
- ✓ Up to 600 x 600 dpi black
- ✓ PhotoREt II for photo quality

BN5597	HP DeskJet 1120C	£285	£334.88
51645A	Black Ink Cartridge	£16.65	£19.56
PA0892	Colour Ink Cartridge	£24.45	£28.73

HP DeskJet 690C



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 PR13997

- ✓ 600 x 600 dpi black, up to 600 x 300 dpi colour
- ✓ HP Real Life Imaging System
- ✓ Sharpest Black Printing with HP pigmented inks
- ✓ 30 True Type Fonts

PR13997	HP DeskJet 690C	£96	£112.80
51649A	Tri-color Ink Cart	£18.90	£22.21
PA0277	Photo Cart	£22.65	£26.61
AC20412	HP Photo Paper	£7.95	£9.34

HP DeskJet 420



- Features:
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 - ✓ 600dpi black, 300dpi colour
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 - ✓ Space saving fold-away paper tray
 - ✓ Vivid, full-colour printing
 - ✓ Compatible with DOS, Windows 98/95 and 3.1

PR13996	HP DeskJet 420	£66.00	£77.55
51626A	HP Black Ink Cart	£14.95	£17.57
51625A	HP Colour Ink Cart	£16.25	£19.09

HP DeskJet 340C



- ✓ Colour option, 30 sheet feeder, 2 ppm
- ✓ Highly portable - battery option
- ✓ 600 x 300 dpi black with HP RET

224340	HP DeskJet 340C	£135.00	£158.63
PR11832	HP DeskJet 340CBI	£159.00	£186.83
C3277A	Infra-Red Adapter	£35.00	£41.13

HP DeskJet 1600C



- ✓ Laser-like black and colour
- ✓ Fast black 8 ppm and 2ppm colour
- ✓ Expandable paper handling, 4MB
- ✓ Network connectivity options

EURPR1011	HP DeskJet 1600C	£871	£1024.01
EURPR1021	HP DeskJet 1600CM (nw/mac)	£1280	£1504.00

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- ✓ 1200 dpi with MicroGray 1200 and RiTEch
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- ✓ PC and Macintosh compatible as standard
- ✓ 'Look Your Best Color Pack' including a variety of fonts, images and application software



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- ✓ Can distinguish 68 billion colours (36 bit)
- ✓ Start button for easy reach one touch scanning
- ✓ Film adapter included for scanning negatives and slides



EPSON STYLUS COLOR 850

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- ✓ 1 year RTB warranty as standard
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PR13911	EPSON Stylus Color 640	£133.00	£161.21
PR13450	EPSON Stylus Photo 700	£163.00	£197.58
PR13449	EPSON Stylus Color 850	£207.00	£243.23
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PR13448	EPSON Stylus Photo EX	£308.00	£361.90
PR12164	EPSON Stylus Color 1520	£451.00	£529.93
PR12407	EPSON Stylus Color 3000	£1118.00	£1313.65
PR13782	EPSON Laser EPL-5700	£304.00	£357.20
PR13783	EPSON Laser EPL-5700EN	£456.00	£535.80
PR13784	EPSON Laser EPL-5700PS	£456.00	£535.80
PR13644	EPSON Stylus Pro 5000	£1587.00	£1923.64
201457	EPSON Dot Matrix LX-300	£97.00	£113.98
PR4480	EPSON Dot Matrix LQ-570+	£216.00	£253.80
96595	EPSON Dot Matrix LQ-870	£377.00	£442.98
234460	EPSON Dot Matrix LQ-300	£115.00	£135.13
IN5905	GT-7000 Scanner	CALL FOR PRICING	CALL FOR PRICING
INPS906	GT-7000 Photo Scanner	CALL FOR PRICING	CALL FOR PRICING

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- ✓ 300 x 600dpi optical resolution
- ✓ 4800 dpi interpolated resolution
- ✓ 10 bit greyscale
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- ✓ VistaScan intelligent scan driver provides automatic control settings - it will even descreen halftone images



Adobe PhotoDeluxe supplied with 610P & 1210P

IN6702	Astra 610P Parallel	£59.00	(£69.33)
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IN7286	DC-F1 Digital Camera	£259.00	(£304.33)
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HP 4100C Scanner

- ✓ Automatic image and text optimisation
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- ✓ Universal Serial Bus (USB)

ONLY £119 (£139.83) IN7207



IN7207	HP 4100C Scanner	£119.00	(£139.83)
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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.

FROM ONLY £239 (£280.83) IN7208



IN7208	HP 6200C Pro Scanner	£239.00	(£280.83)
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MT2084	A101GT	21" DiamondTron Monitor	£729	£856.58
MT2085	S102GT	21" Monitor	£765	£898.88
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Mitsubishi Diamond Pro 67TXV

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Mitsubishi Diamond Scan 50

This 15" (14" viewable) colour display monitor features:

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- ✓ Versatile on-screen control menus to easily adjust screen size, distortion, colour temperature and other advanced parameters for comfortable viewing



MT2344	15" Diamond Pro Scan 50	£129	£151.58
MON0461	17" Diamond Pro 67TXV	£279	£327.83
MON0583	17" Diamond Pro 700	£415	£487.63
MT2149	17" Diamond Scan 70	£249	£292.58
MT2140	17" Diamond Plus 72	£315	£370.13
MT2148	19" Diamond Scan 90	£425	£499.38
MON0442	21" Diamond Pro 91TXM	£699	£821.33
MT2141	21" Diamond Pro 1010E	£1195	£1404.13
MT2241	14" LCD LXA420W	£799	£938.83
MT2242	15" LCD LXA520W	£999	£1173.83

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- ✓ Fully TCO 95 compliant
- ✓ Audio option available
- ✓ Easy one touch control



MT1824

ERGOVISION 2160 TCO 95

- ✓ 21" Diamondtron monitor
- ✓ Short Neck tube
- ✓ 0.28mm, Aperture Grille Pitch
- ✓ 30-108 kHz (Multiscan) 1600 x 1200 @ 85Hz)
- ✓ Fully TCO 95 Compliant
- ✓ Dual Input
- ✓ USB ready



CRYSTALVISION 640 TCO 95

- ✓ 14.1" Colour TFT LCD
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- ✓ TCO 95 compliant



ERGOVISION 975 TCO 95

- ✓ 19" FST (18" viewable)
- ✓ 0.26mm dot pitch
- ✓ ARASC face treatment
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- ✓ 1600 x 1200 up to 75Hz
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- ✓ Dual input



MT1887

MT1679	Ergovision 430 LR 14"	£113	£132.78
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MT1825	Ergovision 760 TCO 95-S 17"	£275	£323.13
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MT1239	Ergovision 740 TCO S 95	£315	£370.13
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- ✓ PC and Mac compatible



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Q71

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- ✓ MPR-II and Energy Star compliant
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 MON0490 Optiquest V773 £269 £316.08

V115

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- ✓ 1600 x 1280 max resolution
- ✓ On View controls
- ✓ Anti-Static, anti-glare screen
- ✓ Super contrast screen
- ✓ PC and Mac compatible
- ✓ TCO 92



ONLY £649
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V115T

- ✓ 21" DiamondTron™ colour monitor (19.7" viewable area)
- ✓ 0.28mm aperture grille pitch
- ✓ 1600 x 1280 maximum resolution, 89Hz refresh at 1280 x 1024
- ✓ On view® controls
- ✓ ARAG screen treatment
- ✓ PC and Mac compatible
- ✓ TCO 92



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V95

- ✓ 19" colour monitor (18" diagonal viewable)
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- ✓ Super contrast, flat square screen
- ✓ On view controls - TCO 92
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	C-840L	2 x TELE/WIDE	YES / 2	Auto	1280 x 960	9/18/60+	4MB	IN7071	£499	£586.33
	C-420L	Auto Focus	YES / 2	Auto	640 x 480	8/20/80+	2MB	IN6591	£255	£299.63
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	DC260	6 x Auto Focus	YES / 2	Auto	1536 x 1024	120	8MB	IN7111	£745	£875.38
	DC210	2 x Zoom Fixed	YES / 1.8	Auto	1280 x 690	60	4MB	IN6713	£415	£487.63
CASIO										
	QV-70	Fixed	YES / 1.8"	None	320 x 240	96	4MB	IN6575	£169	£198.58
	QV-200	Fixed	NO / 1.8"	None	640 x 480	64	4MB	IN6576	£199	£233.83
	QV-700	Fixed	NO / AUTO	Auto	640 x 480	47	2MB	IN6577	£239	£280.83
EPSON										
	PhotoPC 500	Fixed	YES	Auto	640 x 480	60	2MB	IN6016	£264	£310.20
	PhotoPC 600	Auto Focus	YES / 2	Auto	1024 x 768	50	4MB	IN6527	£303	£356.03
	PhotoPC 700	Auto Focus	YES / 2	Auto	1280 x 960	10	4MB	IN7231	£398	£467.65
AGFA										
	ePhoto307	Fixed	YES	Auto	640 x 480	72	2MB	IN5994	£145	£170.38
	ePhoto 1280	3 x Zoom AF	No / 2	Auto	1280 x 960	60	4MB	IN6850	£499	£586.33
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DR6335	3.2GB	Western Digital	Caviar	AC33200	12	128	3.5"	5200	£82.00	£96.35
DR8077	4.3GB	Seagate	Medalist	ST34321A	10.5	128	3.5"	5400	£83.00	£97.53
DR6976	4.3GB	Western Digital	Caviar	AC34300	11	256	3.5"	5400	£89.00	£104.58
DR8776	5.1GB	Quantum	Fireball EL	QM305100EL-A	9.5	512	3.5"	5400	£89.00	£104.58
DR8078	6.5GB	Seagate	Medalist	ST36531A	10.5	128	3.5"	5400	£99.00	£116.33
DR8777	7.6GB	Quantum	Fireball EL	QM307600-A	9.5	512	3.5"	5400	£139.00	£163.33
DR7434	8.0GB	Quantum	Bigfoot TX	QM508000TX-A	<12	128	5.25"	4000	£139.00	£163.33
DR8066	8.4GB	IBM	Deskstar 8	00K0394	9.5	512	3.5"	5400	£149.00	£175.08
DR8079	8.6GB	Seagate	Medalist	ST38641A	10.5	512	3.5"	5400	£145.00	£170.38
DR8683	10.1GB	IBM	Deskstar 16	00K4091	9	512	3.5"	5400	£199.00	£233.83
DR8778	10.2GB	Quantum	Fireball EL	QM310200EL-A	9.5	512	3.5"	5400	£175.00	£205.63
DR7413	12.0GB	Quantum	Bigfoot TX	QM512000TX-A	<12	128	5.25"	4000	£179.00	£210.33
DR8687	14.1GB	IBM	Deskstar 16	00K4071	9	512	3.5"	7200	£345.00	£405.38
DR8685	16.8GB	IBM	Deskstar 16	00K4073	9	512	3.5"	7200	£379.00	£445.33
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DR8512	4.5GB	IBM	Ultrastar 9ES	00K3980	7.5	512	3.5"	7200	£175.00	£205.63
DR8573	4.5GB	Seagate	Barracuda	ST34573N	7.1	512	3.5"	7200	£179.00	£210.33
DR8750	6.5GB	Seagate	Medalist Pro	ST36530N	9.5	512	3.5"	7200	£259.00	£304.33
DR8457	9.1GB	Quantum	Atlas III	QM309100TDS	7.8	1024	3.5"	7200	£415.00	£487.63
DR8020	9.1GB	Western Digital	Enterprise	WDE9100-0003	8	512	3.5"	7200	£355.00	£417.13
DR8745	9.1GB	Seagate	Medalist Pro	ST39140N	9.5	512	3.5"	7200	£335.00	£393.63
DR8188	18.0GB	Seagate	Barracuda	ST118273N	7.6	1024	3.5"	7200	£799.00	£938.83
DR8609	18.2GB	Quantum	Atlas III	QM318200TDS	7.8	1024	3.5"	7200	£765.00	£898.88
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DR8238	4.3GB	IBM	UltraStar 2ES	09J1037	8.5	512	3.5"	7200	£159.00	£186.83
DR8638	4.5GB	Seagate	Barracuda	ST34573LW	7.1	1024	3.5"	7200	£335.00	£393.63
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DR8780	4.5GB	Quantum	Viking II	QM304550PXLW	8	512	3.5"	7200	£209.00	£245.58
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DR8489	9.1GB	Quantum	Viking II	QM309100PXLW	8	512	3.5"	7200	£385.00	£452.38
DR7975	9.1GB	Western Digital	Enterprise	WDE9100-0007	8	512	3.5"	7200	£375.00	£440.63
DR8746	9.1GB	Seagate	Medalist Pro	ST39140W	9.5	512	3.5"	7200	£345.00	£405.38
DR8641	18.0GB	Seagate	Barracuda	ST118273W	7.6	1024	3.5"	7200	£829.00	£974.08
DR8495	18.2GB	Quantum	Atlas III	QM318200TDLW	7.8	1024	3.5"	7200	£765.00	£898.88
DR8756	18.2GB	Seagate	Cheetah	ST118202LC	5.2	1024	3.5"	10025	£889.00	£1,044.58

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ZIP STARTER KIT

Everything you need to get started!

YOU GET ALL THIS!

- ✓ Zip Parallel Port drive
- ✓ Six 100MB Multicoloured disks
- ✓ Recordit software



DR8960	Zip Starter Kit	£99.00	£116.33
224426	Parallel Zip Drive	£79.00	£92.83
224425	SCSI Zip Drive	£79.00	£92.83
ME7941	6-Pack & Caddy	£39.00	£45.83
ME7940	20-Pack of Coloured Disks	£129.00	£151.58

The most affordable way to add a Zip drive to your PC

The new Zip Internal drive connects via your computers IDE controller which means you get the performance of ATAPI without the need for an extra controller card.



- ✓ All-in-one solution
- ✓ Reduce desktop clutter and the need for an additional power point
- ✓ Increased security

DR8391	Zip Internal	£69.00	£81.08
ME7941	6-Pack & Caddy	£39.00	£45.83
ME7940	20-Pack of Coloured Disks	£129.00	£151.58

*Does not include any media

Jaz 2GB is the superfast personal storage drive!



- ✓ Faster than many hard drives – works as fast as you do!
- ✓ Provides up to 2GB of disk space on each compact cartridge – enough to back up your 4GB hard drive (with 2:1 compression)
- ✓ Transfer rate up to 8.7MB/sec (max with 2GB model), average seek time of 10ms read/12ms write (max with 2GB model)
- ✓ Ultra SCSI connection

DR7038	Jaz 2GB Internal	£249.00	£292.58
DR7039	Jaz 2GB External	£249.00	£292.58
ME7527	Single 2GB Cartridge	£65.00	£76.38
ME7529	3-Pack of 2GB Cartridges	£159.00	£186.83

DR6985	DittoMax Pro 10GB* Internal IDE	£139.00	£163.33
DR6984	DittoMax Pro 10GB* External Parallel	£169.00	£198.58
DR6064	Ditto 2GB* Internal IDE	£56.00	£65.80
ME6953	Ditto 2GB Singles	£14.00	£16.45
ME6954	Ditto 2GB 3-Pack	£39.00	£45.83
ME7454	DittoMax 3GB Singles	£15.00	£17.63
ME7455	DittoMax 3GB 3-Pack	£42.00	£49.35
ME7456	DittoMax 5GB Singles	£18.00	£21.15
ME7458	DittoMax 7GB Singles	£21.00	£24.68
ME7533	DittoMax 10GB Singles	£24.00	£28.20

Buz – The easiest way to get multimedia into your PC

Make your own movies



Buz is the easiest way to get multimedia from camcorders, DVD-ROMS, CD-ROMS and VCRs into a PC! It's a cross platform video capture and editing board combined with an Ultra SCSI controller.

- ✓ Motion JPEG video capture and playback using onboard hardware compression technology; software selectable compression from 1:1 up to 80:1.
- ✓ PAL: 768 x 576 @ 25 frames per second @ 24 Bit colour 44.1kHz stereo audio
- ✓ Data transfer up to 20MB/sec
- ✓ Bundle software includes **Videowave SE Plus** for Windows 95 **HotShots** for Windows 95 **Recordit** for Windows 95 **Buz basics & Moviemaking CD ROM Tutorial!**

nb: The Buz board does not incorporate audio hardware, but allows capture via third party sound card

EX8161	Buz Multimedia Producer	£149.00	£175.08
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HP Storage Solutions

HP SureStore CD-Writer 8100i

The complete solution for storing and sharing information on CD

HP's latest addition to the Surestore CD-Writer range is the 8100i. With increased performance this drive is now able to read at speeds of up to 24X while allowing you to write at 4X for CD-R and 2X for CD-RW. It also features HP's unique Fast Format technology which allows a rewritable CD-RW to be formatted in just a few minutes. Easy to install and use, the 8100i gives you a high performance CD creation solution.

- ✓ 24X Read, 4X Write CD-R and 2X Re-write CD-RW
- ✓ Supports CD-R and CD-RW media
- ✓ Create Multiple types of CD
- ✓ Up to 650MB Storage Capacity
- ✓ Drag & Drop File Management
- ✓ Software Includes: Adaptec Direct CD/Easy CD Creator, HP Simple Trax, HP Disaster Recovery, HP Fast Format and Install assistant

DR8786	8100i Plus Internal IDE 4X/2X/24X	£229	£269.08
DR7994	7200i Plus Internal IDE 2X/2X/6X	£195	£229.13
DR7995	7200e Plus External Parallel 2X/2X/6X	£249	£292.58
ME7541	HP CD-R 74Min 650MB 3 Pack Media	£6.75	£7.93
ME7437	HP CD-RW 74Min 650MB 3 Pack Media	£46.95	£55.17



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HP Colorado 5GB & 8GB

Breakthrough performance for full system protection

- ✓ Disaster recovery for Windows 95 with full system protection
- ✓ Up to 8GB Compressed (4GB Native)
- ✓ Includes Colorado Backup by Cheyenne for Windows 95, Windows and DOS
- ✓ Supports Windows NT 4.0 backup utility

DR7034	Colorado 5GB Internal	£127	£149.23
DR7035	Colorado 5GB Parallel	£155	£182.13
DR8149	Colorado 8GB Internal	£155	£182.13
DR8151	Colorado 8GB Parallel	£179	£210.33
DR7763	T3000i 3.2GB Internal	£99	£116.33

*Via compression

HP SureStore 2000, 5000 and DAT8

Don't take chances with your data

The HP SureStore range of DAT drives provides high performance, reliable backup for high end PC's and workstations as well as server based networks.

- ✓ 2,4 and 8GB models available (Compressed capacities)
- ✓ HP's reliable DAT technology
- ✓ Industry standard DDS format

DR7151	2000i Int SCSI	£299	£351.33
DR7152	2000e Ext SCSI	£375	£440.63
DR7153	5000i Int SCSI	£325	£381.88
DR7154	5000e Ext SCSI	£399	£468.83
DR7155	DAT8i Int SCSI	£499	£586.33
DR7156	DAT8e Ext SCSI	£569	£668.58

FOR 2000i £299 £351.33



Cost effective Network Backup

FROM £699 £821.33

HP SureStore DAT24

- ✓ Up to 24GB of data can be stored (Compressed capacity)
- ✓ Reliable, high capacity backup for networks
- ✓ HP's new DDS-3 format
- ✓ Transfer rate of 7.2GB/hour
- ✓ Backwardly compatible with DDS, DDS-2 and DDS-3
- ✓ HP TapeAlert Support

DR7428	DAT24i Int SCSI	£699	£821.33
DR7427	DAT24e Ext SCSI	£779	£915.33

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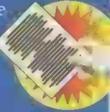


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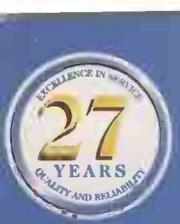


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Adaptec SCSI Solutions The Ultra2 SCSI Controller

The SCSI Card 2940U2W can burst data up to 80 MB/sec on the Ultra2 SCSI bus, which doubles the maximum burst rate of Wide Ultra SCSI. This Ultra2 SCSI transfer rate translates into increased performance of data intensive applications.

- ✓ SpeedFlex™ technology which allows simultaneous operation of Ultra2 and Ultra devices at the burst rate of each bus
- ✓ Connects up to 15 SCSI devices
- ✓ Five year warranty card



EX8565 AHA-2940U2W Ultra 2 wide £235.00 £276.13

Adaptec AHA 2940 Ultra

High performance UltraSCSI for desktop PC's and workstations

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- ✓ SCSI transfer rate up to 20MB/Sec
- ✓ Supports up to seven SCSI devices

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EX7250 AHA-2940 Ultra £149.00 £175.08

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Adaptec SlimSCSI 1480 delivers full 32-bit PCI performance at speeds up to 20MB per second, allowing high performance devices to operate at their maximum speed.



EX8385 Slim SCSI 1480 £125.00 £146.88

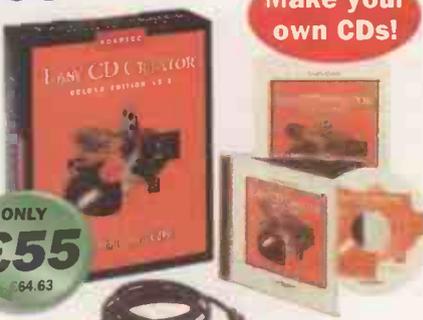
2005007	AVA-1505 Total CD	£34.00	£39.95
236129	AHA-2940UW PCI Ultra Wide SCSI	£169.00	£198.58
EX9261	AHA-3940AU PCI Multichannel Kit	£245.00	£287.88
236131	AHA-3940UW PCI Wide Multichannel	£285.00	£334.88

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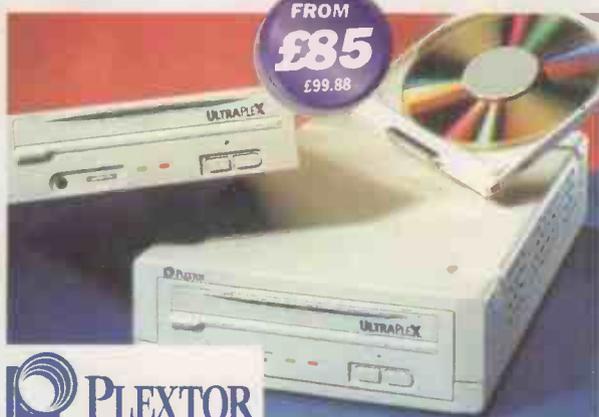
EX7194	486 to 586/133 Upgrade	£85.00	£99.88
EX8438	486 to 586/133 Upgrade 5 Pack	£330.00	£387.75
EX8213	MxPro 200Mhz Upgrade	£89.00	£104.58
EX8817	MxPro 200Mhz Upgrade 5 Pack	£380.00	£446.50

*When additional memory is installed

Plextor CD Drives

Plextor CD-recorders provide the highest standards for dependability and performance. The Plexwriter writes your data at 4X and reads at a maximum speed of 12X offering an amazing 5MB/sec data transfer rate and a 190ms access time. The combination of a Fast SCSI burst rate, low CPU utilization, a large 2MB buffer and synchronous data transfer all add up to increase the efficiency and the reliability of CD writing.

- ✓ 4X write (600KB/s) 12X read (1800KB/s)
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- ✓ Caddy loading Mechanism
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DR7730	PlexWriter 4x/12X Internal SCSI	£259.00	£304.33
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DR7917	Ultrplex 32X Internal SCSI Tray	£85.00	£99.88
DR7916	Ultrplex 32X Internal SCSI Caddy	£115.00	£135.13
DR7422	Ultrplex 32X External SCSI Tray	£129.00	£151.58

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- ✓ Complete with 1x CD-R, 1x CD-RW media, audio cable and SCSI ribbon

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DR8914	CDW4261-TVK 4x/2x/16x Internal IDE	£295.00	£346.63
DR7465	CDW4260-TVK 4x/2x/6x Internal SCSI	£249.00	£292.58
DR7467	CDW4260-TVK 4x/2x/6x External SCSI	£279.00	£327.83

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The 3D Blaster Voodoo2 is designed for PC power gamers who have a passion for exceptional performance giving gaming speeds over 300% faster than those found in standard graphics cards.

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EX7695	Soundblaster AWE64 Gold	£92.00	£108.10
EX8111	Soundblaster AWE64 Value	£58.00	£68.15
EX7337	Soundblaster 16	£29.00	£34.08
EX8851	Voodoo2 12MB	£149.00	£175.08
EX8850	Voodoo2 8MB	£129.00	£151.58
EX8380	Extreme Blaster 4MB	£59.00	£69.33
DR6307	PC DVD-Encore Dxr-2 Kit	£165.00	£193.88

Matrox Video Cards

Millenium G200 - Superior acceleration for professional 2D/3D graphics

The Matrox Millenium G200 AGP graphics card offers high performance in 2D, 3D and video applications without sacrificing the display quality and driver reliability

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- ✓ Powerful 128-bit video card with full AGP 2X support
- ✓ 250MHz RAMDAC for the highest screen refresh rates
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EX9240	Millenium G200 8MB AGP	£89.00	£104.58
MY9407	Productiva G100 8MB AGP	£55.00	£64.63
EX9239	Mystique G200 8MB AGP*	£85.00	£99.88
EX8267	M3D Accelerator	£35.00	£41.13

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All-In-Wonder Pro - The fastest TV, video and graphics upgrade

All-In-Wonder Pro is the complete all-in-one TV, graphics and video upgrade which lets you experience the full potential of Windows 95/98. It enables Web TV for Windows 98, enjoy multi-monitor support and play 3D games and more all with one solution.

- ✓ Outstanding 2D & 3D performance
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- ✓ Multimedia Software Bundle



EX9384	AllIn-Wonder Pro 4MB PCI	£105.00	£123.38
EX9383	AllIn-Wonder Pro 8MB PCI	£119.00	£139.83
EX8055	Xpert @ Play 4MB PCI	£69.00	£81.08
EX8057	Xpert @ Play 8MB PCI	£85.00	£99.88

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- ✓ 122 channel cable and TV reception
- ✓ Teletext support
- ✓ Plug & Play for Windows 95/98
- ✓ PCI Bus Architecture
- ✓ Compatible with most cards supporting DirectDraw

- ✓ 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 video cards supporting DirectDraw



EX9191	Win/TV Primio	£49.00	£57.58
EX7374	Win/TV PCI	£75.00	£88.13
EX9192	Win/TV PCI Radio	£85.00	£99.88
EX7854	Video Wizard MJPEG Board	£119.00	£139.83

Intel/ASUStek



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ASUS award winning motherboards are manufactured to the highest standard and are recognised for their high quality and reliability worldwide.



Code	Model	Intel Chipset	Memory (DIMM)	Slots PCI/ISA/AGP	Price	Inc. VAT
EX8697	TXP4	430TX	2	4/3	£65	£76.38
EX9207	P2L97	440LX	3	5/2/1	£79	£92.83
EX9194	P2B	440BX	3	4/3/1	£105	£123.37
EX9199	P2L97-S	440LX	3	4/2/1	£139	£163.32
EX9196	P2B-S	440BX	4	4/2/1	£199	£233.83
EX9200	P2L97-DS	Dual440LX	4	4/2/1	£219	£257.33
EX9197	P2B-DS	Dual440BX	4	4/2/1	£289	£339.57
EX8456	Intel Pentium II Processor	233MHz			£75.00	£88.13
EX8455	Intel Pentium II Processor	266MHz			£129.00	£151.58
EX8393	Intel Pentium II Processor	300MHz			£159.00	£186.83
EX9189	Intel Pentium II Processor	333MHz			£219.00	£257.33
EX9188	Intel Pentium II Processor	400MHz			£429.00	£504.08

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MT2031	17 MIROSCAN 5P	£199.00	£233.83
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MT1589	E500	£189.00	£222.08
MT1583	E700	£369.00	£433.58
MT1584	A500	£165.00	£192.25
MT1582	A700	£295.00	£346.63
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MON0490	V773 17	£269.00	£316.08
MT1401	V775 17	£279.00	£327.83
MT1405	Q71 17	£229.00	£269.08
MT1620	V95	£479.00	£562.83
MT1621	V115	£649.00	£762.58
MT1674	Q41	£89.00	£104.58
MT1946	V115T	£759.00	£891.83
MT1653	Q51	£109.00	£126.08

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MT1159	15 MULTISCAN 15MM TX-D156ZF	£235.00	£276.13
MT1976	15 SX0 TX-15F69	£149.00	£175.08

MT1977	15 P50 TX-15F68	£165.00	£193.88
MT1978	15 SM50 TX-T5F70FU	£185.00	£217.38
MT1181	17 17MM TX-D1733FU	£369.00	£433.58
MT1979	17 S70 TX-D7F35U	£249.00	£287.88
MT1980	17 P70 TX-D7F54U	£299.00	£351.33
MT1981	17 SM70 TX-D7F35FU	£439.00	£515.83
MT1982	17 P70 TX-D7F53U	£555.00	£662.13
MT1983	21 S100 TX-D1F63U	£1,095.00	£1,286.63
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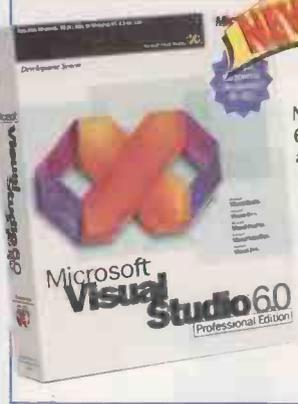
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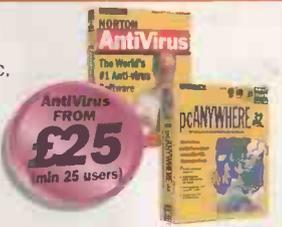
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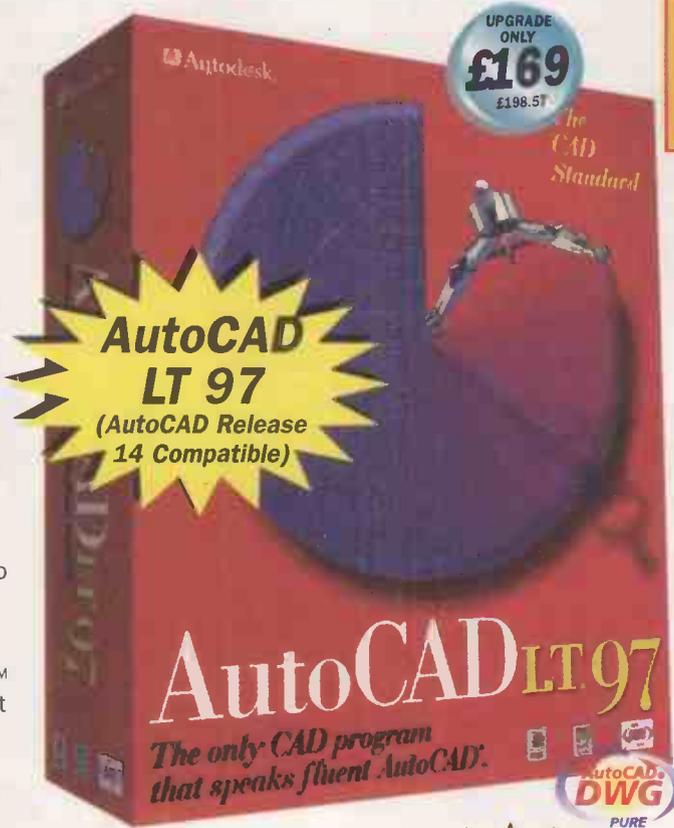
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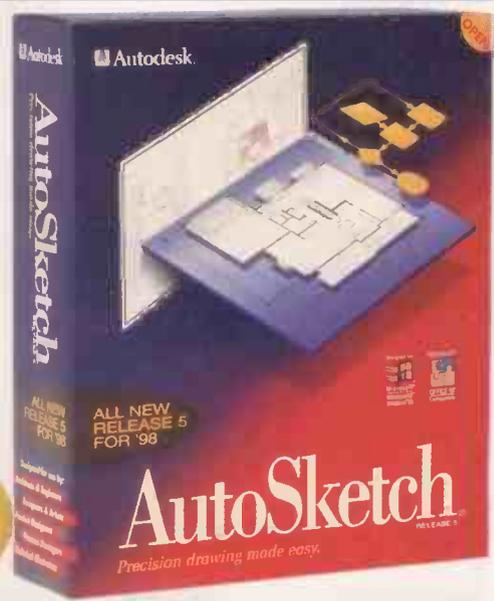
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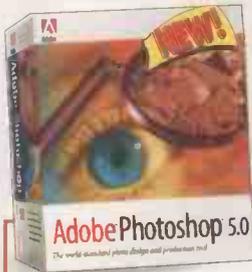
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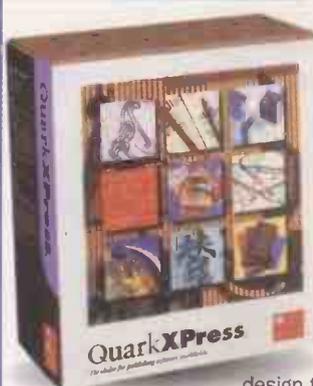
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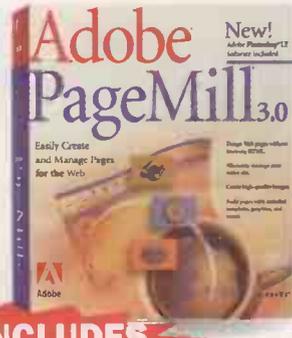
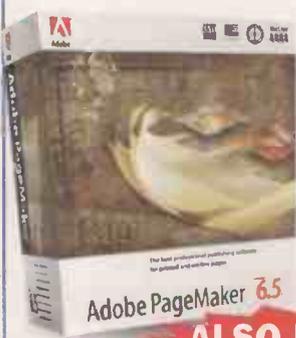
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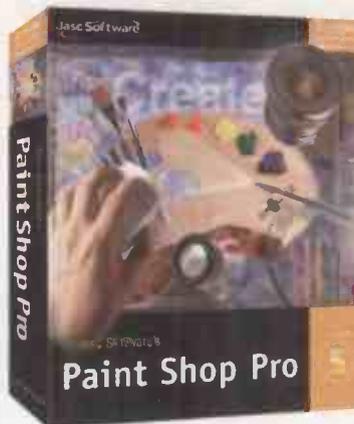
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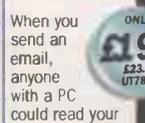


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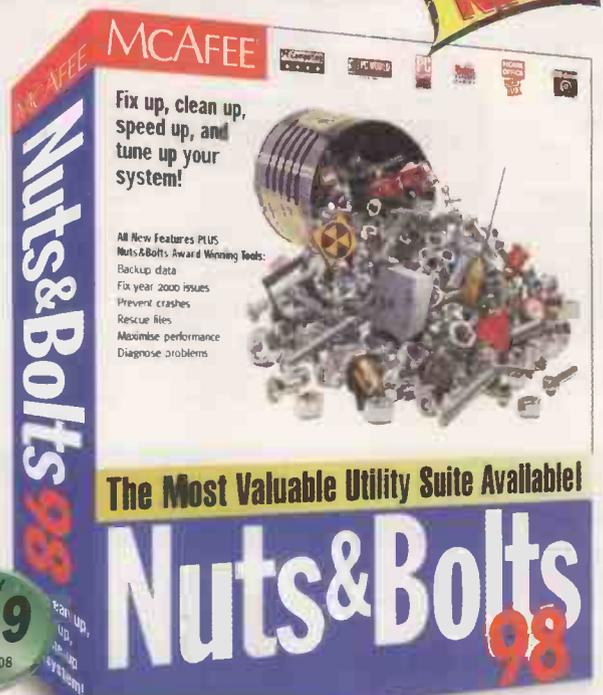
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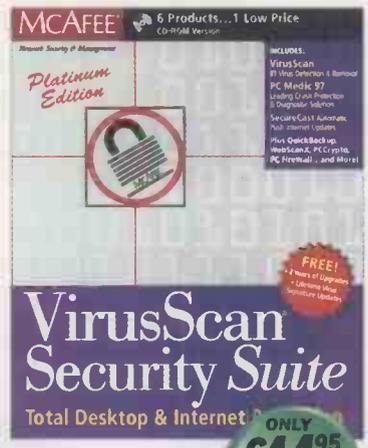
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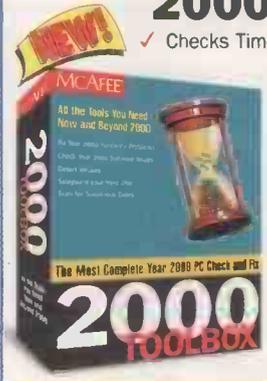


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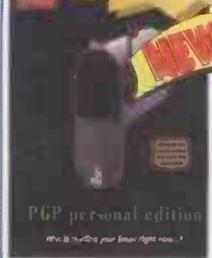
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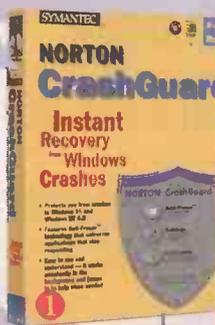
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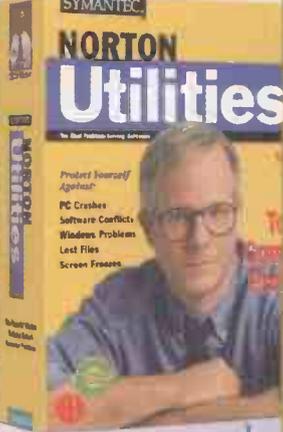
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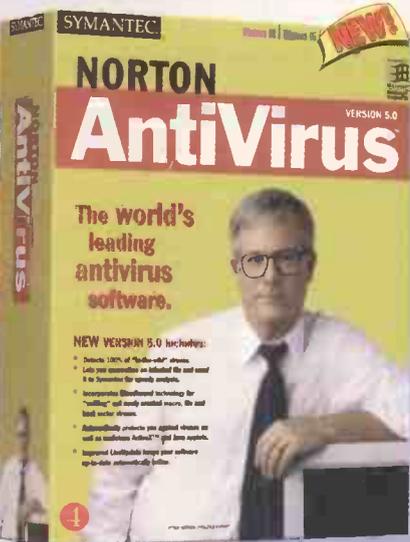
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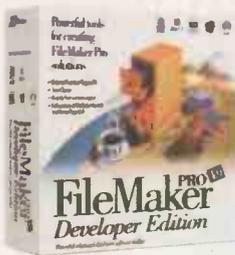
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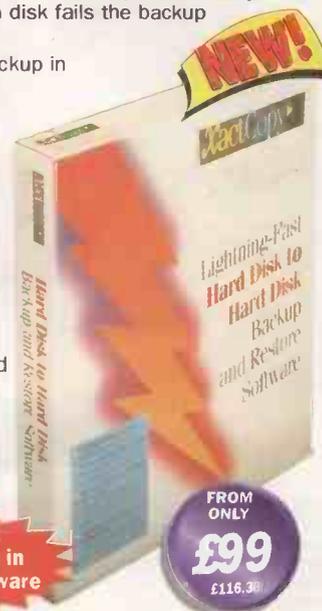
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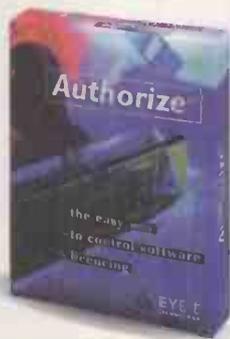
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NM3986	MODEM 336 EXTERNAL MT2834ZDXK	✓	✓	✓	✓	✓	✓	✓	✓	£72.00	£84.60
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DMD2738	MODEM 56K EXTERNAL VOICE MT560QZDXV	✓	✓	✓	✓	✓	✓	✓	✓	£35.00	£39.88
NM3455	MODEM 336 INTERNAL MT2834ZPX133-GB	✓	✓	✓	✓	✓	✓	✓	✓	£64.95	£76.32
Hayes											
Desktop											
NM4018	HAYES MODEM 336 EXTERNAL OPTIMA BUSINESS	✓	✓	✓	✓	✓	✓	✓	✓	£139.00	£163.33
DMD2424	HAYES ACCURA 56K HIGH SPEED MODEM - INT	✓	✓	✓	✓	✓	✓	✓	✓	£79.00	£92.83
DMD2425	HAYES ACCURA 56K HIGH SPEED MODEM - EXT	✓	✓	✓	✓	✓	✓	✓	✓	£79.00	£92.83
DMD3098	HAYES MODEM 56K INTERNET SOLUTION EXT	✓	✓	✓	✓	✓	✓	✓	✓	£99.00	£114.58
DMD3098	HAYES MODEM 56K INTERNET SOLUTION INT	✓	✓	✓	✓	✓	✓	✓	✓	£84.00	£99.70
PCMCIA											
DMD3281	HAYES OPTIMA 56K GLOBAL PC CARD PCMCIA	✓	✓	✓	✓	✓	✓	✓	✓	£149.00	£175.00
NM4019	HAYES MODEM 336 PCMCIA OPTIMA	✓	✓	✓	✓	✓	✓	✓	✓	£125.00	£146.88
DMD2531	HAYES MODEM 336 PCMCIA ACCURA PC CARD	✓	✓	✓	✓	✓	✓	✓	✓	£39.00	£104.58
Pace											
Desktop											
DMD3681	PACE 56K SOLD EXTERNAL MODEM	✓	✓	✓	✓	✓	✓	✓	✓	£139.00	£163.33
DMD3555	PACE MODEM 56K EXTERNAL VOICE FOR PC	✓	✓	✓	✓	✓	✓	✓	✓	£34.95	£111.57
DMD3556	PACE MODEM 56K INTERNAL VOICE FOR PC	✓	✓	✓	✓	✓	✓	✓	✓	£78.95	£90.42

PCMCIA MODEMS

Code	Description	GSM ready	Ethernet 10Mbps	Ethernet 10/100Mbps	Speed 56K	Speed 33.6	ISDN	Price	(inc VAT)
XIRCOM									
DMD3563	REALPORT ETHERNET 10/100 + MODEM 56K	✓	✓	✓	✓	✓	✓	£229.95	£270.19
DMD2808	CREDITCARD ETHERNET 10/100 + MODEM 56	✓	✓	✓	✓	✓	✓	£189.00	£223.83
DMD3795	XIRCOM REALPORT ETHERNET 10/100 + MODEM 56K 5 PACK	✓	✓	✓	✓	✓	✓	£1099.00	£1291.33
DMD3016	CREDITCARD MODEM 56K	✓	✓	✓	✓	✓	✓	£119.00	£139.83
DEC2258	10MB5 PCMCIA ETHERNET RJ45/BNC UPGRADEABLE	✓	✓	✓	✓	✓	✓	£97.95	£115.09
DEC2259	10BPS PCMCIA ETHERNET RJ45 UPGRADEABLE	✓	✓	✓	✓	✓	✓	£84.95	£76.32
DEC2469	CREDITCARD ISDN ADAPTER	✓	✓	✓	✓	✓	✓	£169.00	£196.58
DEC2260	PCMCIA ETHERNET ADAPTER 10/100	✓	✓	✓	✓	✓	✓	£84.95	£99.82
Pison									
NM3962	PSION DACOM GOLD CARD ETHERNET ONLY	✓	✓	✓	✓	✓	✓	£195.00	£229.13
DMD2578	PSION DACOM GOLD CARD GLOBAL V34 FAX/MODEM 33.6	✓	✓	✓	✓	✓	✓	£148.00	£175.00
DMD2964	PSION DACOM GOLD CARD GLOBAL 56K	✓	✓	✓	✓	✓	✓	£159.00	£186.83
DEC3316	PSION GOLD CARD NETGLOBAL 56K + 10MB	✓	✓	✓	✓	✓	✓	£189.00	£222.08
DEC3314	PSION GOLD CARD NETGLOBAL 10MB	✓	✓	✓	✓	✓	✓	£69.00	£81.00
DEC3315	PSION GOLD CARD GLOBAL 10/100MB	✓	✓	✓	✓	✓	✓	£109.00	£128.08
DEC3328	PSION GOLD CARD NETGLOBAL CARBUS 10/100MB	✓	✓	✓	✓	✓	✓	£109.00	£128.08
TDK									
DMD3512	TDK 5680 MODEM CARD GLOBAL TDK560	✓	✓	✓	✓	✓	✓	£139.00	£163.33
DMD3314	TDK GLOBAL PRO ISDN 3600 ISDN/MODEM/MSM	✓	✓	✓	✓	✓	✓	£219.00	£257.33
DEC2379	TDK GLOBAL NETWORKER 3410 E/NET/MODEM RJ45	✓	✓	✓	✓	✓	✓	£172.99	£203.26
DEC2380	TDK GLOBAL NETWORKER 3412 E/NET/MOD COMBO	✓	✓	✓	✓	✓	✓	£182.99	£215.01
EURD8C1141	TDK GREY CELL ETHERNET PCMCIA CARD RJ45	✓	✓	✓	✓	✓	✓	£96.99	£102.21
DMD3545	TDK 2410 ETHERNET CARD 10BASE-T ONLY	✓	✓	✓	✓	✓	✓	£79.00	£92.83
EURD8C1894	TDK GREY CELL ETHERNET PCMCIA RJ45/BNC	✓	✓	✓	✓	✓	✓	£102.99	£121.81

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DCS5131	NT SRVR 4.0 10 CLIENT	£739.00	£868.33
DCS5216	NT WRKSTN V4 CD	£212.00	£249.10
DCS4405	BKOFFICE SBS 5 CLIENT	£899.00	£1,056.33
DCS4406	BKOFFICE SBS 25 CLIENT	£1,529.00	£1,796.58
Novell			
DCS3219	INTRANETWARE 10	£999.00	£1,173.83
DCS3220	INTRANETWARE 25	£1,849.00	£2,172.58
DCS5250	Netware FSB SVR + 5	£499.00	£586.33
DCS5351	Netware FSB 1 Licence	£32.99	£38.76
Network Software			
Cheyenne			
EURDAA0016	ARCSERVE NETWORK DEMO	£FREE	£FREE
EURDAA0017	ARCSERVE NT DEMO	£FREE	£FREE
DCS4777	FAXSERVE WIN NT V5	£149.00	£175.08
DCS3619	FAXSERVE NETWORK V5	£219.95	£258.44
DCS4787	ANTI VIRUS WIN95	£29.95	£36.37
DCS3292	INOCULAN 4 NT 1 SRVR	£344.99	£405.36
DCS4377	ARCSV NT 1 SRVR V6.5	£249.00	£266.50
Intel			
DCS4294	Virus Prot v5 1 SRVR	£609.00	£715.58
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Seagate			
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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	£14.01
Centronics 50 (M) - DB25 (M)	2.0m	EURAC3674	£19.95	£23.44
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Mini - 50 SCSI II (M) - Centronics 50 (M)	1.0m	EURAC3700	£19.95	£23.44
Mini - 50 SCSI II (M) - Centronics 50 (M)	2.0m	EURAC3675	£25.95	£30.49
Mini - 50 SCSI II (M) - Centronics 50 (M)	3.0m	DCA2650	£29.95	£35.19
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ACC2847	Epson Stylus 3000 Magenta S020126	£39.95	£46.94
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PA0415	Epson Stylus Colour 800/1520 S020108	Black £14.45	£16.97
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220373	Epson Stylus Colour/Pro/Pro XL S020036	Black £18.45	£21.67
223212	Epson Stylus Colour i/iSiS/820/200 S020047	Black £13.45	£15.80
223213	Epson Stylus Colour i/iSiS/820/200 S020049	Colour £18.70	£21.97
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AC20727	NEW Epson EPL-N2000 Imaging Cartridge	£148.95	£175.02
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91904	Epson EPL4000/4100/4300/LP1200 Toner Cartridge	£79.95	£93.94
63169	Epson EPL7100/7500/B100 Toner Cartridge	£135.90	£159.88
99202	Epson EPL5000/5200/5200+ Imaging Cartridge	£96.95	£113.92
220378	Epson EPL3000 Imaging Cartridge	£86.95	£103.87
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236591	Epson EPL5500 Toner Cartridge	£44.95	£52.82
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EURPA1626	A2 Photo Quality Inkjet Paper	SD41079	£27.95	£32.84
EURPR1111	A3 Photo Glossy Film	SD41073	£37.95	£44.59
PA1336	A3 Paper Photo Glossy	SD41133	£18.45	£21.88
EURZ1043	A4 Colour Glossy paper (15 sheets)			
		SD41071	£20.00	£23.50
ACC2551	A4 photo paper 1440dpi (100 sheets)			
		SD41081	£9.85	£11.57
EURPR1110	A3 Super Photo paper (100 sheets)			
		SD41089	£26.95	£31.58
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553905	Canon BJC 600/600w/610/620 B/J1201Y	Yellow £4.55	£5.34
53568	Canon BJC-800/820/880 B/J-1-843BK	Black £11.95	£14.04
53569	Canon BJC-800/820/880 B/J-1-843C	Cyan £15.40	£18.09
53570	Canon BJC-800/820/880 B/J-1-843Y	Yellow £15.40	£18.09
53571	Canon BJC-800/820/880 B/J-1-843M	Magenta £15.40	£18.09
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220555	Canon BJC4000 BC-1-21C	Colour £11.95	£14.04
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ME7513	3.5" LS120 3Pk	£27.95	£32.84
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ME6992	3.5" HD Mac Formatted 1.44 Mb	£2.45	£2.87

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ME7394	3.5" DS/HD Formatted 1.44Mb 20Pk	£4.65	£5.46
ME6462	3.5" DS/HD Formatted 1.44Mb 50Pk	£11.25	£13.22
ME6315	3.5" DS/HD Mac Formatted 1.44Mb	£2.65	£3.11
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ME7028	Zip Disk 5pk FREE CADDY	£48.00	£57.57
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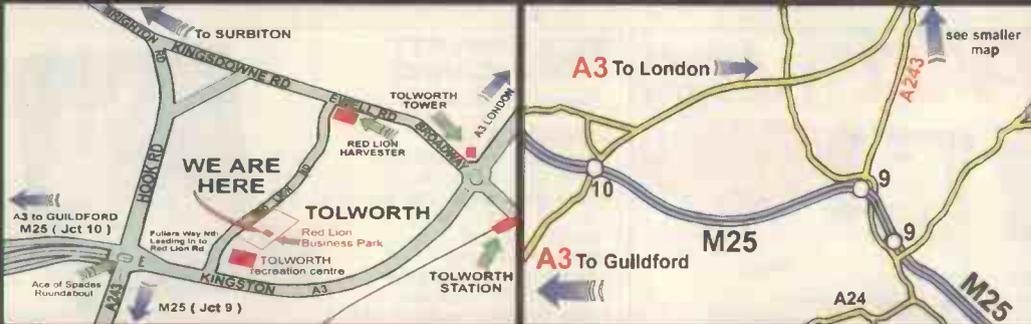
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4220T P233 TFT	£1699	£1996.32
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7370MT P233 TFT	£1899	£2231.32
7380MT P266 TFT	£2149	£2525.07
7710MT P150 TFT	£1575	£1850.62
7750MT P166 TFT	£1689	£1984.57
7770MT P233 TFT	£1799	£2113.82
7790MT P266 TFT	£2159	£2536.82
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- TrackPoint III pointing device
- HP's legendary WorldWide 3 Year Warranty



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Introducing the ToughBook Series, the latest in the renowned Panasonic business notebook PC series. A lineup with the practical features and rugged construction demanded by business today. The ToughBook CF-45 is ideal as an office machine. Everything you need is already built-in. You get a blazingly fast Pentium MMX processor, high-speed 20x CD-ROM drive, and bright 12.1" LCD screen, all as standard.

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CF-35 RJJ8	P266 32MB 3GB 12.1" TFT	£2175	£2555.62
CF-25 MK III LXF8	P166 32MB 2.1GB 12.1" TFT	£2499	£2936.32
CF-25 MK III LGC4	P166 16MB 1.4GB 10.4" TFT	£1949	£2290.07

Durable construction you expect from the ToughBook series
 Reduced downtime and low total cost of ownership

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 Rugged magnesium alloy is used for the outside of the LCD cabinet. It protects the sensitive LCD screen to save costly maintenance expenses.

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 * To enable communications, peripheral equipment must also be equipped with an infrared communication port (IrDA compliant) and communications software.
- **Optical Trackball (19mm)**
 Since there is no contact between the ball and sensor, you enjoy precision operation that will withstand dust and dirt, combined with easier maintenance.
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 * 32-bit high-speed cards can be used.

Acer Rethink what's possible. EXTENSA 367T

- P200 Intel Pentium, with MMX technology
- 32Mb EDO RAM standard
- 2.1GB Hard Drive
- 12.1" TFT screen
- Built-in 56K fax Modem
- 1Mb video memory
- 16-bit Sound Blaster Pro-compatible stereo sound
- Internal 20x CD-ROM
- PC Card 2x type II 2V ready
- NiMH battery
- One year Acer collect and return warranty



311DC	P200MMX 32MB 2.1GB 20x max 8.0DS	£849	£997.57
312T	P233MMX 32MB 2.1GB 20x max 8.4TFT	£1099	£1291.32
365D	P200MMX 32MB 2.1GB 20x max 12.1DSN	£849	£997.57
367	P200MMX 16MB 2.1GB 20x max 12.1DSN	£799	£938.82
368T	P233MMX 32MB 3.2GB 20x max 12.1TFT	£1049	£1232.57
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710TE	PII 233MMX 32MB 4.0GB 24x max 13.3TFT	£1549	£1820.07
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7300	PII 266MMX 64MB 4.0GB 20x max 13.3TFT	£2299	£2701.32

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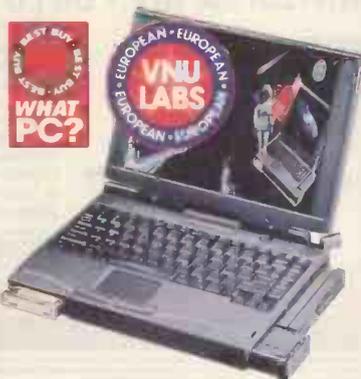
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- 12.1" SVGA (800 x 600) DSTN or TFT Display
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- Intel 82430MX Chipset - PCI Bus
- 32Mb EDO RAM (Upgradeable to 80Mb)
- Neomagic 128BIT Graphics Accelerator
- 2.0GB Toshiba E-IDE Hard Drive (Upgradeable)
- Combo-12 x CD-ROM & 1.44Mb Floppy Drive
- 16 BSS 1878 wavetable Stereo Sound with Speakers & MIDI
- Synaptic Touchpad

- Dimensions 299 x 226 x 51mm
- Weight 2.9Kg
- 85 Key Keyboard with Microsoft Win95 Keys
- 2 PCMCIA Type II or 1 Type III Slot
- 256Kb Level 2 Cache
- Parallel (EPP/ECP), Serial (16650) & Infra Red, VGA, Docking Connector and PS/2 Port
- International AC Adapter
- MS Windows 95 Pre-loaded
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WHAT PC?

12.1" DSTN Screen 12.1" TFT Screen

	ex vat	inc vat	ex vat	inc vat
P166 MMX	£799	£938.82	£949	£1115.07

* Except DSTN Model

NEUTRON MMX

- 12.1"/13.3" SVGA (1024 x 768) TFT Display
- Intel Mobile Module Processor with MMX
- Intel Triton 82430 TX Chipset - PCI Bus
- Upgradeable to Pentium II
- 48Mb SDRAM (Upgradeable to 144Mb)
- 512Kb Level 2 Cache
- Neomagic 2160 128BIT Graphics Accelerator
- 3.2GB Toshiba E-IDE Hard Drive (Upgradeable)
- 24 x CD-ROM & 1.44Mb Floppy Drive
- Cardbus Ready
- Lithium Ion 45W Battery

- USB port
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12.1" TFT Screen 13.3" TFT Screen

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P233 MMO	£1369	£1608.57	£1529	£1796.57	P11 266 MMO	£1599	£1878.82	£1769	£2078.57

PHOTON P11

- 13.3"/14.1" XGA (1024 x 768) TFT Display
- Intel Mobile Module Processor with Pentium II
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- 512Kb Level 2 Cache
- Neomagic 2200 128BIT Graphics Accelerator with 2Mb Video RAM
- 3.2GB Toshiba E-IDE Hard Drive (Upgradeable)
- 24 x CD-ROM & 1.44Mb Floppy Drive
- 17mm DVD Module (optional)
- Cardbus Ready
- Lithium Ion 45W Battery

- Intel P11X4 EIDE Ultra DMA Controller (33MBps)
- USB port
- Dimensions 316 x 250 x 34mm
- 16 Bit Crystal CS 4237b Wavetable Audio Chip with SRS 3D Stereo Sound with Speakers Mic & MIDI
- Synaptic Touchpad
- 86 Key Keyboard with Microsoft Win95 Keys
- 2 PCMCIA Type II or 1 Type III Slot
- Parallel (EPP/ECP), Serial (16650) & Infra Red, VGA, Docking Connector and PS/2 Port
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13.3" TFT Screen 14.1" TFT Screen

	ex vat	inc vat	ex vat	inc vat
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P11266 MMO	£2049	£2407.57	£2199	£2583.82
P11300 MMO	£2299	£2701.32	£2399	£2818.82

CREDIT EXAMPLE:

Electron P166 MMX £938.82 - £93.88 deposit. Then after 6 months pay £844.94 & no interest or choose to repay by 36 payments of £31.18 Total repayable £1216.36 A.P.R.26.9% Finance subject to status written quotation available on request.

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- 2.1/3.1Gb EIDE removable Hard Drive
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- 20x CD-ROM MAX (built-in)
- Floppy drive (built-in)
- 16-bit stereo audio system with FM support & 16-bit sound
- Full size keyboard with Twintouch pointing device
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SLEX	MMO P233MMX 64MB 3.1GB 20x CD max 13.3" TFT	£1289	£1514.57
SLEX	MMO P266MMX 64MB 4.0GB 20x CD max 13.3" TFT	£1475	£1733.12
SLEX2	PII P233(with MMO) 32MB 2.0GB 20x CD max 13.3" TFT	£1549	£1820.07
SLEX2	PII P266(with MMO) 64MB 3.0GB 20x CD max 13.3" TFT	£1625	£1944.37
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- Intel Pentium MMO 200, 233 & 266 MHz MMX
- Intel 430TX chipset
- 13.3" TFT XGA Screen
- 32/64Mb EDO RAM (Up to 128Mb EDO SO-DIMM RAM)
- 2.1/3.1/4.1/6.1Gb EIDE removable hard drive
- 20x CD-ROM MAX (built-in)
- 4Mb Video RAM
- Advanced Li-Ion Battery
- 16-bit stereo audio system with FM support & 3D sound
- Full size keyboard with Twintouch pointing device
- Year 2000 compliant

Twinhead Slimnote EX
from £1349 ex vat
£1585.07 inc vat

DUAL TECHNOLOGY
The ERA 1000 won the Computer Shopper Best Buy (May 98) against some very tough opposition. We are confident that this same quality and value for money extends throughout the Dual range.

MINERVA MT - 6670

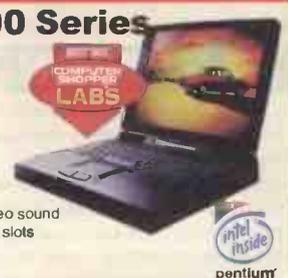


- 12.1" SVGA TFT True Colour Display
- Intel Pentium 200MHz MMX CPU
- 32Mb RAM (up to 128Mb)
- 2.1GB Hard Drive
- 20X internal CD-ROM drive (built-in)
- Floppy drive (built-in)
- IrDA/USB/TV out function
- 2Mb Video Memory built-in
- SoundBlaster Pro compatible stereo sound
- 2X Type II or 1X Type III PCMCIA slots
- Windows 95 Pre-loaded

DUAL Minerva MT-6670	Same as above but with K6 266MHz Chip	DUAL Minerva MT-6690	Same as above but with 13.3" TFT, K6 300MHz Chip & 4.0GB Drive
£949 ex vat £1115.07 inc vat	£1049 ex vat £1232.57 inc vat	£1299 ex vat £1526.32 inc vat	

ERA 1000/1100 Series

- 13.3" or 14.1" XGA TFT display
- Intel Pentium 233MHz MMX CPU
- 32Mb RAM (up to 128Mb)
- Intel 430TX Chipset
- 3.0GB Hard Drive
- 20X internal CD-ROM drive
- Internal Floppy drive fitted
- DVD Drive optional extra
- 2Mb Video Memory as standard
- SoundBlaster Pro compatible stereo sound
- 2 X Type II or 1 X Type III PCMCIA slots
- 320(W) x 260(D) x 43(H) mm
- Windows 95 Pre-loaded



DUAL ERA 1100 14.1" TFT	DUAL ERA 1000 13.3" TFT
£1499 ex vat £1761.32 inc vat	£1399 ex vat £1643.82 inc vat

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- K56flex technology
- Upgradeable via 2MB flash memory
- Globally approved with country switching software
- Compatible with telephone networks worldwide
- Ready for GSM Fax & Data
- Lifetime Warranty and unlimited technical support



Gold Card Global 56K+Fax	ex vat	inc vat
Gold Card Global V32 bis+Fax	£149	£175.07
GSM Nokia 2110 Upgrade	£99	£116.33
GSM Nokia 8110 Upgrade	£85	£99.88
GSM Panasonic Upgrade	£85	£99.88

BABY ZIP Portable Zip Drive | **FLIP DISK** Portable Hard Drive | **BRAVO DRIVE** Portable CD ROM & Audio

AMACOM
www.amacom-tech.com

KEY FEATURES

- No need for bulky mains adaptor, powered directly from computer
- Ultra lightweight and compact
- PC connection via PCMCIA interface or parallel port (optional)
- Utilises standard ZIP media
- 16 bit data transfer - rate up to 3.3Mb/sec
- Automatic media certification during format
- Extensive error recovery system
- Fast access times: 29ms (average)
- No specified driver needed (Win 95), real Plug & Play

£176 £205.62

KEY FEATURES

- No Power Cables required
- Instantly increase hard disk capacity
- PCMCIA interface - Plug & Play
- Up to 12.8GB using optional Novadisk compression software 2.1
- Carry and run business presentations
- Download, store and use web files
- Use on Laptop or Desktop*

*Requires optional Parallel port cables

2.1 - 4.2GB	£279	£327.82	Novadisk Software	
3.2 - 6.4GB	£339	£398.32	£19.95	£23.44
4.0 - 8.0GB	£445	£522.87	Parallel & Power Cables	
6.4 - 12.8GB	£549	£645.07	£29.95	£35.19

KEY FEATURES

- No need for bulky mains adaptor, powered directly from computer
- Connects to PCMCIA equipped portables & desktops
- Mobile audio CD player
- Fully hot swappable
- Maximum performance - 3Mb/sec (with 20 speed)
- Small, lightweight & very attractive design
- Easy to install software driver included
- Multisession photo CD mode 1 & 2 compatible
- Can also be used with mains adaptor or 6 AA batteries

£175 £205.62



PSION SERIES 5



4MB	£285	£334.87
8MB	£299	£351.32

Take your office wherever you go. The PSION SERIES 5 gives you the computing power you need without the excess weight. With a fully featured, built in time manager, contact database, voice recorder and drawing package, the SERIES 5 is as valuable personally as it is professionally.

HP HEWLETT PACKARD

Expanding Possibilities



Options:

- 3 Year next-day exchange warranty
- Pack of 3 spare pens
- Leather case
- Compact Flash 2Mb inc adapter
- Compact Flash 4Mb inc adapter
- HP 320LX Palmtop PC
- HP 360LX Palmtop PC
- HP 620LX Palmtop PC

£65	£76.38
£6	£7.05
£45	£52.88
£59	£69.33
£89	£104.58
£299	£351.33
£339	£398.32
£469	£551.07

SHARP

HC-4500A

- 16Mb RAM
- 6.5" Colour screen
- 410g weight
- HC-4100 £325 + vat
- NIMH battery
- Touch screen with pen
- 1 Type II PCMCIA slot



CE-AG404 PCMCIA
Digital camera £275+vat

SHARP HC-4500A
£499 ex vat
£586.32 inc vat

digital HI-NOTE ULTRA 2000

The truly revolutionary DIGITAL HiNote 2000 notebook will change the way you look at notebooks forever. It's the first premium notebook to offer a 14.1" XGA TFT display, and sizzling performance in a thin and light form factor.

- 14.1" XGA TFT Screen
- 166MHz Pentium processor with MMX technology, 512K L2 cache
- Outstanding graphics with 2MB VRAM
- 3.2 GB storage; user-removable hard disk drive
- Long life Lithium Ion battery
- Only 33mm thin and weighing only 3.0 kilos
- Windows95 and Windows NT Workstation 4.0 configurations available
- 32MB EDO RAM (max configuration 144MB)
- Three year limited international warranty



HiNote Ultra 2000	166MMX,32Mb,14.1TFT,3.2Gb,20xCD,33.6modem	£2299	£2701.82
HiNote Ultra 2000	233MMX,32Mb,14.1TFT,4Gb,20xCD,56Kmodem	£2599	£3023.82
HiNote Ultra 2000	266MMX,32Mb,14.1TFT,4Gb,20xCD,56Kmodem	£2999	£3523.82
HiNote VP717	200MMX,32Mb,12.1TFT,2.1Gb,20xCD	£1499	£1761.82
HiNote VP745	266MMX,32Mb,13.3TFT,4.0Gb,20xCD	£2299	£2701.82
HiNote VP765	PII 266MMX,32Mb,13.3TFT,4.0Gb,20xCD,modem	£2599	£3023.82

SIEMENS NIXDORF

The Siemens Nixdorf SCENIC Mobile 700 and 710 models provide the ultimate high end multimedia notebook solution. Unique Pro view models come with detachable screens allowing you to deliver professional presentations in conjunction with an OHP display unit. You simply remove the 12.1" TFT SVGA display, place it on the projector and start your presentation. The projector in combination with Full screen/Full motion MPEG video playback and stereo audio function gets your message across in a big way!!




P233MMX 3.0Gb 12.1" Removable 32Mb 192Mb 20x £2999 £3523.82

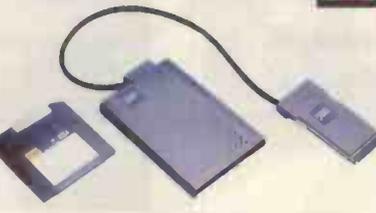
NOVAMAX Storage Products For Notebooks

Nova - cdMAX £175 £205.62



Lightest Smallest 20X CD-ROM Audio 'Diskman' Style Function High Speed Data Transfer 3.3Mb/s

Nova - zipMAX £175 £205.62



Compact Design, Pocket Size ZIP Drive Works With All Manufacturers ZIP100 Disks Data Transfer As Fast As A Notebook HDD

Nova - diskMAX £199 £233.82 2.1Gb



3.2Gb 4.1Gb £275 £323.12 £399 £468.83

Pocket Size Design Mobile Hard Drive Large True Capacity 5Gb Plus High 16Bit Data Transfer 3.3Mb/s +

ALL NOVAMAX PRODUCTS ARE: PCMCIA TYPEII COMPATIBLE. WINDOWS 95 PLUG AND PLAY AND COVERED BY FREE TECHNICAL SUPPORT AND A 3 YEAR WARRANTY

notebook upgrades from NOVAMAX

NOVAMAX notebook hard drive upgrades are 100% compatible and in the case of the "RM" options, include the removable carriers. If your model is not listed please contact sales for further information. NOVAMAX drives include three years warranty.

COMPACT OPTIONS	2.1GB	3.0GB	3.0GB	4.0GB	4.0GB	5.0GB	5.0GB	6.0GB	6.0GB
ARMADA 1600 SERIES									
ARMADA 4000 SERIES									
ARMADA 7000 SERIES									
CONTURA SERIES									
LTE ELITE SERIES									
LTE 6000 SERIES									
RM OPTIONS									
THINKPAD 310 SERIES									
THINKPAD 360 SERIES									
THINKPAD 365 SERIES									
THINKPAD 380 SERIES									
THINKPAD 365 SERIES									
THINKPAD 370 SERIES									
THINKPAD 380 SERIES									
THINKPAD 560 SERIES									
THINKPAD 600 SERIES									
THINKPAD 701 SERIES									
THINKPAD 750 SERIES									
THINKPAD 755 SERIES									
THINKPAD 760 SERIES									
THINKPAD 770 SERIES									
PORTEGE 300 SERIES									
PORTEGE 610 SERIES									
PORTEGE 660 SERIES									
SATELITE 100 SERIES									
SATELITE 110 SERIES									
SATELITE 200 SERIES									
SATELITE 220 SERIES									
SATELITE PRO 400 SERIES									
SATELITE PRO 410 SERIES									
SATELITE PRO 420 SERIES									
SATELITE PRO 430 SERIES									
SATELITE PRO 440 SERIES									
SATELITE PRO 460 SERIES									
SATELITE PRO 480 SERIES									
SATELITE PRO 490 SERIES									
7100 SERIES									
7200 SERIES									
7300 SERIES									
7400 SERIES									
7400 SERIES									
TETRA 810 SERIES									
TETRA 820 SERIES									
TETRA 830 SERIES									
TETRA 840 SERIES									
TETRA 700 SERIES									
TETRA 710 SERIES									
TETRA 720 SERIES									
TETRA 730 SERIES									
TETRA 740 SERIES									
TETRA 750 SERIES									

DRIVE IMAGE

KENSINGTON

SaddleBag (Brown) & (Black)
£49 ex vat £57.58 inc vat

Leather Bag
£69 ex vat £81.08 inc vat

Sky Runner
£39 ex vat £45.82 inc vat

The Kensington Leather Carrier, is a two compartment design featuring separate padded computer and printer compartments. It's numerous inside pockets hold a variety of business, computing and personal accessories

Top-loading design means ease of use in any working environment
Single zipper access to three large interior compartments is fast and convenient
Dimensions 17.50"L x 6.50"W x 12.25"H
Internal volume is an impressive 1,168 cubic inches
High density closed cell foam padding provides superior computer protection.

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5 years Tech Direct Ltd

td Projectors

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Projectors	
ASK	ex vat inc vat
ASK 880	£1749 £2065.07
ASK A6	£3999 £4698.82
ASK A4+	£3295 £3871.62
ASK A6+	£4349 £5110.07
A10	£6999 £8223.82
ASK 1280	£8750 £1028.12
mitsubishi	
LVP-X100E	£3949 £4640.07
NEC	
MT810 SVGA 600mm	£3249 £3817.57
MT1000 XGA 560mm	£4349 £5110.07
PROXIMA	
DS1	£2849 £3347.57
DP5900	£3149 £3700.07
DP9200	£3999 £4698.82
DP9300	£6499 £7636.32
SANYO	
PLC-508 SVGA 55	£3249 £3817.57
PLC-505 SVGA 700	£3349 £3935.07
PLC-8815 XGA 600	£4199 £4933.82
PLC-9005 XGA 1600	£8499 £9986.32
SONY	
CPJ-D500	£1099 £1291.32
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VPL-X600 XGA 600	£4599 £5403.82
ViewSonic	
PJ800	£2999 £3523.82
PJ802	£2849 £3347.57
PJ1000	£4299 £5051.32

Video Conferencing	
Baraka IntraCom	
VidCall32 Video Conferencing Kit Software Cinemail	£168 £197.40 £58 £68.15
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QuickCam VC Software	£73 £85.77
Digital Radar	£18 £21.15
PhotoBadge	£38 £44.65
Wig Out	£18 £21.15
CREATIVE	
VideoBlaster WebCam II	£54 £63.45
intel	
Create & Share USB	£108 £126.90
Create & Share PCI	£158 £185.65
ProShare Video Conferencing 200	£595 £699.12
ProShare Video System 200	£839 £985.82
Kodak	
DVC223 Desktop USB	£125 £146.87
pace	
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Videologic	
Captivator PCIVC	£145 £170.37

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EMAIL: ts@techdirect.co.uk

ProScreen 4100

LIMESCO

PHILIPS 4100

£1999 ex vat
£2348.82 inc vat

- Philips LIMESCO: unique and future-proof PC and MAC compatibility (SXGA, XGA, SVGA and VGA)
- Cost effective performance
- UHP lamp: up to 2000 hr lamp life with constant light output
- Intuitive controls put you confidently in control
- Keystone correction
- High reliability backed by professional service

ProScreen 4600

LIMESCO

PHILIPS Impact

£2999 ex vat
£3523.82 inc vat

PHILIPS Endurance

£2799 ex vat
£3288.82 inc vat

Philips offers two versions of its award winning ProScreen 4600 multimedia projector, each designed for different applications. Both feature the unique UHP lamp offering constant brightness. The ProScreen 4600 Impact gives 30% brighter output (650 ANSI Lumen) for the ultimate performance for travelling presenters. The ProScreen 4600 Endurance is perfect for intensive everyday use - and a lamp life of 8,000 hours is four times longer than the nearest competitive product.

ProScreen 4700

LIMESCO

PHILIPS 4700

£4595 ex vat
£5399.13 inc vat

- Philips LIMESCO: unique and future-proof PC and MAC compatibility (SXGA, XGA, SVGA and VGA)
- UHP lamp: up to 4000 hour lamp life (600 ANSI Lumen)
- Full PC control via ergonomic trackball/ IR Remote Control supports 360 degree control of projector, notebook and PC
- Built-in loudspeaker for Multi-Media presentations
- Immediate on-off switch without cooling down of the UHP lamp

5 reasons to choose PHILIPS

- 1) Best Picture** - Uniformity (& no Hot Spots) by 30% or more versus competitive offers without deterioration over time (Competitive offers drop in brightness by up to 50% after 500 hours. * Compatibility guaranteed up to SXGA without loss of information * Rich natural colours * Best quality for ease of use, reliability and both video and data as confirmed by the industry press and awards 2) **Best Price Performance Ratio** * Lowest Cost Per ANSI Lumen at 650 for list of 4990 Sterling - lower by up to 40% / ANSI Lumen versus leading competitors * Longest Lamp Life up to 8,000 hours - 4 times that of competitors giving it a cost of ownership of 31 Sterling per 1,000 hours.
- 3) Best Vendor Portfolio** No other vendor can offer: * End-to-end solutions with industry leading screen technology * Complete range of accessories * A future which includes a continuous flow of new innovative products, peripherals and related products including: Document camera, digital cameras, video conferencing, Video-Wall, monitors (LCD + CRT), plasma TV, info- display saystems, DVD, VCR, & a continuous stream of innovative product introduction over time. 4) **Best Prices** * Our latest prices make Philips the leader in this class of product 5) **Best Relationship and Excellent Margins** * Philips is here for the long run. With it's Worldwide headquarters just next door and with a national sales, service and support presence in most countries around the world, you have a friendly working relationship you can count on. Check out our trade pricing. Along with our incentive and marketing programmes with Philips you can truly partner for profit.

DMS DL450 PERSONAL PROJECTOR GOES WHERE YOU GO... EASILY.

- Weight: Lightweight 9.9 pounds
- Brightness: 500 ANSI lumens
- Colour Palette: 16.7 million colours (24-bit)
- Display: Single-Chip DMD (Digital Mirror Device)
- Projection Lamp: 120-watt Metal Halide
- Lamp Life: 2000 hours
- Projection Lens: Motorized zoom 1.2:1.7 with 17-degree keystone adjusted image
- Image Configuration: Plug & Project auto image positioning, auto-tracking and auto synchronization
- Audio System: Built-in 10-watt loudspeaker
- Warranty: 2 Year On-Site Swap Out
- Guarantee: 14 Day No Quibble Money Back
- TV Tuner: Includes built-in TV tuner

DL650 Same as above except

- XGA resolution
- Bright 800 ANSI Lumens

DMS DL650 £481.32 inc vat
DMS DL450 £2299 ex vat £2701.32 inc vat

HITACHI

True resolution 800 x 600
Compressed resolution 1024 x 768
700 ANSI Lumens
Remote mouse pointer

- 2w Stereo Speakers
- 16.7 million colours
- Remote control

The CPL850 (800x600 resolution) Hitachi Video data projector has stunning brightness with 700 ANSI lumens, the display on both models is incredible in bright rooms. With Polysilicon technology the projectors will astound and add to every corporate presentation and training session. The other unique feature about this model is that it includes 2 video and 2 VGA outputs.

HITACHI CPS 830
£2249 ex vat
£2642.57 inc vat

HITACHI CPL 850
£2499 ex vat
£2936.32 inc vat

HITACHI CPX 950
£3499 ex vat
£4111.32 inc vat

PROJECTORS FOR HIRE BY TECH DIRECT

	VGA	SVGA	XGA
Per day	£125 ex vat £146.87 inc vat	£150 ex vat £176.25 inc vat	£225 ex vat £264.37 inc vat
Per week	£375 ex vat £440.62 inc vat	£450 ex vat £528.75 inc vat	£675 ex vat £793.12 inc vat

SHARP

XGA INTELLIGENT COMPRESSION

300" 762 cm **SVGA 800 X 600** **AMP SPEAKER** **Table Top** **Colling** **AUTO VOLTAGE**

XG-NV2E

SHARP's NEW Compact Full SVGA High-Resolution Data Projector with 700 ANSI Lumen Brightness Expands Multimedia Presentation Possibilities.

- 700 ANSI Lumens Brightness
- Full SVGA (832 x 624) High Resolution Images
- XGA (1024 x 768) Compression
- Wireless Remote Control with Mouse Control, Laser Pointer and Backlit Functions
- Built-in Amplifier and Stereo Speakers
- Large 300", 16.7 million Full-colour projection
- NEW! XGN-V1E £4699 + vat**
- NEW! XGN-V3E £3999 + vat**

SHARP XG-NV2E
£2995 ex vat
£3519.12 inc vat

SHARP VISION

EPSON



BRING YOUR PRESENTATIONS TO LIGHT.

FREE!! Demonstration CD ROM
- available on request.



- How to set up your Epson Projector
- Features of EMP5100 & 7100
- How to best use your Epson Projector
- Rolling demonstration

NEW EPSON EMP7300

NEW Projector Ultra Bright
1200 ANSI Lumens

- Ultra Compact multimedia projector
- XGA 1024 x 768 Resolution
- Supports SXGA, SVGA and VGA
- Ultra bright 1200 ANSI Lumens
- Surround Sound audio capability
- Multiple Input Sources with Auto Recognition
- World Wide video format support
- Automatic setup, resizing and positioning
- Weighs only 6.2Kg
- Remote Control Operation from up to 10m



EPSON EMP 7300
£7199 ex vat
£8458.82 inc vat

Check Out www.maverick.co.uk for specs on lots more projectors.

NEW Projectors Ultra Light Ultra Bright
750 ANSI Lumens

The EPSON EMP 5100 & 7100 enable you to project screen images directly from your computer (laptop, Mac or workstation) and incorporate graphics, animated sequences, even live video - all with superb stereo sound. As brand leader EPSON are always at the forefront of development, using new lamp technology the EMP7300 shown above produces an amazing 1200 ANSI Lumens making it the brightest compact available.

EPSON EMP-7100

XGA RESOLUTION
Compact, light and ultra bright

- XGA resolution with VGA, SVGA and SXGA support
- Weighs only 6.7 Kg
- 650 ANSI lumens
- Advanced connectivity
- Auto Source recognition
- Rear and ceiling projection
- Stereo Speakers

£4349 ex vat
£5110.07 inc vat

EPSON EMP-5100

Compact, light and ultra bright
SVGA RESOLUTION

- SVGA with XGA and VGA support
- Weighs only 6.6 Kg
- 750 ANSI lumens
- Multi-connectivity
- Stereo Speakers
- Remote Control

£3349 ex vat
£3935.07 inc vat

CTX



CTX - Can now offer a comprehensive range of Projectors - for every budget and every application.

Model	Weight	ANSI	Resolution Lumens	Compression	Lamp Type	Elevation & Keystone	Image Size	LoudSpeaker	Lamp Changer	PC & Mac Compatible	PAL/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	✓	✓	✓	✓
EZ Pro 550	4.2Kg	350	800x600		400watt halogen	Elevation 20 Keystone 25	40-160"	3watts x 2	✓	✓	✓	✓
EZ Pro 550MI	4.3Kg	350	800x600	1024x768	250watt metal halide	Elevation 20 Keystone 25	40-160"	3watts x 2	✓	✓	✓	✓
EZ Pro 600	5.4Kg	550	800x600	1024x768		Elevation 20 Keystone 25	40-160"	3watts x 2	✓	✓	✓	✓
EZ Pro 680	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 550/550M



CTX EZPRO 550
£1375 ex vat
£1615.62 inc vat

CTX EZPRO 550M
£1749 ex vat
£2055.07 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



- 550 ANSI lumens
- 800 x 600 SVGA resolution
- 1024 x 768 XGA (compressed)
- 16.7 million colours
- Weight 12lbs

CTX EZPRO 500
£1035 ex vat
£1216.12 inc vat

CTX EZPRO 600
£2359 ex vat
£2771.82 inc vat

NEW EZPRO 680

- 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

£3345 ex vat
£3930.37 inc vat

NEW EZPRO 700

- Single chip DMD Display
- 500 ANSI Lumens target brightness
- 800 x 600 resolution
- VGA (expansion), SVGA-XGA (compression)
- 16.7 million colours
- Weight only 4.3Kg
- Image size 24" - 300"

£2495 ex vat
£2931.62 inc vat

Lowest UK Prices td

Providing value for money to our customers is of great importance to us. If our price isn't right, please call us - We want your business.

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Scanners & Cameras

CLAIM FREE SOFTWARE WITH EVERY ORDER!!

CHOOSE FROM : ENTERTAINMENT PACK, FAMILY PACK OR REFERENCE PACK.
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Scanners		
Model	Ex vat	Inc vat
Canon		
Canoscan FB310 P	£98	£115.15
Canoscan 300S	£139	£163.32
Canoscan FB610 P	£188	£220.90
DR3020 Document Management SCSi	£3498	£4110.15
EPSON		
GTX-5000 Parallel	£129	£151.57
GTX-5500 SCSi	£160	£188.00
GTX-9500 Parallel	£445	£522.87
GTX-9500 SCSi	£468	£549.90
GTX-9500 Parallel	£537	£630.97
FimScan 200 SCSi	£302	£354.85
Accessories		
GT Automatic Document Feeder	£308	£361.90
Transparency Unit	£358	£420.65
HEWLETT PACKARD		
ScanJet 5s Parallel	£133	£156.27
ScanJet 5100c	£145	£170.37
ScanJet 6100c	£429	£504.07
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 300 Parallel	£69	£81.07
Phantom 636 Parallel	£89	£104.57
Phantom 336CX P	£55	£64.62
ScanMaker 300 SCSi	£39	£104.57
ScanMaker 366 SCSi	£115	£135.12
ScanMaker X8 SCSi	£199	£233.82
35T Plus SCSi	£595	£699.12
ScanMaker 4 SCSi	£599	£703.82
ScanMaker 5 SCSi	£1799	£2113.82
ScanMaker 6400XL A3 SCSi	£899	£1066.32
ScanMaker 9600XL A3 SCSi	£1499	£1761.32
Accessories		
330630 Transparency Unit	£158	£185.65
Polaroid		
SprintScan 35LE S	£418	£491.15
SprintScan Plus S	£1189	£1397.07
visioneer		
PaperPort 3000	£94	£110.45
PaperPort Strobe Colour	£168	£197.40
PaperPort 6000	£138	£162.15
Cameras		
CASIO		
QV-70	£158	£185.65
QV-5000SX	£325	£381.87
QV-200	£195	£229.12
QV-700	£229	£269.07
EPSON		
PhotoPC 600	£303	£356.02
PhotoPC 700	£398	£467.65
Accessories		
PhotoPC 600 AC Adaptor	£49	£57.57
PhotoPC 600 4Mb Card	£99	£116.32
PhotoPC 600 15Mb Card	£259	£304.32
FUJIFILM		
DX-9	£239	£280.82
DX-7	£189	£222.07
DX-5	£165	£193.87
DS 300	£1249	£1467.54
MX 700	Call	
Accessories		
Mains Adaptor	£25	£29.37
HITACHI		
MPEG Video camera	£1448	£1701.40
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	
MINOLTA		
RD-175 SLR	£3995	£4694.12
Panasonic		
KXL600a DigiCam	£199	£233.82
RICOH		
Rioch 2E	£499	£586.32
SANYO		
DigiCam 200	£189	£222.07
DigiCam 210	£259	£304.32
DigiCam 250	£315	£370.12
DigiCam 300 XGA	£315	£370.12
Accessories		
200 AC Adaptor	£75	£88.12
300 AC Adaptor	£45	£52.87



FREE technical support hotline:
0181 231 5511

ePHOTO 307 DIGITAL CAMERA



Now you can quickly and easily create digital photos and transfer them to your PC. The new Agfa ePhoto 307 is ideal for both business and home use. Not only is the ePhoto 307 efficient and economical, but it's also fun!

- Stores 36 high or 72 standard resolution Images
- 640 x 480 or 320 x 240 pixels
- High quality 24-bit colour Images
- Built-in auto flash from 3-10 feet

AGFA ePHOTO
£163.32 inc vat

NEW - SNAPSCAN 310 - NEW



SnapScan is designed for use with every desktop PC or Mac, for home or office. A low cost, A4 flatbed scanner, which automatically captures images of outstanding quality within secs.

- Desktop, CCD flatbed, single pass colour scanner
- 300 x 600 ppi optical resolution
- 4800 x 4800 ppi through interpolation
- 30 bit colour depth, 10 ms/line scan speed
- FotoLook and FotoSnap 2.09 software
- On Site Warranty included

AGFA SnapScan 310
£82 ex vat
£96.35 inc vat

Improved version of the award winning SnapScan

NEW - ePhoto 1280 - NEW

The Agfa ePhoto 1280 digital camera offers demanding professionals advanced features, ease of use, and high quality output at a surprisingly affordable price. Five image quality settings are available for every picture taking purpose.



AGFA 1280
£464.12 inc vat

- Outstanding print quality, up to 1.2million colours (1280 x 960) with Agfa PhotoGenie technology
- The FlashTrack swivel zoom lens, for shooting from nearly any angle (280 degree swivel)
- Auto, fill-in, red-eye reduction and off flash modes
- Removable memory stores 6 - 60 images per 4MB SSFDC Card (one included)
- Agfa PhotoWise for quickly and easily accessing images
- The ability to view pictures on television
- Includes 4 high-capacity lithium batteries

NEW - SNAPSCAN 600 - NEW



AGFA SnapScan 600
£172 ex vat
£202.10 inc vat

AGFA SS 600 Artline
£269 ex vat
£316.08 inc vat

Low cost scanning is raised to superb quality levels by the SnapScan 600. It's an outright winner in the personal, A4 flatbed scanner market. Razor-sharp images are captured on PC.

- The ultimate low-cost A4 flatbed scanner
- 600 x 1200 ppi resolution, 30 bit colour depth
- Interpolated resolution up to 4800 ppi
- FotoLook, FotoSnap + FotoFlavor software
- OmniPage LE OCR software

Studiostar Full version
Studiostar Limited Edition
Arcus II

£465 **£546.38**
£359 **£421.83**
£739 **£868.32**

UMAX

The Award Winning UMAX scanners

ASTRA 1200S/1220S FLATBED SCANNERS



Umax continues its run of PC Pro awards with the Astra 1200S. 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 £219, the Umax is reasonably priced and is one of the better value scanners on test. But no corners have been cut in build quality, with solid, stylish chassis sporting extendable lid hinges which rise when a thick magazine or book is being scanned. You can also remove the lid for scanning very large objects.

In all, the Umax Astra 1200S is an amazing quality scanner at a very reasonable price, making it a worthy Quality winner.



- 1200S 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

UMAX Astra 1200S
£219 ex vat
£257.33 inc vat

QUALITY.	○○○○○
SPEED.	○○○○○
VALUE FOR MONEY.	○○○○○
OVERALL.	○○○○○

UMAX Astra 1220S
£219 ex vat
£257.33 inc vat

Astra 1200S Flatbed Scanner
Astra 1200S with PhotoShop 4.0
With PhotoShop & Transparency Adapter
2nd year extended warranty for ASTRAS
Powerlook ColourStudio 2LE
Powerlook III
Mirage II Pro

£219 **£257.33**
£339 **£398.32**
£548 **£643.90**
£29.95 **£35.25**
£749 **£880.08**
£1995 **£2344.12**
£5999 **£7048.82**

(Powerlook II & III Inc. MetaCreations Painter 5 OEM version & Wacom Artpad II FREE while stocks last)

ASTRA 610S AND 610P INCLUDE ADOBE PHOTO DELUXE SOFTWARE - FREE!!

ASTRA 610P PARALLEL

The parallel version of the Astra 610 flatbed scanner features a through parallel port for printer connection, plus all the superb features of the Astra 610S SCSi version at a super low price!!

- Single pass colour scanner
- 30-bit, over one billion colours
- 600 x 300 dpi optical resolution
- Easy-to-fit user friendly model
- Presto file management software inc.



UMAX Astra 610P
£59 ex vat
£69.33 inc vat

ASTRA 610S SCSi

- 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
£89 ex vat
£104.57 inc vat

ASTRA 1210P/1220P 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
£109 ex vat
£128.07 inc vat

UMAX Astra 1220U
£149 ex vat
£175.07 inc vat

NEW!!
Astra 1220U USB Scanner



OR TRY A REGIONAL SALES LINE: MANCHESTER: 0161 930 8611 BIRMINGHAM: 0121 607 8611 BRISTOL: 0117 900 0611 SOUTHAMPTON: 01703 308611 LEEDS: 0113 292 0611 GLASGOW: 0141 308 8611

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 auto 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)	£1191	£1399.42
NEW!! LS2000 SuperCoolScan (with SilverFast; Nikon Scan + PhotoShop LE)	£1310	£1539.25
NEW!! CoolPix 600 Digital camera	£365	£428.87
NEW!! CoolPix 900 Digital camera	£646	£759.05
NEW!! LS1000 SuperCoolScan	£995	£1169.12
Coolscan III with Nikon Scan 2.1	£509.78	£599
Coolscan III with Nikon Scan 2.1 (with Adaptec 1505E SCSI Card)	£526.80	£619
Coolscan II Ext (with SilverFast, Nikon Scan, PhotoShop LE & SCSI card)	£561	£659.17
Coolscan II Int (with SilverFast, Nikon Scan, PhotoShop LE & SCSI card)	£476	£559.30

Logitech



Freescan PageScan Color parallel **£98** ~~£115.15~~
£76 ~~£86.30~~

Logitech PageScan Color Parallel scanner gives you convenient personal document management, true 24-bit colour and flatbed versatility in a compact size. This powerful scanner transforms your papers, photos and printed materials into useful electronic information.

hp HEWLETT PACKARD



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.

NEW!! HP Scanjet 6250	£277	£325.17
HP Scanjet 4100C	£116	£136.30
HP Scanjet 5100C	£145	£170.32
HP Scanjet 6100C	£429	£501.07

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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.

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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.

Just LOOK at these prices!!

Genius



Price Buster!!
Genius scanner only
£39 + vat

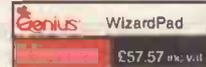
30 Bit 4800 dpi Parallel port scanner

High Resolution SCSI scanner
only **£99 + vat**

ColourPage HR5
30-Bit 9600 dpi SCSI scanner
Includes: SCSI card, IMAGEPALS GO!, PhotoImpact SE, Web Extensions and Recognita OCR.

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 Dabbler 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.



NetMouse PRO

Scrolling Mice
Use magic button for scrolling windows. PRO PS/2 with a serial adapter included. Side button supports Office 97/Internet Explorer 3.0 with one-step zoom and auto-panning and auto-scrolling functions in eight directions.



"OUT SOON"

Genius VIVID Pro 600 x 1200 dpi parallel Scanner, 30 bit, includes: Recognita OCR + Photo Express, Photo Impulse Web Extensions **£79 + vat**

EPSON

PhotoPC 700

Megapixel (1280 x 960) Auto Focus Digital Camera



NEW!!
EPSON PhotoPC 700
£467.65 inc vat

- Megapixel (1280 x 960) Auto Focus Digital Camera
- Ease of use with OLE2 and TWAIN support
- Large, high quality, built-in 2" LCD colour view finder
- PAL TV & Video output for excellent large screen viewing
- Extensive range of software included
- Up to 10 exposure continuous-shot mode
- Both Windows and Macintosh Compatible as standard
- Direct Printing to the Epson Stylus Photo range and Stylus COLOR 600, 800 & 850
- 4 Mb 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

GT 7000 Scanner

Easy to use, high quality 9600 dpi scanner with Start Button for one touch operation



NEW!!
EPSON GT 7000
Call to price

- 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
- Optional Film Adapter and Automatic Document feeder for added flexibility
- For windows 95/98, Windows NT 3.51 or later and Macintosh System 7.5 or later
- Software included is: Adobe PhotoDeluxe 2, PhotoShop 4 LE with the GT-7000 Photo only, Adobe PageMill 3 for Win and 2 for Mac, Xerox textbridge Classic, Presto! PageManager for EPSON, EPSON Scan! II 32, EPSON TWAIN 3, EPSON Personal Copy 2 including ColourWiz, Epson PhotoSheet.

UMAX

DC-F1 Digital Still Camera

The DC-F1 is the lowest cost - High quality digital camera in the world. It is based upon a revolutionary Active Pixe CMOS image sensor that provides 1920x1600 pixel high quality 30 bits/pixel images.



Our highest resolution Digital camera

- 800,000 pixel CMOS sensor
- High Quality images (1920 x 1600 x 30bits/pixel)
- JPEG compression
- Integrated Automatic Electronic Flash
- 2M Removable Flash Memory Cards, Included - stores up to 30 images
- Sound Recording at 20 sec. Per image
- Included software: Adobe PhotDeluxe, Adobe PageMill, Presto! PhotoAlbum

UMAX DC-F1
£279 ex vat
£327.82 inc vat

MICROTEK ScanMaker 6400XL

The best value A3 scanner available!!



Designed for professional applications the ScanMaker 6400XL is ideal for a production environment in corporates, advertising agencies, service bureaus for FPO positioning and for scanning large artwork, tabloid sized publications, and x-rays for medical imaging.

- 400 x 800 dpi, interpolated 6400dpi
- 36-bit colour depth
- Scan area 304mm x 430mm
- SCSI Interface
- Software inc: Scan Wizard (PC/Mac)
- Caere OmniPage LE (PC/Mac)
- Ulead PhotoImpact Fill (Image Editing) (PC)
- ImagePais2Go! (Image Editing) (PC, Win 3.X)
- ColourIt! (Image Editing) (Mac)
- Fractal Design Painter (Image Editing)
- Colour Management Software (PC/Mac)

ScanMaker 9600XL
ScanMaker 330 SCSI
ScanMaker 35T+
ScanMaker 336 SCSI
Phantom 330

MICROTEK 6400XL
£899 ex vat **£1056.32 inc vat**

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 3D WORLD ATLAS
 SCIENTIFIC PLANTARIUM
 COMPTONS BATTLES OF THE WORLD

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 PINBALL MANIA
 WITCHAVEN
 ENEMIES FROM SPACE
 TRUMP CASTLE
 STRIKE BASE

FAMILY PACK



BODYWORKS 6.0
 OXFORD INTERACTIVE ENCYCLOPEDIA
 LETS START LEARNING
 THINK & TALK FRENCH
 KITCHEN GOURMET
 DESIGN CENTRE 3D
 TYPING TUTOR PRO



Canon New Product

PC Direct BEST BUY

PowerShot A5 DIGITAL CAMERA

The Complete Photo Computing Solution

The PowerShot A5 packages includes:

- Rechargeable NiMH battery
- Disposable 2CR5 Lithium battery
- Battery charger/mains adapter
- Camera strap
- 8Mb CompactFlash card
- Connecting cables
- TWAIN driver
- Adobe Photoshop Plug-in module
- PhotoImpact 4.0 CD-ROM
- Stitch software
- Manuals

Canon A5
 £299 ex vat £457.07 inc vat

Powershot 600	£499	£586.33
Powershot 350	£299	£351.32

OLYMPUS

"This looks like being the best digital camera available to consumers. Ever." - What Digital Camera on the C-1400L

OLYMPUS C-1400L SLR Kit	OLYMPUS C-840L	OLYMPUS C-820L	OLYMPUS C-420L
<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 810,000 Pixel CCD 1024 x 768 XGA Resolution Autofocus & Intelligent flash 2Mb SmartMedia removable memory 2" TFT High Res LCD Screen Direct PAL, Video Output Comes with PhotoSoap software 	<ul style="list-style-type: none"> 350,000 Pixel CCD 640 x 480 VGA Resolution Autofocus & Intelligent flash 2Mb SmartMedia removable memory 2" TFT High Res LCD Screen Direct PAL, Video Output Comes with PhotoSoap software
OLYMPUS C-1400L £849 ex vat £997.57 inc vat	OLYMPUS C-840L £509 ex vat £598.07 inc vat	OLYMPUS C-820L £399 ex vat £468.82 inc vat	OLYMPUS C-420L £255 ex vat £299.62 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

SONY MVC-FD5 £335 ex vat £393.62 inc vat	SONY MVC-FD7 £335 ex vat £522.87 inc vat
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Kodak

The Award Winning DC210 Zoom camera

- True megapixel CCD with 1152 x 864 image resolution
- 4Mb picture card included stores 18 - 60 pictures
- 1.8" TFT colour LCD for picture preview & review
- 2X Focus Free Zoom Lens with close-up mode
- easy function select via Mode Dial
- Finished File Format (JPEG or FLASHPIX)
- Drag & Drop image straight into application
- serial (RS232C), Infrared (IRDA) & Video Out (NTSC & PAL) interfaces display pictures straight to TV!
- Supplied with Kodak PictureEasy 2.0 Adobe PhotoDeluxe & PageMill software, Windows 95 mounter & TWAIN Acquire module
- Optional Macintosh Interface Kit

Kodak DC210 £313 ex vat £487.62 inc vat	Kodak DC200 £294 ex vat £345.45 inc vat
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Also Available

DC220	£499	£586.32
DC260	£649	£762.57
DVC323	£119	£139.82

DC200 is as DC210 except: No carry case, No Adobe software, No Infrared interface, No zoom lens

MEMORY SOLUTIONS FOR DIGITAL CAMERAS

www.cubememory.com

Add a PCMCIA adapter to convert Compact Flash to ATA Flash.

ATA Flash works with the following cameras:

Agfa ActionCam
 Canon EOS-1, DCS1, DCS3, PowerShot 600
 Fuji DS-300, 505, 515, HC-2000
 Fuji DS 220
 Kodak DC-50, DCS420, 460, 465, EOS DCS1, DCS1, DCS5
 Minolta RD-175
 Nikon E2, E2N, E2S
 Pentax E1-C90
 Ricoh RDC-2, 2E
 Sony DKC-1D1

Adapter
 £13 £15.27

External Parallel Port Memory Card Readers

Compact Flash/ATA Flash	£79	£92.82
Smart Media/ATA Flash	£89	£104.57

Smart Media cards by TOSHIBA

4Mb	£21	£24.67
8Mb	£39	£45.82

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

Smart Media to PCMCIA adapter

Adapter	£59	£69.32
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XEROX

XEROX have a history of excellence in document management - With products installed in many leading corporates worldwide. Now, as they focus on the direct channel, Tech Direct are proud to be able to supply their products. Their feature rich, price competitive products are already winning awards.

DOCUPRINT 4512



Let the DocuPrint 4512 show you a new side of productivity. Xerox have included many features in this model as standard that are expensive options on printers from some other manufacturers: Duplex printing, 2 x 250 sheet paper input bins and a one year on site "swap out" warranty to name but a few.

- 600 x 600 dpi laser technology
- Up to 12ppm print speed
- Duplex standard - two sided printing
- Two built-in 250 sheet universal trays
- Long-life recyclable cartridges

XEROX 4512 £649 ex vat £762.57 inc vat	XEROX 4512N £749 ex vat £880.07 inc vat	XEROX 4512MP £989 ex vat £1162.07 inc vat
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DOCUPRINT C55

The **No.1** colour laser in the U.K here's why -



PC Plus, Editors Choice beating Lexmark, HP and QMS "Xerox has come through with a stonking little colour laser printer, which offers a lot at a low price." Network World, Recommended against HP 5Si mopier, Lexmark Optra S2450N, 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 £1799 ex vat £2348.8 inc vat	XEROX C55MPV £2799 ex vat £3288.82 inc vat
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HomeCentre or WorkCentre

Colour printer, Colour Copier, Detachable Colour Scanner **ALL IN ONE!**



The Ultra compact, affordable HomeCentre from Xerox only takes up the space of a typical printer, but is also a high quality full colour scanner and colour copier! The HomeCentre comes bundled with scanning, creative & image enhancement software which allows you to get up and running immediately.

- Scanning, creative and image enhancement software
- High quality colour and monochrome output
- Copying up to 99 pages
- Up to 6ppm mono
- Up to 1ppm colour

XEROX HomeCentre £149 ex vat £175.07 inc vat	XEROX WorkCentre £249 ex vat £292.57 inc vat
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4508	£249	£292.57	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

NEW DOCUPRINT XJ4C

The XJ4C makes an excellent debut in the inkjet market for Xerox. Not only does it provide excellent value for money at £129 but its 4 colour head technology ensures running costs are kept low. Plus, the optional high capacity black turbo cartridge lets you print laser like quality at an incredible 6ppm. For superior colour documents, the XJ4C also utilises "SmartPrint" automatic image enhancement. If that's not enough, the XJ4C also provides "on screen feedback" to let you know when your ink is running low. No more "DOWN TIME" for your print jobs!



- 4 ink print head system
- On screen prompt for low ink
- Prints up to 6ppm Mono 1.5ppm Colour
- Suitable for both DOS and Win Printers
- Free image software enhancement

XEROX XJ4C £89 ex vat £104.57 inc vat
NEW NEW XEROX XJ6C £109 ex vat £128.07 inc vat
XEROX XJ8C £149 ex vat £175.07 inc vat

MINOLTA

NEW MODELS!!

MINOLTA PagePro 8L £215 ex vat £252.62 inc vat	MINOLTA PagePro 8 £249 ex vat £292.57 inc vat	MINOLTA PagePro 8e £325 ex vat £381.87 inc vat
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MINOLTA COLOR PAGE PRO LASERPRINTER

CALL FOR A FREE DEMO

With such a competitive price, it's understandable for people to make the mistake of thinking that the Minolta Colour Page is a lower quality product to colour lasers from other manufacturers. This is not the case - please feel free to call us for a free demonstration to see for yourself.

- 3 pages per minute full-colour laser printer
- 12 ppm high speed monochrome printing
- Intel 33MHz RISC processor & high speed parallel port
- 4MB standard memory (upgradeable to 68MB)
- 150 sheet multipurpose tray & 250 sheet A4 cassette
- Optional 2nd 250 sheet paper cassette
- Optional Ethernet or Token Ring cards
- Upgradeable to Postscript Level 2
- Handles up to 157g/m² light card
- Simple to change consumables
- True 600 dpi colour resolution

MINOLTA Colour PagePro £1599 ex vat £1878.82 inc vat



Colour Laser only £1599

Amazing low prices announced!!

MINOLTA PAGE PRO 6E LASERPRINTER



- Minolta Super Fine Micro-Toning System
- 600 dots per inch resolution
- 2Mb standard memory (max 34Mb)
- Energy save and Toner save functions
- Multipurpose 150 sheet tray
- 6 pages per minute
- Two parallel ports
- INFRA - RED port

MINOLTA PagePro 6L £169 ex vat £198.57 inc vat	MINOLTA PagePro 6 £209 ex vat £245.57 inc vat	MINOLTA PagePro 6E £275 ex vat £323.12 inc vat	MINOLTA PagePro 12 £549 ex vat £645.07 inc vat	MINOLTA PagePro 20 £725 ex vat £851.87 inc vat
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InkJet Printers

Canon	ex vat	inc vat
BJC 5500 A3 Cir	£399	£468.82
BJC 4300 A3 Cir	£377	£450.22
BJC 4650	£194	£227.95
LEXMARK		
1100	£74	£86.95
3200	£129	£151.57
5700	£165	£193.87
7200	£189	£222.07

Laser Printers

Canon		
LBP 1760 16ppm	£629	£739.07
LBP 2460+ 24ppm	£1425	£1674.37
Colour Laser 360PS 1616i	£3625	£4258.37

Panasonic

KX-P7200	£235	£276.12
KX-P6300	£189	£198.57
KX-P6500	£235	£276.12
KX-P8410	£1099	£1291.32

QMS

DeskLaser 600	£158	£185.65
DeskLaser 1400P	£654	£768.45
DeskLaser 2000Net A3 Ethernet	£888	£1043.40
DeskLaser 2000XNet A3 Duplex Ethernet 2060DX	£1338	£1572.15
2060BX	£1068	£1254.90
2060GX	£1328	£1560.40
2060GX	£1578	£1854.15
2060IS	£1998	£2347.65
2060EX	£2668	£3134.90
2425PS	£2868	£3369.90
2425EX	£4148	£4873.90

MagiColor II

MagiColor II DeskLaser	£1548	£1818.90
MagiColor II CX 24MB	£2348	£2758.90
MagiColor II CX Exec 80MB	£3198	£3757.65

SHARP

JX-9680 Twin Cassette	£548	£643.90
JX-9685 Duplex	£798	£937.65
JX-9865N Duplex Ethernet	£898	£1055.15

Tally

T9006	£188	£220.90
T9208	£228	£267.90
T9012	£448	£526.40
T8104 colour	£268	£2664.90

Faxes

Canon		
T-21	£178	£209.15
T-31	£198	£232.65
T-30 Inkjet	£228	£267.90
B-150 Inkjet	£234	£274.95
L-250 Laser	£494	£580.45
L-300 Laser	£618	£726.15

Panasonic

UF-S2	£178	£209.15
UF-S1 TAM	£208	£244.40
UF-S10	£248	£291.40
KX-F2690	£184	£216.20
KX-F2780	£218	£256.15
KX-F1810	£254	£298.45
KX-F1100E	£378	£444.15
UF-332 Plain Paper	£388	£455.90
UF-280M	£758	£890.65
UF-550 Laser	£628	£737.90
UF-560 Laser	£678	£796.65

SAMSUNG

SF-150	£114	£133.95
F-150	£144	£169.20
SF-910 TAM	£158	£185.65
SF-2900M TAM	£188	£220.90
SF-4000 Inkjet	£228	£267.90
SF-5500 Laser	£358	£420.65
SF-6000 Laser	£488	£573.40
SF-6100 Laser	£538	£632.15
SF-6100 Laser	£598	£702.65

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

Multi-Function

Canon		
MPC-20 Colour Inkjet	£288	£338.40
MPL-90 Laser	£768	£902.40
Panasonic		
UF-342 Inkjet	£638	£749.65
UF-344 Inkjet	£878	£1031.65
UF-770 Laser	£1208	£1419.40

SAMSUNG

SF-4200 Colour Inkjet	£258	£303.15
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SHARP

FO-1660M	£224	£263.20
F-3600M laser	£128	£502.90

TOSHIBA

TF-461 Colour	£438	£514.65
TF-601 Laser	£638	£749.65
TF-605 Laser	£748	£878.90

InkJet & Laser Accessories Continued over page.

PRICE MATCH

We will usually match or beat any price lower than our own!

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A Standard Chartered Group company
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 SCIENTIFIC PLANTARIUM
 COMPTONS BATTLES OF THE WORLD

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HEWLETT PACKARD **Guaranteed** **Lowest U.K Prices on HP HEWLETT PACKARD Printers** **Just call us!**

Expanding Possibilities



HP InkJet Printers
DJ 690c
NEW!!
£96 ex vat
£112.80 inc vat

- 600 dpi Black, 300 dpi Colour Printing
- 5 ppm Black, 1.7 ppm Colour
- 100 sheet input tray
- Plain & glossy paper, photo, transparency, envelopes, card, banner paper, iron-on transfers
- 1 year Warranty



HP 2000
£450 ex vat
£528.75 inc vat

- 600 dpi Black, PhotoREt II for photo-quality
- 10 ppm Black, 7 ppm Colour
- 150 sheet input tray
- 2 Mb RAM
- 4 high capacity ink cartridges & 4 long-life printheads
- Ink level indicator
- Transparency sensor & job cancel button
- HP 2000CN version: Inc HP 2000C printer, HP JetDirect 300X printer server & 250 sheet accessory paper tray

Other InkJet Print

HP DESKJET 340	£139	£158.62
HP DESKJET 340 CBI	£159	£186.82
HP DESKJET 420	£66	£77.55
HP DESKJET 690	£96	£112.80
HP DESKJET 710C	£134	£157.45
HP DESKJET 720	£149	£175.07
HP DESKJET 890C	£202	£237.35
HP DESKJET 895Cxd	£186	£218.55
HP DESKJET 1120C	£285	£334.87
HP DESKJET 2000C	£450	£528.75
HP DESKJET 2000CN	£675	£793.12
HP DESKJET 2600C	£682	£801.35



HP LaserJet Printers
LJ 6L
£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



LJ 4000
£711 ex vat
£835.42 inc vat

- First page out in 15secs
- Up to 16ppm print speed
- 1200dpi resolution
- 500 sheet tray
- Upto 5 input bins (1,100 sheets)
- 1 year return to HP warranty

Other LaserJet Printers

LJ 6	£232	£272.60	LJ 4000T	£787	£924.72
LJ 6P	£461	£541.67	LJ 4000N	£914	£1073.95
LJ 6MP	£562	£660.35	LJ 4000TN	£990	£1163.25
LJ COMPANION	£78	£91.65	LJ 4000N	£914	£1073.95
LJ 3100	£489	£574.57	LJ 4000TN	£990	£1163.25
COL LJ 5	£246	£289.50	LJ 5000	£999	£1091.57
COL LJ 5N	£270	£317.20	LJ 5000N	£1334	£1567.45
COL LJ 5M	£3099	£3641.32	LJ 8000C	£1849	£1937.57
LJ 5	£636	£747.30	LJ 8000N	£1762	£2070.35
LJ 5N	£795	£934.12	LJ 8000DN	£2062	£2422.85
LJ 4000	£711	£835.42	Mopier 240	£2362	£2775.35



LJ 3100
£489 ex vat
£574.57 inc vat

- Print:** 600 dpi Black, 6 ppm laser
Copy: 6 ppm copier (with scan ahead to memory)
Scan: 50-200% reduce/enlarge, Sheetfed scanner
Fax: 300 dpi optical/600 dpi enhanced, Single-Point installer, 6 secs pp (with scan ahead to memory), 150 page memory, 175 number speed dial, 1 year Warranty, Bi-directional parallel Interface/connection



OJ 590
£289 ex vat
£339.57 inc vat

- Print:** 600 dpi Black/600 dpi Colour with HP ColourSmart
Copy: 5 ppm black/2 ppm colour, black 1.2 gpm
Scan: 50-200% reduce/enlarge, Sheetfed scanner
Fax: 300 dpi optical/600 dpi enhanced, 6 secs pp, 65 page memory, 100 number speed dial, 1 year Warranty, Bi-directional parallel (centronics) interface

Other HP All-In-One Products

HP OFFICEJET 635	£339	£398.32
HP OFFICEJET 1170	£489	£574.57
HP OFFICEJET 1175	£614	£721.45

brother **HL-1070 8MB** £370.12 inc vat **HL-1050 8MB** £299.62 inc vat



brother HL-820
 • 8ppm print speed, 600dpi print resolution
 • Windows dedicated Printing 2Mb of standard memory
 • 200 sheet paper input
 • Semi automatic double sided printing
 • Intelligent sleep mode, Auto wake up
 • Low running costs
 • Auto e-mail printing (POP3 required)



brother HL-1070
 • 10ppm print speed, 1200dpi resolution
 • 4Mb standard memory expandable to 36Mb
 • Network connectivity option, Dual paper tray as standard
 • PCL6 & PostScript 2 language emulation as standard
 • Intelligent sleep mode, Low running costs
 • Auto e-mail printing (POP3 required)
 • One year on-site warranty

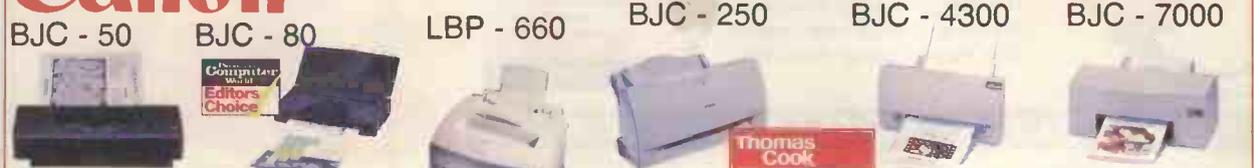


brother HL-1040
 • 10ppm print speed, 600dpi print resolution
 • 2Mb standard memory
 • Network connectivity option
 • Windows/DOS compatible
 • Semi automatic duplex
 • Intelligent sleep mode, Low running costs
 • Auto e-mail printing (POP3 required)



brother HL-1050
 • 10ppm print speed, 66MHz RISC processor
 • 1200dpi resolution, 4Mb standard memory expandable to 36Mb
 • PCL6 compatible, Network connectivity option
 • Multiple emulations
 • IEEE1284 & Universal Serial Bus interfaces
 • Semi automatic double sided printing
 • Auto e-mail printing (POP3 required)
 • Intelligent sleep mode, Low running costs

Canon 'Extended warranties available for all Canon printers'



<p>Canon BJC-50 • 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 • Weighs only 900g • BJC 50 Scan head £87+vat</p>	<p>Canon BJC-80 • 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</p>	<p>Canon LBP-660 • Personal mono laser printer • 600dpi resolution • 6ppm print speed • 100 sheet auto sheet feeder • Uses Microsoft Windows printing system • 1 year on site warranty</p>	<p>Canon BJC-250 • A4 Colour printer - ideal for home use • 720 x 360dpi (mono) • 360 x 360dpi colour • Optional Photorealism cartridge • FREE BC-02 Ink cartridge while stocks last (£19.99RRP) • FREE Thomas Cook voucher worth £140 (while stocks last, please check availability) • 1 year return to canon warranty</p>	<p>Canon BJC-4300 • A4 Colour printer - ideal for both home & business use • 720 x 360dpi • Up to 4.5ppm mono, 2ppm colour • Image Optimiser technology • FREE Thomas Cook voucher worth £200 (while stocks last, please check availability) • optional colour image scanner cartridge • 1 year return to canon warranty</p>	<p>Canon BJC-7000 • A4 Colour printer - ideal for high quality DTP & Graphics • 1200 x 600dpi • New P-POP printing technology • Unvarnished plain paper output • Prints on card up to 550gsm • Image Optimiser technology • New large capacity cartridges • A4+ size paper support gives full A4 bleed</p>
£187 ex vat £219.72 inc vat	£138 ex vat £162.15 inc vat	£177 ex vat £207.98 inc vat	£68 ex vat £79.90 inc vat	£87 ex vat £102.22 inc vat	£174 ex vat £204.45 inc vat



KYOCERA FS-1700 LASER PRINTER

KYOCERA FS-600 LASER PRINTER

KYOCERA FS-800 LASER PRINTER



KYOCERA FS-800
£415 ex vat
£487.62 inc vat

- High performance personal/small workgroup printer
- 8ppm print speed
- 4Mb RAM, upgradeable to 36Mb
- Ultra fast 50MHz power PC processor
- 600dpi plus resolution enhancement
- PCL5e and PostScript level 2 emulations as standard
- 150-sheet enclosed paper cassette
- Options include 250-sheet second cassette, network and serial interfaces



RECOMMENDED
PC Direct
BEST BUY

- 12ppm and 18ppm network laser printers
- Optional multi-protocol Ethernet Interface
- 2Mb Pre-installed Memory
- Fully SNMP compliant/Windows plug & play
- High speed parallel and serial interfaces
- 250 sheet standard cassette plus 100 sheet multi-purpose feed



- **KYOCERA FS-1700**
£499 ex vat
£586.32 inc vat
- **KYOCERA FS-1700N**
£649 ex vat
£762.57 inc vat
- **KYOCERA FS-1700T**
£569 ex vat
£668.57 inc vat
- **KYOCERA FS-3700+**
£695 ex vat
£816.62 inc vat

- 600dpi, 6ppm laser printer
- Cartridge-free technology
- 50MHz PowerPC processor
- Internal 150 sheet cassette
- Ethernet/serial interface options

The PC Direct Verdict (Jan '98)

With a price of just £239, the FS-600 is great value for money. It easily attains its quoted speed of 6ppm, and has a very low time-to-first-page. Paper handling is a cut above most of its rivals thanks to an optional second cassette and print quality is also on a par with any 600dpi machine. The FS-600 is an excellent choice for personal use or to share among a small workgroup particularly in view of its highly competitive price.

KYOCERA FS-600
£239 ex vat **£280.82 inc vat**

Original Toners

brother	ex vat	inc vat
HL-630/631/660	£17	£19.97
HL-730/760	£12	£14.10
HL-1060	£13	£15.27
HL-1260/1660	£61	£71.67
EPSON		
EPL-9000	£128	£150.40
EPL-N1200	£65	£76.37
EPL-N2000	£113	£132.77
HEWLETT PACKARD		
LaserJet IIIP/LP	£51	£59.92
LaserJet III/L	£43	£50.52
LaserJet 4/4+5	£41	£48.17
LaserJet 4L/4P	£42	£49.35
LaserJet 4V	£42	£49.35
LaserJet 5P/6P	£49	£57.57
LaserJet 5L	£38	£44.65
LaserJet 5S/8000	£94	£110.45
LaserJet 4000	£54	£63.45
LaserJet 5000	£92	£108.10
KYOCERA		
FS-400	£11	£12.92
FS-1550/1600/3400/3600	£37	£43.47
FS-1700/3700	£38	£44.65
FS-1700/3700 HC-AP	£43	£50.52
LEXMARK		
Optra 7k Diamond	£111	£130.42
Optra 15k Diamond	£151	£177.42
Optra S 7k Diamond	£128	£150.40
Optra S 17k Diamond	£153	£179.77

Inkjet Cartridges

Canon	ex vat	inc vat
BJ-10 Black	£11	£12.92
BJ-200/210/230/240 Black	£11	£12.92
BJC-210/240/250 Ci	£12	£15.27
BJC-240/250 Photo Kit	£13	£14.10
BJC-4550 Photo	£18	£21.15
BJC-4550 Photo Kit	£14	£16.45
BJC-4550	£18	£21.15
Fluorescent	£23	£27.02
BJ-300/330 Black	£7	£8.22
BJC-800 Black	£10	£11.75
BJC-800 Colour	£14	£16.45
BJC-600/610/620/Bk	£4	£4.70
BJC-600/610/620/Ci	£4	£4.70
BJ-30/70 Black Tank 3 Pack	£19	£22.32
BJC-70 Colour	£8	£9.40
BJC-70 Colour Tank 3 Pack	£22	£25.85
BJC-70 Colour 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 Ink Tank	£18	£21.15
BJC-7000 Colour Ink Tank	£20	£23.50
BJC-7000 Photo Ink Tank	£28	£32.90
BJC-7000 Black Ink Tank	Call	
BJC-7000 Colour Ink Tank	£13	£15.27
BJC-7000 Photo Ink Tank	£18	£21.15
EPSON		
Stylus 800/1000 Bk	£6	£7.05
Stylus 300 Black	£14	£16.45
Stylus Colour/Pro Bk	£8	£9.40
Stylus Colour/Pro Ci	£16	£18.80
Stylus 200/820/1115 black	£11	£12.92
Stylus 200/500 Ci	£17	£19.97
Stylus 1500 Black	£26	£30.55
Stylus Pro XL+ Ci	£17	£19.97
Stylus 4/5/600/1520 Colour	£13	£15.27
Stylus 4/5/600 PBK	£12	£14.10
Stylus 200/500 Ci	£17	£19.97
Stylus 800/1520 Bk	£13	£15.27
Stylus Photo 5 Ci	£11	£12.92
Stylus 3000 Black	£11	£12.92
Stylus 3000 Colour	£31	£36.42
Stylus 3000 Colour	£12	£14.10
HEWLETT PACKARD		
DJ 400/5x Black	£17	£19.97
DJ 400/5x Colour	£18	£21.15
DJ 600/670/690 Bk	£17	£19.97
DJ 600/670/690 Ci	£17	£19.97
DJ 720/800/1100 Bk	£17	£19.97
DJ 820/870/890/1100 Ci	£17	£19.97
DJ 690 Photo/Realis	£19	£22.32
DJ 720/890 Colour	£17	£24.67
DJ Pro910/320/340	£14	£16.45
DJ 1600 Black	£17	£19.97
DJ 1600 Colour	£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 Ci	£23	£27.02
ColourJet 2070 Bk	£26	£30.55
ColourJet 2070 Ci	£18	£21.15
ColourJet 2050 Bk	£22	£25.85
ColourJet 2050 Ci	£22	£25.85

NEW from EPSON



Software includes: PrintArtist v.4 - Imaging editing graphics software - LivePix v.1 - Professional photo image editing software (Windows & Macintosh) - Photo Quality Media pack - a selection of EPSON print media. Customisable Mouse Mat - free mouse mat that allows users to insert their own printed designs under the transparent cover.



- 3 Year extended warranty service available on all EPSON printers, scanners and video projectors
- Flexible cover - RTB or On-Site response packages
- Product history known as own product is repaired not replaced
- Warranty is transferable if product is sold on
- EPSON trained engineers and EPSON spares used
- Options also covered if included with registered product
- Refer to specific product for price

THE NEW EPSON STYLUS COLOR 740

EPSON Ultra MicroDot - the world's smallest ink droplet in black & colour

- 1440dpi with Variable-Sized Droplet Technology
- Advanced PhotoReal colour printing
- 40% Speed Improvement
- Parallel, Serial & USB Interfaces
- Win 95, 98, NT 4.0 & MAC compatible
- Highest quality output on all media types including plain paper
- Advanced 4 colour Dual-Cartridge Ink System
- New Printer Driver Enhancements
- New full function Status Monitor
- Free NEW Advanced 'PerfectPicture Pak' software & paper media bundle



£177 ex vat
£207.97 inc vat

THE NEW EPSON STYLUS COLOR 640

1440 dpi PhotoReal output with no hidden extras

- 1440dpi colour & true black printing with EPSON Super MicroDot
- Fast print speeds
- EPSON PhotoEnhanced 3 for Optimisation of Digital Images
- Windows 95 & 98 compatible
- High quality output on all media types including plain paper
- Free NEW 'PerfectPicture Pak' software bundle
- Advanced Dual-Cartridge Ink System
- New Printer Driver Enhancements
- New full function Status Monitor



£133 ex vat
£156.27 inc vat

THE NEW EPSON STYLUS COLOR 440

A perfect introduction to colour printing at home

- 720dpi PhotoReal colour & black printing
- Designed for ease of use - ideal for first time buyers
- Easy to use Interactive Online help
- Fast print speeds
- Free NEW 'PerfectPicture Pak' Home Creativity software bundle
- Free PhotoQuality Paper Pack
- High quality output on all media types including plain paper
- Advanced Dual-Cartridge Ink System
- New Printer Driver Enhancements
- New full function Status Monitor
- Windows 95 ICM Colour Compliance



£103 ex vat
£121.02 inc vat

EPL- 5700 LASER PRINTER

- 8ppm with 100MHz RISC processor for fast, efficient printing
- True 600 x 600dpi
- 1200dpi with MicroGray 1200 and RiTech
- 4Mb RAM as standard-upgradeable to 36Mb
- Up to 650 sheets capacity (optional paper cassette)
- Parallel & Serial Interfaces as standard
- Standard, Network & PostScript ready configurations
- 1 Year RTB Warranty



£304 ex vat
£357.20 inc vat

EPSON STYLUS COLOR 850

- Ultra-fast Print Speed up to 9ppm mono, 8.5ppm Colour
- PhotoReal colour, Laser-sharp Black output standard
- 1440dpi colour printing on plain paper
- Win 3.1, Win 95, Win NT and Mac compatible
- High capacity dual ink cartridge system
- New full function status monitor
- 1 Year RTB warranty as standard

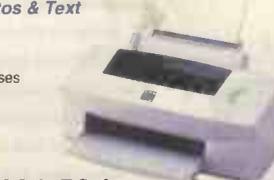


£207 ex vat **£243.22 inc vat**

EPSON STYLUS PHOTO 700

New Generation Home Printer for Photos & Text

- 1440dpi Photo Reproduction Quality output
- Prints on a wide range of media
- EPSON PhotoEnhanced 2 - automatically optimises photo output
- Win 3.1, Win 95, Win NT and Mac compatible
- 1 Year RTB Warranty as standard



£163 ex vat **£191.52 inc vat**

	ex vat	inc vat		NEW	Call
FilmScan 200	£303	£356.03	Stylus Pro 5000		
StylusColor 300	£76	£89.30	PhotoPC 600	£303	£356.02
StylusColor 800	£207	£243.22	EPL-N1200	£593	£696.77
StylusColor 850	£207	£243.22	EPL-N1200EN	£791	£929.42
StylusColor 1000	£292	£343.10	EPL-N1200PS	£986	£1158.55
StylusColor 1520	£251	£299.92	EPL-N2000	£1278	£1501.65
StylusColor 3000	£1118	£1313.65	EPL-N2000PS	£1582	£1858.85
StylusPhoto	£147	£172.72	EPL-5700EN	NEW	Call
			EPL-5700PS	NEW	Call

EPSON DOT-MATRIX RANGE

	ex vat	inc vat		ex vat	inc vat
LX 300	£97	£113.97	DFX 8000+	£1911	£2245.42
LX 1050+	£154	£180.95	DFX 8100	NEW	Call
FX 870	£247	£290.22	LQ 300	£115	£135.12
FX 880	£247	£290.22	LQ 570+	£216	£253.80
FX 1170	£230	£270.25	LQ 670	£230	£270.25
FX 2170	£395	£464.12	LQ 870	£377	£442.97
FX 2180	NEW	Call	LQ 2070	£330	£387.75
DFX 5000+	£1226	£1440.55	LQ 2170	£468	£549.90
			DLQ 3000+	£791	£929.43

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OKIPAGE 8c *The New OKIPAGE 8c - the BEST Value - for - money Colour Laser available today. Just look at these specs:*



- LED 8ppm Colour page printer
- True 600 x 600 dpi resolution
- 32 seconds to first print
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- Unique colour tandem engine

OKI OKIPAGE 8c
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OKIPAGE 20N

- LED 20ppm page printer (PCL6)
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OKI OKIPAGE 20N
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OKIPAGE 16N

A super-fast printer which offers top-quality output. The ideal choice for demanding office environments, and a double award winner in the latest review.



- 16 pages per minute at 600 x 600 dpi
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- 6 Mb as standard (up to 66 Mb)
- 45 scalable fonts x 3 bitmap fonts
- High capacity 500 sheet tray plus 100 sheet manual feeder

OKI OKIPAGE 16N
£579 ex vat £680.32 inc vat



OKIFAX 740

The OKIFAX 740 is ideal for the small office, workgroup or business, offering all the convenience of plain paper faxes with the quality and economy of inkjet printing.

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- 18 secs per A4 sheet
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- 50 autodial numbers

OKI 740
£319 ex vat
£374.82 inc vat

NEW range of OKIFAXES launched!!

OKIFAX 2600	£1489	£1749.57
OKIFAX 4100	£489	£574.57
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OKIFAX 5500	£989	£1162.07

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 (ON REQUEST)



OKIPAGE 10i

- LED 10ppm (PCL6)
- 600 x 1200dpi (600 dpi printhead)
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- Standard 2 Mb memory - upgradeable to 35 Mb
- Upgrade path to full network capabilities



OKI OKIPAGE 10i
£359 ex vat £421.82 inc vat

OKIPAGE 4W PLUS

- New LED 4ppm personal page printer from OKI
- Excellent alternative to a network laser
- Fast high quality text and graphics output
- Improved paper guide system and cover latch
- 600 dpi class printing
- Improved Windows 3.x/95 driver
- New Windows NT 4.0 driver



OKI 4W PLUS
£135 ex vat £158.63 inc vat

OKIPAGE 4WPlus - 600dpi, 10ppm, PCL6	£135	£158.62
OKIPAGE 6e - 600dpi, 6ppm, PCL5e	£189	£222.08
OKIPAGE 6ex - 1200dpi, 6ppm, PCL5e, 2Mb	£219	£257.33
OKIPAGE 10iS - with Serial I/F	£395	£464.12
OKIPAGE 10iEN - Ethernet Printer	£445	£522.87
OKIPAGE 16N - 600dpi, PCL5e	£579	£680.32
OKIPAGE 16NPS - Postscript Printer	£699	£821.32
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OKIPAGE 16ENPS - EthernetPostscript	£869	£1021.07
OKIPAGE 20EN - Ethernet Printer	£889	£1044.57
OKIPAGE 20NPS - Postscript Printer	£899	£1056.32
OKIPAGE 20NDX - Duplex Printer	£909	£1068.07
OKIPAGE 20ENPS - Ethernet Postscript	£1039	£1220.82
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ML320P	£295	£346.63
ML321P	£355	£417.13
ML380P	£209	£245.58
ML385	£319	£374.83
ML395M	£629	£739.08
ML395C	£714	£838.95
ML520P	£325	£381.88
ML3320	£309	£363.08
ML3390	£329	£386.58
ML3321	£365	£428.88
ML3391	£379	£445.33
ML521P	£385	£452.38
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ML591P	£495	£581.63
ML3410	£795	£934.13



OKIFAX 740MF

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- 600 dpi mono/300dpi colour printing
- Autodial: 10 one-touch/50 speed-dial
- 18 secs/page transmission speed
- Compact and space saving design
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- 150 sheet paper tray

OKI 740MF
£359 ex vat
£421.82 inc vat

CTX

1555E/ML510 £99

CRT Size/Viewable 15"/13.8"
Dot Pitch (mm) 0.28mm
CRT Type FST
Max. Resolution 1024 x 768 @ 70Hz
Rec. Resolution 800 x 600 @ 90Hz
Special Features MPRII, CE

CTX

1769SE/ML700 £189

CRT Size/Viewable 17"/15.7"
Dot Pitch (mm) 0.28mm
CRT Type FST
Max. Resolution 1280 x 1024 @ 65Hz
Rec. Resolution 1024 x 768 @ 90Hz
Special Features MPRII, CE

CTX

1792UA/PR710T £329

CRT Size/Viewable 17"/16"
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/VL950T £369

CRT Size/Viewable 19"/18"
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

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- Dot pitch 0.26/0.25mm
- Windows 95 Plug & Play Compatibility
- TCO 95 Compliant

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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
- Maximum 1280 x 1024 @ 60 Hz resolution
- Recommended resolution 1024 x 768 @ 85Hz
- 0.28mm dot Pitch
- 17 Display Modes

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CA6536DL 15" Monitor

£127 ex vat £149.22 inc vat

All Monitors Come With a 3 Year On-Site Warranty As Standard

Monitors

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10 50 35 15"	£89	£104.57
10 50 80 15"	£125	£146.87
10 70 20 17"	£149	£175.07
10 70 15 17"	£179	£210.32
10 70 40 17"	£189	£222.07
10 70 65 17"	£245	£287.87
10 70 50 17"	£249	£292.57
10 60 90 19"	£339	£398.32
NEC		
Multisync A500 15"	£158	£185.65
Multisync E500 15"	£188	£220.90
Multisync M500 15"	£208	£244.40
Multisync A700 17"	£294	£345.45
Multisync E700 17"	£368	£432.40
Multisync M700 17"	£394	£462.95
Multisync P750 17"	£408	£479.40
Multisync E1100 21"	£738	£867.15
NOKIA		
449Xi Plus 15"	£169	£198.57
449Xa Plus 15"	£179	£210.32
4472a 17"	£259	£304.32
447X Pro 17"	£319	£374.82
447X Pro A 17"	£319	£374.82
446X Pro 19"	£459	£539.32
445Xi Plus 21"	£649	£762.57
445X Pro 21"	£669	£786.07
SAMSUNG		
SM400B 15"	£75	£88.12
SM500S 14"	£95	£111.62
SM500B 15"	£124	£145.70
SM700S 17"	£179	£210.32
SM700P 17"	£289	£339.57
SM1000P 21"	£699	£821.32
TAXAN		
Ergovision 420LR 14"	£109	£128.07
Ergovision 550 15"	£149	£175.07
Ergovision 550S 15"	£155	£182.12
Ergovision 730 17"	£245	£287.87
Ergovision 730S 17"	£255	£299.62
Ergovision 740 17"	£295	£346.62
Ergovision 740S 17"	£299	£351.32
Ergovision 760 17"	£255	£299.62
Ergovision 760S 17"	£265	£311.37
Ergovision 975 19"	£465	£546.37
Ergovision 2150 21"	£799	£938.82
ViewSonic		
E641 14"	£88	£103.40
E655 15"	£124	£145.70
G653 15"	£135	£158.62
P655 15"	£145	£170.37
E771 17"	£225	£264.37
GS771 17"	£269	£316.07
GAT71 17"	£274	£321.95
G773 17"	£269	£316.07
GT775 17"	£339	£398.32
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G800 20"	£539	£633.32
P775 17"	£319	£374.82
P775 17"	£375	£440.62
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Terminator 128 4Mb	£75	£84.62
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Dynalite 3DGL 8Mb	£95	£111.62
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NUMBER NINE		
Revolution 3D 4Mb	Call	
Revolution 3D 8Mb	Call	
STB		
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Nitro 3D OEM 4Mb	£52	£61.10
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WinTV PCI	£65	£76.37
WinTV Radio PCI	£64	£98.70
WinTV Cinema Pro	£194	£227.95
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Win Motion 60	£295	£346.62
miro		
mroMEDIA PCTV PCI	£47	£55.22
Video Director Studio 200	£157	£184.47
mroVIDEO DC10	£175	£205.62
mroVIDEO DC30	£379	£445.32
mroVIDEO DV300	£495	£581.62
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MICROSCAN 4P 15"

15 inch

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

MICROSCAN 5P 17"

17 inch

- 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
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MICROSCAN 6P 19"

19 inch

- 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

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£349 ex vat £410.07 inc vat

ProVista V30	£74	£86.95
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ProVista E33	£84	£98.70
MicroScan 5G 17"	£245	£287.87
MicroScan 5GT	£265	£311.37
MicroScan 6G	£252	£299.62
MicroScan 4P	£109	£128.07
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CM500ET 15" MONITOR

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- Fully featured compact desktop monitor
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- Up to 1152 x 870 resolution
- PC, Mac and Workstation compatible
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- New high contrast tube - superior display
- 0.21mm horizontal mask pitch
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- PC, Mac and Workstation compatible
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- Space saving - same depth as normal 17"
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- Up to 1600 x 1200 resolution
- PC, Mac and Workstation compatible
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CM500 ET15"	£135	£158.62	CM751 ET 19"	£419	£492.32
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Futura L 4031



- 14", 0.28mm Dot Pitch Non glare
- Viewable Image 13.6"
- 1024 x 768 Non Interlaced
- Compatibility: VGA 640 x 480, SVGA 800 x 600 @ 56/60/72/75 Hz, VESA 1024 x 768 @ 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
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<p>SW216SC 21" (20" viewable) screen</p> <ul style="list-style-type: none"> • 30 95kHz FST • Flicker free 1600x1200 Hz (non interlaced) @ 75Hz • Bright screen with on screen display • 0.28mm Dot Pitch with Double Focus Circuitry <p>£599 ex vat £703.82 inc vat</p>	<p>SW77M 17" (15.7" viewable) screen</p> <ul style="list-style-type: none"> • Integrated stereo amplifier with D3ME stereo speakers • Built in sub speaker/subwoofer port • Flicker free up to 1024x768 Hz (non interlaced) @ 85Hz • 0.28mm Dot Pitch <p>£225 ex vat £264.37 inc vat</p>
<p>SW78FT 17" (16" viewable) screen</p> <ul style="list-style-type: none"> • 99% Flat Screen for no distortion • 100% Arcane Stripe Pitch with Double Focus Circuitry • Wide synch support from 640x480 up to 1600x1200 @ 75Hz • Maximum VESA Backs free resolution of 1280x1024 @ 85Hz • Digital controls with on screen display <p>£379 ex vat £445.32 inc vat</p>	<p>SW57i 15" (13.8" viewable) screen</p> <ul style="list-style-type: none"> • Multi synch support from 640x480 up to 1280x1024 Hz • Flicker free up to 1024x768 Hz (non interlaced) @ 75Hz • 0.28mm Dot Pitch • Digital controls with on screen display • Made in the UK <p>£109 ex vat £128.07 inc vat</p>

*TCO '95 on all models except SW57i monitor.

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DiamondPlus 100	£795	£934.12
DiamondPro 1000	£995	£1169.12
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<p>PC Advisor RECOMMENDED</p> <p>Diamond Pro 700</p> <ul style="list-style-type: none"> • 17" Colour monitor • 0.25mm grille pitch • 1600 x 1200 @ 75Hz resolution • On screen menu guides • Meets the latest industry environment and safety standards <p>£395 ex vat £464.12 inc vat</p>	<p>PC Advisor RECOMMENDED</p> <p>Diamond Pro 67TXV</p> <ul style="list-style-type: none"> • 17" Colour monitor • 0.25mm grille pitch • 1280 x 1024 @ 60Hz resolution • On screen menu guides • Meets the latest industry environment and safety standards <p>£279 ex vat £327.82 inc vat</p>
--	--

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- Viewable Screen 20"
- 0.28mm grille pitch
- On screen menu guides
- 1600 x 1200 @ 75Hz resolution
- Meets the latest industry environment and safety standards

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- Viewable Screen 18"
- 0.25mm dot pitch
- 1600 x 1200 @ 75Hz resolution
- Meets the latest industry environment and safety standards

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Diamond Scan 50

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- 0.28mm dot pitch
- 1280 x 1024 @ 60Hz max resolution
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- Recommended resolution 1024 x 768 @85Hz
- Plug & Play, Win 95 compatible
- 3 year On Site warranty

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- 17" Monitor
- Viewable screen 15.9"
- Anti-static coating, Anti-reflective coating
- Max resolution 1600 x 1200 @60Hz
- Recommended resolution 1024 x 768 @85Hz
- Plug & Play, Win 95 compatible
- 3 year On Site warranty



- 19" Monitor
- Viewable screen 18"
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viewpoint 21" Monitor
£599 ex vat £711.15 inc vat

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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.

PHILIPS *Let's make things better.*



- 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

- 17" monitor (viewable size 15.9")
- Up to 1280 x 1024
- Autoclean & Tilt correction
- On Screen display
- Digital Control
- Built in stereo & Microphone
- Black Matrix CRT screen

£244 ex vat
£286.70 inc vat

- 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

£375 ex vat
£440.62 inc vat

- 17" monitor (viewable size 15.9")
- Up to 1280 x 1024
- Autoclean & Tilt correction
- On Screen display
- Digital Control
- Black Matrix CRT screen

£375 ex vat
£440.62 inc vat

- 15" monitor (viewable size 13.8")
- Up to 1024 x 768
- Autoclean
- On Screen display
- Digital Control
- Black Matrix CRT screen

£98 ex vat
£115.15 inc vat

Philips Brilliance 151AX 15.1"	£489	£574.57	Philips Brilliance 201CS 21"	£1125	£1321.81
Philips Brilliance 109 19"	£439	£518.82	Philips Brilliance 201P 21"	£759	£891.82
Philips Brilliance 107 17"	£269	£339.57	Philips Business 201B 21"	£649	£762.57
Philips Brilliance 105 15"	£157	£184.47	Philips Business 104B 14"	£75	£88.12
			Philips Business 104S 14"	£67	£78.72

iiyama

VISIONMASTER MONITORS THE IMAGE OF PERFECTION



- 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
£135 ex vat
£158.62 inc vat



- 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
£269 ex vat
£316.07 inc vat



- 17" DiamondTron
- Up to 1280x1024 @ 90Hz
- On-Screen Display Menu
- Colour Balance Control
- TCO 95 and MPRII compliant

iiyama VM Pro 400
£299 ex vat
£351.32 inc vat



- 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
£375 ex vat
£440.62 inc vat



- 21" DiamondTron
- Up to 1600x1200 @ 85Hz
- On-Screen Display Menu
- Colour Balance Control
- TCO 95 and MPRII compliant

iiyama VM Pro 502
£575 ex vat
£793.12 inc vat



- 36cm (14.1") TFT LCD Monitor
- Maximum resolution 1024x768
- Full Colour
- TCO 95 and MPRII compliant

iiyama ProLite 36
£675 ex vat
£793.12 inc vat

SONY

SONY TRINITRON MONITORS

CPD-100es	£164	£192.70
CPD-100gst	£209	£245.57
CPD-120as	£285	£334.87
CPD-200est	£289	£339.57
CPD-200gst	£315	£370.12
CPD-200pst	£389	£457.07
CPD-220as	£419	£492.32
CPD-400pst	£485	£569.87
CPD-300sf	£699	£821.32
CPD-500pst	£775	£910.62
SON 20SE	£699	£821.32



- 15" Trinitron Monitor
- 0.25mm Grille Pitch
- View area: 283.5 x 212.4mm
- Max res. 1024 x 768 @80Hz
- Customisable controls
- Easy Plug & Play installation
- MPRII radiation control

SONY 100gst
£209 ex vat
£245.57 inc vat



- 20" Trinitron Monitor
- 0.30mm Grille Pitch
- View area: 388 x 292mm
- Max res. 1280 x 1024 @80Hz
- On-Screen Display
- Plug & Play for Win95
- TCO 95 compliance

SONY 300st
£699 ex vat
£821.32 inc vat



- 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
£339.57 inc vat



- 17" Trinitron Monitor
- 0.25mm Grille Pitch
- View area: 328 x 242mm
- Max res. 1280 x 1024 @80Hz
- On-Screen Display
- Plug & Play for Win95
- TCO 95 compliance

SONY 17SEII
£459 ex vat
£539.57 inc vat

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All-in-Wonder™ Pro
The TV, Video & Graphics Multimedia Upgrade

- ▶ Rage Pro Powered 3D Graphics
- ▶ Rage Pro Powered 2D Graphics
- ▶ High Quality Video playback
- ▶ TV Set display
- ▶ Intelligent TV tuner
- ▶ Still and Motion Video capture

All in Wonder Pro PCI 4mb	£49	£45.82
All in Wonder Pro PCI 8mb	£55	£64.62
All in Wonder Pro AGP 4mb	£43	£50.52
All in Wonder Pro AGP 8mb	£59	£69.32

XPERT@Work

- ▶ The fastest performance for greater productivity in Win NT and Win 95
- ▶ Flicker-free images at up to 200Hz refresh rate to eliminate eye strain
- ▶ Up to 8MB of ultra fast SGRAM for high res-true colour acceleration
- ▶ Rock solid stability and worry free compatibility with ATTs Microsoft certified drivers
- ▶ Optimised for the best performance on Pentium II/PRO systems
- ▶ Available in 4MB upgradeable or 8MB memory configurations
- ▶ AGP/PCI Bus available

3Dxpert@Work 4mb	£39	£45.82
3Dxpert@Work 8mb	£55	£64.62
3Dxpert@Work AGP 4mb	£43	£50.52
3Dxpert@Work AGP 8mb	£59	£69.32

XPERT@Play

XPERT@Play sets a new standard for 3D gaming, multimedia and entertainment applications. "Best of Breed" design uses a single card/slot solution to provide high powered, fully featured 3D performance for intense gaming.

3Dxpert@Play 4mb	£57.57
3Dxpert@Play 8mb	£76.37
3Dxpert@Play AGP 4mb	£62.27
3Dxpert@Play AGP 8mb	£81.07

XPERT98

- ▶ A one card solution for competitive performance 3D, 2D and video acceleration, with AGP Chipset
- ▶ Superior 3D quality with bilinear filtering, alpha blending and special effects
- ▶ 3D acceleration enhanced by a triangle setup engine & texture cache
- ▶ The best 8Mb 3D/2D video performance & feature value for mid-range systems

£39 ex vat

RETAIL BOXED VERSIONS

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3Dxpert@Work 8mb	All in Wonder Pro PCI 4mb
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matrox 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
- Fully multimedia upgradeable
- Includes 5 free software titles

8Mb OEM **£75 ex vat**
£88.12 inc vat

Productiva G100

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
- Fully multimedia upgradeable

4Mb OEM **£34 ex vat**
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MATROX MYSTIQUE 220

The Complete Windows, 3D and Video Accelerator

- The best graphics value for home and SOHO
- Ideal for 2D Windows, 3D games, MPEG movies and interactive CD's
- Up to 8Mb of SGRAM memory
- Up to 1600 x 1200 resolution
- 220 MHz RAMDAC
- Includes Disney's Toy Story, Electronic Art's Moto Racer, Kai's Power Goo and more!

4Mb OEM **£39 ex vat**
£45.82 inc vat

Also available: Millennium II for professional

8Mb Mystique G200 AGP OEM	£95	8Mb Productiva G100 AGP
8Mb Mystique G200 AGP retail		4Mb Mystique 220 OEM
4Mb Millennium G200 AGP OEM		4Mb Millennium G200 Business
8Mb Millennium G200 AGP retail		Rainbow Runner TV
4Mb Productiva G100 AGP OEM		Rainbow Runner Studio

DIAMOND MULTIMEDIA EUROPEAN DIVISION

The Fastest 3D available, built around the 3DFX Voodoo 2 Chipset.

- 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	£115 ex vat
£104.57 inc vat	£135.12 inc vat

Monster

High performance 128 Bit graphics processing

- Hardware accelerated 3D functions
- Optimised DirectX and Direct 3D
- Ergonomic operation with high resolutions & refresh rates

DIAMOND V330 AGP	DIAMOND V330 PCI
£39 ex vat	£39 ex vat
£45.82 inc vat	£45.82 inc vat

DIAMOND VIPER V330

Break Your Limits in 3D

- PC98 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 Sound (simultaneous playback and record)

DIAMOND Sonic Impact **£5 ex vat**
£22.32 inc vat

DIAMOND Sonic Impact

Powered by intel i740

- True AGP 2X support inc SideBand Addressing
- MPEG-2 for full screen DVD playback
- Photo-realistic, true colour up to 1280 x 1024
- Direct Memory Execution (DIME) - for a high performance level and unlimited texture size

£44 ex vat
£51.70 inc vat

Stealth 3D 4400 AGP	Monster 3D II Games 8mb
Fire 1000 AGP	Monster 3D II Games 12mb
Monster 3D	Monster 3D II Sport 8mb
Speed Star 3D	Monster 3D II Sport 12mb
Stealth II S220 PCI	Viper 550 PCI TV out
Fireport 40 PCI ultra	Viper 550 AGP
Fireport 40 Dual	Viper 550 AGP TV out

ORCHID A Micronics Company

The newly available Righteous 3D II takes games players to yet another level of three dimensional entertainment. Both 8Mb and 12Mb cards are available.

8Mb	£135 ex vat	(£158.62 inc vat)
12Mb	£175 ex vat	(£205.62 inc vat)

Orchid Righteous 3D
£64 ex vat (£75.20 inc vat)

CREATIVE CREATIVE LABS

3D Blaster Voodoo 2

Creative Labs' latest entry in to the graphics market is available now from Tech direct

8Mb (inc. full games bundle)	£119 ex vat	(£139.82 inc vat)
12Mb	£139 ex vat	(£163.32 inc vat)

Graphics Blaster 4Mb 2D/3D
£55 ex vat (£64.62 inc vat)

3DVision

AGP 2X (133MHz)

- Intel i740 Chipset
- 8Mb SDRAM
- 220MHz RAMDAC
- Complete with drivers for Win 95, Win 98, Win NT
- Supports Direct Memory Execution

£69 ex vat
£81.07 inc vat

ELITEGROUP

VideoLogic

Explosive Acceleration for 3D Games

Dedicated 3D accelerator for arcade-level performance.

Apocalypse 5D Sonic	£69	£81.07
Apocalypse 3DX Value Pack - (with 20 demo games)	£95	£41.12
GrafxStar 600 Pro 2D	£45	£52.87
Apocalypse 3DX Accelerator	£48	£56.40
Apocalypse 5D Accelerator	£55	£64.62
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Compatible Memory

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You don't have to worry about compatibility any more as each memory kit listed in the guide is supplied in quality Panasonic Packaging which contains Installation Manual, Installation Guide, Anti Static Wrist Strap and Life Time Warranty Card. Each kit is also marked with it's own product code for easy identification and finally tamper sealed. Whatever your memory needs either retail or compatible Panasonic are totally committed to become Europe's first choice for memory.

Compatible Memory

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Why Buy Panasonic Tab Packs?

- ▶ Lifetime warranty with Warranty Card included
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- ▶ Installation guide Included
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In the new order of memory manufacturers only the largest will survive. Panasonic is one of the largest electronics companies in the world. Need we say more.

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MEM check 01264 356991

Generic OEM Memory

	8Mb	16Mb	32Mb	64Mb	128Mb
72 Pin Non Parity	£6.90	£13.45	£16.30	Call	Call
	£8.10	£15.80	£19.15		
72 Pin EDO 60ns	£7.00	£8.95	£16.90	£73.95	Call
	£8.22	£10.51	£19.85	£86.89	
72 Pin Parity	£13.10	£14	£29.95	Call	Call
	£15.39	£16.45	£35.19		
168 Pin Sync. Dram	-	£13.45	£19	£49	£94
		£15.80	£22.32	£57.57	£110.45
168 Pin BX Dimm	-	-	£29	£52.75	£106.50
			£34.07	£61.98	£125.13

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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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td Hard Drives & Backup

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Hard Drives

Product	Price	Price
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Quantum PD Drive 650Mb P	£229	£269.07
Quantum PD Drive 650Mb S	£199	£233.82
Quantum DLT 4000 SCSI	£1599	£1879.82
Quantum DLT 7000 SCSI	£3599	£4229.82
Seagate Tapestor 8000J IDE	£153	£179.77
Seagate Tapestor 8000S SCSI	£159	£186.82
Seagate Tapestor 8000S Ext	£225	£264.37
Seagate DAT STD2400N 4GB	£339	£398.32
Seagate DAT STD2800N 8GB	£445	£522.87
SONY SDT-5200 SCSI	Call	
SONY SDT-7000 SCSI	£429	£504.07
SONY SDT-9000 SCSI	£559	£656.82
SONY TSL-7000 Autoloader SCSI	£1159	£1361.82

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 Drive Int OEM	£49.95	£58.69
Zip Drive Ext	£69	£81.07
Zip Drive SCSI	£79.95	£93.94
Zip Zoom Card	£24	£28.20
Zip 100Mb Disk	£6.99	£8.21
Zip Disk 6 Pack	£39	£45.82

The 100Mb ZipPlus Drive

ZipPlus drive is the easiest way and most economical way to expand your hard drive, move your files and backup

- Fast - up to 50 times faster than a floppy drive
- one drive fits all - only one version for SCSI and parallel port interfaces
- Lightweight universal power supply
- Great media software



Zip Plus Ext	£109	£128.07
Zip 10 pack multicoloured with Recordit software	£69	£81.08

WERE ON THE WEB
www.techdirect.co.uk

Ditto 2GB

Ditto 2Gb Int £95 £64.62

- 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:

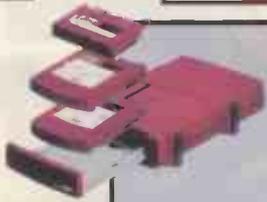
- One Ditto 2Gb tape drive - including usual software etc.
- One large Ditto carry case. FREE!
- Three Ditto 2Gb pieces of media
- One Ditto NT driver. FREE!



Ditto 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 Ext	£115	£135.12
Ditto Max Pro Ext (10Gb)	£155	£182.12
Ditto Max Pro Int (10Gb)	£119	£139.82

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The 1Gb Removable

Jaz has no limits. With 1Gb capacity per disk Jaz is revolutionising storage technology.

- 1Gb per disk, from less than 6p per MB
- 10-12 millisecond access time, faster than most HD
- Available as an External drive for Maximum portability
- Jaz Tools utility software



Internal 1Gb Jaz Cart	£119	£186.82
External 1Gb Jaz Cart	£174	£204.45
Internal 1Gb Jaz Cart	£49	£57.57

The 2Gb Removable

The Super-Fast, Extremely Vast personal storage Drive that gives you a whopping 2Gb per disk

- 2Gb of storage space on each 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	£229	£269.07
Jaz 2Gb Ext	£229	£269.07

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SparQ Your Imagination!

SparQ 1.0

INTERNAL EIDE DRIVE £109 (£128.07 inc vat)

£20 cash back limited offer! (see below)

Single 1.0Gb Cartridge £25 (£29.37 inc vat)

NEW! SparQ 1.0Gb drive... The "Personal Solution" is the latest from SyQuest! - a superb combination of performance and value, it's the ideal choice for small / home offices, business travellers, families, students, web surfers, gamers, presenters, and writers. Gain unlimited capacity at a fraction of the cost of buying an additional computer.

- Backup your system in minutes!
- Store 1,000+ digital photos!
- 12ms access time, 512K buffer!
- Play games 2x faster than a CD!

"Gotta Get a Gig" Summer Promotion.
 £20 mail-in rebate for a SparQ drive and a 3-pack of cartridges
 £30 mail-in rebate for a SyJet drive
 £20 mail-in rebate for every three SyJet cartridges
 £60 mail-in rebate for a SyJet drive and a 3-pack of cartridges
 (Promotion ends 30/09/98)

SparQ 1.0Gb Internal EIDE drive	£109	£128.07	SyJet 1.5Gb EIDE - Int	£184	£216.20
SparQ 1.0Gb External Parallel port	£119	£128.07	EZFlyer 230Mb Parallel Port - Ext	£89	£104.57
SparQ 1.0Gb Cartridge - single	£2	£29.38	EZFlyer 230Mb SCSI - Ext	£89	£104.57
SparQ 1.0Gb Cartridge - 3 pack	£4	£57.57	EZFlyer 230Mb EIDE - Int	£114	£133.95
SparQ 1.0Gb Cartridge - 10 pack	£179	£210.33	SyJet 1.5Gb Cartridge	£49	£57.57
SyJet 1.5Gb Parallel Port - Ext	£189	£222.07	SyJet 1.5Gb Cartridge - 3 pack	£119	£139.82
SyJet 1.5Gb SCSI - Ext	£189	£222.07	EZFlyer 230Mb Cartridge	£14.95	£17.57

MITSUBISHI SUPER DISK 120MB DISK

LS 120

LS 120 £49 ex vat £57.57 inc vat

The New Industry standard is now available from Tech Direct.

Advanced features:

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External version plugs directly in to your parallel port

LS 120 Disk	£9 ex vat	£10.57 inc vat
SUPER DISK 120MB DISK	£99 ex vat	£116.32 inc vat

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 LETS START LEARNING
 THINK & TALK FRENCH
 KITCHEN GOURMET
 DESIGN CENTRE 3D
 TYPING TUTOR PRO

maxell

maxell LS-120 media £9 ex vat £10.57 inc vat

See page 24 for more MAXELL Storage products



Quantum HARD DRIVES
CAPACITY FOR THE EXTRAORDINARY™

FireBall EL - The NEW Super Fast HD!

With a 9.5ms access time and a 512kb buffer the enhanced performance of the new FireBall EL 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 Stratus 3240 EL	2.5Gb	EIDE/Ultra DMA	9.5ms	5400	£68	£79.90
Fireball Stratus 4320 EL	5.1Gb	EIDE/Ultra DMA	9.5ms	5400	£84	£98.70
Fireball Stratus 6480 EL	7.6Gb	EIDE/Ultra DMA	9.5ms	5400	£122	£143.35
Fireball Stratus 8400 EL	10.2Gb	EIDE/Ultra DMA	9.5ms	5400	£155	£182.12

FireBall SE - The Choice for Power Users!

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
Fireball Stratus 3240 SE	3.2Gb	EIDE/Ultra DMA	9.5ms	5400	£74	£86.95
Fireball Stratus 4320 SE	4.3Gb	EIDE/Ultra DMA	9.5ms	5400	£83	£97.52
Fireball Stratus 6480 SE	6.4Gb	EIDE/Ultra DMA	9.5ms	5400	£105	£123.37
Fireball Stratus 8400 SE	8.4Gb	EIDE/Ultra DMA	9.5ms	5400	£140	£163.50

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	£379	£445.32
Atlas III	9.1Gb	UltraWide SCSI	8ms	7200	£379	£445.32
Atlas III	18.2Gb	SCAUSCSI	8ms	7200	£639	£770.82
Atlas III	18.2Gb	UltraWide SCSI	8ms	7200	£639	£770.82

Viking - For Maximum Storage Potential!

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
Viking II	4.5Gb	SCAUSCSI II	7.5ms	7200	£184	£216.20
Viking II	4.5Gb	UESCSI	7.5ms	7200	£184	£216.20
Viking II	9.1Gb	SCAUSCSI II	7.5ms	7200	£315	£370.12
Viking II	9.1Gb	UltraWide SCSI	7.5ms	7200	£315	£370.12

Bigfoot T-REX - For the personal computer user!

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
Bigfoot TX	4.0Gb	EIDE/Ultra DMA 33	12ms	4000	£73	£85.77
Bigfoot TX	6.0Gb	EIDE/Ultra DMA 33	12ms	4000	£86	£101.05
Bigfoot TX	8.0Gb	EIDE/Ultra DMA 33	12ms	4000	£114	£133.95
Bigfoot TX	12Gb	EIDE/Ultra DMA 33	12ms	4000	£149	£175.07

IBM Deskstar

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
00K0355	6.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	£108	£126.90
00K0394	8.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	£135	£158.62

IBM Titan 14GXP

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
03L5261	10.1Gb	EIDE/Ultra DMA/33	9.5ms	7200	£189	£222.07
00K4071	14.4Gb	EIDE/Ultra DMA/33	9.5ms	7200	£309	£363.07

IBM Titan 16GP

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
00K4115	6.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	£108	£126.90
00K4101	8.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	£129	£151.57
00K4091	10.1Gb	EIDE/Ultra DMA/33	9.5ms	5400	£159	£186.82
00K4083	12.9Gb	EIDE/Ultra DMA/33	9.5ms	5400	£219	£257.32
00K4073	16.8Gb	EIDE/Ultra DMA/33	9.5ms	5400	£264	£310.20

HP HEWLETT PACKARD

Expanding Possibilities



Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
HP COLORADO T3000I Internal 3.2GB	3.2Gb	EIDE/Ultra DMA	9.5ms	5400	£89	£104.57
T4000S Internal 8GB	8Gb	EIDE/Ultra DMA	9.5ms	5400	£219	£271.32
T4000ES External 8GB	8Gb	EIDE/Ultra DMA	9.5ms	5400	£278	£330.65

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
HP SURESTORE DAT PRODUCTS						
HP SURESTORE T4i	4.3Gb	EIDE/Ultra DMA	9.5ms	5400	£199	£233.82
HP SURESTORE T4e	4.3Gb	EIDE/Ultra DMA	9.5ms	5400	£249	£292.57
HP SURESTORE DAT 2000i	2.0Gb	EIDE/Ultra DMA	9.5ms	5400	£279	£327.82
HP SURESTORE DAT 2000e	2.0Gb	EIDE/Ultra DMA	9.5ms	5400	£359	£421.82
HP SURESTORE DAT 5000i	5.0Gb	EIDE/Ultra DMA	9.5ms	5400	£309	£363.07
HP SURESTORE DAT 5000e	5.0Gb	EIDE/Ultra DMA	9.5ms	5400	£389	£457.07
HP SURESTORE DAT 8i	8.0Gb	EIDE/Ultra DMA	9.5ms	5400	£479	£562.82
HP SURESTORE DAT 8E	8.0Gb	EIDE/Ultra DMA	9.5ms	5400	£549	£645.07
HP SURESTORE DAT 24i	24.0Gb	EIDE/Ultra DMA	9.5ms	5400	£669	£786.07
HP SURESTORE DAT 24e	24.0Gb	EIDE/Ultra DMA	9.5ms	5400	£739	£868.32
HP SURESTORE DLT40e	40.0Gb	UltraWide SCSI	9.5ms	5400	£1999	£2348.82
HP SURESTORE DLT40i	40.0Gb	UltraWide SCSI	9.5ms	5400	£1849	£2172.57

Seagate HARD DRIVES

EIDE Hard Drives

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
Medalist ST32122A	2.1Gb	EIDE/Ultra ATA3	12.5ms	4500	£64	£75.20
Medalist ST32520A	2.5Gb	EIDE/Ultra ATA3	13ms	5400	£67	£78.72
Medalist ST33221A	3.2Gb	EIDE/Ultra ATA3	10ms	5400	£75	£88.12
Medalist ST34321A	4.3Gb	EIDE/Ultra ATA3	10.5ms	5400	£79	£92.82
Medalist ST36531A	6.5Gb	EIDE/Ultra ATA3	10.5ms	5400	£98	£115.15
Medalist ST36841A	8.6Gb	EIDE/Ultra ATA3	10.5ms	5400	£119	£139.82
Medalist ST39140A	9.1Gb	EIDE/Ultra ATA3	9.5ms	7200	£155	£182.12

SCSI Hard Drives

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
MedalistPro ST34520N	4.5Gb	UltraSCSI	9.5ms	7200	£185	£381.87
MedalistPro ST36530N	6.5Gb	UltraSCSI	9.5ms	7200	£249	£381.87
MedalistPro ST36530W	6.5Gb	UltraSCSI II	9.5ms	7200	£249	£381.87
MedalistPro ST36530WC	6.5Gb	UltraSCSI II	9.5ms	7200	£249	£381.87
MedalistPro ST39140N	9.1Gb	UltraSCSI	9.5ms	7200	£315	£381.87
MedalistPro ST39140W	9.1Gb	UltraSCSI	9.5ms	7200	£315	£381.87
MedalistPro ST39140WC	9.1Gb	SCASCSI II	9.5ms	7200	£315	£381.87
Barracuda ST34573N	4.5Gb	UltraSCSI	9ms	7200	£309	£363.07
Barracuda ST39173W	9.1Gb	UltraWideSCSI	9ms	7200	£375	£440.62

FUJITSU

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
MPB3021	2.1Gb	Ultra DMA	10ms	5400	£69	£81.07
MPB3032	3.2Gb	Ultra DMA	10ms	5400	£72	£84.60
MPB3043	4.3Gb	Ultra DMA	10ms	5400	£79	£92.82
MPB3064	6.4Gb	Ultra DMA	10ms	5400	£99	£116.32
MPC3084	8.4Gb	Ultra DMA	10ms	5400	£129	£151.57
MPC3102	10.2Gb	Ultra DMA	10ms	5400	£155	£182.12

WESTERN DIGITAL

Models	Capacity	Interface	Access time	Speed	ex vat	inc vat
WDAC22500	2.5Gb	EIDE/Ultra DMA/33	10ms	5400	£79	£92.82
WDAC33200	3.2Gb	EIDE/Ultra DMA/33	10ms	5400	£84	£98.70
WDAC34300	4.3Gb	EIDE/Ultra DMA/33	10ms	5400	£88	£103.40
WDAC35000	5.1Gb	EIDE/Ultra DMA/33	10ms	5400	£99	£116.32
WDAC36400	6.4Gb	EIDE/Ultra DMA/33	10ms	5400	£109	£128.07
	8.4Gb	EIDE/Ultra DMA/33	10ms	5400	£139	£163.32
	10Gb	EIDE/Ultra DMA/33	10ms	5400	£169	£198.57

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DiamondMax 2880 Series ULTRA DMA33

Capacity	Interface	Access time	Speed	ex vat	inc vat
2.8Gb	ULTRA DMA	9ms	5200	£84.60	£97.52
4.3Gb	ULTRA DMA	9ms	5200	£97.52	£108.10
5.7Gb	ULTRA DMA	9ms	5200	£108.10	£128.07
8.4Gb	ULTRA DMA	9ms	5200	£143.35	£170.45
11.5Gb	ULTRA DMA	9ms	5200	£204.45	£244.45

DiamondMax 3400 Series ULTRA DMA33

Capacity	Interface	Access time	Speed	ex vat	inc vat
3.4Gb	ULTRA DMA	9ms	5400	£76	£89.30
6.8Gb	ULTRA DMA	9ms	5400	£97	£113.97
10.2Gb	ULTRA DMA	9ms	5400	£134	£160.95
13.6Gb	ULTRA DMA	9ms	5400	£185	£217.37

DiamondMax Pros 2500 Series ULTRA DMA33

Capacity	Interface	Access time	Speed	ex vat	inc vat
7.5Gb	ULTRA DMA	9ms	7200	£189	£216.32
10.0Gb	ULTRA DMA	9ms	7200	£275	£310.32

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EZCD x32	£134	£157.45
EZCD Sound x24	£169	£198.57
EZCD Sound x32	£179	£210.32
EZCD Card x24	£125	£146.87
EZCD Card x32	£154	£180.95
EZCD Plus x10	£144	£169.20
EZCD Plus x20	£165	£193.87
CREATIVE		
CR-585B	£27	£31.72
Blaster 24x retail	£35	£41.12
Blaster 32x retail	£36	£42.30
Discovery 24x kit	£79	£92.82
Blaster DVD	£79	£92.82
CD-PVD Encore		
DXR2	£149	£175.07
MITSUMI		
FX-320 retail	£34	£39.95
FX-320 OEM	£29	£34.07
Panasonic		
CR-587 24x	£32	£37.60
CR-588 32x	£35	£41.12
PHILIPS		
PCA 32x	£30	£35.25
PCA 36x	£38	£44.65
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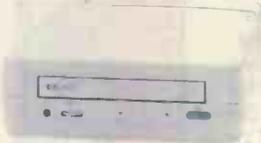
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Expertise td

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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.

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FAMILY TREE
3D WORLD ATLAS
SCIENTIFIC PLANTARIUM
COMPTONS BATTLES OF THE WORLD

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RALLY CHALLENGE
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PINBALL MANIA
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ENEMIES FROM SPACE
TRUMP CASTLE
STRIKE BASE

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BODYWORKS 6.0
OXFORD INTERACTIVE ENCYCLOPEDIA
LETS START LEARNING
THINK & TALK FRENCH
KITCHEN GOURMET
DESIGN CENTRE 3D
TYPING TUTOR PRO



DYNATEK
Experts In data storage



The DynaTek Digital Audio Tape drive is an excellent complement to an existing storage solution and offers total peace of mind for minimal cost. The DynaTek DAT drives store up to 24GB of data on one 4mm tape cartridge.

Internal DAT4000 2-8GB DAT Drive	£299	£351.32
External DAT4000 2-8GB DAT Drive	£369	£433.57
Internal DAT8000 4-16GB DAT Drive	£489	£574.57
External DAT8000 4-16GB DAT Drive	£529	£621.57
Internal DAT12000 12-24GB DAT Drive	£679	£797.82
External DAT12000 12-24GB DAT Drive	£719	£844.82



The DynaTek CD-RW offers media rewritability, CD-R and CD-ROM capabilities combined into one product. CD-ReWritable discs allow you to overwrite data many times using standard CD formats, unlike write-once CD-R media.

4x 12x SCSI Internal CD Writer	£259	£304.32
4x 12x SCSI External CD Writer	£299	£351.32
4x 2x 6x SCSI Internal CD ReWriter	£279	£327.82
4x 2x 6x SCSI External CD ReWriter	£299	£351.32



The DynaTek CDM is the ideal solution for multimedia producers or anyone interested in producing their own CD ROM titles. The ability to master your own CD-ROM's is now available and very affordable.

CDM3500 CD Mastering Unit	£999	£1173.82
CDM3004 4x 12x Writer with 4GB HD	£549	£645.07
CDM3009 4x 12x Writer with 9GB HD	£899	£1056.32

In a period of less than 5 years the Traxdata Group of Companies has grown into an Internationally recognised and respected digital optical company. The company is now a market leader in the field of CD-R and CD-RW media, with the brand now established as the largest volume seller in Europe.

TRAXDATA
CDR4120 PRO Series

4x WRITE 12x READ
4 SPEED 12 SPEED RECORD PLAYBACK

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Models for Internal & External SCSI Connection

CDRW 2260 EL+ • Int Power & SCSI Cables fixing brackets/ screws • Label Design templates • Win on CD V3.5 2 x 2 x 6 Internal IDE £195 ex vat £289.12 inc vat	CDRW 4260 EL Pro 4 x 2 x 6 SCSI Internal £269 ex vat £316.07 inc vat	CDEW 4260 EL Pro 4 x 2 x 6 SCSI External £299 ex vat £351.32 inc vat
CDEW 2260 EL+ • Int Power & SCSI Cables fixing brackets/ screws • Label Design templates • Win on CD V3.5 2 x 2 x 6 External IDE £269 ex vat £316.07 inc vat	CDR 4120 EL Pro 4 x 12 SCSI Internal £299 ex vat £380.82 inc vat	CDE 4120 EL Pro 4 x 12 SCSI External £269 ex vat £316.07 inc vat

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maxell
Creator of Key Devices for the Multimedia Age

PC Praxis
The quality of this media is really amazing. This, and how one high end user is a problem for the MAXELL brand (CD). The surface is also free of all the media dust. It is now difficult to take away the gold layer using brass wire - 96 Points

CD-R 74XL
A CD-R which is fully compatible with 1x and 6x writing speeds.
• Manufacturing under the toughest clean-room conditions contributes to extremely high reliability
• May even be written with low-performance lasers
• Complies with Orange Book Part II Specifications

£0.8 ex vat £1.04 inc vat

DCD-R 74PR (W) White Surface
• Printable CD-R with white disc surface (Identical quality as CD-R 74XL)
• Suited to Ink-jet and thermal printing
• CD-R with your own personal appearance.

£1.46 inc vat

CD-RW 74
CD-RW 74 (compact disc read-write) - 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. It is suitable as a master CD, as well as for an abundance of other applications in everyday data storage

£9.97 inc vat

DVD-R 39
A one-sided write-once recording medium with a storage capacity of 3.95GB
• Complies with the specifications for DVD recordable discs in all areas
• The high storage capacity of 3.95GB corresponds to six times the storage of a CD-R
• The organic dye permits short-wave recording, and thus a high level of reliability with write and read access.
• Ideally suited to applications for the creation of master discs for the production of DVD-ROM and DVD-video software.

£8.95 ex vat £22.26 inc vat

DVD-RAM 52F
• "Wobbled Land & Groove" recording method is used to increase the bit density and allow a capacity of 5.2GB per disc
• To improve the reliability with the over-writing, MAXELL developed a recording layer with optimum thermal conductivity
• This disc is protected by a hardened coating so as to achieve the longest possible life in everyday use.

£34.94 ex vat £41.06 inc vat

PHILIPS CD-R/CD-RW Media

CD-R Media

PHILIPS
£0.89 ex vat
£1.04 inc vat

CD-RW Media

PHILIPS
£8.99 ex vat
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Kodak digital science

CD-RW Media

Kodak CD-RW
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- INFOGUARD Protection Layer, exceptional durability and reliability
- Compatible with all leading writers/readers
- Allows multiple writing sessions
- Data life of over 100 years
- Lifetime Warranty

CD-R Media

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- Data life of over 100 years
- Reliable at all recording speeds
- Allows multiple writing sessions
- Lifetime Warranty

Kodak CD-R
£0.99 ex vat
£1.16 inc vat

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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

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- Plays all DVD-ROM Discs including MPEG2 discs with MPEG2 decoder card
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- 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

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

£34 ex vat £39.95 inc vat

24X MAX EXTERNAL CD-ROM Drive

- Operates through PCMCIA attached
- E-IDE/ATAPI Interface
- Fast 130ms Average Access Time
- Max 1950Kbytes/sec Sustained Transfer rate
- MPC III Compliant

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CREATIVE CREATIVE LABS



Creative Encore DVD Kit (inc DXR2 Card)

£149 ex vat
£175.07 inc vat

- Reads both the new DVD's and all old CD's
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- Back-panel connectors for RCA jack S/PDIF out; VGA output, VGA input, S-Video and composite video output
- TV output includes support for: NTSC & PAL



(Creative Encore DVD Dxr2 Screen)



(Creative Encore DVD Dxr2 Box)

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Providing value for money to our customers is of great importance to us. If our price isn't right, please call us - We want your business.

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Panasonic

LF-D101N

- SCSI-2 DVD-RAM drive
- Reads & writes DVD-RAM discs which can be played back on a DVD-ROM drive
- Reads DVD-ROM, DVD-R, DVD-Video, CD-ROM (XA), Photo CD, Video CD, CD Extra, CD-R/RW
- 2Mb buffer virtually eliminates buffer under-run
- OEM packaged



Panasonic
£299 ex vat
£351.32 inc vat

LK-RV8581T

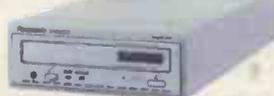
- ATAPI IDE DVD-ROM drive
- 5.25" half height form factor
- Motorized tray loading auto eject
- Reads DVD-ROM & CD-ROM
- Also reads the new DVD-AV (MPEG2-encoded) standard discs
- OEM packaged



Panasonic
£89 ex vat
£104.57 inc vat

CW-7502-B 4x8 CD recorder

- 8X speed reading & 4X speed writing
- 5.25" half height form factor
- Motorized tray loading auto eject
- SCSI-2 ATAPI Interface
- Major CD-ROM formats are supported
- Includes SCSI cable & Adaptec CD recording software
- OEM packaged



Panasonic
£169 ex vat
£198.57 inc vat

• IDE model CW-7582-B £169 +vat

PHILIPS

DVD ROM

DRD 5200



Now that the dream of DVD has come true, Philips adds to your enjoyment of home entertainment with the DRD 5200, a powerful DVD-ROM kit which turns your PC into a desktop multimedia station. This second generation upgrade kit lets you play games, movies, music, learning programmes - you name it - on any PC using Windows 95. With outstanding audio and video quality and from both DVD and CD

- Powerful desktop entertainment with outstanding playback quality
- Includes two free games and music video on DVD-ROM
- High-speed data transfer: DVD at 2x speed and CD at 24x speed
- Maximum compatibility: CD, CD-ROM, CD-R, CD-RW, DVD-ROM, DVD Video
- Large DVD-disc data capacity: from 4.7GB up to 17GB
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£139 ex vat
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PSA Aladdin 5 100	£67	£78.72
P2E-B 440EX	£68	£79.90
P2E-M 440EX	£72	£84.60
P2E-VM 440EX	£127	£149.22
P2L97 440LX	£75	£88.12
P2L97-S 440LX	£133	£156.27
P2L97-DS 440LX	£214	£251.45
P2L97-A 440LX	£124	£145.70
P2B 440BX	£104	£122.20
P2B-S 440BX	£193	£226.77
P2B-DS Dual 440BX	£283	£332.52
P2B-LS Dual 440BX	£224	£263.20

GIGABYTE

GASAX 100MHz	£56	£65.80
GABEX 440EX	£76	£89.30
GABEM 440EX	£70	£82.25
GABEMM 440EX	£108	£126.90
GAB6BLX 440LX	£71	£83.42
GAB6BX 440BX	£93	£109.27
GABSA 440BX	£103	£121.02
GABXS 440BX	£170	£199.75
GABXDS 440BX	£205	£240.87

intel

Atlanta AL440LX	£79	£92.82
SE440BX	£92	£108.10
SE440 with sound	£104	£122.20
MU440EX	£88	£103.40

Smicro

PSMMA98 430TX	£67	£78.72
PSMMS98 430TX	£67	£78.72
PSLA 440LX	£70	£82.25
PSOLE Dual 440LX	£195	£229.12
PSDLS Dual		
440LX SCSI	£280	£329.00
PSBSA 440BX	£89	£104.57
PSBSB 440BX SCSI	£199	£233.82
PSDBE Dual 440BX	£186	£218.55
PSDBS Dual		
440BX SCSI	£292	£343.10

Keyboards

CHERRY

105 Key Win 95		
Soft Touch	£16	£18.80
105 Key W 95		
PS2 SoftTouch	£16	£18.80
105 Key W in 95		
Non-Click	£21	£24.67
105 Key W 95		
PS2 Non-Click	£21	£24.67
105 Key W 95 Click	£33	£38.77

Genius

105 Key Win 95	£9.95	£11.69
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Microsoft

Natural Win 95	£28	£32.90
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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
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Logitech

Pilot (Serial or PS2)	£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	£26.65
IntelliMouse	£24	£28.20
IntelliPoint Trackball	£31	£36.42

MITSUMI

2button Serial	£5	£5.87
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Joysticks

PRODUCTS

Flight Stick	£26	£30.55
Flight Stick Pro	£43	£50.52
F-16 Flight Stick	£34	£39.95
F-16 Combat Stick	£54	£63.45
Virtual Pilot Flight	£55	£64.62
Throttle	£55	£64.92
Pro Pedals	£65	£78.37

Genius

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Microsoft

Sidewinder	£19	£22.33
Sidewinder GamePad	£23	£27.03
Sidewinder 3D Pro	£35	£41.13
Sidewinder Precision Pro	£35	£41.13
Sidewinder Force Feed Pro	£74	£91.65

CREATIVE **DIAMOND** **Videologic**
CREATIVE LABS
See page 18 for the above graphics cards.

CREATIVE **CREATIVE LABS**
Just £149 ex vat

- Reads both the new DVD's and all old CD's
- Incorporates advanced DynamicXtended Resolution (Dxr2) picture enhancement technology for high definition video and smoother full-screen video images
- Back-panel connectors for RCA jack S/PDIF out; VGA output, VGA input, S-Video and composite video output
- TV output includes support for: NTSC & PAL

	ex vat	inc vat
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AWE 64 12Mb Memory Upgrade	£75	£88.13
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SB16 NON IDE	£27	£31.72
Blaster CD 24X	£34	£39.95
Blaster DVD	£79	£92.82
Discovery 24X Kit	£79	£92.82
3D Blaster Voodoo 2 8Mb	£119	£139.82
3D Blaster Voodoo 2 12Mb	£139	£163.32
Creative 'Encore' DVD Kit (inc DXR2 Card)	£149	£175.08
TV Coder External	£99	£116.32
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VideoBlaster PCI	£89	£104.58
VideoBlaster RT300	£195	£229.12

AMD **K6** **MMX™ ENHANCED PROCESSOR**
AMD introduce their new **K6-300MHz CPU** based on advanced 0.25 micron process technology for maximum performance!

AMD K6-266MHz: £49 ex vat £57.57 inc vat	AMD K6-300MHz: £64 ex vat £75.20 inc vat
NEW!! AMD K6-2 300MHz: £74 ex vat £86.95 inc vat	NEW!! AMD K6-2 333MHz: £95 ex vat £111.62 inc vat

OverDrive Processors with MMX technology

P75 / 90 / 120 / 150 To P180MMX!!
P100 / 133 / 166 To P200MMX!!

- Support for socket 5 and 7
- Universal voltage (3.52v & 3.3v)
- Microsoft endorsed processor
- 64K write-back cache
- Simple installation process
- AMI, AWARD, PHOENIX and SYSTEMSOFT BIOS compatible
- Allows user to run MMX software

P180MMX £85 ex vat £99.87 inc vat	P200MMX £95 ex vat £111.62 inc vat
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NOVAMAX MMX-200

intel **Intel CPU's**

NEW!!

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Celeron A 300MHz	£104	£122.20
Celeron A 333MHz	£134	£157.45
Pentium II 333MHz	£159	£186.82
Pentium II 350MHz	£209	£245.57
Pentium II 400MHz	£329	£386.57
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Midi Tower CASE	£35	£41.13
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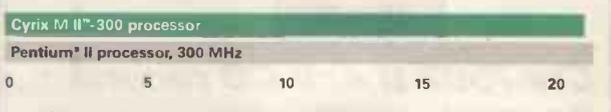
Cyrix MII **PROCESSOR**
The M II processor is a high performance CPU offering advanced processing on Windows 95 and other operating systems. The M II processor is compatible with MMX technology to run the latest MMX games and multimedia software. With its enhanced memory management unit, a 64-KByte internal cache, and other advanced architectural features, the M II processor achieves high performance and offers better value than competitive processors.

- MMX enhanced technology for multimedia power
- Software compatibility - runs Windows 95, Windows 98, Windows NT and all your software
- 64-KByte internal cache to boost processing performance
- Proven Cyrix quality and value

MII 333 £109 ex vat £128.07 inc vat	
MII 300 £55 ex vat £64.62 inc vat	

PII Performance Unbelievable Value

Ziff-Davis* Winstone* 98 for Windows* 95



Source: Cyrix Corporation. Configuration for M II™-300 processor-based system: ASUS SP97-3V motherboard; 32MB RAM, 512K RAM cache, 3.2GB hard disk with ULTRA DMA IDE controller, FAT 32 file system, and no hardware disk cache; Diamond Viper V330 (Turbo) Graphics adapter with 4MB SDRAM, VP0025p DRV version 4.10.01.0015 driver, 1024 x 768 pixels with 16 million colors, refresh at 75Hz.

Configuration for the 300 MHz Pentium® II processor-based system: ASUS P2L97 motherboard, 32MB RAM, 512K RAM cache, 3.2GB hard disk with ULTRA DMA IDE controller, FAT 32 file system, and no hardware disk cache; Diamond Viper V330 (Turbo) Graphics adapter with 4MB SDRAM, VP0025p DRV version 4.10.01.0015 driver, 1024 x 768 pixels with 16 million colors, refresh at 75Hz.

Megahertz-equivalent performance level. Based upon industry-standard benchmark comparisons to the Pentium® II processor when tested in equivalently configured computer systems. For further information on the performance of Cyrix processors, please visit the Cyrix Web site.

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

adaptec AHA-2920
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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

adaptec AHA-2940U
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adaptec AHA-2940UW
£159 ex vat **£186.82** inc vat

Other SCSI adapters

AVA-1505 kit ISA	£31	AHA-2910 kit PCI	£62	£72.85
AHA-1542CP PnP bare ISA	£109	AHA-3940U kit PCI	£239	£280.82
AHA-1542CP PnP ISA	£149	AHA-3940UW kit PCI	£279	£327.82
AVA-2825 kit VLB	£74	AAA-131 Ultra SCSI Array	£268	£314.90
AHA-2742 kit EISA	£209	AAA-133 Ultra Wide RAID kit	£265	£311.37
AHA-2742W kit EISA	£229	Adaptec SlimSCSI 1480 kit	£119	£139.82

QDI fantastic value bundle

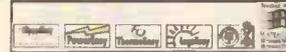
Intel Pentium II 400MHz Processor & award-winning QDI Brilliant I motherboard.



£89 ex vat
£104.57 inc vat



Brilliant I Motherboard see below for full spec.



£299 ex vat
£351.32 inc vat



Offer Price: £375 ex vat
£440.62 inc vat

Formula 1 performance

New Intel 440BX Chipset



- P6BX-A+ Pentium II 133MHz Bus
 - Intel 440BX Chipset
 - 233-450MHz Pentium II
 - Memory: 3 x DIMM (PC-100 spec)
 - AGP Slot
 - 3 x ISA, 4 x PCI Slots
 - ATX Form factor
- £75** ex vat
£88.12 inc vat

- Intel i740 8Mb SDRAM
 - AGP Card
- £69** ex vat
£81.07 inc vat

- P5SD-B+ Super Socket 7 112MHz Bus
 - All CPU's 100-333MHz & Upwards
 - 512KB PBS Cache
 - AGP Slot
 - Memory: 2 x DIMM 4x SIMM
 - 2 x ISA, 4 x PCI Slots
 - Baby-AT Form factor
- £59** ex vat
£69.32 inc vat



ABIT

AX5 Motherboard
 TX5 Pentium MMX

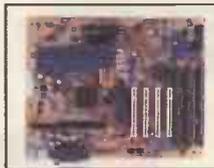
£38 ex vat **£44.65** inc vat
£44 ex vat **£51.70** inc vat



BX 6 Motherboard

- Jumperless Pentium II 440BX chipset motherboard
- Supports 66MHz and 100MHz Bus speeds
- 4X DIMM sockets, 4X PCI slots, 3X ISA slots
- Supports Ultra DMA/33 & AGP
- ATX form factor

£79 ex vat **£92.82** inc vat



LM 6 Motherboard

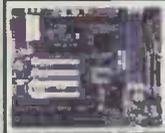
- Jumperless Pentium II 440LX chipset motherboard
- Supports PII 233-333MHz & Celeron II 266-300MHz
- 4X DIMM sockets, 5X PCI, 2X ISA, 1X AGP slots
- Supports Ultra DMA/33 & Wake On LAN
- 512Mb max onboard memory
- ATX form factor

£64 ex vat **£75.20** inc

MICRONICS

TWISTER LX

- Supports Intel Pentium II 233-333 MHz
- Intel 440LX chipset
- Award BIOS
- Supports Ultra DMA33
- Supports AGP
- 3 x 3.3v Unbuffered 64-bit DIMMS (max 768Mb EDO, 384Mb SDRAM)
- Supports EDO and SDRAM simultaneously
- 4 PCI slots (1 is a shared PCI/ISA), 1 AGP slot
- Supports USB
- Baby AT form factor (AT keyboard, PS/2 mouse)



£74 ex vat **£86.95** inc vat

TWISTER AT
£64 ex vat **£64.62** inc vat

TWISTER ATX
£65 ex vat **£76.37** inc vat

REDSTONE

- Intel PII 233-333MHz (66MHz FSB) 350-400MHz (100MHz FSB)
- Intel 440BX AGP chipset
- Supports 66MHz and 100MHz FSB
- Phoenix 4.06 BIOS
- Optimised for PC100 compliant SDRAM
- 3 x 3.3v DIMMS (max 768Mb PC100 SDRAM)
- 4 PCI slots, 2 ISA slots, 1 AGP slot
- Wake-on-LAN
- Soundblaster 16 compatible
- Mini ATX form factor (PS/2 keyboard and mouse)



£99 ex vat **£116.32** inc vat

With Sound
£118.00 inc vat

£128.07 inc vat

HELIOS

- Dual Intel PII 233-333MHz (66MHz FSB) 350-400MHz (100MHz FSB)
- Intel 440BX AGP chipset
- Supports 66MHz and 100MHz FSB
- Phoenix 4.06 BIOS
- 4 x 3.3v Unbuffered DIMMS (max 1Gb EDO/SDRAM)
- 5 PCI slots, 1 ISA slot, 1 AGP slot
- Wake-on-LAN
- Soundblaster 16 compatible
- ATX form factor (PS/2 keyboard and mouse)



£145 ex vat **£170.37** inc vat

With Sound
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Committed to the highest level of quality, reliability and compatibility.

QDI



Brilliant I Motherboard

- Intel PII processor up to 450MHz
- 1x AGP, 4x PCI, 3x ISA slots
- Supports IrDA, USB, ACPI
- Intelligent monitoring system for system voltage, temperature, chassis intrusion and fan speed (optional)
- DMI compliance and built-in NCR 53C810 BIOS support
- SpeedEasy for jumperless CPU upgrade or jumper emulation mode
- Supports Win 95/98 software Power-Down



QDI Brilliant I
£89 ex vat **£104.57** inc vat

Brilliant IV Motherboard

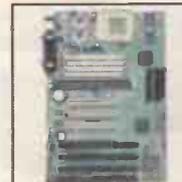
- Dual PII processor up to 450MHz
- AGP, onboard Adaptec SCSI, onboard Intel LAN
- Supports IrDA, USB, ACPI
- Intelligent monitoring system for system voltage, temperature, chassis intrusion and fan speed (optional)
- DMI compliance and built-in NCR 53C810 BIOS support
- Supports Win 95/98 software Power-Down



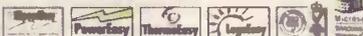
QDI Brilliant IV
£339.57 inc vat

Titanium II Motherboard

- Supports Intel Pentium/Pentium MMX, AMD K5/K6 and Cyrix processors up to 233MHz
- 2X DIMM sockets, 4X SIMM sockets
- Supports IrDA, USB, ACPI
- Intelligent monitoring system for system voltage, temperature, chassis intrusion and fan speed (optional)
- 4X PCI slots 4X ISA slots
- SpeedEasy for jumperless CPU upgrade or jumper emulation mode
- Supports Win 95 software Power-Down
- ATX form factor



QDI Titanium II
£55 ex vat **£64.62** inc vat



- P61440BX Brilliant I (PII)
- P61440BX/DP Brilliant IV (Dual PII)
- P61440LX Legend V (PII)
- P61440EX Excellent I (Celeron)
- P51430TX/ATXB Titanium IIB (PMMX)

£89 ex vat **£104.57** inc vat
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£67 ex vat **£81.07** inc vat
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Network Cards		ex vat	inc vat
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3C-509B Combo ISA bare card	£35	£41.12	
3C-900TPO RJ45 PCI bare card	£38	£44.65	
3C-900 Combo PCI bare card	£59	£69.32	
3C-905 10/100 PCI bare card	£44	£51.70	
3C-509B RJ45 ISA	£32	£37.60	
3C-509B Combo ISA	£71	£83.42	
3C-905B RJ45 PCI	£46	£54.05	
3C-900 Combo PCI	£84	£75.20	
3C-905 10/100 PCI	£53	£62.27	
3C-575TX 10/100 PCMCIA cardBus	£88	£103.40	
3C-589 RJ45 PCMCIA	£75	£88.12	
3C-589 Combo PCMCIA	£99	£116.32	
3C-592 Combo EISA	£135	£158.62	
3C-597TX 10/100 EISA	£159	£186.82	
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	£15	£17.62	
DE-530CT Combo DFE-500TX 100M	£29	£22.32	
DE-660CT Combo PCMCIA	£39	£45.82	
DE-620CT Combo Parallel	£58	£79.90	
intel			
Ether Express Pro 10+ Combo	£64	£75.20	
Ether Express Pro 10+ Combo Flash	£58	£68.15	
Ether Express Pro 10+ Combo PCI	£53	£62.27	
Ether Express Pro 100 ISA	£98	£115.15	
Ether Express Pro 100 PCI	£45	£57.87	
Ether Express Pro 100 EISA	£88	£103.40	

3Com

3C-509B RJ45 ISA OEM	£29	£34.07
3C-509B Combo ISA OEM	£35	£41.12
3C-509B Combo ISA Retail	£71	£83.42
3C-905 10/100 PCI OEM	£44	£51.70
3C-905 10/100 PCI Retail	£53	£62.27
3C-575TX 10/100 PCMCIA	£88	£103.40

OFFICE CONNECT.

Office Connect

3C16700 8TPO 8 port	£45	£52.87
3C16722 8TP100 8 port 100TX	£209	£245.57

SuperStack II

3C16592 Dual Speed 10/100 12 port	£699	£821.32
3C16593 Dual Speed 10/100 24 port	£1099	£1291.32

APC

SMART-UPS

APC's Smart-UPS are the perfect uninterruptible power supply (UPS) for file servers, minicomputers, UNIX CPUs, internet hubs, telecommunications systems and other mission critical applications. If downtime has immediate effects on your business, you need an APC Smart-UPS. Protect your data, protect your hardware, increase your productivity with APC.

SmartUPS 450VA		SmartUPS 2200VA	£537	£630.97
SmartUPS 700VA		SmartUPS 3000VA	£897	£1053.97
SmartUPS 1000VA		SmartUPS 2200VAER	£817	£959.97

APC also offer another range of UPS's which Tech direct are able to offer at exceptionally competitive prices. Please call us for any technical information on the BackUPS range shown below.

BackUPS 300 MI	£53	B/UPS Pro 420PnP	£105	£123.77
BackUPS 500 MI	£77	B/UPS Pro 650PnP	£153	£179.77
BackUPS 650 MI	£123	B/UPS Pro 1000i	£243	£285.52
B/UPS Pro280PnP	£77	B/UPS Pro 1400i	£307	£360.72

Genius

Fast Ethernet card for just £19 + vat

10/100Mbps Fast ETHERNET CARD		
GF100TXR 10/100Mbps PCI	£19	£22.32
100Mbps Fast ETHERNET HUBS		
GF4080 desktop 8pt with uplink	£139	£163.32
GF4080R 19" rack mount 8pt with uplink	£239	£280.82
GF4120R 19" rack mount 12pt with uplink	£389	£457.07
Switching HUBS		
GS2080 10pt switching HUB with 8x10BaseT & 2x100 BaseTX ports inc 1 uplink port	£349	£410.07
10 Mbps PRINTSERVERS		
GPS300 Packet Netware only - 1xPar	£73.95	£86.89
GPS300 Packet M/Protocol - 1xPar	£112.95	£132.72
10MBE ETHERNET ADAPTERS		
GE2000 III ISA BNC/TP	£19.95	£23.44
GE2500 III PCI BNC/TP	£24.95	£29.32
EB3000 II Parallel BNC/TP	£39.95	£46.94
ME3000 II PCMCIA BNC/TP	£49.95	£58.69

Network Hubs		ex vat	inc vat
3Com			
Office connect			
3C16700 8TPO 8port	£45	£52.87	
3C16701 8TPC 8port	£67	£78.72	
3C16710 8TFM 8port	£205	£240.87	
3C16720 8TP100 8port 100TX	£209	£245.57	
3C16702 16TPC 16port	£122	£143.35	
SuperStack II			
3C16590 Dual Speed 12port	£644	£756.70	
3C16591 Dual Speed 24port	£839	£985.82	
3C16670A 12port	£222	£260.85	
3C16671A 24port	£389	£457.07	
3C250TX 12port 100TX	£495	£581.62	
D-Link			
DE805TP 5port & BNC	£28	£32.90	
DE905 2 User starter kit	£58	£68.15	
DE809TC 8port & BNC	£38	£44.65	
DE809TP 8port	£48	£56.40	
DE812TP+ 12port	£74	£86.95	
DE816TP16port	£88	£103.40	
DE824TP 24port	£125	£146.87	
DE1812 12port	£74	£86.95	
DE1824 24port	£169	£198.57	
DFE808TX 8port 100TX	£194	£227.95	
DFE812TX 12port 100TX	£399	£468.82	
DFE816 16port 100TX	£359	£421.82	
Network Switches			
D-Link			
DES802 2port 10/100	£144	£169.20	
DES805 5port 10/100	£245	£287.87	
DES1004 4port N-Way	£349	£410.07	
DES1008 8port N-Way	£584	£686.20	
DES2205 5port 10/100	£545	£640.37	
DES2208 8port 10/100	£845	£992.87	

D-Link

Unmanaged Switches

From top to bottom: DES-810, DES-818 desktop switches, DES - 815 rack-mount switch. Each model is equipped with high-speed ports for Fast Ethernet integration and/or power server deployment.

- 8, 12 or 16 Ethernet ports
- 2 or 3 Fast Ethernet ports
- Full/half duplex for each port

D-Link DES-810
£275 ex vat
£323.12 inc vat

Managed Switches

DES-3216 rack-mount switch with 16 NWay ports. Each port features auto-negotiation of Ethernet/Fast Ethernet speeds and full/half duplex data transfer modes.

- 8 NWay 10/100Mbps full/half duplex ports
- MII interface for flexible media attachment
- MDI-II connector for easy expansion
- RS-232 console port

D-Link DES-3216
£995 ex vat
£1169.12 inc vat

Print Servers

DP-100 print server with combo 10BASE-T/BNC port (top) and DP-300 print server with Ethernet/Fast Ethernet interface (bottom).

- IEEE 1284-compliant high-speed parallel ports
- Serial port baud rate up to 57.6Kbps
- Easy configuration through Windows, Telnet

D-Link DP-100
£125 ex vat
£146.87 inc vat

Fast Ethernet Hub

This Fast Ethernet hub features 16 100Mbps ports, desktop size and stackability for easy expansion.

- 16 100BASE - TX ports per hub
- Uplink port for easy connection to another stack or switch
- 80 ports per stack, 5 hubs per stack
- Plug-and-play ease of use
- supports UTP, STP cabling

D-Link DFE-916
£339 ex vat
£398.32 inc vat

PC Card

DE-660 Ethernet PC Card base unit plugs to the notebook PCs PCMCIA slot; its 6-ft.cable connects to a 10BASE-T network. AUI media coupler and is on the left, combo BNC/10BASE-T coupler and 10BASE-T-only coupler are on the right.

- Low power consumption
- Passes IEEE 802.3 1500v high pot test
- Full driver support

D-Link DE-660
£39 ex vat
£45.82 inc vat

10/100Mbps Adapter

DFE-500TX Fast Ethernet adapter is equipped with an auto-sensing 10/100Mbps NWay interface. It plugs into a desktop PCs PCI expansion bus slot to run in 10BASE-T or 100BASE-TX mode, half or full duplex.

- 10/100Mbps NWay interface
- 32-bit PCI bus master operation
- DEC Fast Ethernet controller
- 4GB memory addressing over PCI bus

D-Link DFE-500
£29 ex vat
£34.07 inc vat



PRICES SLASHED!!

ACCURA 56K MODEM

- Flash upgradeable
- FAX send and receive
- FAX-on-demand
- Voice answer phone
- Microphone Included
- Software and cables included
- K56Flex technology allows download speeds from the Internet at up to 56,000 bit/s.
- Dial-in to collect your messages while you're away
- V.90 COMPATIBLE



OPTIMA 56K PCMCIA

- Throughputs of up to 115,200 bit/s, reliable data and fax communications, all from a credit card sized modem that plugs easily into the PCMCIA slot (Type II or III) on your portable PC
- Data/FAX discrimination
- Flash ROM allows fast, convenient upgrades via software and immediate access to new features
- Group 3 FAX (Class 1 & 2)
- Free SmartCom communication and Internet software with free access
- V.90 COMPATIBLE

MSN 56K MODEM

Hayes legendary modems and the Microsoft Network MSN have teamed up to deliver The Complete Internet Solution, offering one easy path to the Internet.



The package includes a special easy to use guide to the Internet in the form of a mouse mat with flip-out tab guides. It provides a step-by-step guide to navigating the Internet, to ensure you get the most from your Internet experience.

- Download from the Internet at up to 56,000 bit/s
- Flash upgradeable
- High Speed send and receive fax
- FAX-on-demand
- Voice answerphone
- Speakerphone facility for hands free telephone
- V.90 COMPATIBLE

Hayes 56K Int	Hayes 56K Ext	Hayes 56K PCMCIA	Hayes MSN 56K Int	Hayes MSN 56K Ext	Optima 33.6K Global PCMCIA	Optima 33.6K Business Ext
£71.95 ex vat	£77.95 ex vat	£149 ex vat	£84 ex vat	£94 ex vat	£119	£148
£84.54	£91.59 inc vat	£175.08 inc vat	£98.70 inc vat	£110.45 inc vat		



56K External Modem
£49 ex vat £57.57 inc vat

SuperHighway 56K External Modem

Rockwell chipset K56flex with V.90 code and modem wizard to tell you when your ISP has upgraded to V.90. Fax/data/voice and flash upgradeable with Internal telephone line splitter

SuperHighway 56K Internal Modem

Rockwell chipset K56flex with V.90 code and modem wizard to tell you when your ISP has upgraded to V.90. Fax/data/voice plus video with the QuartzSight camera system. Flash upgradeable, plug & play, internal telephone line splitter. QuartzSight Camera System only £49 +vat.



56K Internal Modem
£39 ex vat £45.82 inc vat

MODULAR technology



Complete feature-rich communications package for the home or office. The Sportster Messages can be left to store incoming fax and voice messages even when your computer is switched off.

- Flash ROM memory
- Integrates V.90 56Kbps standard and x2 technology
- Internet ready and compatible at 33,600bps
- Full duplex speaker phone
- Remote voice message, fax and data retrieval
- Call discrimination: Fax/Data/Voice with Fax-on-Demand

£79 ex vat
£92.82 inc vat



Sportster Winmodem 56K
The low-cost Internal Card - Windows compatible only

- x2 technology at up to 56Kbps
- Full duplex speaker phone
- Personal Voice Mail with 1000 mailboxes
- Call discrimination: Fax/Data/Voice with Fax-on-Demand
- Remote voice message retrieval

£69 ex vat
£81.07 inc vat



Sportster Winmodem PC Card
33.6Kbps (PCMCIA) PC Card

- Designed exclusively for Windows 95
- Upgradeable to x2 FREE
- Pan European internal DAA ensures the modem will operate correctly across Europe
- Full Duplex speaker phone
- Personal Voice Mail with 1000 mailboxes
- Call discrimination with Fax-on-Demand
- Remote voice message retrieval

£69 ex vat
£81.07 inc vat

3Com U.S. Robotics

56K Voice Faxmodem

Includes V90 56K standard and x2 technology

- Flash ROM memory
- Integrates V.90 56Kbps standard and x2 technology
- Internet ready and compatible at 33,600bps
- Full Duplex speaker phone
- 1000 Mailbox voice mail with security
- Fax-on-Demand - up to 9 faxes stored for distribution
- Call discrimination: Fax/Data/Voice

£79 ex vat
£92.82 inc vat

Megahertz 56K Global PC Card

Hassle free mobile connections

- x2 technology at up to 56Kbps
- Flash DSP/Flash ROM upgradeable
- World Ready-approved for use in over 250 countries
- Digital line guard

NEW!!

£124 ex vat
£145.70 inc vat



£135 ex vat
£158.62 inc vat

Pace 56 Solo

56Kbps self-memory messaging system

- 56Kbps voice/fax/data modem with on-board memory
- Receives & stores voice & fax messages even with your PC off
- Stores a combination of approximately 30 minutes of speech or 30 pages of fax
- Retrieve your voice messages without your PC
- Retrieve your fax messages without having to view them first
- New audible UK Calling Line Identification
- Hands free speaker phone without your PC
- Flash upgradeable to future standards (V90 ready)
- Contacts you on the move to let you know you have messages waiting - remote access for message collection
- Automatically discriminates between voice, fax & data/calls



Pace 56 Voice

56Kbps voice/fax/data external or Internal modem

- Super fast 56,000bps internet access & 33.6Kbps data transfer
- Voice mail, fax mail & email
- UK Calling Line Identification
- Flash upgradeable to future standards (V90 ready)
- Full duplex, hands free, speaker phone capability
- Private mailboxes for multiple users

Internal
£64 ex vat
£75.20 inc vat

External
£89 ex vat
£104.57 inc vat



Pace NB 56 Voice

56Kbps voice/fax/data PC Card modem

- Super fast 56,000bps internet downloads
- Voice mail, fax mail & email
- Enhanced throughput up to 230.4Kbps
- UK Calling Line Identification
- Flash upgradeable to future standards (V90 ready)
- Ultra low power operation & standby mode

£88 ex vat
£103.40 inc vat



Pace ISDN Terminal Adaptor

Complete package for high speed digital communications

- Basic Rate ISDN interface (2x64k)
- Channel bonding for data transmission at 128Kbps
- Enhanced serial interface for up to 230.4Kbps
- 2 analogue ports for telephone/fax/modem connections
- Simultaneous voice & data over a single ISDN line
- Multiple Subscriber Numbering
- Euro ISDN approved for use throughout Europe

£175 ex vat
£205.62 inc vat

Modems

Model	ex vat	inc vat
DIAMOND		
Supra Express 33.6K Internal	£29	£34.07
Supra Express 56K Internal	£55	£64.62
Supra Express 56K External	£59	£69.32
Dynalink		
33.6K Voice Internal	£35	£41.12
33.6K Voice External	£49	£57.57
33.6K PCMCIA	£69	£81.07
56K Voice Internal	£55	£64.62
56K Voice External	£65	£76.37
56K PCMCIA	£69	£81.07
Grey Cell Systems		
GCS 4000 33.6K PCMCIA	£145	£170.37
GSM Upgrade	£115	£135.13
Multi		
MT2834ZPXI 33.6K Internal	£74	£86.95
MT2834ZDXK 33.6K External	£74	£86.95
MT2834ZDXV 33.6K Voice External	£84	£98.70
MT5600ZDX 56K External	£74	£86.95
MT5600ZDXV 56K Voice External	£98	£115.15
MT2834LTI 33.6K PCMCIA	£115	£135.12
MT2834BLK 28.8K External	£139	£163.32
MT5634LXI 56K PCMCIA	£125	£146.67
OLITEC		
SelfMemory 33600	£85	£99.87
SelfMemory 56000	£115	£135.12
SelfMemory 56000 Phone	£135	£158.62
Gold Card Global		
56 + Fax	£149	£175.07
Gold Card Global V90 bis + Fax	£99	£116.32
GSM Nokia 2110 Ug	£85	£99.88
GSM Nokia 8110 Ug	£85	£99.88
GSM Panasonic Ug	£85	£99.88
TDK		
DF-2814 33.6K PCMCIA	£108	£126.90
DF-3310 33.6K GSM PCMCIA	£115	£135.12
DF-5680 56K PCMCIA	£145	£170.37
3Com		
Courier Int ISDN 64K	£229	£269.07
Courier Int V34	£185	£217.37
Courier Int Ext	£229	£269.37
Courier Ext V34	£185	£217.37
Sportster ISDN TA	£99	£116.32
56K Message V90	£115	£135.12
56K Global Modem PCMCIA	£119	£139.82
56K Pro Message V90 ext	£127	£149.22
Xircom		
RealPort 10/100 + Modem 56	£195	£229.12
CEM56-100BTX	£185	£217.37
CE3-100BTX	£94	£110.45
CM56	£138	£162.15
Credit Card 33.6K PCMCIA	£105	£123.37
Credit Card 56K PCMCIA	£125	£146.67
GSM Global Access PCMCIA	£105	£123.37

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WORLD ATLAS SCIENTIFIC PLANTARIUM
COMPTONS BATTLES OF THE WORLD

ENTERTAINMENT PACK



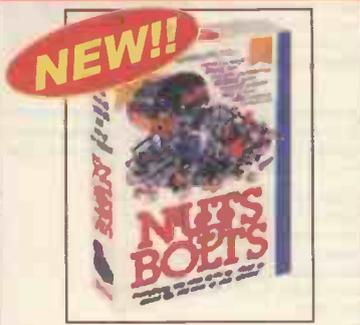
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DESIGN CENTRE 3D
TYPING TUTOR PRO

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NUTS & BOLTS is a package of brilliant, virtually automatic utilities that prevent crashes, optimise your hard drive, eliminate conflicts, repair damage, secure files, shred sensitive stuff, alert you to problems, rescue lost files, diagnose your system, increase speed, fix glitches and check program compatibility.

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Autodesk



AutoCAD LT97 (750,000 users World wide)
Introducing AutoCAD LT97. The only CAD program that speaks 100 percent fluent AutoCAD. AutoCAD LT97 is loaded with powerful 2D drawing and editing tools plus several new features that increase your productivity. There's a office-like Object Property toolbar that lets you determine the layer, colour, or linetype of an object and change it with a single mouse click. Plus precision drawing tools like Autosnap and PolarSnap that speed up your drawing on the Internet.

£487.63 inc vat

AutoSketch Release 5
AutoSketch is perfect for all precision and detail drawings, concept sketches, technical diagrams, architectural layouts, electrical drawings, illustrations, presentation graphics and more. And of course, it's from Autodesk, the worldwide leader in design software.

Full Version **£89 ex vat** £104.57 inc
Upgrade **£44 ex vat** £51.70 inc vat

Partition Magic



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Office 97 Standard Upgrade on CD	£147	£172.73
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MS AutoRoute Express 98 GB	£37	£43.47
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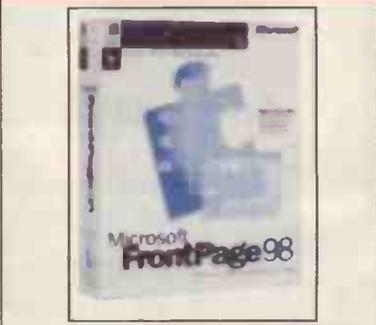
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Office Devel 97	£194	£227.95
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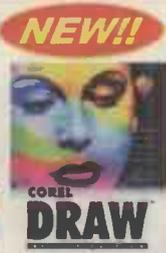
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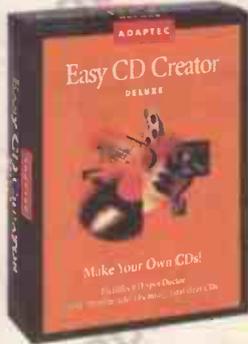
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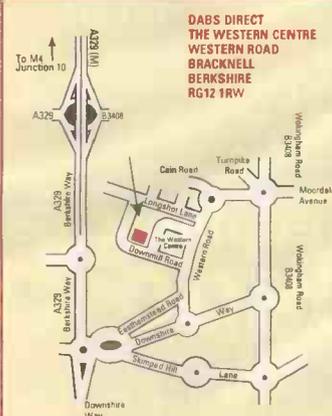
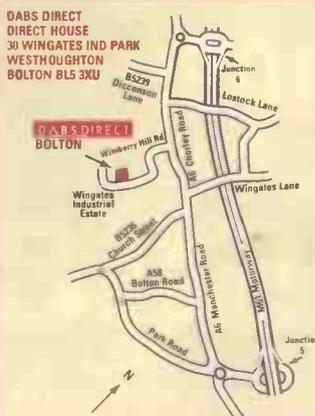
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- **Amazing Dabs Atlantis Home Office PC Bundle**
 The Dabs Atlantis Home Office PC now includes a FREE Canon BJC-250 Colour Inkjet Printer, a FREE Umax 610p Colour Flatbed Scanner, and a FREE Modular Technology TV Tuner Card! This PC bundle was already good value for money, it's now unbeatable!
 In addition this, our 'Buy Now Pay March 1999' offer means you can buy the Dabs Atlantis Home Office PC, or any other Dabs PC System, with 6 months interest free credit. See pages 4 to 7 for details.
- **Toshiba Libretto Notebook price reduction**
 This quality notebook is now better value than ever with a £170 saving, now at only £1099 (£1291.32). See page 8 for full specification.
- **Canon & Blockbuster video promotion**
 When you buy a promotional BJC-250, 4300, 4300SCAN, 4650, 5000 or 7000 and you can apply for a Canon Blockbuster Value Card. This will entitle you to hire a movie FREE from your Blockbuster Video store, each week, for up to a year.
 - One movie per week from date of first rental
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...and don't forget, for the latest Product Releases & Special Offers go to www.dabs.com

INTRODUCTION



It seems strange to be writing about our Christmas offerings in early September, but that's the timewarp world of printing for you. We have gone totally silly on the Christmas Home Office PC bundle - we have anticipated all kinds of price drops etc, and still priced it at virtually zero margin.

Also, keep accessing the Web site <http://www.dabs.com>. We now have two people on it full time and there is new stuff there every day.

As we run up to Christmas our phones will get very busy, and although we are constantly recruiting, the answer times may get longer. If possible, please phone us in the morning, or right at the end of the day, or on Saturday, or email us (every person at Dabs has their own email), or fax. If you get voicemail - please use it, we will call you back.

David Atherton

David Atherton, Managing Director, Dabs Direct PLC
da@dabs.com

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Friday	08.00 - 17.00	09.00 - 17.00	09.00 - 17.00
Saturday	09.00 - 15.00	10.00 - 15.00	Closed
Sunday	Closed	Closed	Closed

Full Terms and Conditions available on request. Prices valid from 1st to 31st October 1998.

E&OE [01.09.98].

DIRECT focus

DABS DIRECT PRODUCT NEWS & PRICE GUIDE

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IMPORTANT NUMBERS

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All Customer Services	0870 129 3220
General Technical Support	0870 129 3350

*All 0870 calls charged at national rate
 (long distance rate)*

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DABS DIRECT

PERSONAL COMPUTER SYSTEMS

General Sales Hotline OPEN 8am - 7pm Mon to Thu . 8am - 5pm Fri . 9am - 3pm Sat

freephone

0800 558866

custom build PC division

0870 129 3002

Dabs PC Systems

Atlantis Home Office

- 440BX ATX Motherboard
- Intel Celeron™ 300MHz Processor with MMX Technology with 128k on-chip cache
- 64Mb SDRAM Memory (expandable)
- 6.4Gb UltraDMA Hard Disk Drive
- 56Kbps Internal Voice/Data/Fax Modem (inc 1 months free Internet Access)
- 32x CD ROM Drive
- 4Mb AGP Graphics Card
- FREE TV / Teletext Card
- Wavetable PCI Sound Card
- 15" Digital SVGA Monitor
- 105 Key Windows 95 PS/2 Keyboard & Mouse
- Joystick
- 60w Active Speakers
- 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 Umax 610p Colour Flatbed Scanner



Dabs Multimedia Software Bundle (13 titles)

with FREE Canon Printer & FREE Umax Scanner & FREE TV Card

FREE Canon BJC-250 Colour Inkjet Printer



- Up to 3.4 pages per minute
- Free black & colour cartridge
- Optional Photo cartridge
- One Year return to Canon Warranty

Canon

FREE Umax 610p Colour Scanner



- 30 bit colour scanning
- 300 x 600dpi optical resolution
- 4800 x 4800dpi maximum resolution
- 3 year warranty
- Bundled software: *PhotoDeluxe, Presto! PageManager, UMAX Copy Utility, VistaScan and OmniPage Direct*

UMAX

FREE TV / Teletext Tuner Card



- Full Screen TV and Video from your PC
- Automatic Channel Tuning
- TV Picture adjustable from icon size to full screen
- Teletext, instantly displayed
- Display and capture from VCR, Cable, Satellite, Games Console & Camcorder



Atlantis Home Office

with FREE Canon BJC-250 Printer & FREE Umax 610p Scanner & FREE TV Card

only £ 799

(£938.82)

BUY NOW PAY 1999

Buy Now Pay March 99

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 Cover Care Credit Protection.

Written quotation available on request. Credit subject to status and applicants must be at least 18 years of age. Offer available until 31st October 1998.

All software boxes are shown for illustrative purposes only - Bundled software may not come with full retail packaging

Prices shown in brackets are inclusive of VAT



Belnea



iomega.



ADI Systems UK

Canon



PRICE MATCHING - We can usually match competitors prices, please call for details.

Dabs PC Systems

Atlantis Workstation

- Cyrix 6x86MII™ 300MHz Processor
- 512Kb Pipeline Burst Cache Memory
- Aladdin5 ATX Motherboard
- 16Mb SDRAM Memory (expandable)
- 3.2Gb UltraDMA Hard Disk
- 32x CDROM Drive
- 2Mb PCI Graphics Card
- 14" Digital SVGA Monitor
- 105 Key Windows 95 PS/2 Keyboard & PS/2 Mouse
- 16bit ISA RJ45/BNC Network Card
- Microsoft Windows 98
- Lotus SmartSuite 97
- Multimedia upgrade option (Sound Card & Speakers) add £25 (£29.38)
- 1 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)



£449
(£527.57)

Atlantis Workstation
with Cyrix 6x86MXII™ 333 Processor

£549 (£645.07)

Atlantis Value

- Intel Celeron™ 266MHz Processor with MMX Technology
- 440LX ATX Motherboard
- 32Mb SDRAM Memory (expandable)
- 3.2Gb UltraDMA Hard Disk
- 32x CD ROM Drive
- 4Mb AGP Graphics Card
- 14" Digital SVGA Monitor
- 56Kbps Internal Voice/Data/Fax Modem (inc 1 months free Internet Access)
- Wavetable PCI Sound Card
- 20w Speakers
- 105 Key Windows 95 PS/2 Keyboard & PS/2 Mouse
- Microsoft Windows 98
- Lotus SmartSuite 97
- Dabs Multimedia Software Bundle (13 titles)
- 1 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)

£549
(£645.07)

Atlantis Value
with Intel® Celeron™ with 300MHz Processor (no cache)

£569 (£668.57)



Atlantis Workstation
Entry level Network Ready Desktop PC



Atlantis Value
Multimedia Internet Ready Mini Tower PC

Dabs Multimedia Software Bundle (13 titles)



6x86 and the 6x86MX logo are trademarks of Cyrix Corporation. Pentium is a registered trademark and MMX and Celeron are trademarks of Intel Corporation.



What the magazines say....

"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". August 98 - Dabs Pentium II 400 Home

Shopping Spree. PCW ran a feature on where to buy a PC and the Dabs Atlantis Home Office (with bundled printer) was selected as the best mail order offering. This was based on value for money, specification, delivery time and presales service. Here's what they found "Good value for money....the spec was generous" and with regard to the presales, as they put it:..... "Success. A Salesperson who's sussed!" August 98 - Personal Computer World

"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 SYMark tests"
 Personal Computer World - Dabs Pentium II 400 Business



"built to a high standard ... quality brand names ... prices that won't break the bank"
 PC Direct - June 1998, Dabs Group Test Dabs Atlantis Home Office, Navigator, Voyager PCs

"the inclusion of a printer ... enables users to start working productively straight out of the box"
 PC Pro - July 1998, found the Atlantis Home Office to be a 'HIT'



"Good value for money with some quality components ... well equipped to run even the most demanding applications at full throttle and the software bundle is particularly impressive ... incredible feature list"
 PC Advisor - Dabs Power PC



"qualifies as the Most Generous Package we received ... represents excellent value for money"
 Personal Computer World - Dabs Atlantis Home Office



"great value package"
 Computer Buyer Top 50 Dabs Navigator PII



"A fine PC - should last you years"
 Computer Buyer Top 50 Dabs Navigator MMX

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
- 64MB PC100 SDRAM
- Seagate 6.5GB UltraDMA Hard Disk
- 32x CDROM Drive
- ATI 3D Xpert 98 8MB AGP Graphics Card
- ADI E44 15" Digital Monitor
- 56kbps Internal PCI Voice/Data/Fax Modem (including 1 months free Internet Access)
- Creative Labs SoundBlaster AWE-64 Value Sound Card
- Labtec LCS-1020 10W Speakers
- Cherry PS/2 Keyboard & Microsoft PS/2 Mouse
- Microsoft Sidewinder Joystick
- Microsoft Windows 98
- Lotus SmartSuite 97
- Multimedia Software Bundle (13 titles)
- 1 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)



Navigator

- Intel® Pentium II Processor with MMX technology
- Abit 440BX 100MHz FSB motherboard
- 64MB PC100 SDRAM
- Seagate 6.5GB UltraDMA Hard Disk
- 32x CDROM Drive
- ATI 3D Xpert 98 8MB AGP Graphics Card
- ADI E44 15" Digital Monitor
- 56kbps Internal PCI Voice/Data/Fax Modem (including 1 months free Internet Access)
- Creative Labs SoundBlaster AWE-64 Value Sound Card
- Labtec LCS-1020 10W Speakers
- Cherry PS/2 Keyboard & Microsoft PS/2 Mouse
- Microsoft Windows 98
- Lotus SmartSuite 97
- Multimedia Software Bundle (13 titles)
- 1 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)



Challenger

High Performance AMD K6® -2 3D Now!™ with MMX Technology



Navigator

Pentium II Multimedia & Internet Ready PC

Dabs Multimedia Software Bundle (13 titles)



AMD-K6® -2 3D Now!™ 300MHz

£789 (€927.07)

AMD-K6® -2 3D Now!™ 333MHz Processor

£809 (€950.57)

AMD-K6® -2 3D Now!™ 350MHz Processor

£879 (€1032.82)

AMD, the AMD logo, K6, 3D Now!, are combinations thereof, are trademarks of Advanced Micro Devices, Inc.

Intel® Pentium II with 350MHz Processor

£899 (€1056.32)

Intel® Pentium II with 400MHz Processor

£1029 (€1209.07)

Intel® Pentium II with 450MHz Processor

£1159 (€1361.82)

Pentium is a registered trademark and MMX and Celeron are trademarks of Intel Corporation.



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! 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)



Branded from the inside out



Seagate



iomega.

CREATIVE



PRICE MATCHING - We can usually match competitors prices, please call for details.

Dabs PC Systems

Discovery

- Intel Pentium II Processor with MMX technology
- Abit 440BX 100MHz FSB motherboard
- 64MB PC100 SDRAM
- Seagate 8.6GB UltraDMA Hard Disk
- 32x CDROM Drive
- Matrox Millenium G200 8MB AGP Graphics Card
- ADI 5P 17" Digital Monitor
- 56kbps Internal PCI Voice/Data/Fax Modem (including 1 months free Internet Access)
- Creative Labs SoundBlaster AWE-64 Value Sound Card
- Labtec LCS-1020 10W Speakers
- Cherry PS/2 Keyboard & Microsoft PS/2 Mouse
- Microsoft Windows 98
- Microsoft Office Small Business Edition v2.0
- Multimedia Software Bundle (13 titles)
- 1 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)

Voyager DVD

- Single or Dual Intel Pentium II Processor
- Super Micro 440BX 100MHz FSB motherboard with onboard Adaptec UltraWide SCSI
- 128MB PC100 SDRAM
- Seagate 9.1GB UltraWide SCSI Hard Disk
- Creative 2nd generation DVD ROM Drive
- Iomega Internal ZIP Drive
- Matrox Millenium G200 8MB AGP Graphics Card
- Creative DXR2 MPEG2 Decoder Card
- Iiyama VisionMaster 400 17" DiamondTron Monitor
- 56kbps Internal PCI Voice/Data/Fax Modem (including 1 months free Internet Access)
- Creative Labs SoundBlaster Live! Sound Card
- Labtec LCS-2612 20W Speakers & 3D Subwoofer
- Cherry USB Keyboard & Microsoft USB Mouse
- Microsoft Windows 98
- 1 Year On-Site Warranty (hardware only)
- 5 Year Labour Warranty (excluding monitor & software)

Now with 17" monitor as standard



Discovery

Pentium II Power PC

Microsoft Office Small Business Edition v2.0 (Discovery only)



Intel® Pentium II with 350MHz Processor

£1199 (€1408.82)

Intel® Pentium II with 400MHz Processor

£1349 (€1585.07)

Intel® Pentium II with 350MHz Processor

£1479 (€1737.82)

Single Intel® Pentium II with

400MHz Processor £1999 (€2348.82)

Single Intel® Pentium II with

450MHz Processor £2129 (€2501.57)

Dual Intel® Pentium II with

400MHz Processors £2399 (€2818.82)

Dual Intel® Pentium II with

450MHz Processors £2499 (€2936.32)

With Iiyama 17" monitor as standard



Voyager

Ultimate Pentium II PC



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

PLATINUM CARE

DABS PC's are custom built by our trained engineers to your specification using only the very best components. This is why every DABS PC comes with a 5 year limited warranty and during the first year we will send an engineer out to your location to find and fix the fault swiftly and efficiently, over 90% of reported faults are fixed the next working day of them being reported. For complete peace of mind you can upgrade to either a 3 or 5 year on-site warranty at the extremely competitive price of £149/€175.07 for 3 years or £229/€269.07 for 5 years. This can work out at less than £1 per week for a complete On-Site Parts and Labour Warranty with service second to none.

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

Buy Now Pay March 99

BUY NOW
PAY
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 Cover Care Credit Protection.

Written quotation available on request. Credit subject to status and applicants must be at least 18 years of age. Offer available until 31st October 1998.



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0800 558866

PRICE MATCHING
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Web Site www.dabs.com

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"Value for money"



Safellite

Safellite from Toshiba means 'value for money' without compromising performance. Products in the Safellite family feature Pentium® processors, plus a choice of screen types, hard drives and CD-ROM drives on the Safellite 300 series.

Safellite 320CDS £1015 (£1192.62)

- Intel Pentium 233MHz with MMX
- 32MB EDO RAM (expandable to 160MB)
- 3.8GB Hard Drive
- 20xSpeed CD-ROM
- 12.1" DSTN Colour Display
- SoundBlaster Pro compatible sound system
- 2x 32bit CardBus PC Card slots with ZV port

Safellite 320CDT £1269 (£1491.07)

- Intel Pentium 233MHz with MMX
- 32MB EDO RAM (expandable to 160MB)
- 3.8GB Hard Drive
- 20xSpeed CD-ROM
- 12.1" TFT Colour Display
- SoundBlaster Pro compatible sound system
- 2x 32bit CardBus PC Card slots with ZV port

Safellite 4000CDS £Call (£Call)

Call for complete specifications

NEW MODEL

Safellite 4000CDT £Call (£Call)

Call for complete specifications

NEW MODEL

"Dazzling power and speed"



Safellite Pro

The Safellite Pro family offers the latest features at attractive prices with multimedia throughout. High performance Pentium II® processors, MMX™ technology, hard disk and CD-ROM drives deliver outstanding speed and performance. Products are available with either TFT or FastScan (HPD) screens.

Safellite Pro 480CDT £1609 (£1890.57)

- Intel Pentium 233MHz with MMX
- 32MB EDO RAM (expandable to 160MB)
- 4.1GB Hard Drive
- Swappable 10xSpeed CD-ROM
- 12.1" TFT Colour Display
- 800x600 resolution with up to 16.7 million colours

FREE 32Mb & carry case (while stocks last)

Safellite Pro 490CDT £1695 (£1991.62)

- Intel Pentium II 233MHz with MMX
- 32MB EDO RAM (expandable to 160MB)
- 3.8GB Hard Drive
- 20xSpeed CD-ROM
- 12.1" TFT Colour Display
- 800x600 resolution with up to 16.7 million colours

Safellite Pro 490xCDT £1949 (£2290.07)

- Intel Pentium II 266MHz with MMX
- 32MB EDO RAM (expandable to 160MB)
- 3.8GB Hard Drive
- 20xSpeed CD-ROM
- 13.3" XGA TFT Colour Display
- 1024x768 resolution with up to 16.7 million colours

Accessories

	<i>Safellite</i>	<i>Safellite Pro</i>
Card Station III (not for 300 series)	£249 (£292.57)	£249 (£292.57)
MPEG PC Card	£199 (£233.82)	£199 (£233.82)
In-Car Adaptor	£59 (£69.32)	£59 (£69.32)

"Perfect performer"



TECRA

The Tecra family means 'performance'. From the outstanding features and value for money of the Tecra 540CDT to the technologically ground breaking Tecra 780DVD with its Pentium II®, 266MHz processor, 4.77GB hard disk and DVD-ROM Drive.

TECRA 550CDT £1865 (£2191.37)

- Intel Pentium 266MHz with MMX
- 32MB EDO RAM (expandable to 160MB)
- 4.1GB Hard Drive
- Swappable 20xSpeed CD-ROM
- 12.1" TFT Colour Display
- 1024x768 resolution with up to 16.7 million colours
- SoundBlaster Pro compatible sound system
- 2x 32bit CardBus PC Card slots with ZV port

TECRA 780DVD £3055 (£3589.62)

- Intel Pentium 266MHz with MMX
- 64MB EDO RAM (expandable to 160MB)
- 5.1GB Hard Drive
- DVD-ROM Drive
- 13.3" XGA TFT Colour Display
- 1024x768 resolution with up to 16.7 million colours
- SoundBlaster Pro compatible sound system
- 2x 32bit CardBus PC Card slots with ZV port

TECRA 8000's £Call (£Call)

Call for complete range of specifications

NEW MODEL

Accessories

	<i>TECRA</i>	<i>Libretto</i>
Card Station III	£275 (£323.12)	£159 (£186.82)
Mini Card Station		£199 (£233.82)
MPEG PC Card	£199 (£233.82)	£199 (£233.82)
In-Car Adaptor	£59 (£69.32)	£59 (£69.32)

NEW Lower price

"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 £1099 (£1291.32)

- Intel Pentium 166MHz with MMX
- 32MB EDO RAM
- 2.1GB 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

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	£30	£43	£83	£155	£303
(inc. VAT)	(£35.25)	(£50.52)	(£97.52)	(£182.12)	(£356.02)

Please check compatibility before ordering memory

TOSHIBA

Excellent Quality • Superior Service • Unbeatable Value





- ✓ Serving you since 1987
- ✓ Over £50m annual turnover
- ✓ Over 200,000 satisfied customers
- ✓ Highly trained specialist staff
- ✓ Repair & upgrade services

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PERSONAL COMPUTER SYSTEMS

Trade 0870 129 3003
All 0870 calls charged at national rate

Corporate 0870 129 3010 **Export 01942 853001** **Email sales@dabs.com**

OTHER BRANDED PC'S

COMPAQ	ex VAT	inc VAT
Deskpro EP		
266 Celeron 266 32/3200 W95	589	692.07
266 Celeron 266 32/3200 WinNT	629	739.07
6266 PII 266 32/3200 W95	639	750.82
6266 PII 266 32/3200 WinNT	679	797.82
6300 PII 300 32/3200CDS W95	809	950.57
6300 PII 300 32/3200CDS WinNT	849	997.57
6333 PII 333 32/3200CDS W95	899	1056.32
6333 PII 333 32/3200CDS WinNT	949	1115.07
6350 PII 350 64/6400CDS W95	1159	1361.82
6350 PII 350 64/6400CDS WinNT	1199	1408.82
6400 PII 400 64/6400CDS W95	1229	1444.07
6400 PII 400 64/6400CDS WinNT	1269	1491.07
Deskpro EN		
6266 PII 266 32/3200 W95	779	915.32
6266 PII 266 32/3200 WinNT	819	962.32
6300 PII 300 32/3200 W95 No LAN	869	1021.07
6300 PII 300 32/3200 W95	919	1079.82
6300 PII 300 32/3200 WinNT	959	1126.82
6333 PII 333 32/3200 W95 No LAN	1055	1239.82
6333 PII 333 32/3200 W95	949	1115.07
6333 PII 333 32/3200 WinNT	989	1162.07
6350 PII 350 32/6400 W95	1209	1420.57
6350 PII 350 32/6400 WinNT	1259	1479.32
6350 PII 350 64/6400CDS W95	1295	1521.62
6350 PII 350 64/6400CDS WinNT	1339	1573.32
6400 PII 400 64/6400CDS W95	1369	1608.57
6400 PII 400 64/6400CDS WinNT	1409	1655.57
ProSigna		
200 PII 233 32/0 EIDE	699	821.32
200 PII 233 32/3200 EIDE	949	1115.07
200 PII 233 32/0 SCSI	945	1110.37
200 PII 233 32/4300 SCSI	1089	1279.57
200 PII 266 32/0 SCSI	1189	1397.07
200 PII 266 32/4300 SCSI	1615	1897.62
200 PII 300 32/0 SCSI	979	1150.32
200 PII 300 32/4300 SCSI	1325	1556.87
Proliant		
800 PPro 180 32/0	1199	1408.82
800 PPro 180 32/2100	1585	1682.37
800 PPro 180 32/4300	1759	2066.82
800 PPro 200 32/0	1309	1538.07
800 PPro 200 32/2100	1609	1890.57
800 PPro 200 32/4300	1709	2008.07
1200 PII 233 32/0	1299	1526.32
1600 PII 266 64/0	1835	2156.12
1600 PII 300 64/0	2029	2384.07

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.

MODEL	SIZE	KINGSTON PART	MANU. PART	EXC. VAT	INC. VAT
Compaq Deskpro 2000, 4000 & 6000 MMX series	16Mb	KTC2428/16	242803-B21	25	29.37
	32Mb	KTC2428/32	242804-B21	42	49.35
	64Mb	KTC2428/64	242805-B21	103	121.02
Compaq Presario 1220	16Mb	KTC2428/128	270812-B21	214	251.45
	16Mb	KTC-P1600/16	293820-001	28	32.90
	32Mb	KTC-P1600/32	293821-001	59	69.32
Compaq Deskpro EN, EP Series SDRAM 100MHz (non ECC)	64Mb	KTC-P1600/64	293822-001	111	130.42
	32Mb	KTC6611/32	166612-B21	58	68.15
	64Mb	KTC6611/64	166613-B21	112	131.60
HP LaserJet 4000s and 5000s	128Mb	KTC6611/128	166614-B21	212	249.10
	16Mb	KTH-LJ4000/16	C4142A	28	32.90
	16Mb	KTH-LJ4000E/16	C4137A	36	42.30
HP Omnibook 800CS, CT	32Mb	KTH-LJ4000/32	C4143A	59	69.32
	16Mb	KTH-O800/16	F1168A	43	50.52
	32Mb	KTH-O800/32	F1169A	65	76.37
HP Vectra VE8, VL8	64Mb	KTH-DB800/64	F1198A, F1191A	134	157.45
	32Mb	KTH6501/32	D6501A	67	78.72
	64Mb	KTH6501/64	D6502A	123	144.52
Toshiba Portege 300, 310, 320CT	128Mb	KTH6501/128	D6503A	145	170.37
	16Mb	KTT300/16i	PA2052U	80	94.00
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Toshiba Libretto 50, 70CT	64Mb	KTT300/64i	n/a	167	196.22
	8Mb	KTT-LBT/8i	PA2055U	28	32.90
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Toshiba Satellite Pro 440, 445, 460, 470 480 CDX/CDT			PA2042U, NW2042U	195	229.12

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VL7 PII 266 64/4300 NT	1129	1326.57
VL7 PII 300 64/4300 NT	1239	1455.82
VL7 PII 333 32/4300	1109	1303.07
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VL7 PII 266 32/4300 Word97	899	1056.32
VL7 PII 266 64/6400 NT	1189	1397.07
VL7 PII 300 64/4300	1089	1279.57
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XA 6/333 PII 333 32/6400CD 100BT	1625	1909.37
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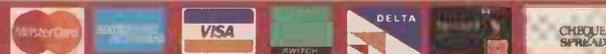
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LIEBERT	ex VAT	inc VAT
Powersure 250VA	85	99.87
Powersure 400VA	115	135.12
Powersure 600VA	159	186.82
Powersure 700VA	209	245.57
Powersure 1000VA	289	339.57
Powersure 1400VA	439	515.82

UMAX

UMAX are proud to release their new range of hubs and switches. Designed with our unique VFD panels, enabling users to configure and manage their network by simple navigation buttons and graphics display. From simple hubs, managed hubs to fully managed switches, UMAX are breathing fresh air into the world of networking

UMAX SoHo Mini/ Rack-Mounted Standard Ethernet Hub



Item Code	Product	Product Description	Price
UMA 706	SoHo 10H08	8-Port Mini Hub + 1 BNC Connector + 1 Up-link port	£49 (£57.57)
UMA 707	SoHo 10H08	16-Port Desktop Hub + 1 BNC Connector + 1 Up-link port	£89 (€104.57)
UMA 708	SoHo 10H16R	16-Port Rack-Mounted Hub + 1 BNC + 1 10Base 5 + 1 Up-link port	£99 (€118.32)
UMA 709	SoHo 100H08	8-Port 10/100Meg + 2 MII ports	£145 (€170.37)
UMA 710	SoHo 100H016B	16-Port 10/100M Hub with switching module + 2 MII ports	£480 (€564.00)

UMAX Stack - Stackable/ Rack-mounted Managed Ethernet Hub

Item Code	Product	Product Description	Price
UMA 703	Stack 10S24	24-Port 10Meg Slave Hub, SNMP & Web Managed	£250 (€299.75)
UMA 704	Stack 10M24w	24-Port 10Meg Master Hub, Web Managed	£385 (€452.37)
UMA 705	Stack 10M24	24-Port 10Meg Master Hub, SNMP & Web Managed	£425 (€498.37)

UMAX Smart Stackable/ Rack-mounted Intelligent Ethernet Switch



Item Code	Product	Product Description	Price
UMA 701	Smart 1000 208S	2x 100Meg + 8x100Meg Port VFD Managed Stacked Switch	£399 (€468.62)
UMA 702	Smart 1000 S212	2x 100Meg + 12x100Meg VFD Managed 400 Cascade option Racked Switch	£530 (€622.75)
UMA 700	Smart 1000 M211	2x 100Meg + 11x100Meg VFD, SNMP, Web + RMON Managed Racked Switch	£850 (€998.75)

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PRINTER SERVERS

AXIS PRINTPOINT	ex VAT	inc VAT
140BJC 1 parallel RJ45	115	135.12
540+ 1 parallel RJ45	179	210.32
560 2 parallel, 1 serial RJ45	209	245.57
560/100 10/100 1 parallel RJ45	189	222.07
560/100 10/100 2 parallel, 1 serial RJ45	255	299.62
BAY NETGEAR		
PS104 4port RJ45	95	111.62
PS110 2port 10/100 RJ45	129	151.57
DLINK		
DP-100 2 parallel 1 serial Combo	125	146.87
DP-301 10/100 1 parallel RJ45	95	111.62
DP-300 10/100 2 parallel, 1 serial RJ45	145	170.37
HP		
J2550B JetDirect RJ45 MIO	189	222.07
J2552B JetDirect Combo/LocalTalk MIO	225	264.37
J2556B JetDirect 10/100 MIO	245	287.87
J3111A JetDirect 600N RJ45 EIO	165	193.87
J3113A JetDirect 600N Combo LocalTalk	189	222.07
J3113A JetDirect 600N 10/100 EIO	209	245.57
J2590A JetDirect External Plus3 10/100	349	410.07
J2591A JetDirect External Plus Combo	175	205.62
J2592A JetDirect 150X Ext	99	116.32
J2593A JetDirect External Plus 3 Combo	229	269.07
J3263A JetDirect 300X Ext 10/100	185	217.37
INTEL NETPORT EXPRESS		
Pro MIO Combo	159	186.82
Pro 2 parallel 1 serial Combo	245	287.87
10/100 1 parallel	149	175.07
10/100 1 parallel 3 pack	415	487.62
Pro 100 2 parallel 1 serial	239	280.82
Pro 100 2 parallel 1 serial 3 pack	629	739.07

NETWORK REPEATERS

ALLIED TELESYN	ex VAT	inc VAT
MR122T BNC-RJ45	149	175.07
MR121T AUJ-RJ45	155	182.12
MR123 AUJ-AUI	185	217.37
MR124 AUJ-BNC	185	217.37
MR125 BNC-BNC	185	217.37
MR126F AUJ-Fibra	249	292.57
DLINK		
DE-802 BNC-AUI 2port	129	151.57
DE-803 BNC-AUI 3port	89	104.57
DE-804 BNC-AUI 4port	169	198.57

NETGEAR

Award Winning Price Leader

NETGEAR Hubs are available for Ethernet or Fast Ethernet networks. The new Dual Speed Hub auto-senses 10 or 100 on every port - allowing you to mix different speed devices on one hub. If you want to share a printer without slowing down a network PC, choose NETGEAR PS104 printer server with a built-in 4 port Ethernet hub.

EN104TP	4 Port Hub	£29 (€34.07)
EN104	4 Port Hub + BNC	£45 (€52.87)
EN108TP	8 Port Hub	£39 (€45.82)
EN108	8 Port Hub + BNC + AUI	£59 (€69.32)
EN116	16 Port Hub + BNC + AUI	£99 (€116.32)
FE104	4 Port Fast Hub	£69 (€81.07)
FE108	8 Port Fast Hub	£139 (€163.32)
FE116	16 Port Fast Hub	£Call (€Call)

DS108	8 x 10/100 Auto-sense Hub	£269 (€316.07)
PS104	4 Port Hub + Print Server	£95 (€111.62)
PS104	10/100 Print Server	£129 (€151.57)

NETGEAR cards are compatible with Windows, NetWare or UNIX networks. They come with a Lifetime warranty for peace of mind. Plug-n-Play makes installation simple.

FA310	10/100 PCI Card	£29 (€34.07)
FA410	10/100 PC Card	£75 (€88.12)
EA201	10BaseT ISA Card	£19 (€22.32)



Prices in brackets are inclusive of VAT

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420si	£115 (€135.12)

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Ether Express Pro 100 Mobile PCMCIA £89 (€104.57 inc VAT)
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InBusiness 4-Port Fast Hub £115 (€135.12 inc VAT)
InBusiness 8-Port Fast Hub £215 (€252.62 inc VAT)
InBusiness 8-Port Fast Hub Plus £419 (€492.32 inc VAT)
InBusiness 8-Port Switch £279 (€327.82 inc VAT)
InBusiness 8-Port Switch Plus £409 (€480.57 inc VAT)
InBusiness Internet Station £245 (€287.87 inc VAT)



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NETWORK SWITCHES

3COM	ex VAT	inc VAT
Officeconnect		
3C16730 140 4x10MB, 1x100MB	229	269.07
3C16731 140M 4x10MB, 1x100MB	459	539.32
3C16732 280 8x10MB, 2x10/100MB	369	433.57
3C16733 400 4x10/100MB	299	351.32
SuperStack II		
3C16460 Switch 320 12port	649	762.57
3C16464 10/100 Switch 12port	725	851.87
3C16465 10/100 Switch 24port	1079	1267.82
3C16951 1100 12x10MB, 2x10/100MB	649	762.57
3C16950 1100 24x10MB, 2x10/100MB	899	1056.32
3C16981 3300 12x10/100MB	1089	1279.57
3C16980 3300 24x10/100MB	1599	1878.82
3C39024 3900 24x10/100MB	3399	3993.82

ACER NETXUS

ALW-3002E 2x10/100MB	159	186.82
ALW-1083E 8x10MB, 2x10/100MB	549	645.07
ALW-1123E 12x10MB, 2x10/100MB	649	762.57

BAY NETGEAR

SW108 8x10MB	159	186.82
SW502 1x10MB, 1x100MB	299	351.32
SW507 6x10MB, 1x100MB	239	280.82
SW5010 8x10MB, 2x100MB	269	316.07
SW518 16x10MB, 2x100MB	539	633.32
FS102 2x 10/100MB	189	222.07
FS104 4x 10/100MB	269	316.07
FS108 8x 10/100MB	619	727.32
FS116 16x 10/100MB	949	1115.07

DLINK

DES802 1x10MB, 1x10/100MB	149	175.07
DES805 4x10MB, 1x10/100MB	245	287.87
DES810 8x10MB, 2x10/100MB	275	323.12
DES1004 N-Way 4x10/100MB	295	346.62
DES1008 N-Way 8x10/100MB	485	569.87
DES2208 6x10MB, 2x10/100MB	945	992.87
DES3216 16x10/100MB	1019	1197.32

INTEL

Express 10 Switch 24x10MB	1099	1291.32
Express 10/100 Switch 8x10/100MB	1289	1514.57
Express 510T Switch 24x10/100MB	1449	1702.57
Express 550T Routing Switch 8port	1269	1491.07

INTEL INBUSINESS

SS10T8 8x10MB	279	327.82
SS110T8 8x10MB, 2x10/100MB	409	480.57

Acer

10-Port 10/100 Ethernet Hub

ALH-509u is a mini size Ethernet hub. The hub provides nine (9) 10Base-T ports (RJ-45 connector) for twisted-pair cable connection and one 10Base2 (BNC) port for backbone coaxial cable connection. The hub can be used as stand-alone one, or can be cascaded by BNC cable or twisted pair wire to other hubs.

- Compact design for SOHO network
- Provide network utilisation monitoring function
- 9-port Ethernet hub with one BNC port trunk connection

£39 (£45.82 inc VAT)

8-Port Fast Ethernet Hub

ALH-308 is an 8-port 100 Base-TX Ethernet hub with one crossover 100Mbps port for cascade or up-link purpose. The hub is of 19-inch size and meets the industrial rack mount standard. The hub can be used as a stand-alone one, or can be cascaded by twisted pair wire to another hub.

- Industry design for standard installation
- Meet 100 Base-TX class II repeater specifications and allow for two hub cascading
- LEDs indicate real-time status of Power, Collision, Lik, Activity and Partition

£199 (£233.82 inc VAT)

ALN-315 Wake-On-LAN 10/100Mbps Adaptor Card

ALN-315 is a 10/100Mbps PCI bus adaptor card adopting advanced single chip PHY and Wake-On-LAN function. It is ideal for network PC, desktop PC and server users who need high networking speed/performance, remote waking-up function and power management features, especially in Green PC environment.

- Auto-negotiation function for 10/100Mbps and full duplex mode provided
- Setup program includes a powerful diagnostic software for easy troubleshooting
- Support IBM/intel AMA Wake-On-LAN function
- LED diagnostic indicators monitor link status and traffic activities
- Acer Magic-Probe network monitoring software available
- 5 Year Exchange Warranty

£35 (£41.12 inc VAT)

ALN-310TX Fast Ethernet Adaptor Card

ALN-310TX is a 10/100Mbps PCI bus adaptor card using advanced single-ship PHY (physical layer & transceiver) technology. It is designed for desktop or server system. The adaptor card can operate at 10Mbps or 100Mbps with auto-negotiation function automatically.

- Auto-negotiation function for 10Mbps & 100Mbps
- Single-chip PHY (physical layer & transceiver) technology
- Support full-duplex mode in 10Mbps & 100Mbps
- Setup program includes a powerful diagnostic software for easy troubleshooting
- Provides on-board socket for remote Boot ROM
- LED diagnostic indicators monitor link status and traffic activities
- Acer Magic-Probe network monitoring software available
- 5 Year Exchange Warranty

£23 (£27.02 inc VAT)

Networking

NETWORK ROUTERS

3COM	ex VAT	inc VAT
Officeconnect		
3C410002 Remote 511S Data	349	410.07
3C410007 Remote 521S Data/Voice	429	504.07
3C410012 Remote 531S Data/Voice/WAN	669	786.07
AccessBuilder		
3C400000 Remote Office 600 1port	1499	1761.32
3C400010 Remote Office 600 2port	1995	2344.12
3C400020 Remote Office 700	1699	1996.32

BAY NETGEAR

RT210 ISDN Voice/Data	219	257.32
RH348 ISDN Voice/Data & 4port Hub	249	292.57

CISCO

CPA761 ISDN Data	339	398.32
CPA765 ISDN Data & Voice	385	452.37
CPA771 ISDN Data & 4port	425	499.37
CPA775 ISDN Data & Voice & 4port	565	663.87
CPA1603 ISDN Data	839	985.82

DLINK

DI-106 IP Data/Voice & 6port Hub	209	245.57
DI-300 10/100 IP	259	304.32
DI-300M 10/100 IP/IPX	329	386.57
DI-1132P-11 IP Data	279	327.82
DI-1133PX-11 IP/IPX Data	399	468.82
DI-1133PX-11 V/IP/IPX Data/Voice	459	539.32

INTEL

Internet Station	245	287.87
Espress 8100	349	410.07
Espress 9100	599	703.82
Espress 9201	599	703.82
Espress 9300	599	703.82

RAMP WEBRAMP

M3t	299	351.32
Entre ISDN Data/Voice & 4port Hub	339	398.32

NETWORK TRANSCEIVERS

ALLIED TELESYN	ex VAT	inc VAT
AT-210T AUI-RJ45	25	29.37
AT-MX10S BNC-RJ45	25	29.37

DLINK	ex VAT	inc VAT
DE-851 BNC	19	22.32
DE-852N AUI	49	57.57
DE-854 Fibre	99	116.32
DPE-855 10/100 Fibre	169	198.57



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3C16704 Hub TP4 4port	£39	(£45.82 inc VAT)
3C16703 Hub TP4C 4port & BNC & AUI	£49	(£57.57 inc VAT)
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3C16701 Hub 8/TPC 8port & BNC	£69	(£81.07 inc VAT)
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3C16723 Hub TP400 4port & 100TX	£119	(£139.82 inc VAT)
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3C16721 Hub TP1200 12port & 100TX	£315	(£370.12 inc VAT)

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- For 10BASE-T Ethernet networks
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- 1 OfficeConnect 8-Port Ethernet Hub
- Connecting Cabling & Instructions

4 Port Starter Kit

£89 (£104.57 inc VAT)



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Ever since local area networking began, 3Com™ network interface cards (NIC's) have set the standard for excellence. Broad compatibility, reliability, superior performance, and value make 3Com™ NIC's the most popular LAN Network Interface Cards in the world.

EtherLink® III

3C509B-TP	16-bit ISA RJ45	£35	(£41.12 inc VAT)
3C509B-COMBO	16-bit ISA Combo	£75	(£88.12 inc VAT)

EtherLink® XL

3C900-TP	RJ45-T PCI	£35	(£41.12 inc VAT)
3C900-COMBO	COMBO-T PCI	£75	(£88.12 inc VAT)

EtherLink® LAN PC Card

3CXEM556T	LAN+56k Modem PC Card RJ45 XJACK	£165	(£193.87 inc VAT)
3CXEM556C	LAN+56k Modem PC Card Combo XJACK	£185	(£217.37 inc VAT)

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3C905B-TX	10/100BASE-TX PCI	£55	(£64.62 inc VAT)
3CCFE575	10/100BASE-TX PC Card CardBus	£89	(£104.57 inc VAT)
3CCCFEM556	10/100BASE-TX & 56k Modem PC Card CardBus	£185	(£217.37 inc VAT)
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3C16703 TP4 Combo 4port	49	57.57
3C16704 TP4 4port	39	45.82
3C16710 8TPM 8port	209	245.57
3C16721 TP1200 12port 100TX	315	370.12
3C16722 TP800 8port 100TX	219	257.32
3C16723 TP400 4port 100TX	119	139.82
SuperStack II		
3C16405 Port Switch 40 12port	229	269.07
3C16406 Port Switch 40 24port	399	468.82
3C16450 Port Switch 50 24port	569	668.57
3C16440 Entry Hub 12port	119	139.82
3C16441 Entry Hub 24port	189	222.07
3C16592 Dual Speed 10/100 12port	739	868.32
3C16593 Dual Speed 10/100 24port	1169	1373.57
3C16610 Dual Speed 500 12port	559	656.82
3C16611 Dual Speed 500 24port	849	997.57
3C16670 Hub10 12port	315	370.12
3C16671 Hub10 24port	555	652.12
3C250TX 100TX 12port	495	581.62
3C250TX 100TX 24port	719	844.82

ACER NETXUS	ex VAT	inc VAT
ALH-509 9port	42	49.35
ALH-116 16port	95	111.62
ALH-308 8port 100TX	299	351.32

BAY NETGEAR	ex VAT	inc VAT
SB104 4port Starter Kit PCI	75	88.12
FB104 4port Fast Starter Kit PCI	115	135.12
EN104TP 4port	29	34.07
EN106TP 8port	35	41.12
EN108TP 8port	39	45.82
EN104 4port & BNC	45	52.87
EN108 8port & BNC	59	69.32
EN308 8port & BNC & AUJ	69	81.07
EN116 16port & BNC & AUJ	99	116.32
EN516 16port & BNC & AUJ	109	128.07
EN524 24port & BNC & AUJ	149	175.07
FE104 4port 100TX	69	81.07
FE108 8port 100TX	139	163.32
FE508 8port 100TX Rack	299	351.32
FE516 16port 100TX Rack	539	633.32
DS108 10/100 8port	269	316.07
DS508 8port 10/100MB Rack	325	381.87
DS516 16port 10/100MB Rack	539	633.32

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100S 5port	45	52.87
1009B 8port & BNC	55	64.62
10017A/B 16port & BNC & AUJ	115	135.12
1108 8port 100TX	269	316.07
HB2120 4port 100TX	85	99.87
HB2121 8port 100TX	149	175.07
HB2122 16port 100TX	249	292.57
HB3120 8port 10/100	219	257.32
HB3130 16port 10/100	309	363.07
HB3220 8port 10/100 & Switch	275	323.12
HB3230 16port 10/100 & Switch	439	515.82

DABS	ex VAT	inc VAT
5port	25	29.37
8port	39	45.82
16port	79	92.82
8port 100TX	179	210.32

DLINK	ex VAT	inc VAT
DE805TP 5port	29	34.07
DE905 2 user starter kit	59	69.32
DE809TC 8port & BNC	39	45.82
DE809TP 8port	49	57.57
DE812TP+ 12port	75	88.12
DE816TP 16port	89	104.57
DE824TP 24port	125	146.87
DFF904 4port 10/100	69	81.07
DFF908 8port 10/100	185	217.37
DFF908X 8port 10/100 & 1port Switch	295	346.62
DFF916 16port 10/100	345	405.37
DFF916X 16port 10/100 & 1port Switch	425	499.37

HP	ex VAT	inc VAT
AdvanceStack Hub 8E 8port	99	116.32
AdvanceStack Hub 8U 8port	129	151.57
AdvanceStack Hub 16U 16port	269	316.07
AdvanceStack Hub 24T 24port	569	668.57

INTEL	ex VAT	inc VAT
Express 100 8port	215	252.62
Express 130T 8port 10/100	299	351.32
Express 210 10/100 12port	459	539.32
Express 210 10/100 24port	625	734.37
Express 220 10/100 12port	499	586.32
Express 220 10/100 24port	655	769.62

INTEL INBUSINESS	ex VAT	inc VAT
SH10T5 5port	39	45.82
SH10T8B 8port & BNC	55	64.62
SH100TX4 4port 100TX	115	135.12
SH100TX8 8port 100TX	215	252.62
SH101TX8 8port 10/100	299	351.32



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Realport 10+Modem £185 (€217.37)

CEM56-100BTX £195 (€229.12)

A 10/100 Ethernet adaptor and a 33k6 modem with K56 Flex and onboard DAA shipped as standard. The card is also GSM upgradeable for most GSM phones.

CE3-100BTX £95 (€111.62)

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1Mb x 32 (4MB) 60ns	£6	(7.05)
2Mb x 32 (8MB) 60ns	£8	(9.40)
4Mb x 32 (16MB) 60ns	£12	(14.10)
8Mb x 32 (32MB) 60ns	£22	(25.85)
16Mb x 32 (64MB) 60ns	£79	(92.82)
32Mb x 32 (128MB) 60ns	£Call	(Call)

72pin FPM parity SIMM

1Mb x 36 (4MB) 60ns	£8	(9.40)
2Mb x 36 (8MB) 60ns	£14	(16.45)
4Mb x 36 (16MB) 60ns	£18	(21.15)
8Mb x 36 (32MB) 60ns	£26	(30.55)
16Mb x 36 (64MB) 60ns	£89	(104.57)
32Mb x 36 (128MB) 60ns	£Call	(Call)

168pin FPM or EDO DIMM 5v

2Mb x 64 (16MB) 60ns	£16	(18.80)
4Mb x 64 (32MB) 60ns	£26	(30.55)
8Mb x 64 (64MB) 60ns	£49	(57.57)
16Mb x 64 (128MB) 60ns	£Call	(Call)

168pin EDO DIMM 3.3v

2Mb x 64 (16MB) 60ns	£19	(22.33)
4Mb x 64 (32MB) 60ns	£34	(39.95)
8Mb x 64 (64MB) 60ns	£66	(77.55)
16Mb x 64 (128MB) 60ns	£Call	(Call)

168pin SDRAM DIMM 3.3v

2Mb x 64 (16MB) 10ns	£15	(17.63)
4Mb x 64 (32MB) 10ns	£28	(32.90)
8Mb x 64 (64MB) 10ns	£55	(64.62)
16Mb x 64 (128MB) 10ns	£120	(141.00)

72pin SODIMM EDO 3.3v

8MB 60ns	£15	(17.63)
16MB 60ns	£22	(25.85)
32MB 60ns	£39	(45.82)

144pin SODIMM EDO 3.3v

8MB 60ns	£19	(22.33)
16MB 60ns	£29	(34.07)
32MB 60ns	£39	(45.82)

PC100 DRAM (BX Chipset)

4M x 64 (32MB)	£28	(32.90)
8M x 64 (64MB)	£57	(66.97)
16M x 64 (128MB)	£115	(135.12)

* The price of memory is very volatile, please call to confirm prices *

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3C-900 Combo PCI	55	64.62
3C-905TX 10/100 PCI	45	52.87

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3C-900 Combo PCI	75	88.12
3C-905BTX 10/100 PCI	55	64.62
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3C-574 10/100 PCMCIA	89	104.57
3C-592 Combo EISA	129	151.57
3C-597TX 10/100 EISA	149	175.07
3C-CFEM556 1Q/100 & 56K PCMCIA	185	217.37
3C-XEM556T RJ45 & 56K PCMCIA XJack	165	193.87
3C-XEM556T Combo & 56K PCMCIA XJack	185	217.37

ACER NETXUS	ex VAT	inc VAT
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Combo PCI	12	14.10
10/100 PCI	25	29.37
Combo PCMCIA	45	52.87

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DE-530CT Combo PCI	19	22.32
DFF-500TX 100MHz PCI	29	34.07
DE-620CT Combo Parallel	69	81.07
DE-660CT Combo PCMCIA	45	52.87
DE-650TX 10/100 PCMCIA	85	99.87
DE-660TX 10/100 CardBus PCMCIA	99	116.32

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FA410 10/100 PCMCIA	75	88.12

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Ether Express Pro 10+ Combo PCI	69	81.07
Ether Express Pro 100 WOL PCI	49	57.57
Ether Express Pro 100 ISA	99	116.32
Ether Express Pro 100+ PCI	49	57.57
Ether Express Pro 100 Mobile PCMCIA	89	104.57
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1208BT EZ Card 10 Combo ISA	22	25.85
8416BT EtherEZ Combo ISA PnP	39	45.82
8432BT EtherPower Combo PCI	49	57.57
9432BT EtherPower II 10/100 PCI	45	52.87
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REMOVABLE DRIVES

	Capacity	Interface	Internal	inc vat	External	inc vat
IOMEGA						
Zip	100Mb	EIDE	69	81.07	-	-
Zip	100Mb	SCSI	79	92.82	79	92.82
Zip	100Mb	Parallel	-	-	79	92.82
Jaz 1Gb	1Gb	SCSI	169	198.57	199	233.82
Jaz 2Gb	2Gb	SCSI	249	292.57	249	292.57
SUPERDISK						
LS-120 bare	120Mb	IDE	59	69.32	-	-
LS-120 kit	120Mb	Parallel	-	-	107	125.72
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 JU811T	100Mb	IDE	59	69.32	-	-
SYQUEST						
EZFlyer	230Mb	Parallel	-	-	95	111.62
EZFlyer	230Mb	SCSI	-	-	95	111.62
Syjet	1.5Gb	Parallel	-	-	199	233.82
Syjet	1.5Gb	IDE	199	233.82	-	-
Syjet	1.5Gb	SCSI	199	233.82	199	233.82
SparQ	1Gb	IDE	131	153.92	-	-
SparQ	1Gb	Parallel	-	-	131	153.92

BACKUP DEVICES

	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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NEW Zip Starter Bundle

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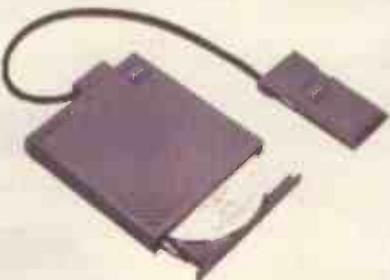
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CASES

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ATX Midi Tower	51	59.92

VASCO

Desktop	59	69.32
Mini Tower	65	76.37
Full Tower	89	104.57
FileServer	645	757.87
ATX Desktop	59	69.32
ATX Midi Tower	79	92.82
ATX Full Tower	89	104.57
ATXFileServer	685	804.87

TERMINALS

WYSE

	ex VAT	inc VAT
WY-35 with keyboard	239	280.82
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WY-65ES	275	323.12
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WY-160ES	299	351.32
WY-185ES with keyboard	275	323.12
WY-325ES	379	445.32
WY-520ES	215	252.62



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WOOFER SYSTEM

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- Active sound system
- Dynamic bass super woofer
- 3-D surround sound
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- Speaker: H130, W95, D110mm

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SCREENBEAT MAXIM 250

- 250 Watts PMPO
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- Full range tone control
- Built In Power supply adaptor
- H 250, W 120, D 160mm

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- 80 Watts PMPO
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- Power supply adaptor inc.
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- Magnetic shielding
- Power supply adaptor inc.
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Versatile DVD Drive... combined with DVD-1 & MPEG-2 & Dolby® Digital (AC3) Output delivers high-definition video, five-channel digital audio, & expansive data retrieval on your PC.

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Please see page 13 for the New Creative Speaker Range

*Sound Blaster PCI 128

The low cost high performance audio solution!

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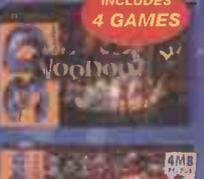
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AMACOM	Interface	Speed	Int/Ext	Exc VAT	Inc VAT
EZCD x24	Parallel	Twenty Four	Ext	125	146.87
EZCD x32	Parallel	Thirty Two	Ext	135	158.62
EZCD Sound x24	Parallel	Twenty Four	Ext	170	199.75
EZCD Sound x32	Parallel	Thirty Two	Ext	180	211.50
EZCD Card x16	PCMCIA	Sixteen	Ext	135	158.62
EZCD Card x24	PCMCIA	Twenty Four	Ext	145	170.37
EZCD Card x32	PCMCIA	Thirty Two	Ext	155	182.12
EZCD Plus x10	PCMCIA	Ten	Ext	160	188.00
EZCD Plus x20	PCMCIA	Twenty	Ext	180	211.50
AOPEN					
CD936E 36	IDE	Thirty Six	Int	34	39.95
CD940E 40	IDE	Forty	Int	42	49.35
ASUSTEK					
CD-S340 34	IDE	Thirty Four	Int	35	41.12
CD-S400 40	IDE	Forty	Int	45	52.87
COMPUTER CONNECTIONS					
Connect 24 (11631)	Parallel/IDE	Twenty Four	Ext	99	116.32
Connect 36 (12565)	Parallel/IDE	Thirty Six	Ext	109	128.07
Connect 24 (11633)	Parallel/SCSI	Twenty Four	Ext	125	146.87
Connect 36 (12566)	Parallel/SCSI	Thirty Six	Ext	135	158.62
CREATIVE LABS					
CR-585B	IDE	Twenty Four	Int	28	32.90
CL 32x	IDE	Thirty Two	Int	31	36.42
Blaster 24x Retail	IDE	Twenty Four	Int	36	42.30
Blaster 32x Retail	IDE	Thirty Two	Int	37	43.47
Blaster DVD	IDE	2x DVD 20x CDROM	Int	84	98.70
PC-DVD Encore DXR2	IDE	2x, 20x + MPEG Card	Int	169	198.57
DABS					
Dabs 24x	IDE	Twenty Four	Int	27	31.72
Dabs 32x	IDE	Thirty Two	Int	29	34.07
GOLDSTAR					
CRD-8320D	IDE	Thirty Two	Int	33	38.77
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	30	35.25
PANASONIC					
CR588	IDE	Thirty Two	Int	33	38.77
CR508	SCSI	Twenty Four	Int	55	64.62
SR8528B DVD-RDM	SCSI	2x DVD, 20x CDROM	Int	95	111.62
LFD101 DVD-RAM	SCSI	1x DVD, 20x CDROM	Int	399	468.82
PHILLIPS					
32x	IDE	Thirty Two	Int	31	36.42
36x	IDE	Thirty Six	Int	35	41.12
DRD-5200 (incls 3 DVD titles)	IDE	2x, 24x+MPEG card	Int	149	175.07
PIONEER					
DRA-32x	IDE	Thirty Two	Int	36	42.30
DRS-32x	SCSI	Thirty Two	Int	53	62.27
DRA-04S Slot loading	IDE	Thirty Two	Int	36	42.30
PLEXTOR					
UltraPlex PX32TSI	SCSI	Thirty Two	Int	79	92.82
UltraPlex PX32CSI	SCSI	Thirty Two	Int	113	132.77
UltraPlex PX32TSE	SCSI	Thirty Two	Ext	117	137.47
SAMSUNG					
SCR-3230	IDE	Thirty Two	Int	32	37.60
TEAC					
CD-524E	IDE	Twenty Four	Int	31	36.42
CD-532E	IDE	Thirty Two	Int	34	39.95
CD-532S	SCSI	Thirty Two	Int	57	66.97
TOSHIBA					
XM6202B	IDE	Thirty Two	Int	34	39.95
XM6201B	SCSI	Thirty Two	Int	57	66.97

CD RECORDABLE & CD REWRITEABLE

Model	Interface	Read/Write Speed	Int/Ext	Software Included	SCSI Card Included	Media	Ex VAT	Inc VAT
COMPUTER CONNECTIONS								
CDRW Satellite 12482	Parallel/IDE	6x 2 x 2x	Int	Yes	N/a	2 CDR, 1 CD-RW	209	245.57
CDRW Satellite 12483	Parallel/SCSI	6x 2 x 2x	Int	Yes	No	2 CDR, 1 CD-RW	229	269.07
CDRW Satellite 12484	Parallel/SCSI	6x 4 x 2x	Int	Yes	No	2 CDR, 1 CD-RW	269	316.07
CDRW Satellite 12486	Parallel/SCSI	6x 2 x 2x	Ext	Yes	No	2 CDR, 1 CD-RW	269	316.07
CDRW Satellite 12487	Parallel/SCSI	6x 4 x 2x	Ext	Yes	No	2 CDR, 1 CD-RW	299	351.32
CDRW Connect 11625	Parallel/IDE	6x 2x 2x	Ext	Yes	N/a	1 CD-RW	259	304.32
CDRW Connect 11626	Parallel/SCSI	6x 2x 2x	Ext	Yes	No	1 CD-RW	269	316.07
CDRW Connect 12027	Parallel/SCSI	6x 4x 2x	Ext	Yes	No	1 CD-RW	339	398.32
COMPRO								
CD-R 7502	SCSI	8x 4x	Int	Yes	No	No	195	229.12
DABS								
CDRW 6221	SCSI	6x 2x 2x	Int	Yes	Yes	No	240	282.00
CDRW 622E	SCSI	6x 2x 2x	Ext	Yes	Yes	No	270	317.25
CDRW 642I	SCSI	6x 4x 2x	Int	Yes	Yes	No	255	299.62
CDRW 642E	SCSI	6x 4x 2x	Ext	Yes	Yes	No	290	340.75
HEWLETT PACKARD								
Surestore 7200i CDRW	IDE	6x 2x 2x	Int	Yes	N/a	1 CD-RW, 1 CDR	185	217.37
Surestore 7200e CDRW	Parallel	6x 2x 2x	Ext	Yes	No	1 CD-RW, 1 CDR	245	287.87
Surestore 8100i CDRW	IDE	24 4x 2x	Int	Yes	N/a	1 CD-RW, 1 CDR	229	269.07
MITSUMI								
CR2801TE)	IDE	8x 2x	Int	Yes	N/a	3 CDR	144	169.20
CR4801TE)	IDE	8x 4x	Int	Yes	N/a	3 CDR	188	220.90
NOMAI								
W15000 Kit	IDE	6x 2x 2x	Int	Yes	N/a	5 CDR	249	292.57
W12200Soft	SCSI	6x 2x 2x	Int	Yes	No	5 CDR	259	304.32
WE2200UK	SCSI	6x 2x 2x	Ext	Yes	No	5 CDR	285	334.87
WE2000UK Kit	SCSI	6x 2x 2x	Ext	Yes	Yes	5 CDR	325	381.87
WE2100UK	Parallel	6x 2x 2x	Ext	Yes	No	5 CDR	315	370.12
PHILIPS								
CDD-3610	IDE	6x 2x 2x	Int	Yes (recording)	n/a	1 CD-RW, 1 CDR	193	226.77
CDD-3600	SCSI	6x 2x 2x	Int	Yes (recording)	n/a	1 CD-RW, 1 CDR	235	276.12
PLEXTOR								
PlexWriter PX-R412Ci	SCSI	12/4w	Int	Yes	No	1 CDR	189	222.07
PlexWriter PX-R412Ce	SCSI	12/4w	Ext	Yes	No	1 CDR	289	339.57
RICOH								
MP-6200A Soft/Media	IDE	6x 2x 2x	Int	Yes (Data)	N/a	1 CD-RW, 5 CDR	220	258.50
MP-6200S Bare	SCSI	6x 2x 2x	Int	Yes (Data)	No	No	210	246.75
MP-6200S Soft/Media	SCSI	6x 2x 2x	Int	Yes	No	1 CD-RW, 5 CDR	220	258.50
MP-6200S Kit	SCSI	6x 2x 2x	Int	Yes	Yes	1 CD-RW, 5 CDR	260	305.50
MP-6200S Bare	SCSI	6x 2x 2x	Ext	Yes (Data)	No	No	250	293.75
MP-6200S Soft/Media	SCSI	6x 2x 2x	Ext	Yes	No	1 CD-RW, 5 CDR	260	305.50
MP-6200S Kit	SCSI	6x 2x 2x	Ext	Yes	Yes	1 CD-RW, 1 CDR	300	352.50
MP-6200S Mac Kit	SCSI	6x 2x 2x	Ext	Yes	No	1 CD-RW, 5 CDR	275	323.12
TEAC								
CDR-55SK	SCSI	12/4w	Int	Yes (recording)	No	1 CDR	255	299.62
TRAXDATA								
CDR-4120PRO	SCSI	12x 4x	Int	Yes (recording)	Yes	2 x CDR	259	304.32
CDR4120ELPRO	SCSI	12x 4x	Int	Yes (recording)	No	2 x CDR	235	276.12
CDE4120ELPRO	SCSI	12x 4x	Ext	Yes (recording)	No	2 x CDR	259	287.87
CDRW2260PLUS	IDE	6x 2x 2x	Int	Yes (recording)	n/a	1 CD-RW, 1 CDR	204	239.70
CDRW2260ELPLUS	IDE	6x 2x 2x	Int	Yes (recording)	n/a	No	179	210.32
CDEW2260PLUS	IDE	6x 2x 2x	Ext	Yes	n/a	1 CD-RW, 1 CDR	275	323.12
CDRW-2260 PRO	SCSI	6x 2x 2x	Int	Yes	Yes	1 CD-RW, 1 CDR	259	304.32
CDRW-2260ELPRO	SCSI	6x 2x 2x	Int	Yes	No	No	195	229.12
CDEW-2260ELPRO	SCSI	6x 2x 2x	Ext	Yes	No	No	260	305.50
CDRW-4260PRO	SCSI	6x 4x 2x	Int	Yes	Yes	1 CD-RW, 1 CDR	310	364.25
CDRW-4260ELPRO	SCSI	6x 4x 2x	Int	Yes	No	No	270	317.25
CDEW-4260ELPRO	SCSI	6x 4x 2x	Ext	Yes	No	No	310	364.25
YAMAHA								
CDRW 2260T Bare	SCSI	6x 2x 2x	Int	No	No	No	205	240.87
CDRW 2260T with S/W	SCSI	6x 2x 2x	Int	Yes	No	No	215	252.62
CDRW 2260T Kit	SCSI	6x 2x 2x	Int	Yes	Yes	No	245	287.87
CDRW 2260TX Bare	SCSI	6x 2x 2x	Ext	No	No	No	230	270.25
CDRW 2260TX with S/W	SCSI	6x 2x 2x	Ext	Yes	No	No	240	282.00
CDRW 2260TX Kit	SCSI	6x 2x 2x	Ext	Yes	Yes	No	275	323.12
CDRW 4260T Bare	SCSI	6x 4x 2x	Int	No	No	No	220	258.50
CDRW 4260T with S/W	SCSI	6x 4x 2x	Int	Yes	No	No	235	276.12
CDRW 4260T Kit	SCSI	6x 4x 2x	Int	Yes	Yes	No	260	305.50
CDRW 4260TX Bare	SCSI	6x 4x 2x	Ext	No	No	No	255	299.62
CDRW 4260TX with S/W	SCSI	6x 4x 2x	Ext	Yes	No	No	275	323.12
CDRW 4260TX Kit	SCSI	6x 4x 2x	Ext	Yes	Yes	No	295	346.62

CD MEDIA

DABS	ex VAT	inc VAT
650Mb CD Recordable x 1	1.80	2.11
650Mb CD Recordable x 10 each	1.50	1.76
650Mb CD Recordable x 100 each	1.25	1.46
650Mb CD ReWritable x 1	10	11.75
650Mb CD ReWritable x 10 each	8.50	9.98
650Mb CD ReWritable x 100 each	8	9.40

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HP SureStore CD-Writer 7200i/e

The HP SureStore CD-Writer 7200 allows you to write, update and rewrite. Create CDs for CD ROM and audio players. Save and share up to 650MB of information worldwide



A complete solution in the box - contains industry leading software for business and home

- Adaptec DirectCD and mastering software
- HP's SimpleTrax software for file tracking and efficient file management
- DocuMagix PaperMaster Live-acquire data from scanners, the www and desktop and store in 'filing cabinets' on CD
- Adobe Photo Deluxe for exciting photographic projects and screen savers
- Use Corel PrintHouse Magic and Multimedia Content to make an impact with your presentations
- Adaptec's Audio CD for creating audio CD's
- Digital Now Photo Album for cataloguing pictures and photos
- Includes Norton AntiVirus, which provides virus-free CD creation and distribution

HP SureStore CD-Writer 7200i Internal EIDE £185 (£217.37 inc VAT)
 HP SureStore CD-Writer 7200e External Parallel £249 (£292.57 inc VAT)

HP SureStore CD-Writer Plus ...the simplest way to make CDs

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)



Create custom CDs of up to 650MB of data or 74min of audio

*Mitsumi CR 4801 TE

8x read, 4x write internal IDE CDRecorder £188 (£220.90 inc VAT)

This Plug and Play CD-Recorder supports all current CD-standards, reading at a speed of 1200 Kbytes per second and comes with a full 12 month warranty.

The drive comes with "Win to Go" by CeQuadrat for developed Microsoft Windows 95 - including Packet CD (incremental Packet Writing, UDF). The package includes: audio and data cables, a multi-language manual, three CDR media, screws, and the music software Mitsumi Music Centre.

*Mitsumi CR 2801 TE

8x read, 2x write internal IDE CDRecorder £144 (£169.20 inc VAT)

*SPECIAL OFFER

CR 4801 TE & CR 2801 TE
FREE CIRCLE SOUND

"Sound processors for virtual 3D sound" while stocks last

Mitsumi FX320 32x CD-ROM Drive £31 (£36.42 inc VAT)

Mitsumi 1.44Mb Floppy Disk Drive £10 (£11.75 inc VAT)

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Mitsumi 105-key Serial/PS/2 Keyboard £10 (£11.75 inc VAT)



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- Incorporates industry standard, very reliable 2.5" Hard Drives
- Built in shock absorbers for extra reliability
- Includes software which offers a comprehensive backup and restore utility as well as data compression software
- Compatible with DOS, Win 3.x, Win 95, Win NT, OS/2, UNIX, Apple Macs



2.1Gb* £282 (£311.35 inc VAT)
 3.2Gb* £350 (£411.25 inc VAT)
 4.0Gb* £450 (£528.75 inc VAT)
 6.4Gb* £554 (£650.95 inc VAT)

*native capacity

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ULTRAPLEX

PX-32TSi internal £79 (£92.82)
 PX-32Csi internal £113 (£132.77)
 PX-32TSe external £117 (£137.47)

The PX-32TSi/Csi/TSe CD-ROM drives, use a highly reliable Caddy or Tray mechanism. The ULTRA-SCSI interface offers you a higher reliability for multimedia applications. Combined with a quick random access time of 85ms, it will increase multi-user and multi-tasking performance.

CD-ROM drives have two years warranty.



PLEXWRITER

PX-R412Ci internal £258 (£303.15)

The Plextor CD-Recorder writes at 4-speed that maximises the ability of a high speed backup. By 12-speed reading, the access time is 190ms, which is one of the highest performances among CD-R drives. Due to a massive buffer of 2MB, a stable writing can be secured.

The CD-Recorder includes a one year warranty.



CD ReWritable Drives



- Record and Re-record your own CDs
- 2X write/rewrite, 6X read
- Packet write supported
- High reliability - dust proof design
- SCSI-II/EIDE Interface available

Ricoh	Interface	Read/Write	Int/Ext	Software Included	SCSI card included	Media	Price
MP-6200A	IDE	6x2x2x	Int	Yes(Data)	N/A	1CDRW,5 CDR	£220 (£258.50)
MP-6200S	SCSI	6x2x2x	Int	Yes(Data)	No	No	£210 (£246.75)
MP-6200S Soft/Media	SCSI	6x2x2x	Int	Yes	No	1CDRW,5 CDR	£220 (£258.50)
MP-6200S Kit	SCSI	6x2x2x	Int	Yes	Yes	1CDRW,5 CDR	£280 (£305.50)
MP-6200S Bare	SCSI	6x2x2x	Ext	Yes(Data)	No	No	£250 (£293.75)
MP-6200S Soft/Media	SCSI	6x2x2x	Ext	Yes	No	1CDRW,5 CDR	£280 (£305.50)
MP-6200S Kit	SCSI	6x2x2x	Ext	Yes	Yes	1CDRW,5 CDR	£300 (£352.50)
MP-6200S Mac Kit	SCSI	6x2x2x	Ext	Yes	No	1CDRW,5 CDR	£275 (£323.12)

All prices in brackets are inclusive of VAT



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NEW PRODUCT - DLT TAPE

TK88 DLT Type IV* £55.00

*(20/40Gb) on 4000 Drive - (35/70Gb) on 7000 Drive

DISCS

650Mb CD-Recordable	£1.25 (£1.46)	2/4Gb	90m	4mm*	DAT	£3.00 (£3.52)
650Mb CD-ReWritable*	£11.25 (£13.21)	4/8Gb	120m	4mm*	DAT	£7.50 (£8.81)
1.44Mb Floppy	£0.25 (£0.29)	12/24Gb	125m	4mm*	DAT	£19.00 (£22.32)
100Mb Zip	£7.50 (£8.81)	1.2Gb	54m	8mm	DAT	£3.00 (£3.52)
230Mb MO	£4.65 (£5.46)	2.3Mb	112m	8mm	DAT	£5.00 (£5.87)
640Mb MO	£17.00 (£19.97)	7Gb	160m	8mm	DAT	£6.00 (£7.05)

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SCSI HARD DISCS

Model	Capacity	Interface	Access Time	Speed	Exc Vat	Inc Vat
FUJITSU						
Allegro 3	4.5Gb 1"	UltraWideSCSI	9ms	7200	275	323.12
Allegro 3	4.5Gb 1"	UltraWideSCSI SCA	9ms	7200	287	337.22
Allegro 3	9.1Gb 1"	UltraWideSCSI	9ms	7200	485	569.87
Allegro 3	9.1Gb 1"	UltraWideSCSI SCA	9ms	7200	485	569.87
Allegro 3	18.2Gb	UltraWideSCSI	9ms	7200	921	1082.17
Allegro 3	18.2Gb	UltraWideSCSI SCA	9ms	7200	921	1082.17
IBM						
Ultrastar 9ES 1"	4.5Gb	UltraSCSI	7.5ms	7200	171	200.92
Ultrastar 9ES 1"	4.5Gb	UltraWideSCSI	7.5ms	7200	179	210.32
Ultrastar 9ES 1"	4.5Gb	UltraWide SCSI SCA	7.5ms	7200	179	210.32
Ultrastar 9ES 1"	9.1Gb	UltraSCSI	7.5ms	7200	309	363.07
Ultrastar 9ES 1"	9.1Gb	UltraWide SCSI	7.5ms	7200	325	381.87
Ultrastar 9ES 1"	9.1Gb	UltraWide SCSI SCA	7.5ms	7200	325	381.87
Ultrastar 9ES 1" LVD	4.5Gb	UltraWideSCSI LVD	7.5ms	7200	188	220.90
Ultrastar 9ES 1" LVD	4.5Gb	UltraWideSCSI SCA LVD	7.5ms	7200	189	222.07
Ultrastar 9ES 1" LVD	9.1Gb	UltraWide SCSI LVD	7.5ms	7200	333	391.27
Ultrastar 9ES 1" LVD	9.1Gb	UltraWideSCSI SCA LVD	7.5ms	7200	333	391.27
Ultrastar 9LP 1"	9.0Gb	UltraSCSI	6.5ms	7200	378	444.15
Ultrastar 9LP 1"	9.0Gb	UltraWideSCSI	6.5ms	7200	378	444.15
Ultrastar 9LP 1"	9.0Gb	UltraWideSCSI SCA	6.5ms	7200	378	444.15
Ultrastar 9LP 1" LVD	9.0Gb	UltraWide SCSI LVD	6.5ms	7200	396	465.30
Ultrastar 9LP 1" LVD	9.0Gb	UltraWideSCSI SCA LVD	6.5ms	7200	396	465.30
Ultrastar 9ZX 1.6"	9.0Gb	UltraWideSCSI	6.3ms	10020	447	525.22
Ultrastar 9ZX 1.6"	9.0Gb	UltraWideSCSI SCA	6.3ms	10020	458	538.15
Ultrastar 18XP 1.6"	18Gb	UltraSCSI	7.5ms	7200	682	801.35
Ultrastar 18XP 1.6"	18Gb	UltraWideSCSI	7.5ms	7200	677	795.47
Ultrastar 18XP 1.6"	18Gb	UltraWide SCSI SCA	7.5ms	7200	685	804.87
Ultrastar 18XP 1.6" LVD	18Gb	UltraWide SCSI LVD	7.5ms	7200	702	824.85
Ultrastar 18XP 1.6" LVD	18Gb	UltraWide SCSI SCA LVD	7.5ms	7200	733	861.27

HARD DISCS



EIDE HARD DISCS

Model	Capacity	Interface	Access Time	Speed	Exc Vat	Inc Vat
FUJITSU						
PicoBird	2.1Gb	EIDE/Ultra DMA	11ms	5400	77	90.47
PicoBird	3.2Gb	EIDE/Ultra DMA	11ms	5400	81	95.17
PicoBird	4.3Gb	EIDE/Ultra DMA	11ms	5400	91	106.92
PicoBird	6.4Gb	EIDE/Ultra DMA	11ms	5400	114	133.95
PicoBird	8.4Gb	EIDE/Ultra DMA	11ms	5400	150	176.25
PicoBird	10.2Gb	EIDE/Ultra DMA	11ms	5400	179	210.32
IBM						
00K4115 Titan 16GP	6.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	111	130.42
00K4101 Titan 16GP	8.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	141	165.67
00K4091 Titan 16GP	10.1Gb	EIDE/Ultra DMA/33	9.5ms	5400	169	198.57
00K4083 Titan 16GP	12.9Gb	EIDE/Ultra DMA/33	9.5ms	5400	228	267.90
00K4073 Titan 16GP	16.8Gb	EIDE/Ultra DMA/33	9.5ms	5400	270	317.25
03L5261 Titan 14GXP	10.1Gb	EIDE/Ultra DMA/33	9.5ms	7200	177	207.97
00K4071 Titan 14GXP	14.4Gb	EIDE/Ultra DMA/33	9.5ms	7200	303	356.02
MAXTOR						
90340D2 Diamond Max 3400	3.4Gb	EIDE/Ultra DMA/33	9ms	5400	82	96.35
90500D4 Diamond Max Plus 2500	5.0Gb	EIDE/Ultra DMA/33	9ms	7200	123	144.52
90680D4 Diamond Max 3400	6.8Gb	EIDE/Ultra DMA/33	9ms	5400	109	128.07
90750D6 Diamond MaxPlus 2500	7.5Gb	EIDE/Ultra DMA/33	9.5ms	7200	151	177.42
91000D8 Diamond MaxPlus 2500	10.0Gb	EIDE/Ultra DMA/33	9.5ms	7200	210	246.75
91020D6 Diamond Max 3400	10.2Gb	EIDE/Ultra DMA/33	9ms	5400	172	202.10
91360D8 Diamond Max 3400	13.6Gb	EIDE/UltraDMA/33	9ms	5400	224	263.20
QUANTUM						
Fireball EL	2.5Gb	EIDE/Ultra DMA ATA	9.5ms	5400	71	83.42
Fireball EL	5.1Gb	EIDE/Ultra DMA ATA	9.5ms	5400	92	108.10
Fireball EL	7.6Gb	EIDE/Ultra DMA ATA	9.5ms	5400	137	160.97
Fireball EL	10.2Gb	EIDE/Ultra DMA ATA	9.5ms	5400	175	205.62
Fireball EX	3.2Gb	EIDE/Ultra DMA ATA	9.5ms	5400	83	97.52
Fireball EX	5.1Gb	EIDE/Ultra DMA ATA	9.5ms	5400	93	109.27
Fireball EX	6.4Gb	EIDE/Ultra DMA ATA	9.5ms	5400	115	135.12
Fireball EX	10.2Gb	EIDE/Ultra DMA ATA	9.5ms	5400	173	203.27
Fireball EX	12.7Gb	EIDE/Ultra DMA ATA	9.5ms	5400	212	249.10
Bigfoot TX	4.0Gb	EIDE/Ultra DMA ATA	12ms	4000	81	95.17
Bigfoot TX	6.0Gb	EIDE/Ultra DMA 33	12ms	4000	100	117.50
Bigfoot TX	8.0Gb	EIDE/Ultra DMA 33	12ms	4000	123	144.52
Bigfoot TX	12.0Gb	EIDE/Ultra DMA 33	12ms	4000	183	215.02

QUANTUM						
Viking II	4.5Gb	UltraWideSCSI LVD	7.5ms	7200	195	229.12
Viking II	4.5Gb	UltraWide SCSI SCA	7.5ms	7200	195	229.12
Viking II	9.1Gb	UltraWide SCSI LVD	7.5ms	7200	331	388.92
Viking II	9.1Gb	UltraWide SCSI SCA	7.5ms	7200	331	388.92
Atlas III	9.1Gb	UltraSCSI	7.5ms	7200	404	474.70
Atlas III	9.1Gb	UltraWide SCSI LVD	7.5ms	7200	404	474.70
Atlas III	9.1Gb	UltraWide SCSI SCA	7.5ms	7200	404	474.70
Atlas III	18.2Gb	UltraSCSI	7.5ms	7200	707	830.72
Atlas III	18.2Gb	UltraWide SCSI LVD	7.5ms	7200	707	830.72
Atlas III	18.2Gb	UltraWide SCSI SCA	7.5ms	7200	707	830.72

SEAGATE						
Medalist Pro ST34520N	4.5Gb	UltraSCSI	14ms	7200	164	192.70
Medalist Pro ST34520W	4.5Gb	UltraWideSCSI	14ms	7200	175	205.62
Medalist Pro ST34520WC	4.5Gb	UltraWideSCSI SCA	14ms	7200	175	205.62
Medalist Pro ST36530N	6.5Gb	UltraSCSI	14ms	7200	243	285.52
Medalist Pro ST36530W	6.5Gb	UltraWideSCSI	14ms	7200	253	297.27
Medalist Pro ST36530WC	6.5Gb	UltraWideSCSI SCA	14ms	7200	243	285.52
Medalist Pro ST39140N	9.1Gb	UltraSCSI	14ms	7200	320	376.00
Medalist Pro ST39140W	9.1Gb	UltraWideSCSI	14ms	7200	320	376.00
Medalist Pro ST39140WC	9.1Gb	UltraWideSCSI SCA	14ms	7200	320	376.00
Barracuda 9LP ST34573N	4.5Gb	Ultra SCSI	7.1/7.8ms	7200	284	333.70
Barracuda 9LP ST34573W	4.5Gb	UltraWideSCSI	7.1/7.8ms	7200	315	370.12
Barracuda 9LP ST34573WC	4.5Gb	UltraWideSCSI SCA	7.1/7.8ms	7200	315	370.12
Barracuda 9LP ST34573LW	4.5Gb	LVD	7.1/7.8ms	7200	326	383.05
Barracuda 9LP ST34573LC	4.5Gb	LVD SCA	7.1/7.8ms	7200	328	385.40
Barracuda 9LP ST34573FC	4.5Gb	Fibre Channel	7.1/7.8ms	7200	343	403.02
Barracuda 9LP ST39173N	9.1Gb	UltraSCSI	7.1/7.8ms	7200	387	454.72
Barracuda 9LP ST39173W	9.1Gb	UltraWideSCSI	7.1/7.8ms	7200	387	454.72
Barracuda 9LP ST39173WC	9.1Gb	UltraWideSCSI SCA	7.1/7.8ms	7200	497	583.97
Barracuda 9LP ST39173WD	9.1Gb	Wide Differential	7.1/7.8ms	7200	443	520.52
Barracuda 9LP ST39173LW	9.1Gb	LVD	7.1/7.8ms	7200	413	485.27
Barracuda 9LP ST39173LC	9.1Gb	LVD SCA	7.1/7.8ms	7200	413	485.27
Barracuda 9LP ST39173FC	9.1Gb	Fibre Channel	7.1/7.8ms	7200	413	485.27
Barracuda 18 ST118273N	18.2Gb	UltraSCSI	7.6/8.3ms	7200	734	862.45
Barracuda 18 ST118273W	18.2Gb	UltraWideSCSI	7.6/8.3ms	7200	734	862.45
Barracuda 18 ST118273WC	18.2Gb	UltraWideSCSI SCA	7.6/8.3ms	7200	734	862.45
Barracuda 18 ST118273WD	18.2Gb	Wide Differential	7.6/8.3ms	7200	782	918.85
Barracuda 18 ST118273LW	18.2Gb	LVD	7.6/8.3ms	7200	748	878.90
Barracuda 18 ST118273LC	18.2Gb	LVD SCA	7.6/8.3ms	7200	748	878.90
Barracuda 18 ST118273FC	18.2Gb	Fibre Channel	7.6/8.3ms	7200	732	860.10
Cheetah 4LP ST34501N	4.5Gb	UltraSCSI	7.5/8.5ms	10000	325	381.87
Cheetah 4LP ST34501W	4.5Gb	UltraWideSCSI	7.5/8.5ms	10000	325	381.87
Cheetah 4LPST34501WC	4.5Gb	UltraWide SCSI SCA	7.5/8.5ms	10000	325	381.87
Cheetah 9LP ST39102LW	9.1Gb	LVD	5.2/6.0ms	10000	474	556.95
Cheetah 9LP ST39102LC	9.1Gb	LVD SCA	5.2/6.0ms	10000	471	553.42
Cheetah 9LP ST39102FC	9.1Gb	Fibre Channel	5.2/6.0ms	10000	462	542.85
Cheetah 18 ST118202LW	18.2Gb	LVD	5.7/6.5ms	10000	473	555.77
Cheetah 18 ST118202LC	18.2Gb	LVD SCA	5.7/6.5ms	10000	472	554.60
Cheetah 18 ST118202FC	18.2Gb	Fibre Channel	5.7/6.5ms	10000	865	1016.37

WESTERN DIGITAL						
Enterprise E4360	4.3Gb	UltraSCSI	8ms	7200	237	278.47
Enterprise E4360	4.3Gb	UltraWideSCSI	8ms	7200	264	310.20
Enterprise E9100	9.1Gb	UltraSCSI	8ms	7200	363	426.52
Enterprise E9100	9.1Gb	UltraWideSCSI	8ms	7200	430	505.25
Enterprise E9100	9.1Gb	UltraWideSCSI SCA	8ms	7200	430	505.25

QUANTUM						
Fireball EL	2.5Gb	EIDE/Ultra DMA ATA	9.5ms	5400	71	83.42
Fireball EL	5.1Gb	EIDE/Ultra DMA ATA	9.5ms	5400	92	108.10
Fireball EL	7.6Gb	EIDE/Ultra DMA ATA	9.5ms	5400	137	160.97
Fireball EL	10.2Gb	EIDE/Ultra DMA ATA	9.5ms	5400	175	205.62
Fireball EX	3.2Gb	EIDE/Ultra DMA ATA	9.5ms	5400	83	97.52
Fireball EX	5.1Gb	EIDE/Ultra DMA ATA	9.5ms	5400	93	109.27
Fireball EX	6.4Gb	EIDE/Ultra DMA ATA	9.5ms	5400	115	135.12
Fireball EX	10.2Gb	EIDE/Ultra DMA ATA	9.5ms	5400	173	203.27
Fireball EX	12.7Gb	EIDE/Ultra DMA ATA	9.5ms	5400	212	249.10
Bigfoot TX	4.0Gb	EIDE/Ultra DMA ATA	12ms	4000	81	95.17
Bigfoot TX	6.0Gb	EIDE/Ultra DMA 33	12ms	4000	100	117.50
Bigfoot TX	8.0Gb	EIDE/Ultra DMA 33	12ms	4000	123	144.52
Bigfoot TX	12.0Gb	EIDE/Ultra DMA 33	12ms	4000	183	215.02
SEAGATE						
Medalist ST32122A	2.1Gb	EIDE/Ultra ATA3 DMA	12ms	4500	75	88.12
Medalist ST33232A	3.2Gb	EIDE/Ultra ATA3 DMA	12ms	4500	80	94.00
Medalist ST33221A	3.2Gb	EIDE/Ultra ATA3 DMA	10.5ms	5400	86	101.05
Medalist ST34321A	4.3Gb	EIDE/Ultra ATA3 DMA	10.5ms	5400	91	106.92
Medalist Pro ST34520A	4.5Gb	EIDE/Ultra ATA3 DMA	9.5/10.5	7200	108	126.90
ST36531A	6.5Gb	EIDE/Ultra ATA3 DMA	10.5	5400	113	132.77
ST36530A	6.5Gb	EIDE/Ultra ATA3 DMA	9.5ms	720		



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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
Medalist ST32122A	2.1Gb	EIDE/Ultra ATA3	12ms	4500	£68	(£79.90)
Medalist ST33232A	3.2Gb	EIDE/Ultra ATA3	12ms	4500	£73	(£95.77)
Medalist ST33221A	3.2Gb	EIDE/Ultra ATA3	10.5ms	5400	£78	(£91.65)
Medalist ST34321A	4.3Gb	EIDE/Ultra ATA3	10.5ms	5400	£83	(£97.52)
Medalist Pro ST34520A	4.5Gb	EIDE/Ultra ATA3	9.5/10.5ms	7200	£98	(£116.15)
Medalist ST36531A	6.5Gb	EIDE/Ultra ATA3	10.5ms	5400	£103	(£121.02)
Medalist Pro ST36530A	6.5Gb	EIDE/Ultra ATA3	9.5ms	7200	£120	(£141.00)
Medalist ST38641A	8.6Gb	EIDE/Ultra ATA3	10.5ms	5400	£134	(£157.45)
Medalist Pro ST39140A	9.1Gb	EIDE/Ultra ATA3	9.5ms	7200	£176	(£206.60)

Prices shown in brackets are inclusive of VAT

The Medalist family of drives are backed by a 3 year limited warranty



Maxtor DiamondMax™

High performance Ultra DMA

Model	Capacity	Interface	Access Time	Speed	Exc Vat	Inc Vat
90288D2	2.8Gb	EIDE/Ultra DMA/33	9ms	5400	70	(£82.25)
90340D2	3.4Gb	EIDE/Ultra DMA/33	9ms	5400	80	(£94.00)
90432D3	4.3Gb	EIDE/Ultra DMA/33	9ms	5400	84	(£98.70)
90576D4	5.7Gb	EIDE/Ultra DMA/33	9ms	5400	94	(£110.45)
90680D4	6.8Gb	EIDE/Ultra DMA/33	9ms	5400	106	(£124.55)
90750D6	7.5Gb	EIDE/Ultra DMA/33	9.5ms	7200	150	(£176.25)
90840D6	8.4Gb	EIDE/Ultra DMA/33	9ms	5400	136	(£159.80)
91000D8	10.0Gb	EIDE/Ultra DMA/33	9.5ms	7200	209	(£245.57)
91020D6	10.2Gb	EIDE/Ultra DMA/33	9ms	5400	171	(£200.92)
91152D8	11.5Gb	EIDE/UltraDMA/33	9ms	5400	191	(£224.42)
91360D8	13.6Gb	EIDE/UltraDMA/33	9ms	5400	226	(£265.55)

No Quibble 3 Year Warranty - Ask for details



Quantum

CAPACITY FOR THE EXTRAORDINARY™

A range of quality hard drives at affordable prices

Model	Capacity	Interface	Access Time	Speed	Exc Vat	Inc Vat
Fireball SE 2100AT	2.1Gb	EIDE/Ultra DMA ATA	9.5ms	5400	£70	(£82.25)
Fireball SE 3200AT	3.2Gb	EIDE/Ultra DMA ATA	9.5ms	5400	£78	(£91.65)
Fireball SE 4300AT	4.3Gb	EIDE/Ultra DMA ATA	9.5ms	5400	£89	(£104.57)
Fireball SE 6400AT	6.4Gb	EIDE/Ultra DMA ATA	9.5ms	5400	£110	(£129.25)
Fireball SE 8400AT	8.4Gb	EIDE/Ultra DMA ATA	9.5ms	5400	£154	(£180.95)
Fireball EL	2.5Gb	EIDE/Ultra DMA ATA	9.5ms	5400	£72	(£84.60)
Fireball EL	5.1Gb	EIDE/Ultra DMA ATA	9.5ms	5400	£92	(£108.10)
Fireball EL	7.6Gb	EIDE/Ultra DMA ATA	9.5ms	5400	£138	(£162.15)
Fireball EL	10.2Gb	EIDE/Ultra DMA ATA	9.5ms	5400	£179	(£210.32)
Bigfoot TX	4.0Gb	EIDE/Ultra DMA ATA	12ms	4000	£79	(£92.82)
Bigfoot TX	6.0Gb	EIDE/Ultra DMA 33	12ms	4000	£99	(£116.32)
Bigfoot TX	8.0Gb	EIDE/Ultra DMA 33	12ms	4000	£124	(£145.70)
Bigfoot TX	12.0Gb	EIDE/Ultra DMA 33	12ms	4000	£179	(£210.32)



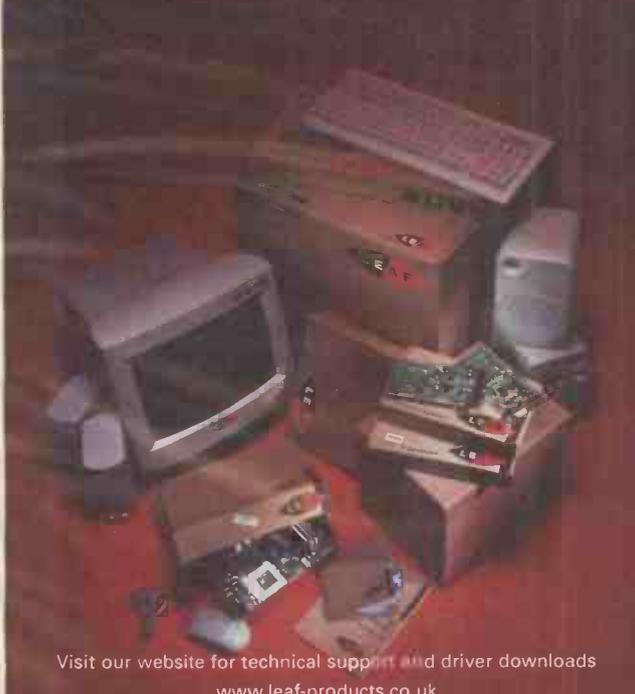
IBM hard disk drives

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Model	Capacity	Interface	Access Time	Speed	Exc Vat	Inc Vat
00K4115 Titan 16GP	6.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	£112	(£131.60)
00K4101 Titan 16GP	8.4Gb	EIDE/Ultra DMA/33	9.5ms	5400	£139	(£163.32)
00K4091 Titan 14GP	10.1Gb	EIDE/Ultra DMA/33	9.5ms	5400	£169	(£198.57)
00K4083 Titan 14GP	12.9Gb	EIDE/Ultra DMA/33	9.5ms	5400	£236	(£277.30)
00K4073 Titan 14GP	16.8Gb	EIDE/Ultra DMA/33	9.5ms	5400	£279	(£327.82)
03L5261 Titan	10.1Gb	EIDE/Ultra DMA/33	9.5ms	7200	£195	(£229.12)
00K4071 Titan	14.4Gb	EIDE/Ultra DMA/33	9.5ms	7299	£315	(£370.12)
Ultrastar 9ES 1"	4.5Gb	UltraSCSI	7.5ms	7200	£171	(£200.92)
Ultrastar 9ES 1"	4.5Gb	UltraWide SCSI	7.5ms	7200	£185	(£217.37)
Ultrastar 9ES 1"	9.1Gb	UltraSCSI	7.5ms	7200	£326	(£383.05)
Ultrastar 9ES 1"	9.1Gb	UltraWideSCSI	7.5ms	7200	£339	(£398.32)



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33.6k Internal Rockwell chipset BABT modem	£25	(£29.37)
56k Internal Rockwell chipset BABT modem	£37	(£43.47)
56k Internal Rockwell chipset BABT modem PCI	£39	(£45.82)
56k External BABT Modem	£52	(£61.10)
56k PCMCIA Modem BABT	£69	(£81.07)

LEAF Sound Cards

16-bit 32 Wavetable 3D Yamaha sound card	£10	(£11.75)
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4Mb S3 Virge DX 64-bit PCI	£25	(£29.37)
4Mb S3 Virge GX-2 64-bit AGP	£27	(£31.72)

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32-bit PCI Combo network card	£16	(£18.80)

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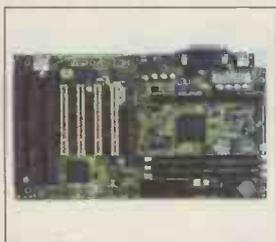
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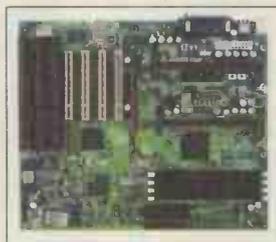


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- 3 DIMM Sockets
- 4 PCI/2 ISA/1 AGP slots
- 2Mb flash BIOS, Plug & Play, APM 1.2, DMI 2.01
- 2 Ultra DMA Bus Master with 33Mb/s burst data transfer rate, supports PI Mode 4, DMA Mode 2 & up to 4 IDE devices and LS-120 optical Floppy
- 1 ECP/EPP Parallel Port, 2 USB Conn., PS/2 Mouse & PS/2 Keyboard
- ACPI 1.0/PC 98 Ready
- PC Health Monitoring
- ATX Form Factor

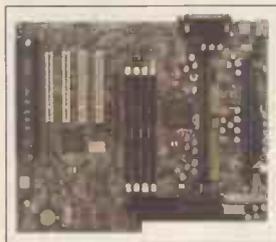


P6DBE Dual Pentium II 440BX

P6 DBE Pentium II 440BX
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P6 DBS Pentium II 440BX
with Adaptec Dual Channel UWSCSI
£293 (£344.27 inc VAT)

- 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



S2DGPU Pentium II 440GX

S2 DGPU Pentium II 440GX
with Adaptec Ultra 2 SCSI
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- Intel 440GX Chipset
- Dual Pentium II XEON Processors
- 4 DIMM Sockets
- Supports up to 2GB SDRAM
- 4 PCI/2 ISA/1 AGP Slots
- Ultra DMA Bus Master with 33Mb/s burst data transfer rate supports PIO Mode 4, DMA Mode 2 and up to 4 EIDE devices
- 1 ECP/EPP Parallel Port, 2 USB Connectors, PS/2 Mouse and PS/2 Keyboard
- Adaptec Dual Channel Ultra 2 (LVD) Wide SCSI
- ACPI Ready/PC98 Ready
- PC Health Monitoring
- ATX Form Factor

P6 DGPU Pentium II 440GX

£Call (£Call inc VAT)

with Adaptec Dual Channel UWSCSI

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- Intel Pentium II 233-450MHz
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- Supports up to 2GB SDRAM
- 5 PCI/2 ISA/1 AGP Slots
- Ultra DMA Bus Master with 33Mb/s burst data transfer rate supports PIO Mode 4, DMA Mode 2 and up to 4 EIDE devices
- 1 ECP/EPP Parallel Port, 2 USB Connectors, PS/2 Mouse and PS/2 Keyboard
- Adaptec Dual Channel Ultra 2 (LVD) Wide SCSI
- ACPI Ready/PC98 Ready
- PC Health Monitoring
- ATX Form Factor

SUPERMICRO

440BX 100MHz

System Bus



P2B Series Mainboard

ASUS P2B Mainboard Series is featured with the latest Intel chipset, the 440BX AGPset, to support a Front Side Bus of 100MHz, which is a 50% increase in system bus performance from 66MHz. ASUS P2B Mainboard Series can support all current Pentium II processors from 233MHz to 400MHz and higher speeds in the future. ASUS P2B Mainboard Series also includes an anti boot-virus (TCAV) BIOS which can protect your system from being infected by boot-type viruses during startup. To build the best performance platform, ASUS also provides optional Ultra2 SCSI onboard solutions built into the latest Adaptec AIC 7890 Ultra2 SCSI controller with memory support up to 1GB for high-end server and workstation use. Ultra2 SCSI bandwidth can deliver up to 80MB/s data transfer rate for those data bandwidth intensive applications, such as video or image editing and 3D applications. Optional onboard 100Mbps Intel 82558 Wake-On-LAN controller is also available to provide fast network connections and transfer. ASUS also delivers the dual Pentium II processor-based mainboards using DIB (Dual Independent Bus) and 100MHz FSB (Front Side Bus) designs that make ASUS P2B-0S the most professional and powerful platform on the market. ASUS P2B Mainboard Series have ACPI compatible BIOS for PC98/Win98 certification to ensure your current investment can meet PC trends for the next century.



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- Ultra DMA/33 IDE
- New Anti Boot Virus BIOS
- Enhanced ACPI BIOS for PC98/Win98
- PC Health Monitoring - CPU & System Fan Alarm/System Voltage Monitoring/ System Overheat Alert/System Intrusion Detection
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- ATX Form Factor

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- Intel 100Mbps LAN (Intel 82558 fast ethernet LAN controller)

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with onboard SCSI

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P6BX-A+ Pentium II 133MHz Bus

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- 233-450MHz Pentium II
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- AGP Slot
- 2x ISA, 5x PCI Slots
- Jumperless CPU Setting
- Modem/LAN Wake Up
- ATX Form factor

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- All CPU's 100-350MHz - AMD K6-2 Compatible
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	Chipset	Memory SIMM, DIMM	Slots PCI/ISA/AGP	Form Factor	with Sound	with VGA	with SCSI	with HW Health Monitoring	Exc Vat	Inc Vat		Chipset	Memory SIMM, DIMM	Slots PCI/ISA/AGP	Form Factor	with Sound	with VGA	with SCSI	with HW Health Monitoring	Exc Vat	Inc Vat				
ABIT																									
AX05	Intel 430TX	4D	4/4/0	ATX	No	No	No	No	37	43.47	P6LX-A+	Intel 440LX	3D	4/3/1	ATX	No	No	No	Yes	76	89.30				
TX5	Intel 430TX	4S/2D	4/3/0	AT	No	No	No	No	48	56.40	P6LX-A	Intel 440LX	4D	4/3/1	ATX	No	No	No	No	82	96.35				
AP5	Aladdin 5 100Mhz	3D	3/2/1	ATX	No	No	No	No	Call	Call	P6LX-A SCSI	Intel 440LX	4D	4/3/1	ATX	No	No	No	Yes	176	206.80				
AH6	Intel 440LX	3D	3/2/1	ATX	No	No	No	No	59	69.32	P6LX2-A SCSI	Intel 440LX	4D	5/2/1 + raid	ATX	No	No	No	Yes	235	276.12				
LX6	Intel 440LX	4D	4/3/1	ATX	No	No	No	No	67	78.72	P6BX-A+	Intel 440BX	3D	5/2/1	ATX	No	No	No	No	95	111.62				
LM6	Intel 440LX	4D	5/2/1	ATX	No	No	No	No	67	78.72	GIGABYTE														
BX6	Intel 440BX	4D	4/3/1	ATX	No	No	No	Yes	88	103.40	GA5AX 100Mhz	ALI M1541	3D	4/3/1	ATX	No	No	No	No	57	66.97				
BH6	Intel 440BX	3D	5/2/1	ATX	No	No	No	No	75	88.12	GA6EX	Intel 440EX	3D	4/3/1	ATX	No	No	No	Yes	75	88.12				
EX6	Intel 440EX	2D	3/2/1	ATX	No	No	No	No	Call	Call	GA6EM	Intel 440EX	2D	2/2/1	MicroATX	No	No	No	No	71	83.42				
AOPEN																									
AX59Pro 512K VIA MVP3 100Mhz	3D, 2S	4/2/1	ATX	No	No	No	No	56	65.80	GA6EMM	Intel 440EX	2D	2/2/1	MicroATX	Yes	Yes	No	No	109	128.07					
AX59Pro 1Mb VIA MVP3 100Mhz	3D, 2S	4/2/1	ATX	No	No	No	No	63	74.02	GA686LX4	Intel 440LX	4D	4/2/1	ATX	No	No	No	Yes	72	84.60					
AX6LC	Intel 440LX	4D	4/3/1	ATX	No	No	No	Yes	69	81.07	GA686BX	Intel 440BX	4D	4/3/1	ATX	No	No	No	Yes	94	110.45				
AX6B	Intel 440BX	4D	4/3/1	ATX	No	No	No	Yes	96	112.80	GA6BA	Intel 440BX	4D	4/2/1	AT	No	No	No	Yes	104	122.20				
AX6B+	Intel 440BX	4D	4/3/1	ATX	No	No	Yes	Yes	133	156.27	GA6BXS	Intel 440BX	4D	4/3/1	ATX	No	No	Yes	Yes	171	200.92				
MX6E+	Intel 440EX	3D	4/2/1	MicroATX	Yes	No	No	Yes	67	78.72	GA6BXDS	Dual Intel 440BX	4D	4/3/1	ATX	Yes	No	Yes	Yes	206	242.05				
ASUSTEK																									
P5A-B	Aladdin 5 100Mhz	3D	3/2/1	AT	Yes	No	No	Yes	61	71.67	Atlanta AL440LX	Intel 440LX	3D	4/2/1	ATX	No	No	No	Yes	80	94.00				
P5A	Aladdin 5 100Mhz	3D	3/2/1	ATX	Yes	No	No	Yes	68	79.90	Atlanta AL440LX	Intel 440LX	3D	4/2/1	ATX	Yes	No	No	Yes	90	105.75				
P2E-B	Intel 440 EX	2D	3/2/1	AT	No	No	No	Yes	69	81.07	SE440BX	Intel 440BX	3D	4/2/1	ATX	No	No	No	Yes	93	109.27				
P2E-M	Intel 440EX	2D	2/2/1	MicroATX	No	No	No	Yes	73	85.77	SE440BX	Intel 440BX	3D	4/2/1	ATX	Yes	No	No	Yes	105	123.37				
P2E-VJ	Intel 440EX	2D	3/2/1	MicroATX	Yes	Yes	Yes	Yes	128	150.40	MU440EX	Intel 440EX	2D	2/2/0	ATX	Yes	Yes	No	Yes	89	104.57				
P2L97	Intel 440LX	3D	5/2/1	ATX	No	No	No	Yes	76	89.30	MICROSTAR														
P2L97-S	Intel 440LX	3D	4/2/1	ATX	No	No	Yes	Yes	134	157.45	MS-5169 100Mhz	Ali M1531	3D	4/3/1	ATX	No	No	No	No	56	65.80				
P2L97-DS	Dual Intel 440LX	4D	4/2/1	ATX	No	No	Yes	Yes	215	252.62	Excellent I	Intel 440EX	2D	3/3/1	ATX	No	No	No	No	62	72.85				
P2L97-A	Intel 440LX	3D	4/2/Onboard	AGP ATX	No	Yes	No	No	125	146.87	Legend V	Intel 440LX	3D	4/3/1	ATX	No	No	No	No	68	79.90				
P2L-B	Intel 440LX	3D	3/2/1	AT	No	No	No	Yes	73	85.77	Brilliant I	Intel 440BX	3D	4/3/1	ATX	No	No	No	No	91	106.92				
P2B	Intel 440BX	3D	4/3/1	ATX	No	No	No	Yes	105	123.37	Brilliant IV	Dual Intel 440BX	4D	4/2/1	ATX	No	No	Yes	No	312	366.60				
P2B-S	Intel 440BX	4D	4/2/1	ATX	No	No	Yes	Yes	194	227.95	SMICRO														
P2B-DS	Dual Intel 440BX	4D	4/2/1	ATX	No	No	Yes	Yes	284	333.70	P5MMA98	Intel 430TX	2D	4/4/0	AT	No	No	No	Yes	68	79.90				
P2B-LS	Dual Intel 440BX	4D	4/2/1	ATX	No	No	Yes	Yes	225	264.37	P5MMS98	Intel 430TX	2D	4/4/0	AT	No	No	No	Yes	68	79.90				
CHIAINTECH All Motherboards include PC-Cillin Anti-Virus Software																									
5SIM	SIS	2S, 2D	4/3/0	AT	No	No	No	No	47	55.22	P6SLA	Intel 440LX	3D	4/3/1	ATX	No	No	No	Yes	71	83.42				
5TDM2	Intel 430TX	4S, 2D	4/4/0	AT	No	No	No	No	60	70.50	P6DLE	Dual Intel 440LX	4D	4/3/1	ATX	No	No	No	Yes	196	230.30				
5TTL	Intel 430TX	3D	4/4/0	ATX	No	No	No	No	60	70.50	P6DLS	Dual Intel 440LX	4D	4/3/1	ATX	No	No	Yes	Yes	281	330.17				
6ESA	Intel 440EX	2D	2/2/1	MicroATX	Yes	No	No	No	Call	Call	P6SBA	Intel 440BX	3D	4/3/1	ATX	No	No	No	Yes	90	105.75				
6LTM2	Intel 440 LX	3D	4/2/1	ATX	No	No	No	Yes	79	92.82	P6SBS	Intel 440BX	3D	4/3/1	ATX	No	No	Yes	Yes	200	235.00				
6LTM	Intel 440LX	3D	4/3/1	ATX	No	No	No	Yes	92	108.10	P6DBE	Dual Intel 440BX	4D	4/3/1	ATX	No	No	No	Yes	187	219.72				
6BTM	Intel 440BX	4D	4/3/1	ATX	No	No	No	Yes	97	113.97	P6DBS	Dual Intel 440BX	4D	4/3/1	ATX	No	No	Yes	Yes	293	344.27				
ELITE																									
P5SD-B+ Supersocket 7 112Mhz	4S, 2D	4/2/1	AT	No	No	No	No	No	60	70.50	P6DGDual	Intel 440GX Slot I	4D	5/2/1	ATX	No	No	Yes	Yes	474	556.95				
P5SD-A	SIS 5591/95	4S, 2D	3/3/1	ATX	No	No	No	No	63	74.02	S2DGRDual	Intel 440GX Slot II	4D	4/2/1	ATX	No	No	Yes	Yes	598	702.65				

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K6 MMX 300Mhz			66	77.55	Intel® Celeron™ processor 300Mhz			76	89.30
K6 Heatsink and Fan			3	3.25	Intel® Pentium® II processor 266Mhz			112	131.60
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K6-2® 333Mhz with 3DNow!™ Technology			140	164.50	Intel® Pentium® II processor 333Mhz			213	250.27
K6-2® 350Mhz with 3DNow!™ Technology			159	186.82	Intel® Pentium® II processor 350Mhz			283	332.52
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 - Supports Ultra DMA/33 IDE protocol
 - Supports Advanced Configuration and Power Management Interface (ACPI)
 - Supports AGP 66MHz/133MHz (Sideband) 3.3v device
- Memory (DRAM)**
- Four 168-pin DIMM sockets support SDRAM module
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- Chipset**
- Intel 440LX chipset (82443LX and 82371AB)
 - Supports Ultra DMA/33 IDE protocol/ACPI ready
 - Supports AGP 66MHz/133MHz Sideband 3.3v device
- Memory (DRAM)**
- Four 168-pin DIMM sockets for 3.3v unbuffered DRAM modules
 - DIMM sockets support SDRAM, EDO DRAM
 - Supports up to 512MB
 - ECC support
- System BIOS**
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- Audio Systems**
- CPU SOFT MENU™ II jumperless technology
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- Multi I/O Functions**
- One floppy Port connector supporting up to 2.88MB floppy drive
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 - Two built-in USB ports connectors
- Miscellaneous**
- ATX form factor
 - One AGP slot, Five PCI slots and Two ISA slots

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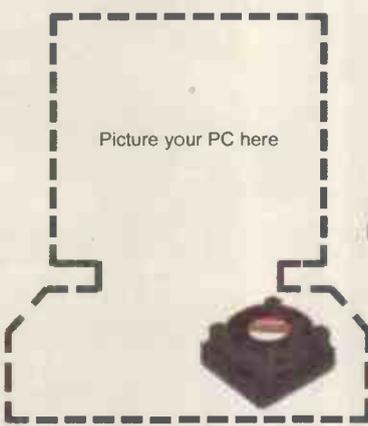
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*System requirements of Windows 98: 486 DX2/66, 16 MB RAM memory. **5-Pack includes 5 Upgrade Modules, 5 Install Disks (376) or 1 Utility Disk (242), 1 Installation Guide, 1 Removal Tool (242).

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CSW-20 20W	12	14.10
CSW-50 50W	24	28.20
CSW-100 100W PC Works	39	45.82
CSW-200 200W Sound Works	69	81.07
CSW-350 350W Micro Works	115	135.12

LABTEC	ex VAT	inc VAT
LCS-1020 10W	25	29.37
LCS-2408 14W Subwoofer	35	41.12
LCS-1224 10W 3D	49	57.57
LCS-3210 20W 3D	50	58.75
LCS-2612 20W 3D & Subwoofer	65	76.37

LOGIC 3	ex VAT	inc VAT
Maxim 20 30W	9	10.57
Maxim 60 60W	20	23.50
Maxim 120 120W	30	35.25
Headphone & Microphone	6	7.05

YAMAHA	ex VAT	inc VAT
YST-M15 10W	39	45.82
YST-M20DSP 10W	45	52.87
YST-M25DSP 10W + 15W Subwoofer	55	64.62
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- Two USB ports on board
- Provides full memory size DRAM cacheability
- Double-height I/O connector for rapid system installation
- Hardware design meets Microsoft PC98 requirements
- Supports SB-link header for Creative PCI audio



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- Double-height I/O connector for rapid system installation
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- Supports SB-link header for Creative PCI audio
- Supports Wake-on-LAN function to simplify network management even in off-hours

Model	Chipset	Memory	PCI/ISA/AGP	Form Factor	Sound	VGA	SCSI	Price
5SIM	SIS	2 DIMM, 2 SIMM	4/3/0	AT	No	No	No	£40 (€47)
5TDM2	Intel 430TX	2 DIMM, 4 SIMM	4/4/0	AT	No	No	No	£60 (€70.50)
5TTL	Intel 430TX	3 DIMM	4/4/0	ATX	No	No	No	£60 (€70.50)
6ESA	Intel 440EX	2 DIMM	2/2/1	Micro ATX	Yes	No	No	£69 (€81.07)
6LTM2	Intel 440LX	3 DIMM	4/2/1	ATX	No	No	No	£65 (€76.37)
6BTM	Intel 440BX	4 DIMM	4/3/1	ATX	No	No	No	£89 (€104.57)

Prices shown in brackets are inclusive of VAT

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M II™ - 300	£Call	(£Call)
M II™ - 333	£Call	(£Call)



Ziff-Davies® Winstone® 98 for Windows® 95

Cyrix M II™ - 300 processor
 Pentium® II processor, 300 MHz

0	5	10	15	20
Source: Cyrix Corporation. Configuration for M II™ - 300 processor-based system: ASUS SP97-XV motherboard; 32MB RAM, 512K RAM cache; 3.2GB hard disk with ULTRA DMA IDE controller, FAT 32 file system, and no hardware disk cache; Diamond Viper V330 (Turbo) Graphic adapter with 4MB SDRAM, VP0025P DRV version 4.10.01.0015 driver; 1024 x 768 pixels with 16 million colors, refresh at 75Hz.				

Configuration for the 300 MHz Pentium® II processor-based system: ASUS P2L97 motherboard; 32MB RAM, 512K RAM cache; 3.2GB hard disk with ULTRA DMA IDE controller, FAT 32 file system, and no hardware disk cache; Diamond Viper V330 (Turbo) Graphics adapter with 4MB SDRAM, VP0025P DRV version 4.10.01.005 driver; 1024 x 768 pixels with 16 million colors, refresh at 75Hz.

*Megahertz-equivalent performance level. Based upon industry-standard benchmark comparisons to the Pentium® II processor when tested in equivalently configured computer systems. For further information on the performance of Cyrix processors, please visit the Cyrix Web site at www.cyrix.com

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PC Home
September 1998



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- DVD-quality full-screen, full-motion video
- Floating point set up engine, up to 1.2 million triangles per second
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- 4Kb on-chip texture cache
- Microsoft certified drivers



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OEM PCI	4Mb	£49 (£57.57)	8Mb PCI	£65 (£76.37)
Retail PCI	4Mb SGRAM	£69 (£81.07)	8Mb SGRAM	£85 (£99.87)



XPERT@Work

PC Magazine
Editors Choice
April 1998



XPERT@Work is the most powerful graphics acceleration for corporate and small business.

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OEM AGP	4Mb	£43 (£50.52)	8Mb AGP	£59 (£69.32)
OEM PCI	4Mb	£39 (£45.82)	8Mb PCI	£55 (£64.62)
Retail PCI	4Mb SGRAM	£59 (£69.32)	8Mb SGRAM	£75 (£88.12)

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The Primio PCI Card gives you TV and teletext on your PC's monitor. It will also display video from your VCR, camcorder etc. With its high quality video digitiser, live video is digitised and displayed in a resizeable window on the PC screen. You can also upgrade with the optional CCD camera and software for Video Conferencing and Security uses.

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TV Tuner	53	62.27
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TV/Teletext PCI	49	57.57
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WinTV Primio PCI	59	69.32
WinTV PCI NICAM	76	89.30
WinTV Radio PCI NICAM	93	109.27
WinTV Cinema Pro	199	233.82
Video Wizard	127	149.22
MATROX		
Rainbow Runner TV Tuner	69	81.07
Mystique Rainbow Runner Studio	105	123.37
MIRO		
miroMEDIA PCTV PCI	49	57.57
Video Director Studio 200	159	186.82
miroVIDEO DC10	179	210.32
miroVIDEO DC30	399	486.82
miroVIDEO DV300	529	621.57
miroVIDEO DC30 Plus	619	737.32
SIGMA		
Hollywood Plus	119	139.82
TYPHOON		
TV/Teletext PCI	55	64.62
Video Capture PCI	69	81.07
VIDEOLOGIC		
Captivator PCI	49	57.57
Captivator PCI/VC	149	175.07

	Memory/Type	Chipset	RAMDAC	Ex VAT	Inc VAT	Ex VAT	Inc VAT
ATI				PCI		AGP	
Xpert@Work DEM	4MB SGRAM	Rage Pro	230Mhz	39	45.82	43	50.52
Xpert@Work OEM	8MB SGRAM	Rage Pro	230Mhz	55	64.62	59	69.32
Xpert@Play OEM	4MB SGRAM	Rage Pro	230Mhz	49	57.57	53	62.27
Xpert@Play OEM	8MB SGRAM	Rage Pro	230Mhz	65	76.37	69	81.07
All In Wonder Pro DEM	4MB SGRAM	Rage Pro	230Mhz	94	110.37	98	115.15
All In Wonder Pro OEM	8MB SGRAM	Rage Pro	230Mhz	109	128.07	113	132.77
Xpert@Work	4MB SGRAM	Rage Pro	230Mhz	59	69.32	-	-
Xpert@Work	8MB SGRAM	Rage Pro	230Mhz	75	88.12	-	-
All In Wonder Pro	4MB SGRAM	Rage Pro	230Mhz	105	123.37	-	-
All In Wonder Pro	8MB SGRAM	Rage Pro	230Mhz	121	142.17	-	-
Xpert 98 OEM	8MB SGRAM	Rage Pro	250Mhz	-	-	39	45.82
3D Charger	2MB EDO	Rage 2	175Mhz	20	23.50	20	23.50
3D Charger	4MB EDO	Rage 2	175Mhz	25	29.37	25	29.37
CREATIVE LABS							
Graphics Blaster Extreme	SGRAM	3D Labs Peramedia 2	230Mhz	59	69.32	-	-
3D Blaster Voodoo II	8MB EDO DRAM	3DFX Voodoo2	-	129	151.57	-	-
3D Blaster Voodoo II	12MB EDO DRAM	3DFX Voodoo2	-	152	178.60	-	-
DABS							
S3 Trio64V + 765	2MB EDO DRAM	S3 Trio 64V+	135Mhz	23	27.02	-	-
S3 Virge DX	4MB EDO DRAM	S3 Virge DX	170Mhz	39	45.82	-	-
S3 Virge GX-2	4MB	S3 Virge GX-2	-	-	-	39	45.82
Cirrus Logic 5465	4MB	CL 5465	-	-	-	39	45.82
3Dfx	4MB EDO DRAM	3DFX Voodoo 3D	-	79	92.82	-	-
DIAMOND							
Stealth II S220	4MB	-	-	39	45.80	-	-
Viper V330	4MB SGRAM	Nvidia Riva 128	230Mhz	49	57.57	49	57.57
Viper V550	8MB	Riva TNT	250Mhz	-	-	Call	Call
Viper V550	16MB	Riva TNT	250Mhz	-	-	Call	Call
Fire GL 1800 Pro	8MB SGRAM	3D Labs Peramedia 2	230Mhz	79	92.80	89	104.57
Monster 3D DEM	4MB EDO DRAM	3DFX Voodoo 3D	-	49	57.57	-	-
Monster 3D II X100	8MB EDO DRAM	3DFX Voodoo2	-	119	139.82	-	-
Monster 3D II X200	12MB EDO DRAM	3DFX Voodoo2	-	149	175.07	-	-
Stealth G460	8MB SDRAM	Intel 740	203Mhz	49	57.57	-	-
HERCULES							
Terminator 3D DX	4MB EDO	Virge DX	170Mhz	39	45.82	-	-
Terminator 2XI	8MB SGRAM	Intel 740i	220Mhz	-	-	69	81.07
Terminator 128 GLH	4MB SGRAM	Trio 3D	230Mhz	-	-	59	69.32
Dynamite 3D/GL	4MB SGRAM	3D Labs Peramedia 2	250Mhz	79	92.82	79	92.82
Dynamite 3D/GL	8MB SGRAM	3D Labs Peramedia 2	250Mhz	99	116.32	99	116.32
Stingray II	12MB SGRAM	3DFX Voodoo2	-	Call	Call	-	-

VIDEO CARDS

	Memory/Type	Chipset	RAMDAC	Ex VAT	Inc VAT	Ex VAT	Inc
MATROX				PCI		AGP	
M3d	4MB SDRAM	NEC Power VR2	-	29	34.07	-	-
Productiva G100	8MB SDRAM	G100	230Mhz	-	-	55	64.62
Productiva G100 OEM	4MB SDRAM	G100	230Mhz	-	-	29	34.07
Productiva G100 DEM	8MB SDRAM	G100	230Mhz	-	-	46	54.05
Millennium G200	8MB SGRAM	G200	250Mhz	-	-	89	104.57
Mystique G200	8MB SDRAM	G200	230Mhz	-	-	110	129.25
ORCHID							
Righteous 3D	4MB EDO DRAM	3DFX Voodoo 3D	-	68	79.90	-	-
Righteous 3D II	8MB EDO DRAM	3DFX Voodoo 2	-	159	186.82	-	-
Righteous 3D II	12MB EDO DRAM	3DFX Voodoo 2	-	189	222.07	-	-
PINE							
S3 Trio64V+765	1MB EDO DRAM	S3Trio64V+	135Mhz	16	18.80	-	-
S3 Trio64V+765	2MB EDO DRAM	S3Trio64V+	135Mhz	20	23.50	-	-
Mega 3D	2MB EDO DRAM	Cirrus Logic Laguna	-	35	41.12	-	-
Mega 3D	4MB EDO DRAM	Cirrus Logic Laguna	-	45	52.87	-	-
STB							
Nitro 3D OEM	2MB VRAM	S3 Virge GX	135Mhz	45	52.87	-	-
Nitro 3D OEM	4MB VRAM	S3 Virge GX	135Mhz	53	62.27	-	-
Velocity 128	4MB SGRAM	Nvidia Riva 128	230Mhz	85	99.87	-	-
BlackMagic 3D Voodoo 2	12MB EDO RAM	3DFX Voodoo 2	135Mhz	159	186.82	-	-
Nitro DVD	4MB RAMBUS DRAM	Mpact 2	230Mhz	-	-	75	88.12
TECHWORKS							
Powder 3D II OEM	8MB SGRAM	3DFX Voodoo 2	-	89	104.57	-	-
Powder 3D II OEM	12MB SGRAM	3DFX Voodoo 2	-	99	116.32	-	-
VIDEOLOGIC							
GrafixStar 410	2MB EDO DRAM	S3 Trio64V2	135Mhz	25	29.37	-	-
GrafixStar 560 Pro	4MB EDO DRAM	Cirrus Logic Laguna	-	35	41.12	35	41.12
GrafixStar 600 Pro	2MB MDRAM	Tseng Labs ET6000	135Mhz	48	56.40	-	-
Apocalypse 3Dx Value Pack	4MB SDRAM	NEC Power VR2	-	36	42.30	-	-
Apocalypse 3Dx	4MB SDRAM	NEC Power VR2	-	51	59.92	-	-
Apocalypse 5D	6MB	ET6100 + Power VR2	-	59	69.32	-	-
Apocalypse 5D	8MB	ET6100 + Power VR2	-	79	92.82	-	-
Apocalypse 5D Sonic	8MB	ET6100 + Power VR2 + Sound	-	79	92.82	-	-
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only £575 (€675.62)

TXA3601GT

36cm (14.1") TFT Colour LCD Monitor

- High brightness, high contrast flat panel Liquid Crystal Display
- 1024 x 768 (XGA) display resolution
- 262,144 unlimited colours
- No geometric display distortion, misfocus or misconvergence
- Space saving, lightweight design
- No radiation, unaffected by external magnetic fields



VM-400 £299 (£351.32)

- 17" 0.28mm FST
- Up to 1280x1024 NI@80Hz
- On-Screen Display Menu
- Colour Balance Control



VM-Pro400 £315 (£370.12)

- 17" 0.25mm DiamondTron
- Up to 1600x1200 NI@75Hz
- On-Screen Display Menu
- Colour Balance Control



VM-502 £765 (£898.87)

- 21" 0.27mm Enhanced dp FST
- 1800x1440 @ 75Hz
- On-Screen Display Menu
- All CE Ergonomic, safety and environmental approvals



VM-350 £149 (£175.07)

- 15" 0.28mm FST
- Up to 1024x768@85Hz
- Digital Control and On-Screen Display Menu



VM-Pro502 £789 (£927.07)

- 21" 0.28mm AG DiamondTron
- 1800x1440 @ 75Hz
- On-Screen Display Menu
- All CE Ergonomic, safety and environmental approvals



VM-450 £439 (£515.82)

- 19" 0.26mm FST
- Up to 1280 x 1024 @100Hz NI
- On-Screen Display Menu
- All CE Ergonomic, safety and environmental approvals

All Niyama 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

ViewSonic® Monitors for Price and Performance

Widest range of products in Europe from any single manufacturer



ViewSonic®

The Display Technology Company™



PT813 5/98

GT775 1/98

GT775 12/97

ViewSonic GS771

- 17" Short Depth design with 14" footprint (16" Viewable area)
- 0.27mm dot pitch
- 1024 x 786 @ 87Hz
- Plug & Play
- TCO '95

£249 (£292.57 inc VAT)

ViewSonic GA655

- 15" Flat screen monitor (14" Viewable area)
- 0.27mm dot pitch
- 1280 x 1024 @ 66Hz
- OnView Controls
- Plug & Play
- TCO '95

£185 (£217.37 inc VAT)

ViewSonic VP150

- 15" LCD ViewPanel
- 1024 x 768 @ 75Hz
- Slimline monitor
- Long life back light
- Plug & Play
- TCO '95

£845 (£992.87 inc VAT)

3 Year "Express Exchange" warranty available on all new ViewSonic monitors, excluding ViewSonic's Optiquest® product range, presentation and LCD ranges. Limited to the UK mainland, the 24 hour service is available in most areas.

All trademarks are property of ViewSonic registered in the USA and other countries

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LG MULTI-MEDIA RANGE

Nobody is further ahead in IT than LG. £1.5m is spent every day on R&D and £2bn is being invested in a manufacturing plant in Wales, ensuring LG Electronics' position as a leading player in a very exciting digital future.

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 PHENOM

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-sync support up to 1024x768 @ 75Hz

£299



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

£179



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

£299



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

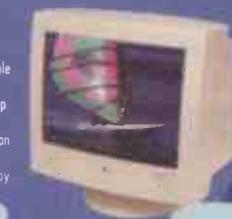
£299



SW78FT

- 17" (16" viewable) screen
- 99.9% Flat Screen for no distortion
- Fine 0.24mm Stripe Pitch with Double Focus Circuitry
- Multi-sync support from 640x480 up to 1600x1200 @ 66Hz
- Maximum VESA flicker-free resolution of 1280x1024 @ 85Hz
- Digital controls with on screen display

£299



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

£199

All monitors come with a 3 year on-site, swap-out warranty.

*TCO '95 on all monitors except SW57i.

HANDHELD PC



PHENOM H-120S HANDHELD PC

- Windows CE 2.0 operating system inc. Pocket Word, Excel, PowerPoint Viewer, Explorer & Schedule
- Extra wide LCD screen & large keyboard
- In built VGA for full colour PowerPoint presentations
- 8MB RAM & 16MB ROM inc. Pre-loaded software
- Type II PCMCIA & compact flash expansion slots

£349 (£410.07 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

£119 (£139.82 INC VAT)



DVD & CD ROMS



DRD-820B Double Speed DVD-ROM Drive

- Plays all DVD-ROM Discs including MPEG2 discs with MPEG2 decoder card
- Single & dual Layer Support in DVD Mode
- Backwardly Compatible with CD-ROM, CD-R & CD-RW
- 2x Speed DVD-ROM Data Transfer (2.7MB/sec)
- 24x Speed CD-ROM Data Transfer (3.6MB/sec Max)

£77 (£90.47 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

£33 (£38.77 INC VAT)



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- ✓ Over £50m annual turnover
- ✓ Over 200,000 satisfied customers
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MicroScan G Range

Designed for more demanding graphics professional. The MicroScan G range couples excellent graphics performance with superb functionality. MicroScan G Range comes with 3yr on site swap out warranty.

 <p>MicroScan 5G</p> <ul style="list-style-type: none"> • 17" FST, 0.26mm • 1600 x 1200 @ 75Hz • TCO'95 approval <p>£255 (€299.62)</p>	<p>MicroScan 5GT</p> <ul style="list-style-type: none"> • 17" Sony Trinitron CRT, 0.25mm • 1600 x 1200 @ 75Hz • TCO'95 approval <p>£279 (€327.82)</p>	<p>MicroScan 6G</p> <ul style="list-style-type: none"> • 21" FST, 0.28mm • 1600 x 1200 @ 75Hz • TCO'95 approval <p>£549 (€645.07)</p>
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MicroScan P Range

This range, targeted at the high intensity professional user, covers from 15" through to 19". All models feature a more advanced OSD for image adjustment. MicroScan P Range comes with 3yr on site swap out warranty.

 <p>MicroScan 4P</p> <ul style="list-style-type: none"> • 15" FST, 0.28mm • 1280 x 1024 @ 60Hz • Integral Mic., Speaker option <p>£115 (€135.12)</p>	<p>MicroScan 5P</p> <ul style="list-style-type: none"> • 17" FST, 0.28mm • 1280 x 1024 @ 60Hz • Integral Mic., Speaker option <p>£189 (€222.07)</p>	<p>MicroScan 6P</p> <ul style="list-style-type: none"> • 19" FST, 0.26mm • 1600 x 1200 @ 75Hz • TCO'95 approval • Integral Mic. and USB Hub, Speaker option <p>£369 (€433.57)</p>
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Provista Range

Aimed at the entry level of the market the ProVista range provide excellent performance at very aggressive pricing - the ideal monitor for the Small Office/Home Office. Provista Range comes with 3yr warranty, 2yrs on site, 1yr RTB.

 <p>ProVista V30</p> <ul style="list-style-type: none"> • 14" conv., 0.28mm • 1024 x 768 @ 60 Hz • Analogue Image Controls <p>£79 (€92.82)</p>	<p>ProVista E33</p> <ul style="list-style-type: none"> • 14" conv. 0.28mm • 1024 x 768 @ 60Hz • Digital Image Controls <p>£89 (€104.57)</p>	<p>ProVista E44</p> <ul style="list-style-type: none"> • 15" FST, 0.28mm • 1280 X 1024 @ 60Hz • Digital Image Controls <p>£99 (€116.32)</p>
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Prices in brackets are inclusive of VAT




 <p>449Xa Plus</p> <ul style="list-style-type: none"> • 15" Trinitron 0.25mm CRT • Up to 1024 x 768 @ 86Hz • Advanced On-Screen Menu • Integrated Speakers • TCO95 Approved <p>£185 (€217.31)</p>	 <p>447Za</p> <ul style="list-style-type: none"> • 17" High Contrast 0.27mm FST • Up to 1024 x 768 @ 90Hz • Built-in 5 watt stereo speakers • Built-in Bi-directional microphone • TCO95 Approved <p>£279 (€327.83)</p>	 <p>447Xpro</p> <ul style="list-style-type: none"> • 17" Trinitron 0.25mm CRT • Up to 1600 x 1200 @ 76Hz • On-Screen Menu with Navi™ key • Dynamic Focus System • TCO95 Approved <p>£339 (€398.32)</p>
 <p>446XS</p> <ul style="list-style-type: none"> • 19" High Contrast 0.25mm FST • New Shortneck Technology • Up to 1600 x 1200 @ 75Hz • On-Screen Menu with Navi™ key • TCO95 Approved <p>£469 (€551.08)</p>	 <p>446XPro</p> <ul style="list-style-type: none"> • 19" High Contrast 0.26mm FST • Up to 1600 x 1200 @ 85Hz • On-Screen Menu with Navi™ key • Dynamic Focus System • TCO95 Approved <p>£479 (€562.82)</p>	 <p>445Xi Plus</p> <ul style="list-style-type: none"> • 21" High Contrast 0.28mm FST • Up to 1600 x 1200 @ 88Hz • On-Screen Menu with Navi™ key • Dynamic focus system • TCO95 Approved <p>£669 (€786.07)</p>

NOKIA
www.nokia.com

Belnea

 <p>Belnea 10 40 10</p> <ul style="list-style-type: none"> • 14" 0.28mm • up to 1024 x 768 NI • 640 x 480 @ 85Hz • Digital Front Panel • MPRII Compliant <p>£89 (€104.57)</p>	 <p>Belnea 10 50 35</p> <ul style="list-style-type: none"> • 15" FST 0.28mm • up to 1280 x 1024 NI • 800 x 600 @ 85Hz • Digital Electronics • MPRII Compliant <p>£99 (€116.32)</p>	 <p>Belnea 10 70 35</p> <ul style="list-style-type: none"> • 17" FST 0.28mm • up to 1280 x 1024 NI • 1024 x 768 @ 85Hz • On-Screen Display • TCO 95 <p>£169 (€198.57)</p>
 <p>Belnea 10 70 50</p> <ul style="list-style-type: none"> • 17" FST 0.25mm • DiamondTron CRT • up to 1600 x 1200 NI • 1024 x 768 @ 100Hz • On-Screen Display • TCO 95 <p>£259 (€304.32)</p>	 <p>Belnea 10 60 90</p> <ul style="list-style-type: none"> • 19" FST 0.26mm • up to 1600 x 1200 NI • 1280 x 1024 @ 88Hz • Professional On-Screen Display • TCO 95 <p>£349 (€410.07)</p>	 <p>Belnea 10 80 50</p> <ul style="list-style-type: none"> • 21" FST 0.26mm • up to 1600 x 1200 NI • 1600 x 1200 @ 75Hz • On-Screen Display • TCO 95 <p>£559 (€656.82)</p>

All monitors include 3 years warranty - 1st year on-site exchange.

Prices shown in brackets are inclusive of VAT

DAEWOO

All Daewoo monitors supplied with 3 years on site warranty

 <p>431X £75 (€88.12)</p> <ul style="list-style-type: none"> • 14" 0.28mm • Up to 1024 x 768 NI • Digital on-Screen Display • MPR II compliant • 800 x 600 @ 75Hz 	 <p>518X £89 (€116.32)</p> <ul style="list-style-type: none"> • 15" FST 0.28mm • Up to 1024 x 768 NI • Digital on-Screen Display • MPR II compliant • 1024 x 768 @ 75Hz 	 <p>1509B £109 (€128.07)</p> <ul style="list-style-type: none"> • 15" FST 0.28mm • Up to 1024 x 768 NI • Digital on-Screen Display • MPR II compliant • 1024 x 768 @ 75Hz • Stereo Speakers
 <p>1705B £179 (€210.32)</p> <ul style="list-style-type: none"> • 17" FST 0.28mm • Up to 1028 x 1024 NI • Digital on-Screen Display • MPR II compliant • 1024 x 768 @ 85Hz • Stereo Speakers 	 <p>1707B £159 (€186.82)</p> <ul style="list-style-type: none"> • 17" FST 0.28mm • Up to 1028 x 1024 NI • Digital on-Screen Display • MPR II compliant • 1024 x 768 @ 85Hz 	 <p>1707B TCO95 £189 (€222.07)</p> <ul style="list-style-type: none"> • 17" FST 0.28mm • Up to 1028 x 1024 NI • Digital on-Screen Display • TCO 95 • 1024 x 768 @ 85Hz

All monitors include 3 years warranty - 1st year on-site exchange.

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SAMSUNG

MONITORS

SyncMaster 320TFT

£599 (£703.82)

- 13.3" Diagonal Active Display
- Display Equivalent to 15" CRT Monitors
- 1024 x 768 Resolution Support
- Flicker Free Flat Screen
- No Geometric Picture Distortion
- High Brightness and Contrast Ratio
- Wide Viewing Angles
- Space Saving Ergonomic Design
- Low Power Consumption
- Plug and Play - USB Ready
- Integrated Business Audio
- Macintosh Compatible
- 3 Years On-Site Warranty
- VESA Arm Mounting Compliant



NEW

SAMSUNG

MONITORS

SyncMaster 500s

£99 (£116.32)

- 15" Diagonal FST (13.8" Viewable Image Size)
- 0.28mm Dot Pitch
- INVAR Shadow Mask
- Up to 800 x 600 @ 85Hz
- Anti-Reflective, Anti-Static UltraClear™ coating
- Ergonomic on-screen display
- Plug and Play compatibility
- EPA Energy Star, NUTEK and VESA DPMS compliant Power Management System
- 3 Years On-Site Warranty



SyncMaster 700s

£179 (£210.32)

- 17" Diagonal FST (15.7" Viewable Image Size)
- 0.28mm Dot Pitch
- INVAR Shadow Mask
- Up to 1024 x 768 @ 85Hz
- Anti-Reflective, Anti-Static UltraClear™ coating
- Ergonomic on-screen display
- Completely Flicker Free Viewing
- Plug and Play compatibility
- EPA Energy Star, NUTEK and VESA DPMS compliant Power Management System
- 3 Years On-Site Warranty



SyncMaster 520TFT

£729 (£856.57)

- 15" Diagonal Active Display
- Display Equivalent to 17" CRT Monitors
- 1024 x 768 Resolution Support
- Flicker Free Flat Screen
- No Geometric Picture Distortion
- High Brightness and Contrast Ratio
- Wide Viewing Angles
- Space Saving Ergonomic Design
- Low Power Consumption
- Plug and Play - USB Ready
- Integrated Business Audio
- Macintosh Compatible
- 3 Years On-Site Warranty
- VESA Arm Mounting Compliant



NEW

SyncMaster 900p

£359 (£421.82)

- 19" Diagonal FST (18" Viewable Image Size)
- 0.26mm Dot Pitch
- INVAR Shadow Mask
- Up to 1280 x 1024 @ 85Hz
- Anti-Reflective, Anti-Static UltraClear™ coating
- Ergonomic on-screen display
- Completely Flicker Free Viewing
- Plug and Play compatibility
- EPA Energy Star, NUTEK and VESA DPMS compliant Power Management System
- 3 Years On-Site Warranty
- TCO 95 compliant



SyncMaster 1000p

£699 (£821.32)

- 21" Diagonal FST (19.7" Viewable Image Size)
- 0.25mm Dot Pitch
- INVAR Shadow Mask
- Up to 1600 x 1200 @ 85Hz
- Anti-Reflective, Anti-Static UltraClear™ coating
- Ergonomic on-screen display
- Completely Flicker Free Viewing
- Plug and Play compatibility
- EPA Energy Star, NUTEK and VESA DPMS compliant Power Management System
- TCO 95 compliant
- 3 Years On-Site Warranty



SAMSUNG

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LCD PANELS

Model	Size	Display Type	Max Resolution	Colours	Brightness	Contrast Ratio	Viewing Angle Horizontal	Viewing Angle Vertical	Interface	Audio	Standard	ex VAT	Inc VAT
AOI Microscan 5TN	14.1	TFT/Active Matrix	1024 X 768	24bit (16.7m)	200 CD/M2	150:1	160 Degrees	160 Degrees	15 Pin D Type	Y	TC095	739	868.32
BELINEA 10 14 10 CTX	14.0	TFT/Active Matrix	1024 X 768	24bit (16.7m)					15 Pin D Type		TC0 92	589	692.07
PV540	10.4	TFT	640 X 480	18bit (262144)	250CD/M2	100:1	45 Degrees	20 Degrees	15 Pin D Type		MPRII	499	586.32
PV600	12.1	TFT	800 X 600	24bit (16.7m)	150 CD/M2	200:1	120 Degrees	105 Degrees	15 Pin D Type	Y	MPRII	549	645.07
PV745 HITACHI	14.5	TFT	1024 X 768	24bit (16.7m)	200 CD/M2	200:1	60 Degrees	50 Degrees	15 Pin D Type	Y	TC0 92	599	703.82
DT 3131	13.3	TFT	1024 X 768	24bit (16.19m)	120 CD/M2	100:1	140 Degrees	140 Degrees	15 Pin D Type		TC0 95	899	1056.32
DT 3140 IIYAMA	14.1	STFT	1024 X 768	24bit (16.19m)	200 CD/M2	200:1	160 Degrees	160 Degrees	15 Pin D Type		TC0 95	999	1173.82
Pro Lite 36 TXA-3601GT	14.1	TFT	1024 x 768	32bit (16.7m)	200 CD/M2	150:1	50 Degrees	45 Degrees	15 Pin D Type		TC0 95	575	675.62
Pro Lite 36 TXA-3602 GT	14.1	TFT	1024 X 768	32bit (16.7m)	150 CD/M2	150:1	160 Degrees	160 Degrees	15 Pin D Type		TC0 95	785	922.37
Pro Lite 36 (TXA 3601 GTS)	14.0	TFT	1024 x 768	32bit (16.7m)	200 CD/M2	150:1	50 Degrees	45 Degrees	15 Pin D Type		TC0 95	1399	1643.82
Pro Lite (TXA 3811HT)	15.0	TFT	1024 X 768	32bit (16.7m)	200CD/M2	150:1	55 Degrees	45 Degrees	15 Pin D Type		TC0 95	785	922.37
Pro Lite 38 (TXA-3821HT) LG	15.0	TFT	1024 X 768	32bit (16.7m)	200CD/M2	150:1	55 Degrees	45 Degrees	15 Pin D Type	Y	TC0 95	815	957.62
500 LC MITSUBISHI	15.1	TFT/Analogue	1024 X 768	24bit (16.7m)	200 CD/M2	150:1	120 Degrees	120 Degrees	15 Pin D Type		TC095	699	821.32
LXA 520W	15	TFT/Active Matrix	1024 X 768	6bit(260,000)	200 CD/M2	150:1	140 Degrees	120 Degrees	15 Pin D Type		TC095	999	1173.82
LXA 420W NEC	14	TFT/Active Matrix	1024 X 768	6bit(260,000)	180 CD/M2	140:1	140 Degrees	110 Degrees	15 Pin D Type		TC095	799	938.82
LCD 400 V	14.1	TFT/Active Matrix	1024 X 768	Unlimited	200 CD/M2	150:1	100 Degrees	45 Degrees	15 Pin D Type		TC095	759	891.82
LCD 400 SF	14.1	TFT/Active Matrix	1024 X 768	Unlimited	180 CD/M2	150:1	160 Degrees	160 Degrees	15 Pin D Type		TC095	809	950.57
LCD 1510V	15.0	TFT/Active Matrix	1024 X 768	Unlimited	200 CD/M2	200:1	120 Degrees	60 Degrees	15 Pin D Type		TC092	929	1091.57
LCD 2010 NOKIA	20.1	TFT/Active Matrix	1280 X 1024	Unlimited	150 CD/M2	150:1	160 Degrees	160 Degrees	15 Pin D Type		TC095	4339	5098.32
400XA	14.1	STFT	1024 X 768	24bit (16.7m)	200 CD/M2	100:1	160 Degrees	160 Degrees	15 Pin D Type	Y	TC095	799	938.82
500XA	15.1	STFT	1024 X 768	24bit (16.7m)	200 CD/M2	100:1	160 Degrees	160 Degrees	15 Pin D Type	Y	TC095	899	1056.32
PANASONIC													
Panasync LC40 SAMSUNG	14.0	TFT	1024 X 768	8bit (16.7)	200 CD/M2	200:1	60 Degrees	45 Degrees	15 Pin D Type		MPRII	1089	1279.57
SM320 TFT	13.3	TFT/Analogue	1024 x 768	8bit (16.7m)	200 CD/M2	150:1	120 Degrees	80 Degrees	15 Pin D Type	Y	TC0 95	599	703.82
SM520 TFT SONY	15.0	TFT/Analogue	1024 x 768	8bit (16.7m)	200 CD/M2	150:1	120 Degrees	80 Degrees	15 Pin D Type	Y	TC0 95	729	856.57
CPD - L150 VIEWSONIC	15.1	TFT/Analogue	1024 X 768	16.19m	200 CD/M2	300:1	140 Degrees	120 Degrees	15 Pin D Type		TC095	1195	1404.12
VPI38	13.8	TFT	1024 X 768	24bit (16.7m)	180 CD/M2	120:1	90 Degrees	85 Degrees	15 Pin D Type		TC0 92	589	692.07
VPA145	14.5	TFT	1024 X 768	24bit (16.7m)	150 CD/M2	100:1	100 Degrees	80 Degrees	15 Pin D Type	Y	TC0 95	699	821.32
VPA150	15.0	TFT	1024 X 768	24bit (16.7m)	200 CD/M2	300:1	140 Degrees	95 Degrees	15 Pin D Type	Y	TC0 95	845	992.87

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Mitsubishi offers a 3 year warranty (1st year on-site, 2nd & 3rd year return-to-base).

Buy a DIAMONDTRON monitor made by Mitsubishi for guaranteed 100% pure DIAMONDTRON



The DIAMONDTRON CRT takes Aperture Grille technology to new levels of excellence delivering more accurate, sharper images



The **Diamond Pro 91TXM** meets the needs of graphics and CAD users who require high resolution, high quality 21" monitors. Featuring Mitsubishi's high quality 0.28mm CRT, the monitor reaches a maximum non-interlaced resolution of 1600 x 1280 at a refresh rate of 75Hz. **£699** (£821.32 inc VAT)



The **Diamond Plus 72** 17" monitor has higher refresh rates with horizontal scanning frequencies of up to 86kHz (1280 x 1024 @ 80Hz) and new DIAMONDTRON™ tube with upgraded focus and convergence performance for sharp, clean images with minimal eye-strain. **£309** (£363.07 inc VAT)



The **Diamond Scan 90** provides the demanding graphics professional, desktop publisher and CAD professional a new level of image clarity and consistency. A high performance 19" (18" viewable) colour display that fits in the space of a conventional 15" monitor **£425** (£499.37 inc VAT)



The **Diamond Scan 50** 15" (13.8" viewable) colour monitor is designed to provide you with years of reliable trouble-free operation. The Diamond Scan 50 is low on cost but big on quality. This TCO95 certified 15" monitor is the right choice for your professional computing needs

£129 (£151.57 inc VAT)



The **Diamond Pro 700** is a 17" monitor perfect for the corporate market place as well as CAD users, designers and multimedia experts. Featuring Mitsubishi's DIAMONDTRON™ technology, the monitor reaches a maximum resolution of 1600 x 1200 at a refresh rate of 75Hz.

£399 (£468.82 inc VAT)

Turn on your imagination



HITACHI

All Hitachi Monitors have a 3 year on site replacement warranty, and are TCO'95 compliant



CM500ET £139 (£163.32)
CM500ES £149 (£175.07)

15" high specification monitor

- Flicker Free resolutions up to 1152 x 870 @ 75Hz
- 0.23mm horizontal mask pitch
- CM500ES Multimedia Version with speakers & microphone



CM620ET £259 (£304.32)

Hitachi's best value 17" monitor

- Flicker Free resolutions up to 1152 x 870 @ 75Hz
- 0.22mm horizontal mask pitch



CM641ET £329 (£386.57)

The New CM641 is our highest specification 17" monitor

- Flicker Free resolutions up to 1600 x 1200 @ 75Hz
- 0.21mm horizontal mask pitch

Prices in brackets are inclusive of VAT

CM751ET £459 (£539.32)
CM752ET £499 (£586.32)

Hitachi's range of 19" monitor

- Same depth as conventional 17" display
- 5 lens focusing for unbeatable focus
- Flicker free at up to 1600 x 1200 @75Hz (CM751ET)
1600 x 1280 @75Hz (CM752ET)
- Both have 0.21mm horizontal mask pitch

CM802ET £759 (£891.82)
CM803ET £939 (£1103.32)

Hitachi's range of 21" displays

- 5 lens focusing for unbeatable focus
- 0.21mm horizontal mask pitch
- Flicker free at up to 1600 x 1280 @75Hz (CM802ET)
1800 x 1440 @75Hz (CM803ET)

DT3131ET 13.3" Super TFT £899 (£1056.32)

DT3140ET 14.1" Super TFT £999 (£1173.82)

- Ultra wide viewing angle of 160° horizontal & vertical
- Ultra low power consumption
- 16.19 million colours
- Resolution up to 1024 x 768



Masters of Monitor Technology

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MONITORS

MONITORS CONTINUED

Table listing various monitor models and specifications. Columns include brand (ADI, BELINEA, CTX, DAEWOO, FORMAC, HITACHI, IYAMA, LG, MITSUBISHI, NEC, NOKIA, PANASONIC, PHILIPS, SONY, TAXAN, VIEWSONIC), Tube Size, VA, DP, Max Res, H(Hz), V(KHz), Rec Res, S, Safety, Exc, Inc, VAT, and Price. The table is organized into two main sections: 'MONITORS' and 'MONITORS CONTINUED'.

Excellent Quality • Superior Service • Unbeatable Value





- ✓ Serving you since 1987
- ✓ Over £50m annual turnover
- ✓ Over 200,000 satisfied customers
- ✓ Highly trained specialist staff
- ✓ Repair & upgrade services

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Monitors



ProNitron Multisync 17/500

17" Trinitron monitor ideal for the professional user who wants quality at a competitive price.

- Low Emission TCO92
- Power Saving Mode
- Enhanced Multiscan
- Plug and play Windows 95
- CRT 0.25mm Super Fine Dot Pitch Trinitron Tube
- 30-85 kHz Horizontal Frequency
- 328mm x 242mm Viewable Area
- 1024 x 768 @ 85Hz Rec. Resolution

£269
(£316.07)

ProNitron Multisync 19/500

New 19" Sony Trinitron monitor ideal for multimedia and high-end graphics.

- TCO95 for an Ergonomic working environment
- Plug and Play Windows 95
- CRT Super Fine Dot Pitch Trinitron Tube
- 0.25-0.27mm Aperture Grille
- 30-94KHz Horizontal Frequency
- 480mm Diagonal
- 1600 x 1200 @ 75Hz Maximum Resolution

£449
(£527.57)

ProNitron Multisync 21/700

New 21" Sony Trinitron monitor for the serious professional user.

- TCO95 for an Ergonomic working environment
- Plug and Play Windows 95
- CRT Super Fine Pitch Trinitron Tube
- 0.25-0.27mm Aperture Grille Pitch
- 30-107 kHz Horizontal Frequency
- 404 x 302mm Viewable Area
- 504mm Diagonal
- 1600 x 1280 @ 80 Hz Maximum Resolution

£689
(£809.57)

Prices in brackets are inclusive of VAT

107S

17" 1280 x 1024 autoscans monitor

An excellent choice for every day applications, including word processing large spreadsheets or even 'serious' game playing, the 107S combines ease of installation with flicker-free performance.

- 15.9" Viewable Image Size
- 17" anti-glare, anti-static flat square CRT
- Autoscan (30-69 kHz for multi-compatibility)
- Horizontal pitch of 0.24mm
- Win 95 Plug-and-Play (VESA DDCI/2B compatible for bi-directional communications between monitor & PC)
- Resolution up to 1280 x 1024 (60 Hz)
- Refresh rates up to 85Hz - flicker free
- Video dot rate: 110MHz
- EPA Energy Star
- NUTEK compliant power management
- Complies with MPR-II emission spec
- Digitally controlled colour and geometry adjustment (inc tilt control) with 11 factory presets and 15 user-definable modes
- On-Screen Display
- USB device with Customax 3.0 software
- TCO '95 (Optional)

£195

(£229.12 inc VAT)

PHILIPS

Let's make things better

TAXAN

The UK's No.1 monitor manufacturer

New to the range is the Taxan Ergovision 760 series with ZenTan™ CRT technology.

The Ergovision 760 TCO95 and Ergovision 760 TCO 95-S (multimedia version) are two 17" FST monitors occupying the same desk space as traditional 14" displays with no price penalty.

NEW



Ergovision 760 TCO 95

- 17" ZenTan FST Digital Monitor
- 0.27mm Dot Pitch
- AGRAS Face Treatment
- Fully TCO 95 Compliant

£265
(£311.37)

- 30 - 70kHz (Multiscan)
- 1024 x 768 up to 86Hz
- Windows 95 Plug and Play

Ergovision 760 TCO 95-S

- As Ergovision 760 TCO 95, plus:
- Built-in 2 x 4W Dome (stereo) speakers
 - Headphone socket • Volume control

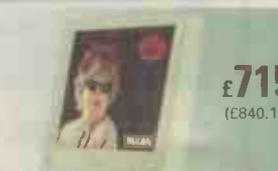
£275
(£323.12)
Multimedia Version



£475
(£558.12)

Ergovision 975 TCO 95

- 19" FST (18" Viewable)
- 0.26mm Dot Pitch
- ARASC Face Treatment
- Fully TCO 95 Compliant
- 30 - 95kHz Horizontal Scan Frequency
- 1600 x 1200 @ 75Hz
- PC and Mac compatible
- Dual input



£715
(£840.12)

Crystalvision 640 TCO95-S

- 14.1" TFT Flat Panel Monitor
- Built in speakers
- Fully TCO 95 Compliant
- 1024 x 768 Flicker Free
- 16.7 million colours
- 200cd/m² Brightness
- Win 95 Plug and Play

Prices in brackets are inclusive of VAT

CTX

1555E/VL510

£95
(£111.62 inc VAT)



- CRT Size/Viewable **15"/13.8"**
 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

£189
(£222.07 inc VAT)



- CRT Size/Viewable **17"/15.7"**
 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

£329
(£386.57 inc VAT)



- CRT Size/Viewable **17"/16"**
 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/VL950T

£369
(£433.57 inc VAT)



- CRT Size/Viewable **19"/18"**
 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 customers.

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HP Intelligent Scanning Technology

HP ScanJet 5100c **£149**
(£175.07 inc VAT)



The efficient partner for quality results every time you scan - with no experience required.

- Excellent image quality (600 dpi HSS)
- Scans black and white lineart for editing or enlargement with no loss of quality (Vectorization)
- Completes your scan job twice as fast as ever before (HP PrecisionScan)
- Scan only once for text and image data acquisition (Dual Image Scan)
- Optimizes individual elements on the page (Automatic Page Analysis)
- Maintain original page layout (Preserved Page Format)
- Parallel interface
- Win 95 & Win NT 4 compatible

HP ScanJet 6200c **£237**
(£278.47 inc VAT)

HP ScanJet 6250c **£275**
(£323.12 inc VAT)

New Product

The versatile consultant for fast, high-quality scanning in the office with network capabilities for workgroups. Plus automatic multi-page feeder for higher productivity (HP ScanJet 6250c only).

- Superior Image Quality (1200 dpi HSS)
- Scans black and white lineart for editing or enlargement with no loss of quality (Vectorization)
- Unlimited enhanced resolution for quality image capturing (Intelligent Scaling)
- Increase your productivity up to 4 times over comparable scanners (HP PrecisionScan Pro)
- Optimizes individual elements on the page (Automatic Page Analysis)
- Drag and drop scanned text or photos into your application
- Networkable scanner for high workgroup productivity (HP PrecisionScan LAN)
- Integrated automatic document feeder for multi-page scanning (HP ScanJet 6250c only)
- Great flexibility (Advanced Imaging Controls) and faster scanning (HP PrecisionScan Pro)
- SCSI or USB interface
- Win 95 & Win NT 4 compatible

HP ScanJet 6200c with 3 Years OSM Warranty

HP ScanJet 6250c with 3 Years OSM Warranty

HP ScanJet 4100c **£115**
(£135.12 inc VAT)

Professional Series

The smart friend that helps you express your creativity.

- Excellent image quality (600 dpi HSS)
- Quick results with colour copy and scan buttons
- Automatic image and text optimisation
- Scan only once for text and image data acquisition
- Great image scanning in minutes with guided help
- Easy step up and fast operation (universal serial bus)

HP ScanJet 4100c with 3 Years OSM Warranty

£ Call (£Call inc VAT)

£ Call (£Call inc VAT)



While stocks last

With 3 Years OSM Warranty **£215** (£252.62 inc VAT)

£ Call (£Call inc VAT)

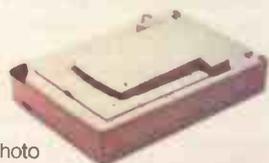


EPSON GT-7000 & GT-7000 Photo Flatbed Colour Scanners



GT-7000

Software Included



GT-7000 Photo

- Affordable, compact colour flatbed scanner
- High quality 600x2400 dpi optical res with EPSON Micro step drive
- Can distinguish 68 billion different colours (36 bit)
- Start button for easy one touch scan
- Film adaptor inc for scanning negs and slides (GT-7000 Photo only)
- Ultra fast scanning - a leader in it's class
- Optional document feeder for added flexibility
- For Windows® 95/98, Windows® NT 3.51 or later & Mac

- Adobe Photoshop 4 LE (GT 7000 Photo only)
- Adobe Pagemill 3 for Win & 2 for Mac
- Xerox Textbridge Classic
- Presto! Pagemanager for EPSON
- EPSON Personal Copy 2 inc ColorWiz
- EPSON Scan! II 32
- EPSON TWAIN 3
- EPSON Photosheet

GT-7000 £Call (£Call inc VAT)

GT-7000 Photo £Call (£Call inc VAT)

EPSON



EPSON GTx-9500
Colour (4800 dpi/36 bit per pixel) Flatbed Scanner

from £446
(£524.05 inc VAT)



EPSON FilmScan 200
35mm Film Scanner

from £303
(£356.02 inc VAT)



EPSON GT-5500

Flatbed colour image scanner **£181** (£212.67 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
- Extensive range of software included
- Up to 10 exposure continuous-shot mode
- Both Windows and Macintosh compatible as standard
- Direct Printing to the Epson Stylus Photo range and Stylus COLOR 600, 800 and 850
- 4MB internal memory and external CompactFlash card (option 4MB, 15MB) for flexible image storage
- Panoramic, Macro and Black & White image capture modes
- Amazing close-up 10cm macro facility

only £398
(£467.65 inc VAT)



PhotoPC 700



PhotoPC 600

EPSON PhotoPC 600
XGA Colour digital camera **only £303** (£356.02 inc VAT)

Excellent Quality • Superior Service • Unbeatable Value



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ACCEPTED



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- ✓ Repair & upgrade services

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SCANNERS

	ex VAT	inc VAT
ACER		
VuegoScan S200	39	45.82
VuegoScan S310P Parallel	49	57.57
VuegoScan S310S SCSI	69	81.07
VuegoScan 610P Parallel	75	88.12
VuegoScan 610S SCSI	99	116.32
AGFA		
SnapScan 310 Parallel	85	99.87
SnapScan 310 SCSI	99	116.32
SnapScan 600 SCSI	179	210.32
SnapScan 600 Artline SCSI	279	327.82
Arcus II	699	821.32
Arcus Solo	750	881.25
DuoScan SCSI	1749	2055.07
Accessories		
SnapScan Automatic Document Feeder	159	186.82
CANON		
Canoscan FB310 Parallel	99	116.32
Canoscan 300S	140	164.50
Canoscan FB610 Parallel	189	222.07
DR3020 Document Management SCSI	3499	4111.32
EPSON		
GTx-5000 Parallel	130	152.75
GTx-5500 SCSI	181	189.17
GTx-9500 Parallel	446	524.05
GTx-9500 SCSI	469	551.07
GTi-9500 SCSI	538	632.15
FilmScan 200 SCSI	303	356.02
Accessories		
GT Automatic Document Feeder	309	363.07
GT Transparency Unit	359	421.82
HEWLETT PACKARD		
Scanjet 4100 Parallel	116	136.30
Scanjet 5100c Parallel	149	175.07
Scanjet 6200C	237	278.47
Scanjet 6250C	277	325.47
Scanjet 5 Ethernet	1605	1885.87
Accessories		
6100 Automatic Document Feeder	259	304.32
6100 Transparency Unit	369	433.57
LOGITECH		
PageScan USB	99	116.32
MICROTEK		
Phantom 336CX Parallel	68	79.90
ScanMaker 336 SCSI	119	139.82

Mustek

All Mustek products are fully TWAIN compliant
All Mustek scanners are single pass
All Mustek scanners include image editing and OCR software

The total scanning solution



Flatbed A4 Colour Scanners

ScanExpress 6000P £49 (£57.57)

- 300x600 dpi Optical Resolution
- 4800 Interpolated Resolution
- 30bit Colour Depth (1.1 billion colours)
- Connects simply, via the parallel port

ScanExpress 12000P £89 (£104.57)

- 600x1200 dpi Optical Resolution
- 9600 Interpolated Resolution
- 36bit Colour Depth (68.7 billion colours)
- Connects simply, via the parallel port

ScanExpress 6000SP Pro £89 (£104.57)

- 300x600 dpi Optical Resolution
- 4800 Interpolated Resolution
- 30bit Colour Depth (1.1 billion colours)
- Includes a SCSI interface

ScanExpress 12000SP Pro £129 (£151.57)

- 600x1200 dpi Optical Resolution
- 9600 Interpolated Resolution
- 36bit Colour Depth (68.7 billion colours)
- Includes a SCSI interface

ScanExpress A3 £149 (£175.07)

- 300x600 dpi Optical Resolution
- 9600x9600 dpi Interpolated Resolution
- 30bit Colour Depth (1.1 billion colours)
- Connects simply, via the Parallel Port

Digital Camera

VDC-200P £189 (£222.07)

- Up to 640x480 resolution (470k CCD)
- 2MB Memory (Up to 50 frames)
- 45mm TFT LCD image preview/menu
- Flash & self timer
- Composite connection to TV (PAL) to view images
- Includes editing software, batteries

Prices shown in brackets are inclusive of VAT

SCANNERS

	ex VAT	inc VAT
MICROTEK continued		
Phantom 636 EPP	Call	Call
Phantom X6	199	233.82
35T Plus SCSI	595	699.12
ScanMaker 4 SCSI	649	762.57
ScanMaker 6400XL A3 SCSI	1099	1291.32
ScanMaker 9600XL A3 SCSI	1699	1996.32
MUSTEK		
ScanExpress 6000P Parallel	49	57.57
ScanExpress 6000SP Pro SCSI	89	104.57
ScanExpress 12000P Parallel	89	104.57
ScanExpress 12000SP Pro SCSI	129	151.57
ScanExpress A3	149	151.57
NIKON		
CoolScan III Ext SCSI	509	598.07
CoolScan III Ext SCSI & SCSI Card	525	616.87
Super Coolscan SCSI	995	1169.12
Super Coolscan SCSI & Photoshop LE	1114	1308.95
POLAROID		
SprintScan 35LE SCSI	419	492.32
SprintScan Plus SCSI	1199	1408.82
UMAX		
Astra 610P Parallel	59	69.32
Astra 610S SCSI	89	104.57
Astra 1210P Parallel	79	92.82
Astra 1220P Parallel	109	128.07
Astra 1220S SCSI	219	257.32
Photoshop LE add	30	35.25
Full Photoshop v4.0 add	110	129.25
Powerlook ColourStudio II LE SCSI	749	880.07
Powerlook ColourStudio II Plus SCSI	899	1056.32
Powerlook ColourStudio II Pro SCSI	1149	1350.07
Powerlook III SCSI	1995	2344.12
Powerlook 2000 Pro SCSI	2499	2936.32
Mirage II SE SCSI	1999	2348.82
Mirage II SCSI	4999	5873.82
Accessories		
Astra Transparency Unit	199	233.82
VISIONEER		
PaperPort 3000	67	78.72
PaperPort 3100	75	88.12
PaperPort 6000	89	104.57
PaperPort OneTouch	149	175.07
PaperPort Strobe Colour	169	198.57

Scanners and Cameras

SnapScan 310 SCSI



£95 (£111.62)

SnapScan 310 SCSI

- 30 bit colour depth
- 300 x 600 ppi optical resolution
- 4800 x 4800 ppi through interpolation
- 10ms/line scan speed
- Bundle includes: Fotolook, & FotoFlavor software
- Outstanding image and text capture within seconds
- Free On-Site Maintenance

SnapScan 600



from only £179 (£210.32)

SnapScan 600

- 30 bit colour depth
- 600 x 1200 ppi resolution
- 4800 ppi through interpolation
- Bundle includes: FotoSnap, FotoLook, FotoFlavor, OmniPage LE OCR software
- Mac or PC

ePhoto 780



Compatible with Apple & Microsoft

£255 (£299.62)

NEW Digital Camera

Includes: Agfa PhotoGenie

- Three resolution settings 1024x764 (XGA), 640x480 (VGA), and 320x240 (standard)
- Images can be viewed on 1.8 inch colour LCD panel
- 2MB small media card (holds between 12-96 images depending on resolution)
- Four flash modes and video out (allows the images to be viewed on TV)

ePhoto 1280



£449 (£527.57)

Digital Camera

Includes: Agfa Photowise

- Outstanding print quality, up to 1.2 million colours (1280 x 960) with Agfa PhotoGenie
- Removable memory stores 6 - 60 images per 4MB SSFDC Card (one included)
- FlashTrack swivel zoom lens (280° swivel)
- Built-in auto flash from 3 - 10 feet (0.9m - 3m)

Arcus II



£750 (£881.25)

Fast A4 Scanner

- FAST A4 CCD scanner capable of registering 68 billion cols.
- Density range of 3.0D
- 600 x 1200 ppi resolution
- Bundle includes FotoLook, FotoTune Light
- Mac or PC

Prices shown in brackets include VAT



AGFA 
The complete picture.

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Imaging made clear with **UMAX** Scanners



Astra 610P FROM **£59**
(£69.32)

- 30 bit colour scanning
- 300 x 600dpi optical resolution
- 4800 x 4800dpi maximum resolution
- Single Pass, colour CCD
- Bundled software: *PhotoDeluxe, Presto! PageManager, UMAX Copy Utility, VistaScan and OmniPage Direct*
- EPP/SPP Parallel Port

Astra 1220P FROM **£109**
(£128.07)

- 30 bit colour scanning
- 600 x 1200 dpi
- Maximum resolution: 9600 x 9600 dpi
- Bundled software: *PhotoDeluxe and PageManager*
- EPP/SPP Parallel Port

Astra 1220S (SCSI) FROM **£219**
(£257.32)

- 30 bit colour scanning
- 600 x 1200 dpi
- Maximum resolution: 9600 x 9600 dpi
- Bundled software: *PhotoDeluxe and PageManager*

Call for details of CoverPlus Extended Warranty

Model	Standard	LE	Full	Pro
Astra 610 Parallel	£59 (£69.32)	£89 (£104.57)	£169 (£198.57)	-
Astra 610 SCSI	£89 (£104.57)	£119 (£139.82)	£199 (£233.82)	-
Astra 1210 Parallel	£79 (£92.82)	£109 (£128.07)	£189 (£222.07)	-
Astra 1220 SCSI	£219 (£257.32)	£249 (£292.57)	£329 (£386.57)	£538 (£632.15)
Astra 1220 Parallel	£109 (£128.07)	£139 (£163.32)	£219 (£257.32)	-
Powerlook ColourStudio II	-	£749 (£880.07)	£899 (£1056.32)	£959 (£1126.82)

LE = Photoshop LE, Full = Full Photoshop v4.0 (while stocks last)
Pro = Full Photoshop & Transparency Adaptor



Powerlook III with Tranny unit £1995 (£2344.12)
Mirage SE A3 with Tranny unit £1999 (£2348.82)

All prices in brackets are inclusive of VAT

GENUINE UK UNITS

All **UMAX** scanners supplied by Dabs Direct are genuine UK units and come with 1 year RTB

All Microtek scanners are covered by 12 months of **Microtek Total Care** ...if within the 12 month warranty period, hardware fails, then you receive a brand new scanner free of charge.

MICROTEK
The Digital Vision

ScanMaker 6400XL/9600XL

Features and Benefits

Designed for professional applications the ScanMaker 6400XL and 9600XL are ideal for a production environment in corporations, advertising agencies, service bureaux for FPO positioning and for scanning large artwork, tabloid sized publications, and x-rays for medical imaging.



Specifications:

- Resolution: 6400XL: 400 x 800 dpi, Interpolated 6400 dpi; 9600XL: 600 x 1200 dpi, Interpolated 9600 dpi
- Colour Depth: 36 bit
- Scan Area: 304 mm x 430 mm
- Interface: SCSI
- Software: Scan Wizard (PC/Mac), Caere OmniPage LE (OCR) (PC/Mac), Ulead PhotoImpact Full (Image Editing) (PC), ImagePals2Go! (Image Editing) (PC, Windows 3.X), ColorIt! (Image Editing) (Mac), Fractal Design Painter (Image Editing), Colour Management Software (PC/Mac), Silverfast

SCANMAKER 6400XL £999 (£1173.82)
SCANMAKER 9600XL £1699 (£1996.32)

Macintosh compatible versions also available - phone for prices

ScanMaker 336/636

Features and Benefits

Place photos, drawings, logos or pages of text into your computer applications

- Colour Depth: 30-bit
- Resolution: 330: 4800 dpi maximum resolution; 630: 9600 x 9600 dpi maximum resolution
- Interface: SCSI
- Software: Scan Wizard (PC/Mac), Caere OmniPage LE (OCR) (PC/Mac), Ulead PhotoImpact LE (Image Editing) (PC), Kai's PhotoSoap (Image Editing) (PC/Mac), Oocumagix PaperMaster (Document Management) (PC), ImagePals2Go! (Image Editing) (PC, Windows 3.X), ColorIt! (Image Editing) (Mac)



ScanMaker 336 £129 (£151.57 inc VAT)
ScanMaker 636 £199 (£233.92 inc VAT)

Transparency Adaptor (ScanMaker 636/636) £75 (£88.12 inc VAT)
10 Page ADF (ScanMaker 636/636) £169 (£198.57 inc VAT)

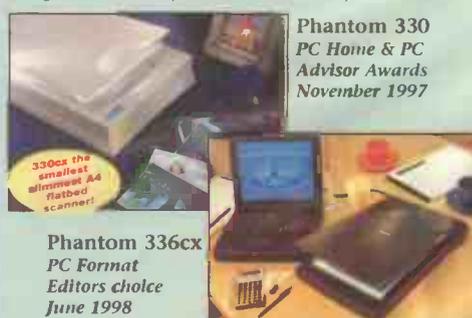
Macintosh compatible versions of these two model are also available - phone for prices

Phantom 336cx/330

Features & Benefits

The Phantom 330cx is a ultra streamlined and compact design, measuring only 416 mm x 264 mm x 43 mm, small enough to fit in a briefcase. With integrated Enhanced Parallel Port technology, 30-bit colour depth and a maximum resolution of 4800 dpi both the Phantom 330cx and Phantom 330 outshine the competition in colour brilliance and scan accuracy.

- Colour Depth: 30-bit • Resolution: 300 x 600 dpi, 4800 x 4800 dpi maximum (interpolated) • Software: Microtek ScanWizard (PC/Mac), OmniPage LE (PC/Mac), iPhotoExpress Microtek ScanSuite 330cx only, Recognita OCR 330cx only, PhotoAssistant 330cx only



Phantom 336cx
PC Format
Editors choice
June 1998

Phantom 336cx £68 (£79.90 inc VAT)
Phantom 330 £79 (£92.82 inc VAT)

Scanners

Excellent Quality • Superior Service • Unbeatable Value





- ✓ Serving you since 1987
- ✓ Over £50m annual turnover
- ✓ Over 200,000 satisfied customers
- ✓ Highly trained specialist staff
- ✓ Repair & upgrade services

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visioneer **Scanners**

£15 CASH BACK
on all Visioneer hardware

PAPERPORT ^{One} Touch £149 (£175.07)

The PaperPort® OneTouch scanner has five convenient buttons for easy copying, faxing, and scanning directly into Visioneer's award winning PaperPort® software. The OneTouch features high resolution, 36-bit colour.

- 600 x 1200 dpi optical resolution; 2400 dpi enhanced
- Works with Windows® 95 and Windows® NT • 36-bit photorealistic colour (internal) • Fastest "Scan to Finish" scanner



AFTER CASH BACK

£ **160.07** inc VAT

INCLUDES FREE SOFTWARE

- Paperport® Software
- Visioneer OCR

AFTER CASH BACK

£ **89.57** inc VAT

PAPERPORT 6000 £89 (£104.57)

The Visioneer™ PaperPort® 3000 and PaperPort 6000 are compact desktop colour scanners that deliver excellent performance, unbeaten quality, and unmatched ease of use!

- 600 x 1200 dpi optical resolution; 2400 dpi enhanced
- 30-bit photorealistic colour • Flatbed design allows for more flexible scanning of bound and loose items



Free Software!

- PaperPort Software
- Web Publishing Kit
- Xerox TextBridge® OCR
- Corex CardScan™ SE
- PictureWorks PhotoEnhancer™
- Quicken ExpensAble SE
- Connectix QuickCards™ LE

AFTER CASH BACK

£ **63.72** inc VAT

BEST VALUE FOR MONEY SCANNER

PAPERPORT 3000 £67 (£78.72)

- 300 x 600 dpi optical resolution; 2400 dpi enhanced • 30-bit photorealistic colour
- Flatbed design allows for more flexible scanning of bound and loose items

PAPERPORT ^{Colour} Strobe £139 (£163.32)

With PaperPort Strobe, you can organise, edit, fax, e-mail, and publish using the world's most popular paper management software.

- Manage all your paper and images on screen Organise.
- Simply drag and drop your scanned documents to and from folders on your desktop.
Fax*. Just drag any scanned document to your fax icon. SharpPage™ technology makes faxes from your PC razor-sharp.

E-mail. With PaperPort Strobe, you can distribute your documents quickly using popular e-mail or

Internet software- company-wide or worldwide.

PaperPort Links™. Work with more than 150 applications.

Just drag and drop your documents and images.



£30 CASH BACK
on Paperport colour strobe

AFTER CASH BACK

£ **133.32** inc VAT

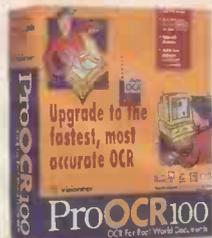
Designed for Windows® 95

- Fits between your keyboard & PC
- Scans anything from business cards & photos to full news columns.

Free Software!

- Xerox TextBridge® OCR
- Corex CardScan™ SE
- PictureWorks PhotoEnhancer™
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visioneer **Software**



ProOCR100 £59 (£69.32)

Visioneer ProOCR100 is the first 100% useful OCR for any scanner! Scan your way to a finished document up to 50% faster and 50% cheaper! Visioneer ProOCR100 allows you to scan Real World Documents quickly and effectively, such as dot matrix, faxed copies, and multi-generation copies plus is 100% TWAIN compliant.

BUY ANY VISIONEER SCANNER & GET THE PRO OCR SOFTWARE AT THE SPECIAL PRICE OF

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Upgrade to PAPERPORT DELUXE for just £65 (£76.37)
The Essential Companion For Your Scanner



* printer & modem required to print and fax Prices shown in brackets are inclusive of VAT

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PRODUCTS

The NEW DC210 PLUS Zoom Camera.



DC210 PLUS £419
(£492.32 inc VAT)

MEGAPIXEL DC200
Based on the DC210, features fixed focus lens, 1152x864 pixel image sensor, LCD colour preview and review display, high quality compact design
£339 (£398.32 inc VAT)



DC220 £589 (£692.07 inc VAT)
DC260 £749 (£880.07 inc VAT)

NEW Great Value MEGAPIXEL DC210 PLUS

Based on the award-winning DC210, the NEW LOOK 'PLUS' model delivers even more, making it the most advanced, most affordable and easiest-to-use digital camera in its class

- True megapixel CCD with 1152 x 864 image resolution
- Now with BMB picture card, stores up to 120 pictures
- 1.8" TFT colour LCD for picture preview & review
- 2X Focus Free Zoom Lens with close-up mode
- Serial (RS232C), Infrared (IrDA) & Video Out (NTSC & PAL) interfaces - display pictures straight to TV!
- Includes: Kodak PictureEasy 3.0, Adobe PhotoDeluxe & PageMill software, Windows 95, Windows 98 or Windows NT mounter & TWAIN Acquire module
- New features include date stamping, custom borders and picture lightening
- AC adapter included

MEGAPIXEL 2x Zoom DC220 & MEGAPIXEL PLUS 3x Zoom DC260

- 1152 x 864 image resolution (DC220)
- 1536 x 1024 image resolution (DC260)
- Store up to 104 pictures - 8MB Compact Flash memory card included
- 2" colour LCD review and preview display
- Great software bundle, including Kodak's Digital Science Picture Easy 3.0 Software
- Features include: Burst Capture, Scripting Capability and Audio Recording
- Fully USB compatible



FOR WINDOWS 95™

Bring the Excitement, Immediacy and Expressiveness of Colour Video Communications to Your Desktop

Use Your PC to Make Video Calls and send Video Emails to Friends & Family.

QuickCam VC is the easiest, most affordable colour video communications solution available. Using QuickCam VC's one-click video email integration, you can envision text e-mail messages with graphics, sounds, still images and full motion video clips and turn your online chat into a truly interactive experience. QuickCam comes with all the software you need to make real time video conferencing calls to anyone virtually anywhere in the world over standard phone lines, the Internet or LAN connections.

- Installation is a snap. With no cards to install or configure you can start making video calls in under 10 minutes
- Standard based video conferencing software means you can reach a broader community of people! With Microsoft Net Meeting 2.0 (compliant to internet H.323 standards).
- Available in parallel and USB versions.

Communicating has never been so satisfying!

SYSTEM PERFORMANCE

- Camera focus range: 1- inch to infinity
- Number of colours: thousands or millions
- Connectix VIDEComp compression for improved video quality, faster frame rates and larger frame sizes
- Performance (thousands of colours):
Parallel (ECP) 15+fps @ 352 x 288 pixels (CIF)
USB: 15+fps @ 352 x 288 pixels (CIF)
- Image formats: AVI, BMP, JPEG, TIFF
- Video for Windows AVI support (v3.0)
- Software Applications include QuickCam software (v3.0), Microsoft NetMeeting (v2.0), Microsoft Internet Explorer, and Vivo Active Video Now



Includes everything you need to video conference

only £74
(£86.95 inc VAT)




Wacom Graphics Tablets

It's as easy, as comfortable, and as natural as using a pen. Whether you're painting in Painter, retouching in Live Picture or Photoshop, or working with a host of other applications, a Wacom cordless pen and graphic tablet can significantly enhance your creativity and ease of working. Pressure sensitive pens allow you to vary line thickness, colour density or other characteristics, depending on the application. Already the most widely used graphics tablets for professional electronic artwork production, Wacom's innovative new features combine ergonomics with life like simulation of traditional graphics tools. UltraPad tablets are available from A5 to A2 size. All come with a programmable menustrip for commonly used functions, and provide tilt sensitivity for measuring pen angle - another Wacom first - for calligraphic effects in programs like Painter.



Product	Price
Pen Partner	£59 (£69.37)
Pen Partner & PhotoSoap	£69 (£81.07)
ArtPad II	£96 (£112.80)
A5 UltraPad	£185 (£217.37)
A4 UltraPad	£279 (£327.82)
A3 UltraPad	£479 (£562.82)
A2 UltraPad	£1299 (£1526.32)

Prices shown in brackets are inclusive of VAT

Acer SCANNERS

Our fastest range of scanners... from only £29

- Flatbed A4 colour scanner
- 300 x 600/600 x 1200 dpi optical resolution
- 4800dpi or 9600dpi max resolution
- High speed one pass scanning (sec preview)
- 30bit colour, 10bit greyscale
- Ulead iPhoto Plus & Xerox textbridge
- USB for Windows 98 (310S/610S)
- Parallel (310P/610P) or SCSI II (310S/610S) interface (SCSI card included)

VuegoScan 310/610

*Windows 98 compatible

- S-200 1200dpi, OCR, mono **£29** (£34.07 inc VAT)
- 310P 4800dpi, Parallel **£49*** (£57.57 inc VAT)
- 310U 4800dpi, USB **£59*** (£69.32 inc VAT)
- 310S 4800dpi, SCSI **£69*** (£81.07 inc VAT)
- 610P 9600dpi, Parallel **£75*** (£88.12 inc VAT)
- 610U 9600dpi, USB **£109*** (£128.07 inc VAT)
- 610S 9600dpi, SCSI **£99*** (£116.32 inc VAT)

NEW 610ST 9600dpi, SCSI with built in transparency adaptor. **£159** (£186.82 inc VAT)

The Personal Film Scanner With Revolutionary New Technology

COOLSCAN III



£509
(£598.07 inc VAT)

Nikon

- **Digital ICE** which automatically removes surface imperfections such as dust and scratched from scans, saving valuable hours re-touching time.
- **High Optical Resolution** of 2700dpi, 30-bit colour depth, shows detail even in the shadow & highlight areas of the image
- **Colour Matching Library** provides vivid and extremely accurate colour matching on both monitors & printers
- **Versatile Film Loading** - 35mm strip film adaptor & slide mount adaptor
- **Advanced Photo System** - optional adaptor for scanning APS
- **Hot Swap Adaptors** for simple switching between film types

Coolscan III with Nikon Scan 2.1 **£509** (£598.07 inc VAT)
Coolscan III with Nikon Scan 2.1 & Adaptic 1505E card **£527** (£619.22 inc VAT)

NEW 1998 Sanyo digiCAM'S

As seen on TV!



"US innovation award" - Vegas 97

Accessories

- 4MB Smart Media Card (XGA only) **£39** (£45.82)
- 8MB Smart Media Card (XGA only) **£65** (£76.37)
- Mains Adaptor **£45** (£52.87)
- FlashPath Floppy Disk Adaptor **£55** (£64.82)

Prices shown in brackets are inclusive of VAT

SANYO

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	Yes	4 seconds
Auto timer, focus, flash	Yes	Yes	Yes
Camcorder mode	No	Yes (5 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)	£199 (£233.82)	£279 (£327.82)	£339 (£398.32)
		£499 (£586.32)	£339 (£398.32)

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- ✓ Over 200,000 satisfied customers
- ✓ Highly trained specialist staff
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ePhoto 1280	449	527.57
CANON		
PowerShot 350	319	374.82
PowerShot A5	395	464.12
PowerShot 600	529	621.57
CASIO		
QV-700	239	280.82
QV-5000SX	349	410.07
QV-7000	Call	Call
EPSON		
PhotoPC 600	303	356.02
PhotoPC 700	398	467.65
Accessories		
PhotoPC 600 AC Adaptor	49	57.57
PhotoPC 600 4Mb Card	99	116.32
PhotoPC 600 15Mb Card	259	304.32
FUJI		
DX-5	169	198.57
DX-7	195	229.12
DX-9	295	346.62
MX-700	449	527.57
Accessories		
Mains Adaptor	25	29.37
HEWLETT PACKARD		
HPC 20	465	546.37
HITACHI		
MPEG Video Camera	1449	1702.57
KODAK		
DC200	339	398.32
DC210 Plus	375	440.62
DC220	589	692.07
DC260	759	891.82
Accessories		
Carry Case	45	52.87
DC50/120 Mains Adaptor	40	47.00
DC200/210 AC Adaptor	59	69.32
DC120 Flash Sync Cable	15	17.62
DC120 Wide Angle Set	139	163.32
DC200/210 Mac Kit	29	34.07
4Mb CompactFlash Card	89	104.57
10Mb CompactFlash Card	159	186.82
20Mb CompactFlash Card	259	304.32
External CompactFlash Card	79	92.82
MUSTEK		
VDC-100	79	92.82
VDC-200P	189	222.07
NIKON		
CoolPix 100	246	289.05
CoolPix 300	329	386.57
CoolPix 600	375	440.62
CoolPix 900	646	759.05
CoolPix 900 Premiere	731	858.92
OLYMPUS		
C-420L	255	299.62
C-820L	399	468.82
C-840L	499	586.32
C-1400L	799	938.82
SANYO		
digicAM 200	199	233.82
digicAM 210	279	327.82
digicAM 250	339	398.32
digicAM 300 XGA	339	398.32
digicAM 350 XGA	499	586.32
Accessories		
Digicam 200 AC Adaptor	75	88.12
Digicam 300 AC Adaptor	45	52.87
SONY		
Mavica FD5	349	410.07
DSC-F1	389	457.07
Mavica FD7	455	534.62
DCR SC100e	Call	Call
Accessories		
Mavica Stamina Battery	47	55.22
Mavica Soft Case	29	34.07
DSC-F1 Battery	35	41.12
DSC-F1 Fast Charger	49	57.57
UMAX		
DC - A1	199	233.82
DC - F1	279	327.82

Digital Camera Accessories

Dabs Direct can supply all accessories for digital cameras, if you can't see the item you need listed please call for up to date pricing

pace

Pace Colour Video Camera USB or PCI

- Digital colour cameras for video communications
- Send 'Video Emails' to family and friends
- Capture and store still or live video images
- Video conference over phone lines, ISDN, the Internet or LAN conn.
- Software extras include Gotcha, Photowallet and Face-it
- 24-bit colour and frame rates of up to 30 per second
- USB version connects directly to a USB ready PC
- PCI version supplied with PCI video capture card which accepts images from a camcorder or VCR

USB £67 (£78.72 inc VAT)

PCI £67

Pace TV Card

- Tune into live TV on your PC with Nicam Stereo sound
- Watch live terrestrial, cable or satellite TV on your PC
- Access Teletext on your PC with enhanced FASTEXT facilities
- Up to 125 channels available with automatic channel scan
- Additional Video inputs for connection to a DVD player, camcorder or VCR
- Pace Video Capture software to capture live television footage or take clips from your home videos
- Compatible with Pace Colour Video Cameras for local PC video capture, video conferencing & video e-mail production.

PC TV Card £67 (£78.72 inc VAT)

(The above products are plug & play, supplied with unlimited technical help desk support & are covered by a 5 year guarantee.)

NEW

QV-7000SX Digital Camera

- Removable Flash Cards (8Mb included)
- Large 2.5" TFT display
- Zoom (2x optical & 4x digital)
- 1280 x 960 DPI resolution (SXGA)
- VideoOut for TV (PAL/NTSC)
- 12.8 sec Mini Movie
- PC software & connection kit included

£459
(£539.32 inc VAT)

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

£349
(£410.07 inc VAT)



QV-5000SX

Also DP8000 Digital Photo Printer
£299 (£351.32 inc VAT)

QV-700 Digital Camera (Mac or PC)
£239 (£280.82 inc VAT)

CASIO

Advanced, High-Resolution Digital Camera

COOLPIX900 Nikon



£646
(£759.05)

STANDARD BUNDLE - includes Coolpix 900 Digital Camera with 4MB compact flash card and Adobe PhotoDeluxe software
£646 (£759.05)

PREMIER BUNDLE - includes Coolpix 900 Digital Still Camera with power supply, 12MB compact flash card, compact flash adaptor and Adobe PhotoDeluxe software
£731 (£858.92)

Features

- 3x Zoom-Nikkor lens
- CCD image resolution of 1280 x 960 pixels
- 1.3 megapixel resolution
- Three-mode metering: 1) 64-element matrix, 2) spot, and 3) centre-weighted
- Advanced five-mode built-in Speedlight
- Precise 945-step autofocus
- Exposure compensation
- Large 2 inch TFT LCD screen for composition and review
- Removable CompactFlash™ memory card
- Slim, compact and 270 degree swivel design
- Wideangle and fisheye converters (optional)

Prices in brackets are inclusive of VAT

MODULAR

PC Video Camera Quartzsight Video Camera System

- Video Clip & Still Image Capture & Editing
- Video e-mail
- Video phone
- 24-bit Full Colour Video
- 352 x 288 resolution
- Includes software & cables

£59 (£69.32 inc VAT)



Rockwell

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	ex VAT	inc VAT
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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

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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
CONNECTIX		
QuickCam VC Parallel	74	86.95
QuickCam VC USB	74	86.95
Software		
Digital Radar	19	22.32
PhotoBadge	39	45.82
Wig Out	19	22.32
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
MODULAR TECHNOLOGY		
QuartzSight Desktop Colour Camera Kit	59	69.32
PACE		
Desktop Colour Camera PCI	69	81.07
Desktop Colour Camera Kit USB	69	81.07
VIDEOLOGIC		
Captivator PCI/VC	149	175.07
ZOOM		
Desktop Colour Camera	69	81.07

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Ez550 SVGA 300Lm	1989	2337.07
Ez600 SVGA 550Lm	2989	3512.07
EPSON		
EMP-5100 SVGA 750Lm	3995	4694.12
EMP-7100 XGA 650Lm	5375	6315.62
EMP-7300	8449	9927.57
PROXIMA		
LB20	1989	2337.07
DS1 SVGA 600Lm	3699	4346.32
DP5800 SVGA 650Lm	3885	4654.87
DP5900 SVGA 700Lm	3989	4687.07
DP9200 XGA 500Lm	5449	6402.57
SANYO		
PLC-550B SVGA 550Lm	3299	3876.32
PLC-5605 SVGA 700Lm	4250	4993.75
PLC-8815 XGA 550Lm	5250	6168.75
PLC-9005 XGA 1500Lm	9500	11162.50
SHARP		
XG3785E VGA 250Lm	2229	2619.07
XG3795 SVGA 300Lm	2589	3042.07
XGNV1E SVGA 400Lm	3819	4487.32
SONY		
CPJ-D500	1119	1408.82
VPL-S600 SVGA 650Lm	3999	4698.82
VPL-X600 XGA 600Lm	4650	5463.75

GRAPHICS TABLETS

	ex VAT	inc VAT
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Pen Partner	59	69.32
Pen Partner & Soap	69	81.07
ArtPad II	96	112.60
Ultrapad A5	185	217.37
Ultrapad A5 & Painter	289	339.57
Ultrapad A4	279	327.82
Ultrapad A4 & Painter	359	421.82
Ultrapad A3	479	562.82
Ultrapad A3 electrostatic	589	703.82
Ultrapad A2	1299	1523.32

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- Full Duplex Speakerphone
- Remote Fax & Voice message retrieval
- Plug and Play
- Comms software and cables included
- FLASH upgradeable

*Varying line conditions may result in lower speeds

LOW PRICE
INTERNAL **£79** (£82.82 inc VAT) EXTERNAL **£85** (£99.87 inc VAT)

Model MT5600ZDK External

Supports enhanced V.34 (33.6K bps) data and V.17 (14.4Kbps) data and V.17(14.4K bps) Class 1 fax.

Key Features

- K56 flex 56K
- Flash upgradeable
- Plug and Play

£75 (£88.12 inc VAT)

Model MT5634ZLXI PCMCIA

Key Features

- K56 flex 56K
- Flash upgradeable
- Plug and Play

£129 (£151.57 inc VAT)

MultiTech Systems

FirstFone™
Radio Card for GSM 900

Shows the way for GSM data.

Definitely a new era for GSM data communication. One single PC card combines the powerful features of a GSM phone and a data card.

FirstFone® sends data, faxes, e-mail and SMS from a notebook or PDA without the need of additional cables or equipment.

- Fits in ANY notebook or PDA equipped with a PC Card slot (PCMCIA Type II)
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- Optimised power consumption thanks to TAPS (Technologically Advanced Power Switching) - switch between 2 Watt (Class 4) and 0.8 Watt (Class5) transmission
- EZsim (Option's comfortable way of inserting the SIM card)

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OPTION INTERNATIONAL
Mobile Data Communications

Connect the palm of your hand to the world

No matter where you go, with the Option Snap-On GSM adaptor for PalmPilot you're never more than a short mobile phone call away from sharing information. You can update your schedule, access your e-mail and synchronise all your business or your personal life.

Whether you're down the road or half-way around the world, simply Snap-On, press a button and you're connected to your desktop computer, ready to HotSync as if your PalmPilot is back home, in its cradle.

only £79 (£92.82 inc VAT)

The information that usually makes you wait now races to your laptop.

The 56K technology gives a turbo boost to data transmission. Where ever you are, you're connected to the world. You can plug your GSM-Ready 56 modem onto more than 40 different GSM handsets, and at any PC or PDA. This is really plug and play - the interactive manual reduces configuring to clicking an icon.

Fast: twice the speed of current V.34 connections

Flexible: fits in any notebook or PDA

Upgradable: based on the 56Kflex standard and ITU upgradeable

User friendly: easy configuration with interactive manual

only £175 (£205.62inc VAT)

THIS 56K* Professional Message Modem

Includes x2™ technology

New innovative feature enhanced message modem offers high quality faxmodem & answering machine functionality. Easy to use communications software has been specifically designed to utilise all the new features.

- FREE Future flash upgrade to the V.90 ITU 56K standard
- Answerphone & Message Management
- Stores voice and fax messages when your PC is switched off
- Built-in voice quality speaker & microphone
- Flash ROM memory for easy upgrades

£139 (£163.32 inc VAT)

56K* Message Modem

Includes V.90 56K* standard and x2™ technology

Complete feature-rich communications package for the home or office. The 56K* Message Modem can be left to store incoming fax and voice message even when your computer is switched off.

- Flash ROM memory
- Integrates V.90 56K* standard and x2™ technology
- Internet ready and compatible at 33,600bps
- Full Duplex speaker phone
- Remote voice message, fax and data retrieval
- Call discrimination: Fax/Data/Voice with Fax-on-Demand

£125 (£146.87 inc VAT)

ALL 3COM MODEMS ARE SUPPLIED WITH A FIVE YEAR WARRANTY AND FREE LIFETIME TECHNICAL SUPPORT

56K* Voice Faxmodem

Includes V.90 56K* standard and x2™ technology

- Flash ROM memory for easy upgrades
- Enhanced internet experience and save £'s on telephone bills
- Internet ready and compatible at 33,600bps
- Full Duplex speaker phone
- 1000 Mailbox voice mail with security
- Fax-on-Demand - up to 100 faxes stored for distribution
- Call discrimination: Fax/Data/Voice

£85 (£99.87 inc VAT)

Megahertz 56K* Global PC CARD

Hassle free mobile connections

This Megahertz 56K* Global PC CARD features 56K* technology for high speed downloads and WorldPort country selection software so you can easily configure your modem for use around the world. The Intelligent Auto Install gives you easy, doubt-free installation in a matter of minutes.

- x2™ technology at up to 56Kbps*
- Flash DSP/Flash ROM upgradeable
- World Ready-approved for use in over 250 countries & regions
- Digital line guard

£129 (£151.57 inc VAT)

* Due to varying line conditions, the actual download speeds you experience may be lower. Requires connectivity to an analogue telephone line which is compatible with 56K technology

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Modems

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- ✓ Serving you since 1987
- ✓ Over £50m annual turnover
- ✓ Over 200,000 satisfied customers
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MODEMS

3COM	ex VAT	inc VAT
Sportster WinModem 56K Internal	75	88.12
Sportster WinModem 33k6 PCMCIA	75	88.12
Megahertz 56K Global PCMCIA	129	151.57
56k Voice Faxmodem Internal V90	85	99.87
56k Voice Faxmodem External V90	85	99.87
56k Message Modem V90	125	146.87
56K Professional Message Modem	139	163.32
Courier V34 Internal	195	229.12
Courier V34 External	195	229.12

DABS	ex VAT	inc VAT
33k6 Voice Internal	29	34.07
56k Voice Internal V90	39	45.82
56k Voice Internal PCI V90	45	52.87
56k Voice External V90	55	64.62
56k PCMCIA	69	81.07

DIAMOND	ex VAT	inc VAT
Supra Express 56i Internal	45	52.87
Supra Express 56e External	65	76.37

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56K Voice Internal	65	76.37
56K Voice External	79	92.82
56K PCMCIA	99	116.32

HAYES	ex VAT	inc VAT
Accura 56K Voice Internal V90	79	92.82
Accura 56K Voice External V90	85	99.87
Accura 56K Voice MSN Internal V90	85	99.87
Accura 56K Voice MSN External V90	95	111.62
Optima 366 Business	149	175.07
Optima 336 Global PCMCIA	125	146.87
Optima 56K Global PCMCIA	155	182.12
Nokia 2110 GSM Kit	95	111.62
Nokia 8110 GSM Kit	95	111.62
Panasonic GSM Kit	95	111.62

LEAF	ex VAT	inc VAT
33k6 Internal	29	34.07
56K Internal	55	64.62

MODULAR TECHNOLOGY	ex VAT	inc VAT
SuperHighway 56K Voice Internal V90	49	57.57
SuperHighway 56K Voice External V90	55	64.62

MULTITECH	ex VAT	inc VAT
MT2834ZPXI 33k6 Internal	75	92.82
MT2834ZDXK 33k6 External	75	92.82
MT2834ZDXV 33k6 Voice External	85	99.87
MT5600ZDX 56K External	79	92.82
MT5600ZDXV 56K Voice External	99	116.32
MT2834LTI 33k6 PCMCIA	119	139.82
MT2834BLK 28k8 External	145	170.37
MT5634ZLXI 56K PCMCIA	129	151.57

OLITEC	ex VAT	inc VAT
Self Memory 33600	89	104.57
Self Memory 56000	119	139.82
Self Memory 56000 Phone	139	163.32

OPTION	ex VAT	inc VAT
Snap On GSM Ericsson	79	92.82
Snap On GSM Nokia	79	92.82
Snap On GSM Panasonic	79	92.82
Snap On GSM Siemens	79	92.82
56K GSM PCMCIA Ericsson	175	205.62
56K GSM PCMCIA Nokia	175	205.62
56K GSM PCMCIA Panasonic	175	205.62
56K GSM PCMCIA Siemens	175	205.62
FirstFone GSM PCMCIA	329	386.57

PACE	ex VAT	inc VAT
Voice 56k Internal	69	81.07
Voice 56k External	89	104.57
N8 56K PCMCIA	95	111.62
Solo 56K External	145	170.37



Pace 56 Solo

- 56kpbs self-memory messaging system
- 56kpbs voice/fax/data modem with on-board memory
 - Receives & stores voice & fax messages even with your PC off
 - Stores a combination of approximately 30 minutes of speech or 30 pages of fax
 - Retrieve your voice messages without your PC
 - Retrieve your fax messages without having to view them first
 - New audible UK Calling Line Identification
 - Hands free speaker phone without your PC
 - Flash upgradeable to future standards (V90 ready)
 - Contacts you on the move to let you know you have messages waiting - remote access for message collection
 - Automatically discriminates between voice, fax & data calls

£145
(£182.12)



Pace 56 Voice

- 56kpbs voice/fax/data external or internal modem
- Super fast 56,000bps internet access & 33.6kpbs data transfer
 - Voice mail, fax mail & email
 - UK Calling Line Identification
 - Flash upgradeable to future standards (V90 ready)
 - Full duplex, hands free, speaker phone capability
 - Private mailboxes for multiple users
 - Incorporates Rockwell technology

INTERNAL £69 (£81.07)
EXTERNAL £89 (£111.62)



Pace NB 56 Voice

- 56kpbs voice/fax/data PC Card modem
- Super fast 56,000bps internet downloads
 - Voice mail, fax mail & email
 - Enhanced throughput up to 230.4kpbs
 - UK Calling Line Identification
 - Flash upgradeable to future standards (V90 ready)
 - Ultra low power operation & standby mode
 - Incorporates Rockwell technology

PC CARD £95
(£111.62)



Pace ISDN Terminal Adaptor

- Complete package for high speed digital communications
- Basic Rate ISDN interface (2 x 64k)
 - Channel bonding for data transmission at 128kpbs
 - Enhanced serial interface for up to 230.4kpbs
 - 2 analogue ports for telephone/fax/modem connections
 - Simultaneous voice & data over a single ISDN line
 - Multiple Subscriber Numbering
 - Euro ISDN approved for use throughout Europe

£175
(£205.62)



All Pace products are supplied with cables, user guide, software suite & free internet trials. Unlimited help desk support is available and products are covered by a 5 year guarantee. Prices shown in brackets are inclusive of VAT

Full colour, full motion video camera

- Capture card and software
 - Or use with video-ready modems
- only £68 (£79.90 inc VAT)



56K/V90-ready Fax modem

- Plug and play
- USA's leading internet modem
- FREE internet and comms software
- Video-Ready (internal only)

Internal only £63 (£74.02 inc VAT)

External only £70 (£82.25 inc VAT)



MODEMS CONTINUED

PSION DACOM	ex VAT	inc VAT
Gold Card V34+ Global PCMCIA	129	151.57
Gold Card 56K Global PCMCIA	159	186.82
Nokia 2110 GSM Kit	89	104.57
Nokia 6110 GSM Kit	89	104.57
Nokia 8110 GSM Kit	89	104.57
Panasonic GSM Kit	89	104.57

TDK/GREYCELL

GlobalPulse Nokia 2110	119	139.82
GlobalPulse Nokia 8110	119	139.82
GlobalPulse Ericsson	119	139.82
DF-2814 33k6 PCMCIA	109	128.07
DF-3310 33k6 GSM PCMCIA	119	139.82
DF-5660 56K PCMCIA	149	175.07
GCS-4000 33k6 PCMCIA	159	186.82
GCS-4020 Nokia 2110 GSM Upgrade	119	139.82
GCS-4021 Nokia 8110 GSM Upgrade	119	139.82
GCS-4022 Panasonic GSM Upgrade	119	139.82
GCS-4023 Ericsson GSM Upgrade	119	139.82
GCS-4040 33k6 & GSM Nokia 2110	259	304.32
GCS-4041 33k6 & GSM Nokia 8110	259	304.32
GCS-4042 33k6 & GSM Panasonic	259	304.32
GCS-4043 33k6 & GSM Ericsson	259	304.32
GCS-6040 GSM Nokia 2110	149	175.07
GCS-6041 GSM Nokia 8110	149	175.07
GCS-6042 GSM Panasonic	149	175.07
GCS-6044 GSM Ericsson	149	175.07
Nokia 2110 GSM Kit	99	116.32
Panasonic GSM Kit	99	116.32

XIRCOM

Credit card 33k6 PCMCIA	109	128.07
Credit card 56K PCMCIA	129	151.57
Ericsson Global Access GSM PCMCIA	109	128.07
Siemens S3 Global Access GSM PCMCIA	109	128.07
Siemens S4 Global Access GSM PCMCIA	109	128.07
Philips Fizz Global Access GSM PCMCIA	109	128.07
Philips Spark Global Access GSM PCMCIA	109	128.07
Philips Genie Global Access GSM PCMCIA	109	128.07
Nokia 2110 Global Access GSM PCMCIA	109	128.07
Nokia 8110 Global Access GSM PCMCIA	109	128.07

ZOOM

56K Internal	63	74.02
56K External	70	82.25

ISDN TERMINAL ADAPTORS

3COM	ex VAT	inc VAT
Sportster ISDN	99	116.32
Courier-I ISDN & 33k6 modem	239	280.82

DYNALINK

ISDN Terminal Adaptor Internal with Voice	59	69.32
ISDN Terminal Adaptor PCMCIA	179	210.32

EICON

Diva Pro 2.0 Internal	165	193.87
Diva Pro 2.0 Internal PCI	209	245.57
Diva Pro 2.0 PCMCIA	209	245.57

HAYES

Accura 64k External	174	204.45
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PACE

UltraLink External	175	205.62
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VIRTUAL ACCESS

LinXpeed 10 External	129	151.57
LinXpeed 20 External with Voice	169	198.57

XIRCOM

CreditCard ISDN PCMCIA	189	222.07
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ZOOM

ISDN Terminal Adaptor Internal	84	98.70
ISDN Terminal Adaptor External	126	148.05
Duo ISDN TA & Modem Internal	109	128.07
Duo ISDN TA & Modem External	143	168.02

LinXpeed ISDN Digital Modems

- MSN - Multi Subscriber Numbering
- Call Bumping
- Channel Bonding - 128Kbps
- Multilink PPP
- Up to 230Kbps with data compression
- D Channel Ready
- Supports all worldwide ISDN protocols and X.25
- Simultaneous ISDN Voice & Data over single ISDN line
- Flash Upgradeable
- Model 20 includes 2x Analogue Ports



Model 10 £129
Data Only (£151.57 inc VAT)

Model 20 £169
Data & Voice (£198.57 inc VAT)



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- Telephone Answering machine
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*Conditions & connection permitting

INTERNAL £49 (£57.57 inc VAT)

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FAX

	ex VAT	inc VAT
AVRO PACIFIC		
Fax Friend	49	57.57
International Modem adaptor kit	42	49.35
BROTHER		
Fax-510	139	163.32
Fax-520 TAM	195	229.12
Fax-920	195	229.12
Fax-930	238	279.65
Fax-8000P	499	586.32
CANON		
T-21	189	222.07
T-31	219	257.32
T-30 Inkjet	249	292.57
B-150 Inkjet	245	287.87
L-250 Laser	529	621.57
L-300 Laser	649	762.57
OKI		
Okifax 460 TAM	209	245.57
Okifax 740	279	327.82
Okifax 4100	489	574.57
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	245	299.62
UF-S10	259	292.57
KX-F1830	275	323.12
UF-332 Plain Paper	299	457.07
KX-F1100E	345	445.32
UF-550 Laser	639	739.07
UF-560 Laser	745	797.82
UF-280M	759	891.82
SAMSUNG		
SF-150	115	135.12
F-150	145	170.37
SF-4000 Inkjet	225	264.37
SF-5500 Laser	375	440.62
SF-5600 Laser	509	598.07
SF-6000 Laser	565	663.87
SF-6100 Laser	635	746.12
SHARP	ex VAT	inc VAT
UX-108	99	116.32
UX-178	115	135.12

MFC-9050

The MFC-9050 is a true all-in-one quality laser printer/fax/PC fax with Copy/Scanner capability

only £425 (£499.37 inc VAT)

- 6 Second Transmission Speed
- Broadcasting
- 130 Page Memory
- 124 Speed Dial Buttons
- 64 Level Grey Scale
- 200 Sheet A4 Paper Cassette
- Reduce/Enlarge 50-200%
- Dual Access Memory
- Fax Forwarding/Retrieve
- Auto Document Feeder
- Fax/Telephone switch
- Call Back Message
- 6 ppm print speed
- Win+NT4 printer driver



FAX-920

The FAX-920 is versatile enough for use both at home or in the office

only £195 (£229.12 inc VAT)

- Plain paper fax
- 10 sheet document feeder
- Caller line identification
- Fax forwarding
- 20 page memory (512k)
- 32 speed dial stations
- 64 grey scale
- Optional PC interface
- Personal copy mode



FAX-930

As FAX-920 with TAM £238 (£279.65 inc VAT)

FAX-1020

Plain paper fax £238 (£279.65 inc VAT)



MFC Pro 700C

£595 (£599.12 inc VAT)

The multifunction printer, scanner, copier and fax.

- Printer: 720 x 720 dpi colour inkjet printer Up to 5ppm (Mono), 3 ppm (Colour)
- Scanner: 1200 x 1200 dpi 24-bit colour scanner includes Xerox Textbridge OCR software
- Copier: Colour copy up to 720 x 720 dpi max Reduction/Enlarge (Ratio 50% - 200%)
- Fax: Fully featured fax machine 14400 bps modem/speed Full duplex speaker phone
- 4Mb memory (1Mb or 2Mb upgrade)



Memory

Increase the performance of your printer with an additional memory option at a very cost effective price. Phone now for prices



FAX CONTINUED

	ex VAT	inc VAT
SHARP Continued		
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

MULTI-FUNCTION DEVICES

	ex VAT	inc VAT
BROTHER		
MFC-1025	299	351.32
MFC-3000 Colour Inkjet	449	527.57
MFC-9050 Laser	425	499.37
MFC Pro 700C Colour Inkjet	621	729.67
CANON		
MPC-20 Colour Inkjet	289	339.57
MPL-90 Laser	719	844.82
HEWLETT PACKARD		
OfficeJet 635 Inkjet	339	398.32
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
SANYO		
SFX-P500 Colour Inkjet	299	351.32
SHARP		
FO-1660M	225	264.37
F-3600M Laser	429	504.07
TOSHIBA		
TF-601 Laser	729	856.57
TF-605 Laser	825	969.37
XEROX		
Work Centre 450C Colour Inkjet	265	311.37

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HP OfficeJet 635

The creative assistant that does everything around the office.

- Print, Copy, Scan in Colour
- Plain-paper Fax
- Simple to install and use.



Features...

- 600x600 dpi Black Text
- 600x300 dpi Colour Printing
- 5ppm black 2ppm colour
- 100 speed dials and 65 page memory
- 1200 dpi enhanced colour scanning
- Windows®95 or 3.1x compatible
- Software: Caere OmniPage LE OCR, Corel Print and Photohouse Select 2.0
- One-year warranty with on-site exchange

£339 (£398.32 inc VAT)

With HP SupportPack £411 (£482.92 inc VAT)

HP OfficeJet Pro 1170C

The professional assistant that does it all with style. Handles a variety of paper and other media with high quality results.

- Print, Copy, Scan in Colour



Features...

- 600x600 dpi Black Text
- 600x300 dpi (with CREt III Colour Printing)
- 9ppm black 5ppm colour
- 1200 dpi enhanced colour scanning
- Digital Zoom 50% to 400%
- Windows®95, 3.1x compatible or Win NT
- Software: Scan Picture, OCR, and Adobe Photo Deluxe
- One-year warranty with on-site exchange

£489 (£574.57 inc VAT)

With HP SupportPack £607 (£713.22 inc VAT)

HP OfficeJet Pro 1175C

The professional assistant with fast performance, quality results plus the efficiency of an Automatic Document Feeder.

- Print, Copy, Scan in Colour
- Fax, through PC modem



Features...

- 600x600 dpi Black Text
- 600x300 dpi (with CREt III 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

£614 (£721.45 inc VAT)

With HP SupportPack £Call (£Call inc VAT)

HP LaserJet 3100

The professional workhorse for high quality and productive business communications

- Laser Printer, Fax, Copier and Scanner
- Standalone fax and copy facility



Features...

- 600x600 dpi
- 6ppm
- 175 speed dials, up to 150 page memory
- 600 dpi enhanced scanning
- 50% to 200% reduction/enlargement
- Windows®95, 3.1x compatible or Win NT
- Software: Integrated JetSuite Pro Desktop software and ReadIRIS Pro PCR
- One-year warranty with on-site exchange

£489 (£574.57 inc VAT)

With HP SupportPack £607 (£713.22 inc VAT)

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LED PAGE PRINTERS

The Oki range of LED page printers have been designed to provide all the performance you need, day after day. Producing excellent quality text and graphics, these printers will grow in line with your needs and can be expanded in terms of paper handling and memory capacity.



OKIPAGE 8c

The OKIPAGE 8c enables fast eight pages per minute colour printing. With a choice of four colour management systems and excellent paper handling capacity, it is the ideal colour page printer for the workgroup.

- LED 8 ppm colour page printer
- True 600 x 600 dpi resolution
- 32 seconds to first print
- 16 MB RAM, upgradable to 80 MB
- 500 sheet paper tray
- 4 colour management systems
- Unique colour tandem engine
- PostScript Level 3 emulation

£2299 (£2701.32 inc VAT)

OKIPAGE 8c with Ethernet

- As the OKIPAGE 8c with Ethernet

£2489 (£2924.57 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 20dx

- All the features of the OKIPAGE 20n
- Duplex unit as standard

£909 (£1068.07 inc VAT)



OKIPAGE 16n

- LED 16 Pages per minute
- 600 x 600 dpi
- 6Mb of memory
- Up to 1200 sheet paper capacity

£579 (£680.32 inc VAT)



OKIPAGE 10i

- LED 10 ppm page printer with PCL6
- 600 x 1200 dpi resolution
- Fast MIPS R3000 RISC processor
- 2Mb RAM - upgradeable to 35Mb
- DOS, Windows 3.1/95 and Windows NT

£359 (£421.82 inc VAT)



OKIPAGE 6e

- LED 6 ppm page printer with PCL5e
- 600 dpi
- 2Mb RAM - upgradeable to 18Mb
- DOS, Windows 3.1/95 and Windows NT

£189 (£222.07 inc VAT)

OKIPAGE 6ex

- LED 6 ppm page printer with PCL5e
- 600 x 1200 dpi resolution
- 2Mb RAM, upgradeable to 35Mb
- Control panel
- DOS, Windows 3.1/95 and Windows NT

£219 (£257.32 inc VAT)

OKIFAX 4100/740/740MF

The OKIFAX 4100 is a high quality, high performance desktop LED fax, perfect for small office, home offices and for personal use.

- 14.4k modem • 100 sheet paper capacity • Memory expandable from 15 to 75 pages
- Separate toner and drum • Advanced dialling features • Power save mode

£489
(£574.57 inc VAT)



The OKIFAX 740 is an affordable plain paper fax.

- Compact Footprint • PC link via Serial interface • 150 sheet paper capacity/20 sheet ADF
- 10 one touch and 50 two touch dialling • 18 pages memory upgradeable to 68 pages
- ID coded Access • 70 broadcast locations

£279
(£327.82 inc VAT)

The OKIFAX 740MF is a plain paper fax and colour printer.

- Supplied with mono and colour cartridges • 150 sheet paper capacity/20 sheet ADF
- 18 sec/page transmission speed • Autodial: 10 one-touch/50 speed dial/5 groupdial
- 1 Mb/50 page upgrade • Q600 dpi mono printing

£329
(£386.57 inc VAT)



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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 £215
(£252.62 inc VAT)

The new HL-1040 is the ideal low cost solution for your printing needs - combining flexibility with high print quality at an affordable price.

FEATURES

- 10 page per minute
- Windows/DOS compatible
- 600 dpi print resolution
- 2MB standard memory
- PCL4 compatible
- 200 sheet paper input
- Semi automatic duplex
- Intelligent sleep mode
- Low running costs
- Auto e-mail printing*
- Network connectivity option



HL-1050 £239
(£280.82 inc VAT)

The most highly featured machine in its class. Combining leading edge technology and efficiency for the ultimate in printing efficiency.

FEATURES

- 10 pages per minute
- 66Mhz RISC processor
- 1200 x 600 dpi printing
- 4MB standard memory expandable to 36Mb
- PCL6 compatible
- Multiple emulations
- 200 sheet paper input
- Semi automatic duplex
- Intelligent sleep mode
- Low running costs
- Auto e-mail printing*
- IEEE 1284 & Universal Serial Bus interfaces
- Network connectivity option

HL1050-8MB £265 (£311.37 inc VAT)

Also available:

HL-2400cn £2685
(£3154.87 inc VAT)

- The HL-2400cn is a network ready version, having all the features of the HL-2400c, with the addition of...
- 40Mb memory as standard
 - Advanced Network Functionality
 - 10BaseT & 10Base2 connectors with automatic detection



HL-1070 £299
(£351.32 inc VAT)

High quality printing at a surprisingly low price. The Brother HL-1070 makes high quality, high speed and high capacity highly affordable.

FEATURES

- 10 page per minute
- 66Mhz RISC processor
- 4Mb standard memory upgradable to 36Mb
- 1200dpi resolution
- PCL6 & PostScript 2 language emulation as standard
- Dual paper tray as standard
- 2 x 200 sheet paper input
- Intelligent sleep mode
- Low running costs
- Auto e-mail printing*
- IEEE 1284 & Universal Serial Bus interfaces
- In-built barcode font
- Network connectivity option
- One year on-site warranty

HL1070-8MB £329 (£386.57 inc VAT)

* POP3 required



MC-3000 £449
(£527.57 inc VAT)

All the power of a colour printshop, on your desktop. A high quality 4 colour inkjet printer, a digital colour copier and a colour scanner, all in one machine. A compact state of the art solution for a price that is very affordable.

FEATURES

- 4 Colour Inkjet Printer
- Digital Colour Copier
- Colour Scanner
- Up to 5 ppm printing
- Up to 720x720 dpi printing
- 200 sheet input and output
- Bundled software includes OCR textbridge and photo-manipulation package

Memory

Increase the performance of your printer with an additional memory option at a very cost effective price.

Phone now for prices

HL-2400c £2349
(£2760.07 inc VAT)

With a resolution of up to 2400dpi the new colour laser from Brother, provides the high quality output demanded by professionals

FEATURES

- up to 2400dpi
- up to 8ppm colour/16ppm mono
- 24Mb memory (up to 112Mb)
- Semi automatic manual duplex
- Low running costs
- Automatic e-mail printing
- Intelligent sleep mode
- One year on-site warranty



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down

ECOSYS cartridge-free technology cuts printing cost by avoiding the need to replace the drum and developer, treated as consumables on conventional printers. Kyocera use long-life components instead meaning that printing is significantly cheaper than with cartridge-based printers.

FS-600 only £239
(£280.82 inc VAT)

- 600 dpi, 6ppm laser printer
- Cartridge-free technology
- 50MHz Power PC processor
- IEEE 1284 parallel plus option port
- Internal 150-sheet cassette
- Optional 250-sheet cassette
- Ethernet/serial interface options



FS-1700N

only £655
(£769.62 inc VAT)

- 600 dpi, 12ppm network laser printer
- 6MB memory plus memory enhancement
- Pre-installed multi-protocol Ethernet interface
- Fully SNMP compliant
- High speed parallel and serial interfaces
- Supported by Kyocera PrintMonitor management utility
- 250 sheet standard cassette plus 100 sheet multi-purpose feed
- Up to 2 x 500 sheet optional cassettes
- Optional duplex unit and output sorter/mailbox



FS-3700+ only £679
(£797.82 inc VAT)

- 18ppm laser design
- 100MHz Power PC processor
- Reliable ECOSYS technology
- PCL5e and PostScript level 2 as standard
- 4MB RAM as standard
- 600dpi laser technology (1200dpi KIR2)
- Advanced modular paper handling options
- SNMP-compliant network printer management
- Ideal high performance network printer
- Ultra-low consumables costs



FS-800

only £415
(£487.62 inc VAT)

- High performance personal/small workgroup printer
- 8ppm print speed
- 4MB RAM, upgradeable to 36MB
- Ultra fast 50MHz Power PC processor
- 600dpi plus resolution enhancement
- PCL5e & PostScript level 2 emulations as standard
- 150-sheet enclosed paper cassette
- Compact, robust design
- Low cost per page - 1p per page 5% and RRP
- Options include 250-sheet second cassette, network and serial interfaces



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LASER PRINTERS

BROTHER	ex VAT	inc VAT
HL-820	159	186.82
HL-1040	215	252.62
HL-1050	239	280.82
HL-1070 PostScript	299	351.32
HL-1050	265	311.37
HL-1070 8Mb	329	386.57
HL-1660e	639	750.82
HL-1660en Ethernet	859	1009.32
HL-2400c Colour	2349	2760.07
HL-2400c Colour Ethernet	2685	3154.87

Accessories		
RS-100M HL-730/760/1060 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-730/760 1yr OSM	10	11.75
HL-730/760 2yr OSM	69	81.07
HL-1060 2yr OSM	89	104.57
HL-1660 2yr OSM	149	175.07
HL-2400c 2yr OSM	900	1057.50

CANON		
LBP-660	185	217.37
LBP-1760	655	769.62

EPSON		
EPL-5700	304	357.20
EPL-5700EN Ethernet	456	535.80
EPL-5700PS PostScript	456	535.80
EPL-N1200	593	696.77
EPL-N1200EN Ethernet	791	929.42
EPL-N1200PS PostScript	986	1158.55
EPL-N2000	1278	1501.65
EPL-N2000PS PostScript	1582	1858.85

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-N2000 250sht A3 Lower Feeder	225	264.37
EPL-N2000 500sht A4 Lower Feeder	225	264.37
EPL-N2000 Duplex Unit	279	327.82
Type B Ethernet Interface	245	287.87
Type B LocalTalk Interface	99	116.32
Type B Serial Interface	75	88.12

WARRANTY

EPL-5700 3yr CoverPlus	65	76.37
EPL-N1200 3yr CoverPlus	149	175.07
EPL-N2000 3yr CoverPlus	259	304.32

FUJITSU

Print Partner 10V	439	515.82
Print Partner 12V	579	680.32
Print Partner 16DV	729	856.57
Print Partner 16ADV	929	1091.57

HEWLETT PACKARD

LaserJet 6L	232	272.60
LaserJet 6P	461	541.67
LaserJet 6MP PostScript	562	660.35
LaserJet 4000 PostScript	711	835.42
LaserJet 4000T Twin Cassette PostScript	787	924.72
LaserJet 4000N Ethernet PostScript	914	1073.95
LaserJet 4000TN Twin Cass Enet PScript	990	1091.57
LaserJet 5000 A3 PostScript	929	1091.57
LaserJet 5000N A3 Ethernet PostScript	1334	1567.45
LaserJet 5000GB A3 Ethernet PostScript	1649	1937.57
LaserJet 8000 A3 PostScript	1604	1884.70
LaserJet 8000N A3 Ethernet PostScript	1791	2104.42
LaserJet 8000DN A3 Enet PScript Duplex	2099	2466.32
Ujet Mopier 240 A3 Enet PScript Duplex	2362	2775.35
LaserJet 5 Colour	2460	2890.50
LaserJet 5N Colour Ethernet	2700	3172.50
LaserJet 5M Colour PostScript	3099	3641.32

Accessories

LaserJet Companion	78	91.65
LaserJet 4000 500sht Tray	75	88.12
LaserJet 4000 500sht Universal Tray	85	99.87
LaserJet 4000 500sht Feeder	179	210.32
LaserJet 4000 75sht Envelope Feeder	195	229.12
LaserJet 4000 Duplex Unit	175	205.62
LaserJet 5000 250sht Tray	89	104.57
LaserJet 5000 500sht Tray	125	146.87
LaserJet 5000 250sht Feeder	149	175.07
LaserJet 5000 500sht Feeder	209	245.57
LaserJet 5000 Duplex Unit	295	346.62
LaserJet 8000 Envelope Feeder	279	327.82
LaserJet 8000 2000sht Feeder	585	687.37
LaserJet 8000 2 x 500sht Feeder	635	746.12
LaserJet 8000 7bin Tabletop Mailbox	519	609.82
LaserJet 8000 Multi-bin Mailbox	779	915.32
LaserJet 8000 5bin Mailbox & Stapler	1099	1291.32

INTERNAL EIO/MIO

J2550B JetDirect RJ45 MIO	189	222.07
J2552B JetDirect Combo/LocalTalk MIO	225	264.37
J2556B JetDirect 10/100 RJ45 MIO	245	287.87
J3110A JetDirect 600N RJ45 EIO	165	193.87
J3113A JetDirect 600N 10/100 RJ45 EIO	265	311.37

Tally

Professional Printing Solutions

T9006

mono laser printer

- Low cost of ownership
- Small and compact
- 6 pages per minute
- 600 dpi resolution
- PCL6 emulation
- 2MB RAM
- Win 3.x, Win 95, WinNT 4 driver software
- Silent operation
- Parallel interface
- 1 year on site warranty

FREE
Mobile Phone
with T9006*



Tally T9006 laser printer

T9006 £185 (£217.37) *Offer ends 31.10.98, call for details



Tally T9208 laser printer

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.

T8104/plus

colour laser printers

- T8104: 600 x 600 dpi resolution
24MB RAM
- T8104 plus: 2400 x 600 dpi resolution
80MB RAM
IDE Internal Hard Drive
- Up to 8 ppm colour, 16 ppm mono
- 133 MHz RISC processor
- PostScript Level 2 and PCL5c emulation
- Parallel, Serial & Ethernet interfaces

T8104 £2269 (£3132.63)

T8104 plus £3079 (£3617.82)



Tally T8104 colour laser printer

EXCELLENT PRINT QUALITY, AT AN AFFORDABLE PRICE

LASER PRINTERS continued

HEWLETT PACKARD cont

External EIO/MIO	ex VAT	inc VAT
J2590A JetDirect External Plus3 10/100	349	410.07
J2591A JetDirect External Plus Combo	175	205.62
J2592A JetDirect 150X Ext RJ45	99	116.32
J2593A JetDirect External Plus 3 Combo	229	269.07
J3263A JetDirect 300X Ext 10/100 RJ45	185	217.37

Memory		
LJ4000/5000/8000 4Mb SDRAM	39	45.82
LJ4000/5000/8000 8Mb SDRAM	65	76.37
LJ4000/5000/8000 16Mb SDRAM	115	135.12
LJ4000/5000/8000 32Mb SDRAM	219	257.32
LJ4000/5000/8000 2Mb Flash RAM	159	186.82
LJ4000/5000/8000 4Mb Flash RAM	219	257.32

Warranty		
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	278.12
LJ8000 3yr Support Pack	530	622.75
Colour LaserJet 3yr Support Pack	619	727.32

KYOCERA

FS-600	239	280.82
FS-800	415	487.62
FS-1700	494	580.45
FS-1700T Twin Cassette	569	668.57
FS-1700N Ethernet	655	769.62
FS-1700M PostScript	779	915.32
FS-3700+ PostScript	679	797.82
FS-3700+ Twin Cassette PostScript	749	880.07
FS-3700N+ Ethernet PostScript	855	1004.62
FS-3700TN+ PostScript Twin Cas Enet	929	1091.57
FS-6500 A3	1175	1380.62
FS-7000 A3 Twin Cassette	1779	2090.32
FS-7000NDX A3 Twin Cassette Ethernet	1919	2254.8

Accessories		
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-1550/FS-3400/FS-6500 Accessories		
HS-1 500 Sheet Output Stacker	99	116.32
DU-1 Duplex Unit	375	440.62
HS-3 2000 Sht Face-Up Output Stacker	419	492.32
UF-1 100 Sheet Universal Feeder	175	205.62

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

LEXMARK

Optra E+	235	276.12
Optra K 1220	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
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

	ex VAT	inc VAT
PagePro 6L	175	205.62
PagePro 6	239	280.82
PagePro 6E	275	323.12

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Professional printers



HP LaserJet 6L

The fast personal laser printer for business users. It offers you professional laser printing efficiency in a worry-free environment with the undisputed quality and reliability of HP LaserJet products.

- Up to 6 ppm print speed
- 600 dpi resolution plus RFt & Microfine toner
- 100 sheet input tray, straight through paper path
- DOS/Win 3.1x/95/NT 4.0 compatible
- 1 year return to HP warranty

6L £232 (£272.60 inc VAT)
With HP SupportPack £299 (£351.32 inc VAT)



HP LaserJet 6P

The fast, versatile laser printer for business users with growing needs. With its performance, its capability to handle a wide variety of paper types and size and its extensive connectivity it can be shared in small work groups.

- Up to 8 ppm print speed
- 600 dpi resolution
- PCL6 and PostScript Level 2 emulation (MP only)
- 250 sheet input tray, 100 sheet multi-purpose tray
- DOS/Win 3.1x/95/NT 4.0/Mac (MP only) compatible
- 1 year return to HP warranty

6P £461 (£541.67 inc VAT)
With HP SupportPack £603 (£708.52 inc VAT)

6MP £562 (£660.35 inc VAT)
With HP SupportPack £704 (£827.20 inc VAT)



PostScript on all models

All 17ppm, up to 1200d

4000N/TN Network Ready

HP LaserJet 4000

The new standard for network printing.

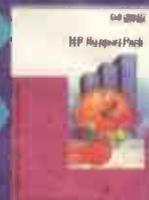
- Up to 17 ppm engine and 100MHz RISC processor
- 1200 dpi resolution with UltraPrecise Toner
- PCL6 and PostScript Level 2 emulation
- 4MB memory with MEt (8Mb on 4000N/TN)
- 100x500sh input trays (2x 250sh on 4000T/TN)
- Parallel, Serial, Ethernet (4000N/TN only)
- 1 year return to HP warranty

4000 £711 (£835.42 inc VAT)
With HP SupportPack £891 (£1046.92 inc VAT)

4000T £787 (£924.72 inc VAT)
With HP SupportPack £967 (£1136.22 inc VAT)

4000N £914 (£1073.95 inc VAT)
With HP SupportPack £1094 (£1285.45 inc VAT)

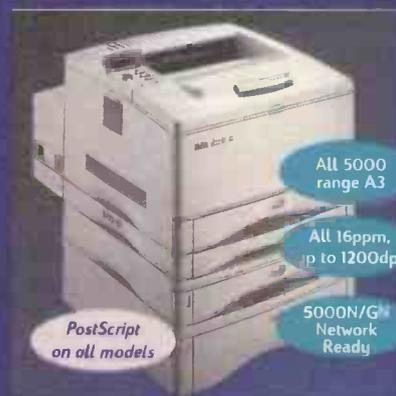
4000TN £990 (£1173.82 inc VAT)
With HP SupportPack £1170 (£1371.17 inc VAT)



HP Laser Printers

...set the standard

For black and white printing, nothing beats an HP LaserJet printer for quality and value...



All 5000 range A3

All 16ppm, up to 1200dpi

5000N/GN Network Ready

PostScript on all models

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)



All 8000 A3 capable

All 24ppm, up to 1200dpi

8000N/DN Network Ready

PostScript on all models

HP LaserJet 8000 HP LaserJet Mopier 240

The advanced workgroup printer for economical and effortless high performance.

- Up to 24 ppm engine and 133MHz RISC processor
- 1200 dpi resolution with UltraPrecise Toner
- PCL6 and PostScript Level 2 emulation
- 16MB (24MB & 1.4Gb HD on Mopier)
- 1100 sheet input (plus Duplex on 8000DN/Mopier)
- Parallel, Serial, Ethernet (8000N/DN/Mopier only)
- 1 year return to HP warranty

8000 £1574 (£1849.45 inc VAT)
With HP SupportPack £2104 (£2472.20 inc VAT)

8000N £1762 (£2070.35 inc VAT)
With HP SupportPack £2292 (£2693.10 inc VAT)

8000DN £2062 (£2422.85 inc VAT)
With HP SupportPack £2592 (£3045.60 inc VAT)

Mopier 240 £2362 (£2775.35 inc VAT)
With HP SupportPack £3093 (£3634.27 inc VAT)



HP Colour LaserJet 5

Fast, photorealistic colour laser printing for persuasive business documents.

- Up to 10 ppm B&W, up to 2ppm Colour
- 300 dpi resolution with Image REt 1200
- PCL5 and PostScript Level 2 (5M only)
- 20MB with MEt
- 250 sheet input tray
- Parallel, Ethernet (5N only)
- 1 year return to HP warranty

5 £2460 (£2890.50 inc VAT)
With HP SupportPack £3079 (£3617.82 inc VAT)

5M £3099 (£3641.32 inc VAT)
With HP SupportPack £3718 (£4368.65 inc VAT)

Lasers

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Corporate **0870 129 3010**

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Home/Office printers



HP DeskJet 420C

The affordable friend that makes a great first printer. Ready to handle correspondence and fun projects right out of the box.

- Up to 3 ppm black, 0.25 ppm colour
- Resolution: 600 dpi black, 300 dpi colour
- 50 sheet input tray
- DOS, Win 3.1x, Win 95 compatible
- 1 year unit exchange warranty

420C **£66** (£77.55 inc VAT)
With HP SupportPack £Call (£Call inc VAT)



HP DeskJet 690C

The smart friend for quality, everyday printing.

- Up to 5 ppm mono, 1.7 ppm colour
- Resolution: 600 dpi black, 600 x 300 dpi colour
- Optional photo cartridge
- DOS, Win 3.1x, Win 95 & Win NT 4 compatible
- 1 year unit exchange warranty

690C **£96** (£112.80 inc VAT)
With HP SupportPack £Call (£Call inc VAT)

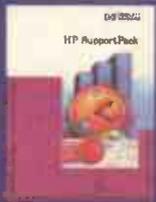


HP DeskJet 890C

Introducing the premium colour inkjet that makes you look professional.

- Up to 9 ppm mono, 5 ppm colour/text
- 600 dpi resolution
- Photo REt II for photo-quality colour
- Handles up to 150 sheets
- DOS, Win 3.1x, Win 95 & Win NT 4 compatible
- 1 year unit exchange warranty

890C **£202** (£237.35 inc VAT)
With HP SupportPack £268 (£237.35 inc VAT)



Free! Cost support for 3 years

HP InkJet Printers

...the best way to express your bright ideas

HP InkJet printers are more affordable than ever, and with fast performance and photo-quality output even on plain paper, who can resist? You can use HP InkJets in your business to add colour to memos and make an impact in presentations. At home, you can produce everything from homework and greeting cards, to photo projects and T-shirts. Where does it say that work can't be fun?



HP DeskJet 710C/720C

The flexible partner that gives you great results with no hassle. Fast and quiet, and prints photos without changing cartridges.

- 6 ppm mono, 3 ppm colour, 0.1 ppm photo (710C)
- 8 ppm mono, 4 ppm colour, 0.3 ppm photo (720C)
- Resolution: 600 dpi black
- Photo REt II for photo-quality colour
- Crisp, quality black text with HP's patented ink
- 100 sheet input tray
- Prints on a wide range of media
- Includes Kodak Image Enhancements for amazing photo-quality colour on HP Deluxe Photo Paper
- 2MB RAM (710C), 512k RAM (720C)
- Amazingly quiet/compact design
- Easy setup and installation
- 1 year unit exchange warranty

710C **£134** (£157.45 inc VAT)
With HP SupportPack £Call (£Call inc VAT)

720C **£149** (£175.07 inc VAT)
With HP SupportPack £Call (£Call inc VAT)



HP DeskJet 1120C

The versatile consultant that delivers photo-quality colour prints from postcards to poster.

- Print Speed: 6.5 ppm black (A4), 4.5 ppm color (A4)
4 ppm black (A3), 3 ppm color (A3)
- Resolution: 600 dpi
- Photo REt II for photo-quality colour
- HP ColorSmart II
- HP SmartFocus
- 150 sheet input tray
- Supports Intel's MMX technology
- DOS, Win 3.1x, Win 95 & Win NT 4 compatible
- 2MB RAM
- Easy setup and installation
- 1 year unit exchange warranty

1120C **£285** (£290.22 inc VAT)
With HP SupportPack £325 (£290.22 inc VAT)



HP 2000C

The professional consultant that lets you get down to business with breakthrough colour printing speed.

- 10 ppm black, 7 ppm colour
- Full page business graphics: 4 ppm
- 600 dpi black
- 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)
- DOS, Win 3.1x, Win 95 & Win NT 4 compatible
- 1 year unit exchange warranty

2000C **£450** (£528.75 inc VAT)
With HP SupportPack £Call (£Call inc VAT)

2000CN **£675** (£793.12 inc VAT)
With HP SupportPack £Call (£Call inc VAT)

New Product

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5

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EPSON

EPSON STYLUS PHOTO 700



£163
(£191.52 inc VAT)

EPSON COVERPLUS +
EPSON CoverPlus three year extended warranty service available
£59.00 (£69.32 inc VAT)

New Generation Home Printer for Photos & Text

- Perfect for photo reproduction, editing and output up to A4
- Windows 3.1, Windows NT and Macintosh compatible
- 1440 dpi and Super MicroDot for the highest photo quality output
- Epson PhotoEnhance 2 - automatically optimises photo output
- Includes Adobe Photo Deluxe V2.0

EPSON EPL-5700



EPL-5700 £304
(£357.20 inc VAT)

EPL-5700EN £456
(£535.80 inc VAT)

EPL-5700PS £456
(£535.80 inc VAT)

1200 dpi High Performance Laser Printer

- 8ppm with 100MHz RISC processor • True 600 x 600dpi
- 1200dpi with MicroGray 1200 and RITech
- 4MB RAM - upgradeable to 36MB
- Up to 650 sheets capacity with optional paper cassette
- Advanced features 'Watermark', 'Multiple Pages per Sheet', '1200dpi class'
- Parallel & Serial interfaces as standard
- Standard, Network & PostScript ready configurations
- 1 year RTB warranty with Optional Epson Cover Plus for 3 year warranty

EPSON COVERPLUS +
EPSON CoverPlus three year extended warranty service available
£59.00 (£69.32 inc VAT)

EPSON STYLUS COLOR 1520



£451
(£529.92 inc VAT)

EPSON COVERPLUS +
EPSON CoverPlus three year extended warranty service available
£99.00 (£116.32 inc VAT)

1440dpi A3+ Wide Format Printer

- 1440dpi print quality up to 6ppm black & 6ppm colour
- A3+ printing • PC and Mac compatible as standard
- 'Look Your Best Color Pack'
- Optional PostScript RIP software
- Optional Network connectivity

EPSON STYLUS PHOTO EX



£308
(£361.90 inc VAT)

EPSON COVERPLUS +
EPSON CoverPlus three year extended warranty service available
£99.00 (£116.32 inc VAT)

Brilliant Professional A3 Colour Images at 1400dpi

- Photo Reproduction Quality Output - up to A3 printing
- 1440 dpi & smaller Super MicroDot for photo quality
- EPSON PhotoEnhance 2 optimises photo output
- Includes Adobe Photoshop LE
- Windows 3.1, Windows NT and Mac compatible

EPSON STYLUS COLOR 850



£207
(£243.22 inc VAT)

EPSON COVERPLUS +
EPSON CoverPlus three year extended warranty service available
£59.00 (£69.32 inc VAT)

The Ideal Professional and Business Printer

- Up to 9ppm mono and 8.5ppm colour
- 1440 dpi colour printing on plain paper
- PhotoReal Colour & Laser-sharp Black output as standard
- Windows 3.1, Windows NT and Macintosh compatible
- Optional network and Postscript capability
- PC and Mac support as standard • High capacity dual ink cartridge system
- New full function status monitor
- 1 year RTB warranty

EPSON STYLUS PRO 5000



£1587
(£1864.72 inc VAT)

EPSON COVERPLUS +
EPSON CoverPlus three year extended warranty service available
£399.00 (£468.82 inc VAT)

The New Standard in Professional Photo-Quality Printing

- 1440 dpi, six colour technology, with enhanced EPSON SuperMicroDot
- A3+ printing for pre-press proofing and photographic output
- Optional low cost PostScript compatibility
- 6Kb RAM expandable to 96MB
- Windows and Mac compatible with optional network connection
- Upgradeable to an EPSON COLOR Proofer 5000

Inkjets

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EPSON

EPSON STYLUS COLOR 740

State-of-the-art Colour Inkjet Printer for Advanced Home and Business Users

EPSON Ultra MicroDot™ The World's Smallest Ink Droplet

- EPSON Ultra Microdot™ - the world's smallest ink droplet in black and colour
- 1440 dpi with variable-sized droplet technology
- Advanced PhotoReal colour printing • 40% speed improvements
- Parallel, serial & USB interfaces • Win 95, 98, NT 4.0 & MAC compatible
- Highest quality output on all media types including plain paper
- Advanced 4 colour dual-cartridge ink system
- New printer driver enhancements • New full function status monitor
- Free NEW Advanced 'PerfectPicture Pak' software & paper media bundle
- 1 year RTB with optional 3 year extended warranty
- EPSON Coverplus three year extended warranty service available - £59 +VAT



NEW

iMac compatible



£177 (€207.97 inc VAT)

EPSON STYLUS COLOR 640

Superior Colour Inkjet Printer for a Broad Range of Home Applications

1440 dpi Photo-Real output with no hidden extras.

- 1440 dpi colour & true black printing with EPSON Super MicroDot™
- Fast print speeds • EPSON PhotoEnhance 3 for Optimisation for digital images
- Windows 95 & 98 compatibility • High quality output on all media types including plain paper
- Free NEW Advanced 'PerfectPicture Pak' software bundle • Advanced Dual-Cartridge ink system
- New printer driver enhancements • New full function status monitor
- 1 year RTB with optional 3 year extended warranty
- EPSON Coverplus three year extended warranty service available - £35 +VAT



NEW



£133 (€156.27 inc VAT)

EPSON STYLUS COLOR 440

A Perfect Introduction to Colour Printing at Home

Low cost, easy to use, high-quality 720dpi colour inkjet printer

- 720 dpi PhotoReal colour & black printing • Designed for ease of use - ideal for first time buyer
- Easy to use Interactive Online help • Fast print speeds
- Free NEW Advanced 'PerfectPicture Pak' software bundle
- Free PhotoQuality Paper Pack • High quality output on all media types including plain paper
- Advanced dual-cartridge ink system • New printer driver enhancements • New full function status monitor
- Windows '95 ICM colour compliance • 1 year RTB with opt 3 year extended warranty
- EPSON Coverplus three year extended warranty service available - £35 +VAT



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PagePro 8	249	292.57
PagePro 8E	325	381.87
PagePro 12	555	652.12
PagePro 20	845	992.87
Colour PagePro	1699	1996.32
Colour PagePro PS	2149	2525.07
OKI		
OkIPage 4w plus	135	158.62
OkIPage 6e	189	222.07
OkIPage 6ex	219	257.32
OkIPage 8C Colour	2199	2583.82
OkIPage 8CN Colour Ethernet	2379	2795.32
OkIPage 10I	359	421.82
OkIPage 10IS	395	464.12
OkIPage 10IEN Ethernet	445	522.87
OkIPage 16N	579	680.32
OkIPage 16NPS PostScript	699	821.32
OkIPage 16N Ethernet	749	880.07
OkIPage 16ENPS Ethernet PostScript	869	1021.07
OkIPage 20N	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
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
2060IS	1999	2348.82
2060EX	2669	3136.07
2425PS	2869	3371.07
2425EX	4149	4875.07
MagiColor 2 DeskLaser	1549	1820.07
MagiColor 2 CX 24Mb	2349	2760.07
MagiColor 2 CX Exec 80Mb	3199	3758.82
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
SHARP		
JX-9680 Twin Cassette	549	645.07
JX-9685 Duplex	799	938.82
JX-9865N Duplex Ethernet	899	1056.32
TALLY		
T9006	185	217.37
T9208	219	257.32
T9112	449	527.57
T9016D	615	722.82
T8104 Colour	2269	2666.07
XEROX		
4508	265	311.37
4512 Duplex	709	833.07
4512N Duplex Ethernet	789	927.07
4512MP PostScript	995	1169.12
N17B PostScript	679	797.82
N17 Ethernet PostScript	749	880.07
N24 Ethernet PostScript	1569	1843.57
N32 Ethernet PostScript	1729	2031.57
N32CN Duplex	2769	3253.57
N32FN Duplex Finisher Stapler	4289	5039.57
N40 Ethernet PostScript	1949	2290.07

Xerox DocuPrint



Xerox DocuPrint XJ6C

New Xerox DocuPrint XJ6C

An affordable, quality colour inkjet printer for the home & office.

- 5 ppm mono, 2.5 ppm colour
- 1200 x 600 dpi photo-realistic printing
- 4 individual ink cartridges with ink level sensors
- Optional Turbo Black cartridge - 7 ppm laser-like quality

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Xerox DocuPrint XJ8C

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A high performance colour inkjet printer with big business features at a personal printer price.

- 8 ppm mono, 4 ppm colour
- 1200 x 1200 dpi photo-realistic printing
- 4 individual ink cartridges with ink level sensors
- Laser-sharp black text for professional results

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Xerox DocuPrint P8e

New Xerox DocuPrint P8e

The affordable solution to fast, productive mono laser printing for the personal user.

- Up to 8ppm
- True 600 x 600 dpi resolution
- Choice of available fonts
- 150 sheets standard paper capacity

only £229 (£269.07 inc VAT)



Xerox DocuPrint P12

New Xerox DocuPrint P12

In addition to fast, high quality laser printing, also incorporates the award winning Adobe PrintGear technology to increase productivity and enable graphics & photographic printing. Suited to small workgroups.

- 600 x 600 dpi
- Flexible paper handling with 250 sheet paper cassette as standard
- 12ppm
- Duplex as standard, plus other enhanced printing formatting features
- Quick return to application
- Adobe PrintGear technology

only £429 (£504.07 inc VAT)



Xerox DocuPrint N17

Xerox DocuPrint N17/N17b

Network Laser Printer

- 1200 x 600dpi laser technology
- 17 pages per minute
- 16 MB memory, upgradeable to 104 MB
- PCL5e emulation and PostScript Level 3
- Edge-to-edge printing, all sizes
- XIE Resolution Enhancement
- 250 sheet tray, optional offset catch tray
- Optional Ethernet (standard on N17)
- 1 year on-site limited warranty

DocuPrint N17 £749 (£880.07 inc VAT)

DocuPrint N17b £679 (£797.82 inc VAT)

N24/N32/N40 Network Laser Printers

N24:	Docuprint 24ppm network laser printer	£1569	(£1843.57 inc VAT)
N32:	Docuprint 32ppm network laser printer	£1729	(£2031.57 inc VAT)
N32CN:	With Duplex & 2500 Sheet Feeder	£2769	(£3253.57 inc VAT)
N32FN:	With Duplex, 2500 Sheet Feeder, HD & finisher/stapler	£4289	(£5039.57 inc VAT)
N40:	Docuprint 40ppm network laser printer	£1949	(£2290.07 inc VAT)
N40CN:	With Duplex & 2500 Sheet Feeder	£2948	(£3463.90 inc VAT)
N40FN:	With Duplex, 2500 Sheet Feeder, HD & finisher/stapler	£4499	(£5286.32 inc VAT)

C55/C55MP/C55MPV Colour Laser Printers

C55:	Docuprint colour laser printer (3ppm col, 12 ppm b/w)	£1779	(£2090.32 inc VAT)
C55MP:	With Ethernet/PostScript (3ppm col, 12 ppm b/w)	£2345	(£2755.37 inc VAT)
C55MPV:	With Ethernet/PostScript plus 2nd bin and HD Drive	£3045	(£3577.87 inc VAT)



THE DOCUMENT COMPANY
XEROX



LASER PRINTERS continued

	ex VAT	inc VAT
XEROX continued		
DocuPrint C55	1779	2090.32
DocuPrint C55MP PostScript	2345	2755.37
DocuPrint C55MPV PostScript	3045	3577.87
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	1643.82
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

INKJET PRINTERS

	ex VAT	inc VAT
CANON		
BJC-50	192	225.60
BJC-80	142	166.85
BJC-80 & Colour Scanner	185	217.37
BJC-250	71	83.42
BJC-4300	89	104.57
BJC-4300 & Colour Scanner	122	143.35
BJC-4650	197	231.47
BJC-4650 & Colour Scanner	235	276.12
BJC-5000	Call	Call
BJC-5500	409	480.57
BJC-7000	178	209.15

EPSON		
Stylus Colour 300	83	97.52
Stylus Colour 400	89	104.57
Stylus Colour 440	103	121.02
Stylus Colour 600	118	138.65
Stylus Colour 640	133	156.27
Stylus Photo 700	163	191.52
Stylus Photo 740	177	207.97
Stylus Colour 850	207	243.22
Stylus Photo EX	308	361.90
Stylus Colour 1520	451	529.92
Stylus Colour 3000	1119	1313.65
Stylus Colour Pro 5000	1591	1869.42
PostScript RIP	89	104.57

HEWLETT PACKARD		
Deskjet 340C	135	158.62
Deskjet 340CBI	166	195.05
Deskjet 420C	66	77.55
Deskjet 690C	96	112.80
Deskjet 710C	134	157.45
Deskjet 720C	156	183.30
Deskjet 890C	202	237.35
Deskjet 1120C	285	334.87
Deskjet 2000C	450	528.75
Deskjet 2000CN	675	793.12

LEXMARK		
Colour JetPrinter 1100	84	98.70
Colour JetPrinter 3200	135	158.62
Colour JetPrinter 5700	169	198.57
Colour JetPrinter 7200	195	229.12
Optra Colour 40	289	339.57
Optra Colour 40N	449	527.57
Optra Colour 45 A3	629	739.07
Optra Colour 45N A3	999	1173.82

OLIVETTI		
JP190	99	116.32
JP792	129	151.57
JP795	149	175.07

TALLY		
T-7060	169	198.57
T-7070	399	468.82

XEROX		
XJ6C	114	133.95

PLOTTERS

	ex VAT	inc VAT
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	5894.96
DesignJet 2000CP	5392	6335.60
DesignJet 2500CP	6292	7393.10

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LASER CONSUMABLES

BROTHER		ex VAT	inc VAT
DR-100	HL-630/631/660 Drum	84	98.70
DR-200	HL-730/760 Drum	74	86.95
DR-300	HL-1060 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-1060 Toner	14	16.45
9832	HL-2400C Black Toner	90	105.75
9833	HL-2400C Cyan Toner	72	84.60
9834	HL-2400C Magenta Toner	72	84.60
9835	HL-2400C Yellow Toner	72	84.60
9837	HL-2400C Fuser	58	68.15
9838	HL-2400C Waste	12	14.10

CANON		ex VAT	inc VAT
EPA	LBP-460/465/660 Toner	30	35.25
EPE	LBP-1260 Toner	54	63.45

EPSON		ex VAT	inc VAT
S050005	EPL-5500 Toner	28	32.90
S050010	EPL-5700 Toner	55	64.62
S051016	EPL-5600 Toner	67	78.72
S051016	EPL-N1200 Toner	66	77.55
S051022	EPL-9000 Toner	129	151.57
S051029	EPL-5500 Photoconductor	40	47.00
S051035	EPL-N2000 Toner	114	133.95
S051055	EPL-5700 Drum	42	49.35

HEWLETT PACKARD		ex VAT	inc VAT
92274A	LJ 4L/4P Toner	43	50.52
92275A	LJ HP/HP Toner	52	61.10
92291A	LJ HP/HP Toner	69	81.07
92295A	LJ HP/HP Toner	44	51.70
92298A	LJ 4/4/5 Toner	42	49.35
C3900A	LJ 4V/4MV Toner	43	50.52
C3903A	LJ 5P/5MP/6P/6MP Toner	50	58.75
C3906A	LJ 5L/6L Toner	39	45.82
C3909A	LJ 5S/5SD/5M/5M/240 Toner	95	111.62
C3964A	Colour LJ5 Coating Kit	30	35.25
C3965A	Colour LJ5 Black Developer	109	128.07
C3966A	Colour LJ5 Colour Developer	314	368.95
C3967A	Colour LJ5 Print Drum	198	232.65
C3968A	Colour LJ5 Transfer Belt	105	123.37
C3969A	Colour LJ5 Fuser Unit	165	193.87
C4127A	LJ 4000 6k Toner	55	64.62
C4127X	LJ 4000 10k Toner	77	90.47
C4129X	LJ 5000 Toner	93	109.27

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 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
6968256	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
4452	400/410/800 Toner	15	17.62
4459	400/410/800 OPC Drum	132	155.10
4851	600/6e/6ex/810/Fax Toner	14	16.45
4858	600/6e/6ex/810/Fax Drum	99	116.32
5075	1200ex/16n Toner	32	37.60
5082	1200ex Drum	185	217.37
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

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
1710146-001	2425 Toner	132	155.10
1710171-001	2060/DeskLaser 2000 Toner	140	164.50
1710188-001	MagiColor2 Yellow Toner	104	122.20
1710188-002	MagiColor2 Magenta Toner	104	122.20
1710188-003	MagiColor2 Cyan Toner	104	122.20
1710188-004	MagiColor2 Black Toner	118	138.65
1710262-001	DeskLaser 1400/1600 Toner	76	89.30
1730490-001	DeskLaser GPCF Toner	69	81.07
1730500-001	DeskLaser 600 Toner	65	76.37



HP SupportPack PC's & Peripherals

HP SupportPack PCs & Peripherals is a hardware warranty upgrade service that gives you fast, reliable, high quality support direct from the company who manufactures the product.

HP SupportPack PCs & Peripherals is an off the shelf support contract designed to give computer users, large or small, complete peace of mind with 3 year's extended warranty, on-site hardware support.

All you need to do if you experience a hardware problem on any of your covered products is call the telephone number provided in your HP SupportPack. Once you've placed the call a highly trained engineer will get to work immediately to ensure your hardware is up and running in the shortest time possible.

All HP engineers are highly trained to provide a rapid, professional response, so you know your hardware is in safe hands.

PC's & Peripherals - Response Levels

Service	Response Level
Next Day	9am to 5pm, Monday to Friday except Public Holidays. Arrival on-site next working after call is received
Next Day Unit Exchange	9am to 5pm, Monday to Friday except Public Holidays. Permanent replacement unit supplied



Service Features

- 3 year's on-site hardware support
- Covers HP products only
- Repair and support delivered to you at your home and office (on-site)
- Includes parts, labour and travel at no cost
- European coverage
- Transferable with product
- Service and support direct from HP

Benefits to You

- Allows you to enhance your service over and above standard HP product warranty
- Provides fixed cost of ownership for 3 years
- Gives you peace of mind that you have the best support available
- Service delivered to you, at your site, throughout Europe
- Expert assistance
- Rapid professional response

LASER CONSUMABLES

QMS continued		ex VAT	inc VAT
EP-B II	860/1660 Toner	122	143.35
1710084-001	1060 Toner	125	146.87
	1160 Toner	122	143.35

SHARP		ex VAT	inc VAT
JX92DR	JX-9200/9210 Drum	54	63.45
JX92TC	JX-9200/9210 Toner	39	45.82
JX96DC	JX-94x0/96x0 Toner/Developer	88	103.40
JX96DR	JX-94x0/96x0 Drum	78	91.65
JX96DR1	JX-9680 Toner/Developer	105	123.37

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-9014 Toner 2pk	52	61.10

XEROX		ex VAT	inc VAT
101R00090	4512 Drum	94	110.45
106R00088	4512 Toner	90	105.75
113R00184	N24/N32 Toner	204	239.70
113R265	4508 Toner	75	88.12
6R856	C55 Black Toner	13	15.27
8R772A	C55 Fuser Oil	35	41.12
8R7759	C55 Toner Collector	12	14.10
8R857	C55 Cyan Toner	48	56.40
8R858	C55 Magenta Toner	48	56.40
8R859	C55 Yellow Toner	48	56.40
113R00005	4505/4510 Toner	78	91.65
113R00095	4517 Toner	102	119.85
113R1110	4520 Toner	225	264.37

STATIONERY

CANON		ex VAT	inc VAT
BF-102 A3	BJC-4550 Back Print 20sht	46	54.05
CF-102 A4	A4 Transp 50sht	29	34.07
DF-102 A4	A4 Back Print 20sht	28	32.90
FS-101 A4	A4 Fabric 10sht	33	38.77
GP-201 A4	A4 Glossy 20sht	6	7.05
HG-101 A3	BJC-4550 High Gloss 20sht	33	38.77
HG-101 A4	A4 Glossy Film 20sht	17	19.97
HR-101 A3	A3 Coated 720dpi 100sht	18	21.15
HR-101 A4	A4 Coated 720dpi 200sht	18	21.15
LC-101 A3	A3 Coated 200sht	37	43.47
LC-101 A4	A4 Coated 200sht	19	22.32
LC-301 A3	BJC-4550 A3 Coated 200sht	21	24.87
TR-201	Transfer Material 10sht	12	14.10

EPSON		ex VAT	inc VAT
S041006	A4 Photo Self-Adhesive 10sht	8	9.40
S041059	A4 360dpi 100sht	6	7.05
S041061	A4 Photo 1440dpi 100sht	8	9.40
S041063	A4 Transp 360dpi 30sht	32	37.60
S041065	A3 360dpi 100sht	19	22.32
S041066	A3+ 360dpi 100sht	21	24.67
S041068	A3 Photo 1440dpi 100sht	26	30.55
S041069	A3+ Photo 1440dpi 100sht	30	35.25
S041071	A4 Photo Glossy 1440dpi 15sht	22	25.85
S041073	A3 Photo Glossy 1440dpi 10sht	39	45.82
S041074	A3+ Photo Glossy 1440dpi 10sht	49	57.57
S041078	A2 360dpi 30sht	19	22.32
S041079	A2 Photo 1440dpi 30sht	24	28.20
S041102	Banner 15m 1440dpi	24	28.20
S041107	A6 Photo Glossy Film 10sht	4	4.70
S041121	A5 Photo 30sht	5	5.87
S041121	5" x 8" Photo Card	5	5.87
S041122	8" x 10" Photo Card	12	14.10
S041123	A2 Photo Glossy	33	38.77
S041125	A3 Photo Glossy	17	19.97
S041126	A4 Photo Glossy	6	7.05
S041130	A2 Backlit Film 10sht	49	57.57
S041131	A3 Backlit Film 10sht	30	35.25
S041132	Stylus 3000 Canvas Cloth	38	44.65
S041133	A3+ Photo Glossy	20	23.50
S041134	A6 Photo 20sht	5	5.87
S051031	Stylus A4 Starter Pack	15	17.62
S051054	A6 Photo Index Card 50sht	6	7.05
SE41001	A4 Iron on Transfer 10sht	10	11.75
SE41003	A3 Iron on Transfer 10sht	72	84.60

HEWLETT PACKARD		ex VAT	inc VAT
51634Z	Premium A4 200sht	12	14.10
C1821A	Banner A4 100sht	8	9.40
C1825A	Bright White A4 500sht	9	10.57
C1847A	DJ 690C Photo	7	8.22
C1856A	Premium A3 100sht	18	21.15
C1858A	Bright White A3 200sht	16	18.80
C3831A	Premium Glossy A4 10sht	6	7.05
C3832A	Premium Transp A4 20sht	14	16.45
C3835M	Premium Transp A4 50sht	32	37.60
C3837A	Premium Glossy A4 50sht	30	35.25
C5987A	Glossy Photo 20sht	4	4.70
C6040A	Premium Photo 15sht	6	7.05

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ORIGINAL INKJET CARTRIDGES

CANON		ex VAT	inc VAT
BC-01	BJ-10/20 Black	12	14.10
BC-02	BJ-150/200/210/240/250 Black	12	14.10
BC-05	BJC-150/210/240/250 Colour	14	16.45
BC-06	BJC-240/250 PhotoReal	13	15.27
BC-06KIT	BJC-240/250 PhotoReal Kit	19	22.32
BC-10	BJ-30/50/70/80 Black	20	23.50
BC-11	BJC-50/70/80 Colour	23	27.02
BC-20	BJC-4000/5500 Black	18	21.15
BC-21	BJC-4000/5500 Colour	24	28.20
BC-22	BJC-4550/4200/4300 Photo	15	17.62
BC-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-201BL	BJC-600/610/620 Black HiCap	5	5.87
BJI-201C	BJC-600/610/620 Cyan	5	5.87
BJI-201M	BJC-600/610/620 Magenta	5	5.87
BJI-201Y	BJC-600/610/620 Yellow	5	5.87
BJI-481	BJ-130 Black	11	12.92
BJI-642	BJ-300/330 Black	8	9.40
BJI-643BK	BJC-800 Black	11	12.92

CITIZEN			
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	16.45
S020093	Stylus 400/500/600/Photo Black	13	15.27
S020097	Stylus 200/500 Colour	18	21.15
S020108	Stylus 800/850/1520 Black	14	16.45
S020110	Stylus Photo 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

HEWLETT PACKARD			
51606A	Paintjet XL Black	21	24.67
51606B	Paintjet XL Cyan	22	25.85
51606F	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 720/8x0/1100/1600 Black	18	21.15
51649A	DJ 600/660/670/690 Colour	18	21.15
C1816A	DJ 690 Photo	20	23.50
C1823A	DJ 720/890 Colour	22	25.85
C4584A	DJ 690 Photo Kit	32	37.60

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
1380491	4079 Cyan	22	25.85
1380492	4079 Magenta	22	25.85
1380493	4079 Yellow	22	25.85
1380619	ColJet 1000/1020/2050 Colour	23	27.02
1382050	ColourJet 2070 Black	24	28.20
1382060	ColourJet 2070 Colour	27	31.72



1100 COLOR JETPRINTER

The Lexmark 1100 Color Jetprinter delivers excellent print quality at an unbelievable price

- Up to 600 x 600 dpi in black and colour
- Up to 3.5ppm mono, 1.5ppm colour
- On screen ink level indicator
- Banner printing capability
- CD full of software
- Ready for Windows 98

£75 (€88.12 inc VAT)

TRUE 1200DPI PRINTING

3200 COLOR JETPRINTER

Designed for the experienced home user, it offers easy and dependable operation, reliable feeding of a variety of media, photo-realistic images and laser quality text.

- 1200 x 1200 dpi black and colour
- Up to 6 ppm mono, 2.5 ppm colour
- Six colour photo capable
- Integrated exit tray & paper support
- 100 sheet input, 25 sheet output
- Windows 3.1, Windows 95, Windows NT compatibility

£135 (€158.62 inc VAT)

5700 COLOR JETPRINTER

The Lexmark 5700 delivers the highest resolution ever available from a desktop inkjet printer - without compromising speed.

- New EX2 technology with laser crafted print cartridges which give 1200 x 1200 dpi printing
- Up to 8ppm mono, 4ppm colour
- Upgradeable to 6-colour photographic printing
- Optimised for plain paper printing

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Award Winning 7200 COLOR JETPRINTER

The Lexmark 7200 gives you 6-colour printing for enhanced photo-realistic colours, smoother flesh tones and less grain

- Up to 1200 x 1200 dpi
- Up to 8 ppm mono, 3 ppm colour
- Dual ink cartridges with super-sharp waterproof black ink
- Compatible with Windows 95, Windows 3.1x, Windows NT
- Comes with LivePix software

£195 (€229.12 inc VAT)

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FX-1170		230	270.25
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LQ-2070		330	387.75
LQ-2170		468	549.90
DLQ-3000		831	976.42

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

TALLY			
MT83		185	217.32
MT84		219	257.32
MT1135		215	252.62
MT1136		255	299.62
MT1150/9		309	363.07
MT151/9		339	398.32
MT150/24		399	468.82
MT151/24		465	546.37
T2030 80col		269	316.07
T2030 136col		339	398.32
T2045		949	1115.07

RIBBONS

EPSON		ex VAT	inc VAT
7753	80c 24pin Black	4	4.70
7753	136c 24pin Black	5	5.87
7763	LQ-860 Colour	14	16.45
8750	80c 9pin Black	3	3.52
8766	DFX-5000/8000 Black	15	17.62
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	8	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	16	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

DATA SWITCHES

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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
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- Simple to use and small footprint
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- Internal 1 GB hard disk (EX model only)

QMS Magicolor² DeskLaser - Specifically designed to make colour printing easy for Windows users, the Magicolor² DeskLaser is 100% compatible with Windows 95 and NT and uses the latest colour laser printing technology to deliver the highest quality prints.

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- Stunning 600 dpi full colour output
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- Low cost-per-copy at 3p per page in colour
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- Lowest cost colour laser printer available today

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- One Year return to Canon Warranty

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BJC-4300

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- Optional Photo cartridge
- One Year return to Canon Warranty

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BJC-4650

"The intelligent choice for A3 output"

- New Drop Modulation Technology™ and Image Optimiser technology optional colour image scanning cartridge
- PC and Mac compatibility
- One Year return to Canon Warranty

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BJC-50

"Great new portable printer"

- Compact, lightweight printer - weighs only 900g
- Built-in Lithium Ion battery prints up to 100 pages on a single charge
- Drop Modulation Technology™, ensures desktop printing quality for colour and photo images
- Universal Power adaptor enables worldwide operation
- Optional colour image scanning cartridge
- Optional 30 page Automatic Sheet Feeder
- Cable free printing using built-in IrDA sensor
- One Year On-Site Warranty

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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
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- Wide range of print head configurations provides total user flexibility
- New pigmented black cartridge gives especially crisp black text
- Manual feed handles up to A3 size paper and accepts media up to 550gms
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650Mb CD Recordable x 10 each	1.80	2.11
650Mb CD Recordable x 100 each	1.50	1.76
650Mb CD ReWritable x 1	16	18.80
650Mb CD ReWritable x 10 each	14	16.45
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Verbatim TR-1 Extra 500/1000Mb	17	19.97
Verbatim TR-3 Extra 2.2/4.4Gb	20	23.50
Imega Ditto 2000 1/2Gb	14	16.45
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DC2120 120/250Mb Formatted	10	11.75
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Bi-Directional Parallel Printer 3m	7	8.22
Bi-Directional Parallel Printer 5m	9	10.57
Bi-Directional Parallel Printer 10m	15	17.62
C36M-C36M Centronics 2m	5	5.87
C36M-C36M Centronics 3m	7	8.22
C36M-C36M Centronics 5m	9	10.57
C36M-C36M Centronics 10m	15	17.62
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D25-D25 Serial 3m	7	8.22
D25-D25 Serial 5m	9	10.57
D25-D25 Serial 10m	15	17.62
D9F/D25F-D25M Modem 2m	5	5.87
D9F/D25F-D25M Modem 5m	9	10.57
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RG58 (Thin) Ethernet 2m	4	4.70
RG58 (Thin) Ethernet 3m	5	5.87
RG58 (Thin) Ethernet 5m	7	8.22
RG58 (Thin) Ethernet 10m	10	11.75
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RJ45 (Twisted Pair) Ethernet 3m	5	5.87
RJ45 (Twisted Pair) Ethernet 5m	7	8.22
RJ45 (Twisted Pair) Ethernet 10m	10	11.75
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SCSI HC50M-C50M 1m	10	11.75
SCSI HC50M-C50M 2m	12	14.10
SCSI HC50M-C50M 1m	10	11.75
SCSI HC50M-C50M 2m	18	21.15
WideSCSI HC68M-C50M 1m	15	17.62
WideSCSI HC68M-C50M 1m	18	21.15
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McAfee VirusScan v3.0 QUG	29	34.07
McAfee VirusScan Deluxe v3.0 QUG	45	52.87
McAfee VirusScan Security Suite	45	52.87
McAfee WebScan v2.0	23	27.02
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Visio IntelliCAD 98	215	252.62

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Artisoft Xtra Mail	129	151.57
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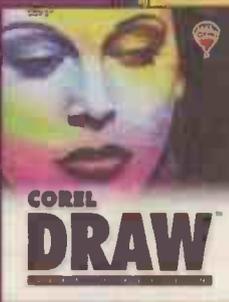
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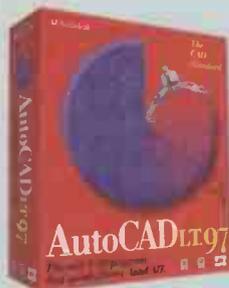
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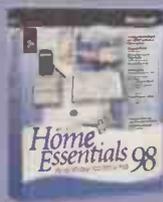
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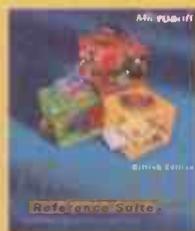
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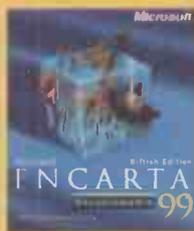
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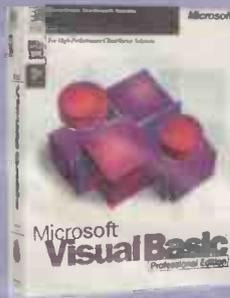
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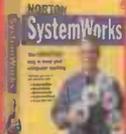
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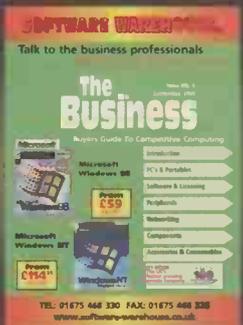
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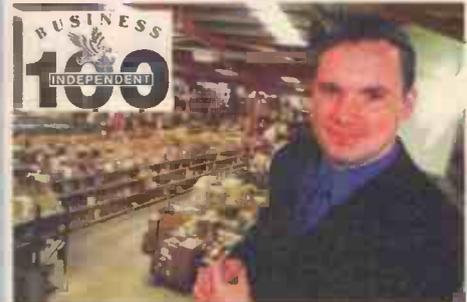
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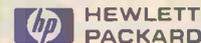
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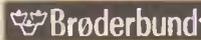
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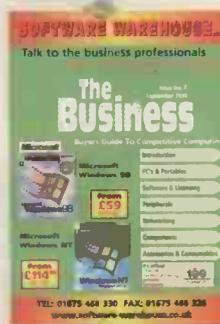


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Fax: 01675 466460
www.software-warehouse.co.uk

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see p62

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Index on page 2



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This full colour, touch-screen Palmtop PC delivers a huge range of productivity-enhancing features. It is aimed at mobile professionals who need a cost-effective way to access critical business information, when and where they need it. It lets you quickly synchronise with your desktop PC, using the drop-in docking cradle. It includes a wealth of new features such as a full-width, 256 colour display, a more powerful processor, built-in voice recording device, plug-and-play VGA connectivity, additional built-in financial scheduling and much more. Microsoft software supplied includes: Microsoft Pocket Word, Microsoft Pocket Excel, Microsoft Pocket PowerPoint, Microsoft Pocket Internet Explorer - Use the Web Browser to connect your HP 620LX Colour Palmtop PC to the Internet via LAN card, an internal or external modem. E-mail Enabled

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- Financial and Unit Conversion Applications
- Month at a glance



(Inc. VAT £598.08)
HWP331 HP Palmtop 620 LX£509

Warranty (HP620LX): One year warranty, return to bench included. Three year support, next-day unit exchange.

FOR MORE INFORMATION SEE OUR WEB SITE AT: www.software-warehouse.co.uk/hp-pcs/palmtop

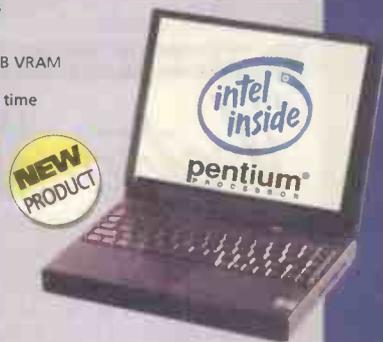
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- Dual-battery option doubles run time



Code	Processor	RAM	HDD	DRIVE	Display	OS	Ex VAT	Inc. VAT
HWP440	Pentium®II 233MHz	32MB	4.0GB	24XCD	12.1" DSTN	W95	£1454.26	£1708.75
HWP439	Pentium®II 233MHz	32MB	4.0GB	24XCD	12.1" TFT	NT4	£1496.81	£1758.75
HWP442	Pentium®II 266MHz	32MB	4.0GB	24XCD	12.1" TFT	W95	£1731.91	£2035.00
HWP441	Pentium®II 266MHz	32MB	4.0GB	24XCD	12.1" TFT	NT4	£1781.91	£2093.75
HWP482	Pentium®II 300MHz	64MB	4.0GB	24XCD	13.3" TFT	W95	Please Call for Price	
HWP481	Pentium®II 300MHz	64MB	4.0GB	24XCD	13.3" TFT	NT4	Please Call for Price	

Warranty (2100): One year warranty, return to bench included. Three year support, 48 hour rapid service available.

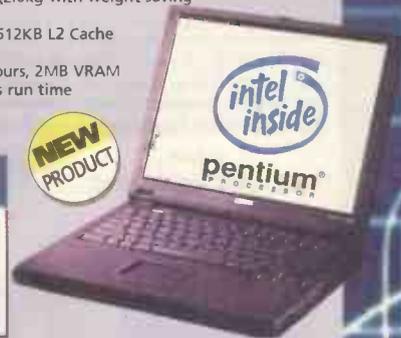
HP OmniBook 4100 series

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The HP OmniBook 4100 notebook PC incorporates a broad range of proven, high-performance mobile PC technologies, all reduced in size, weight, or power consumption to fit in a package that weighs less than six pounds and measures 1.4 inches thin.

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- 32MB of RAM (expandable to 160MB)
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- Integrated Li-Ion battery with up to 3 hours run time
- Dual-battery option doubles run time
- Full dual mouse facility



Code	Processor	RAM	HDD	DRIVE	Display	OS	Ex VAT	Inc. VAT
HWP444	Pentium®II 233MHz	32MB	4.0GB	24XCD	13.3" TFT	W95	£1861.70	£2187.50
HWP448	Pentium®II 266MHz	32MB	4.0GB	24XCD	14.1" TFT	W95	£2485.11	£2920.00
HWP446	Pentium®II 266MHz	32MB	6.4GB	24XCD	14.1" TFT	W95	£2675.53	£3143.75
HWP445	Pentium®II 266MHz	32MB	6.4GB	24XCD	14.1" TFT	NT4	£2713.83	£3188.75

Warranty (4100): Three year warranty, return to bench included. Three year support, 48 hour rapid service available.

HP OmniBook 7100 series

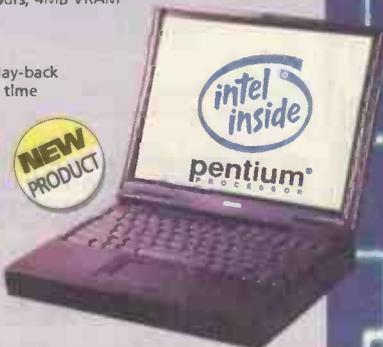
The HP OmniBook 7100 notebook PC, the performance flagship of HP's OmniBook product line, is the ultimate notebook computer for corporate mobile professionals who need a desktop replacement or a multimedia presentation tool.

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- Integrated Li-Ion battery with up to 3 hours run time
- Full dual mouse facility



Code	Processor	RAM	HDD	DRIVE	Display	OS	Ex VAT	Inc. VAT
HWP450	Pentium®II 266MHz	32MB	6.4GB	24XCD	14.1" TFT	W95	£2489.36	£2925.00
HWP449	Pentium®II 266MHz	32MB	6.4GB	24XCD	14.1" TFT	NT4	£2535.11	£2978.75
HWP452	Pentium®II 266MHz	32MB	8.1GB	24XCD	14.1" TFT	W95	£2822.34	£3316.25
HWP451	Pentium®II 266MHz	32MB	8.1GB	24XCD	14.1" TFT	NT4	£2871.28	£3373.75
HWP484	Pentium®II 300MHz	64MB	8.1GB	2XDVD	14.1" TFT	W95	Please Call for Price	
HWP483	Pentium®II 300MHz	64MB	8.1GB	2XDVD	14.1" TFT	NT4	Please Call for Price	

Warranty (7100): Three year warranty, return to bench included. Three year support, 48 hour rapid service available.

FOR MORE INFORMATION SEE OUR WEB SITE AT: www.software-warehouse.co.uk/hp-pcs/omnibook

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D6760T	HP Brio 7111 - W98	CEL 266	2.1GB	32MB	-	£421.28	£495.00
D7672T	HP Brio 7133 - W98	CEL 300A	4.3GB	32MB	32XCD	£509.57	£598.75
D6515T	HP Brio 8338 - W95 / MS Word 97	PII 300	4.0GB	32MB	32XCD	£734.04	£862.50

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Code	Description	CPU	HDD	RAM	CD-ROM	ex VAT	inc VAT
D6540T	HP Vectra VE D/Top W95	CEL 333	3.2GB	32MB	-	£565.96	£665.00
D6560T	HP Vectra VE D/Top W95	PII 333	3.2GB	32MB	-	£585.11	£687.50
D5898T	HP Vectra VL D/Top NT4/W95	CEL 333	4.3GB	32MB	-	£678.72	£797.50
D5880T	HP Vectra VL D/Top NT4/W95	PII 350	4.3GB	32MB	-	£848.94	£997.50

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Code	Description	CPU	HDD	RAM	CD-ROM	ex VAT	inc VAT
D6721N	HP Kayak XA DT D/Top NT4	PII 350	4.3GB	64MB	32XCD	£1037.23	£1218.75
D6726N	HP Kayak XA DT D/Top NT4	PII 450	6.4GB	64MB	32XCD	£1393.62	£1637.50
D6727N	HP Kayak XA ELSA M/Twr NT4	PII 450	9.1GB	64MB	32XCD	£1594.68	£1873.75
D5768N	HP Kayak XA-s D/Top NT4	PII 400	9.1GB	64MB	32XCD	£1665.96	£1957.50

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D6033A	PII 300	£1765	£2073.88
D6035A	PII 300	£1945	£2285.38

Code	Processor	Ex VAT	inc VAT
D6031A	PII 333	£1620	£1903.50
D6030A	PII 333	£1965	£2308.88
D6032A	PII 333	£2155	£2532.13

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Code	Processor	Ex VAT	inc VAT
D6123A	PII 350	£2305	£2708.38

Code	Processor	Ex VAT	inc VAT
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- HP TopTools for Servers with web interface, plus HP OpenView ManageX/SE



Code	Processor	Ex VAT	inc VAT
D4998A	PII 350/100	£4290	£5040.75
D5002A	PII 350/100	£4590	£5393.25
D5000A	PII 400/100	£4690	£5510.75

Code	Processor	Ex VAT	inc VAT
D5004A	PII 400/100	£5050	£5933.75
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Switch 2400M



Switch 4000M



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Code	Model	Ex VAT	inc VAT
J4121A	HP ProCurve Switch 4000M	£2699	£3171.33

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- FREE HP TopTools for network management
- FREE LIFETIME WARRANTY

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HWP458 HP DeskJet 710C£134 (inc. VAT £157.45)

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HWP246 HP DeskJet 890C£202 (inc. VAT £237.35)

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HWP347 HP OfficeJet 635£339 (inc. VAT £398.32)

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- Microfine Toner
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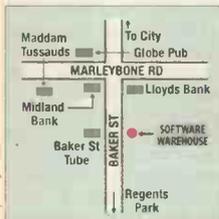
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Microsoft Windows 98

Microsoft Windows 98 makes your computer work better by integrating tightly with the Internet and providing better system performance and easier system diagnostics and maintenance. With Windows 98, your system plays better as well with support for the latest graphics, sound, and multimedia technologies, easy addition and removal of peripheral devices, and the convergence of the TV and PC in your home. This exciting new operating system builds on the groundbreaking features introduced with Windows 95. At the same time, Windows 98 maintains the best support for older Windows-based applications and technologies.

The enhanced functionality of Windows 98 will:

- Provide the Best Internet Experience
- Deliver Higher Quality Computing
- Make Computing More Entertaining
- Unlock the Power of Your PC and Accessories

Ten reasons to buy Windows 98

Easier to Use

WebViews uses a Web-based user interface to manage the files on your Hard disk. Browsing the Web and managing your files becomes. Equally easy. Complete Internet Integration

Provides the fastest and best platform to surf the Internet.

Better Performance

Your mostly used applications launch on average 36% faster as the same applications running on Windows 95.

More disk space

Windows 98 frees up 1/3 of your hard disk space by introducing a more efficient file system.

Supports the new wave of USB hardware that is coming out now

Allows you to plug in thousands of new peripheral devices like you plug in a lamp into an electric outlet.

Self maintaining

Keeps your PC tuned by automatically deleting unneeded files and defragging your hard disk.

Increased Reliability and improved troubleshooting

New and improved utilities work automatically to ensure your system runs smoothly.

Increased Productivity

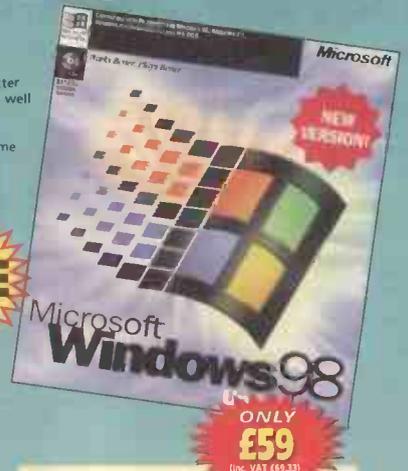
Run multiple monitors from a single PC so you can have multiple applications visible at the same time.

Improved Games Experience

Better and faster 3-D graphics make playing your favourite games much more engaging and enjoyable

Better Entertainment

Support for DVD, the successor of the CD-ROM, Enables new entertainment titles for your PC with theatre quality full motion, Video and multi-channel digital surround sound.



Key Features

- Applications open up to 36% faster
- Hard disk space increased up to 33%
- Seamless Internet integration
- Access a new generation of exciting hardware

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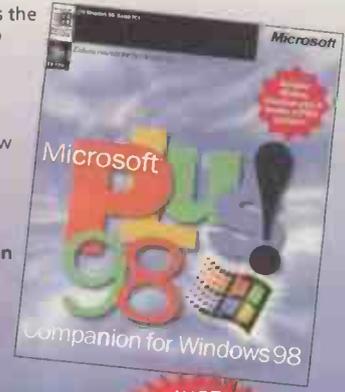
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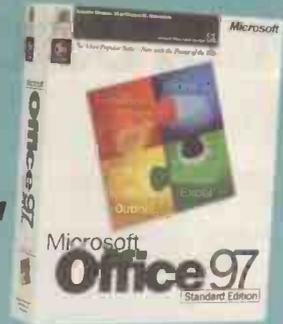
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The world's best-selling office suite, now with the added power of the Web!

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MIC628 MS Office 97 Standard**£327.95**
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MS1081 MS Office 97 C/VUP.....**£154.95**
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Microsoft Small Business Financial Manager 98			✓	✓
Microsoft Replication Manager				✓
Microsoft Setup Wizard				✓

Guide to Microsoft Office pricing

If you have five PCs or more then call our corporate team as you will be able to make substantial savings by entering into a MOLP agreement. If you are looking for single copies or small quantities please refer to these charts.

Upgrade: If you currently use any version of either MS Word, MS Excel, MS Access, MS Powerpoint or MS Works then you qualify for the upgrade price bracket.

Competitive Upgrade: If you currently use a Lotus product, Corel, Harvard or other major competitive products you qualify for the upgrade price - call for details.

New User: If you do not qualify for either of the above then new user pricing applies.

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Please note: Office 97 is ONLY available on CD. Oak exchange is available via Microsoft for a small charge.

Microsoft Office 97 Developer Edition

New MS Office 97 Developer includes everything you need to build custom solutions with MS Office. Package includes MS Office Pro (full) plus distribution tools, sample code, documentation & developer licensing.



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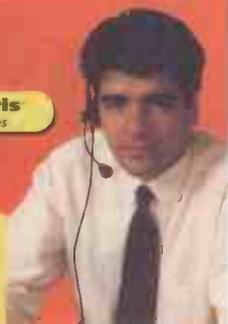
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- Access the network remotely
- Put your company online
- Setting up is simple
- Easy to grow

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- Small Business Server Console
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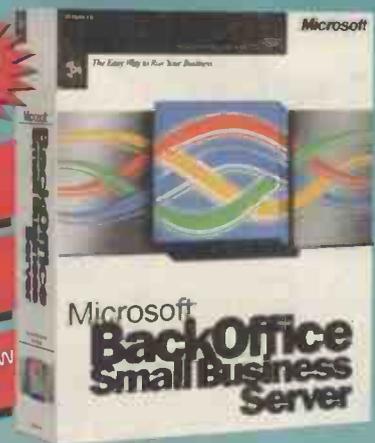
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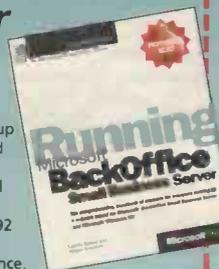
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Perfect compliment for Office 97

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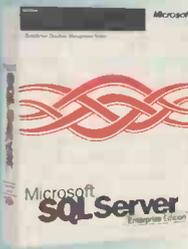
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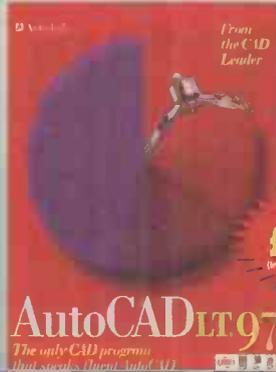
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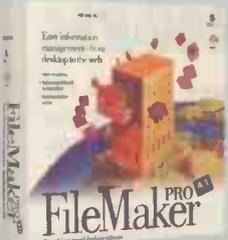
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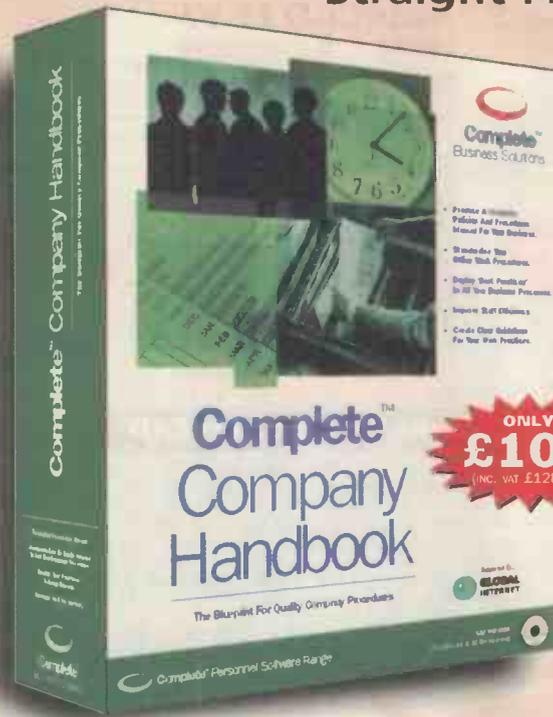


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- IBM ViaVoice - continuous speech recognition for Word Pro - talk don't type!
- Unparalleled file compatibility with Microsoft Office 95/97 and Corel.
- Advanced Internet integration.
- High value business productivity templates

Lotus SmartSuite Millennium Edition contains all of the following great applications

Lotus FastSite

Lotus FastSite delivers the Internet publishing ability without having to purchase and learn more complex tools which are typically designed for Webmasters.

- Allows non-technical users to easily contribute information to an intranet or Internet site.
- Lotus FastSite complements existing Web publishing tools like Microsoft Front Page, Lotus Domino Designer and Hot Metal Pro.
- Lotus FastSite automatically converts SmartSuite or Office documents to Web formats.

New in Lotus 1-2-3

World famous spreadsheet

- Lotus 1-2-3 Web Tables let you bring in five 'Web-info' and perform analysis on it, eg. stock portfolio.
- Lotus 1-2-3 has more than 50 new functions providing enhanced analytic ability.
- The number of rows in Lotus 1-2-3 has increased from 8,192 to 65,536 for enhanced file compatibility with Excel.

New in Lotus Organizer

The most popular time management software

- New SmartClip - high speed copying from external sources into Organizer without opening the application.
- Integrates a Calendar, To Do List, Address Book, Call Manager, Planner, Anniversary Reminder and Notepad into a single easy-to-use electronic book with tabs and pages that turn.

Single Application
£64.63 inc VAT
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New in Lotus ScreenCam

Multimedia application

- New StreamCam - allows you to transmit compressed video over the internet.
- Option to choose sound recording quality.
- Can now create AVI format movies and distribute to people who don't have ScreenCam.

IBM ViaVoice

Continuous speech integration for Word Pro - hands and eyes 'free' - now you don't even have to be looking at your computer, let alone sitting at it!

- Dictate at up to 140 words per minute.
- Largest active vocabulary in the industry.
- Natural dictation of numbers, weights, prices, etc. that will format properly.



Lotus cc:MAIL

Lotus cc:Mail R8 Advanced System Pack
 The world's leader in messaging with 32 million users!

- Lotus cc:Mail Release 8 is a complete solution.
- With it you can:
 - set up and manage an e-mail system
 - connect to the Internet
 - use electronic forms
 - schedule meetings
- Main feature: NEW cc:Mail Advanced Messaging Server - a high performance, multi-tasking server

- supporting up to 1000 users 24 hours a day, 7 days a week.
- cc:Mail R8 includes:
 - a new Windows-based Graphical Administration tool
 - Lotus Forms
 - Lotus Organizer
 - cc:Mail View
 - Client software for Windows 3.1/95/nt, Mac OS2 and DOS

For more information on any of the products listed on this page call: 01765 466 467 or visit the web site: www.software-warehouse.co.uk

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* based on upgrade to 8.2



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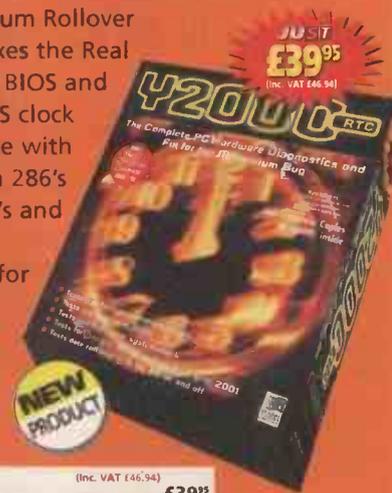
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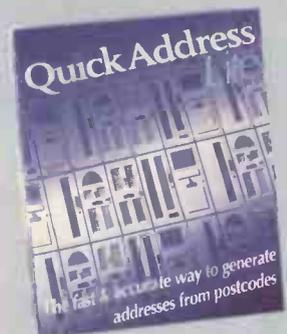
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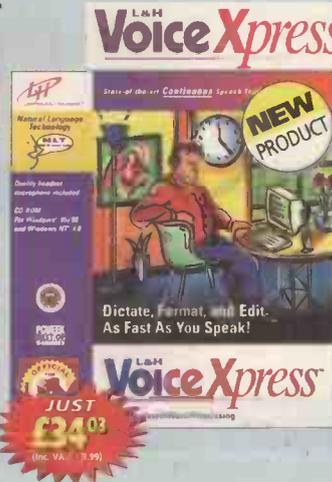
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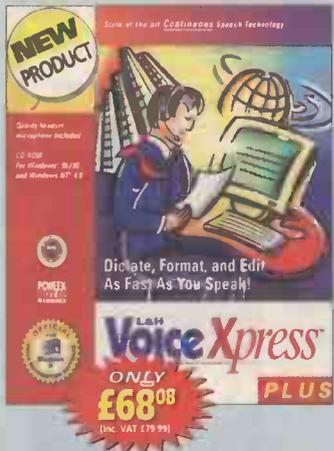
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What the Press are saying

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What the Press are saying

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What the Press are saying

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- 5 companies - 25 employees per company

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- Instant Tour available
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- Year 2000 compliant (as detailed by the British Standard Institute)



Instant Accounting '98.....£84²⁵ (inc. VAT £99.00)

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- Fields to record SSP, SMP
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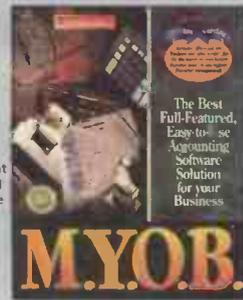
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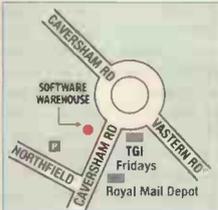


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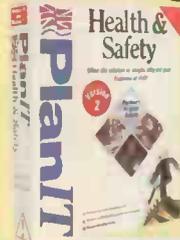
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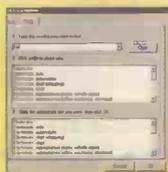
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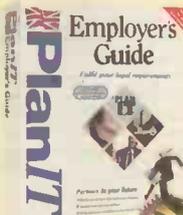
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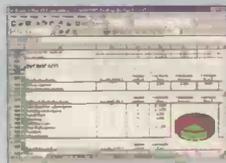
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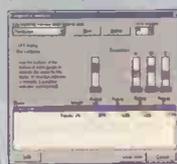
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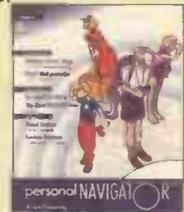
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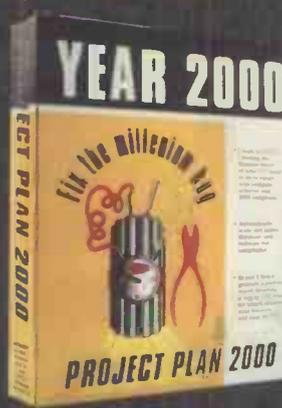


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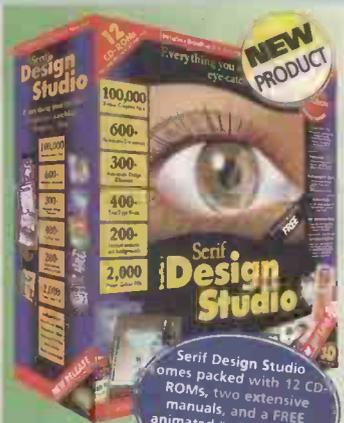
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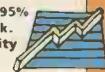
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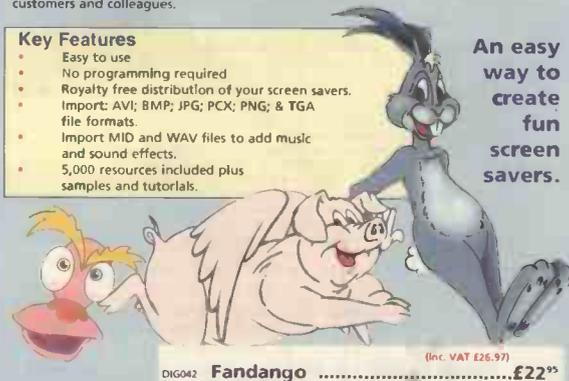
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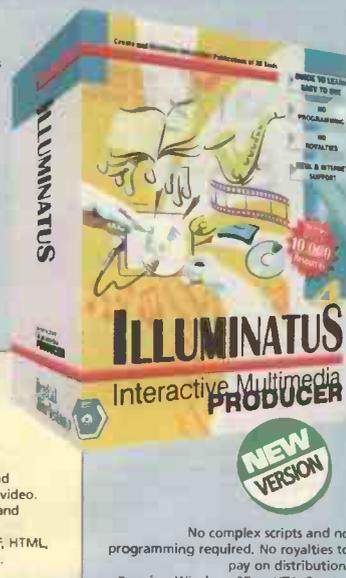
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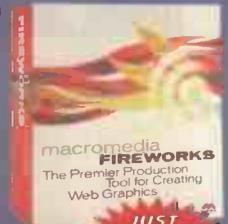
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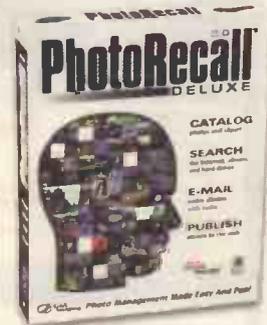
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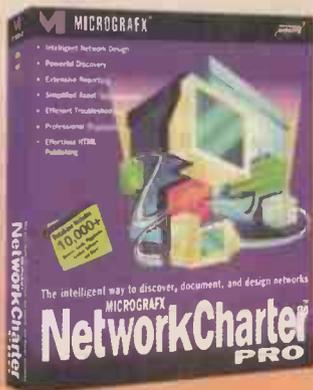
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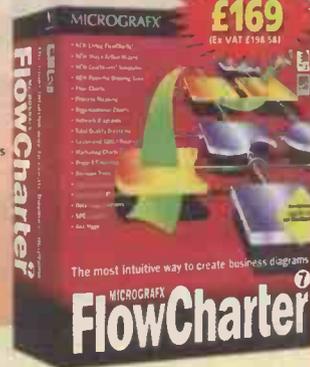
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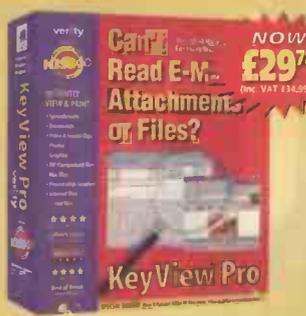
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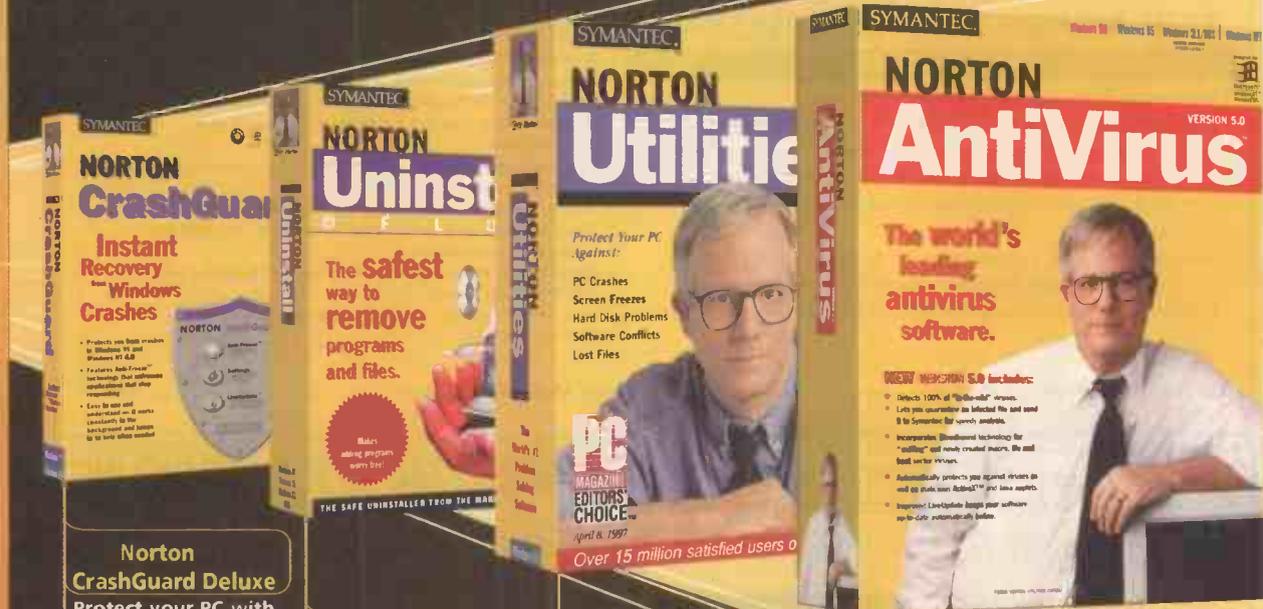
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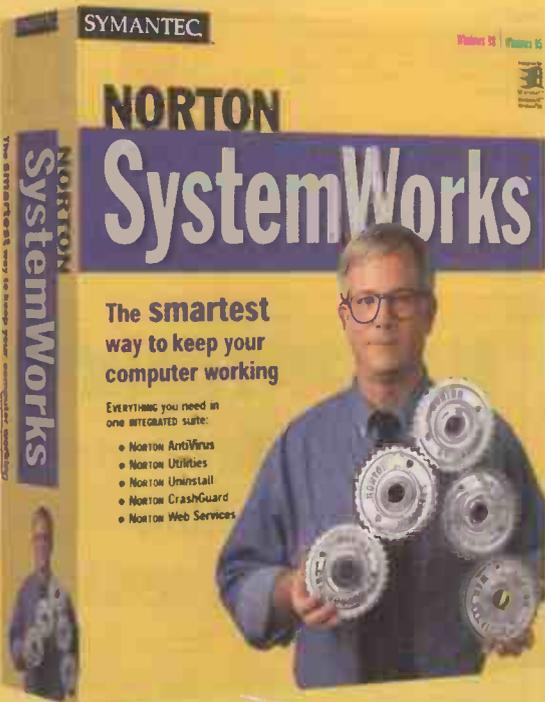
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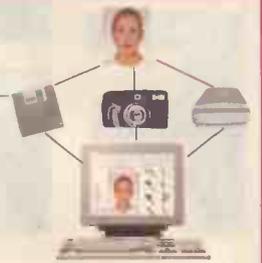
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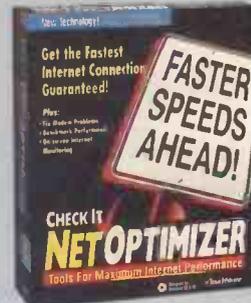
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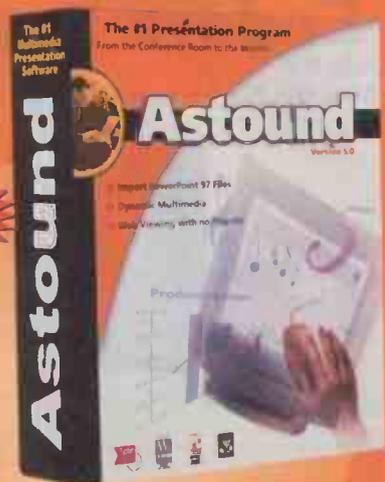




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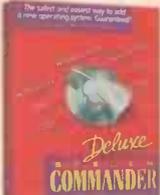
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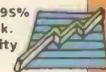
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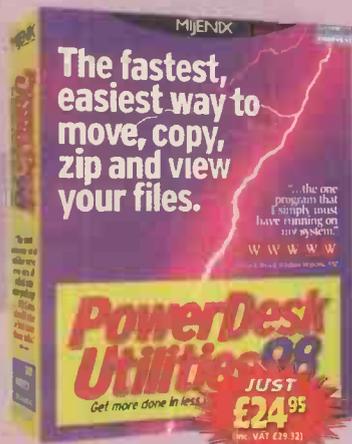
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PowerDesk Utilities 98

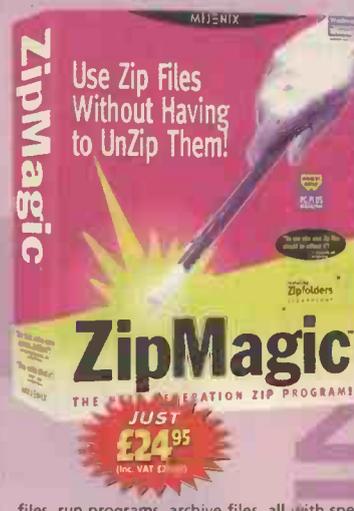
This outstanding Windows file manager with a wide-ranging set of utilities adds a quantum measure of functionality and ease to Windows 95, 98 and NT.



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Better Organization. Hard drives can become very cluttered. Partition Commander better organizes your drive so you can find files faster and easier. It even helps finish tedious backups quicker. Not sure how you want to organize your drive? Partition Commander prompts you with a few easy questions, and then automatically organizes your drive according to your needs.

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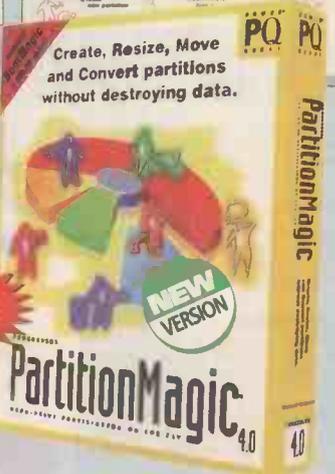
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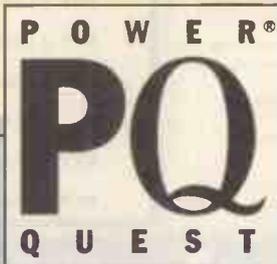
PartitionMagic®—PowerQuest®'s patented, award-winning partitioning solution—allows you to create, resize, move, and convert partitions on your hard drive without destroying data. Partitioning allows you to safely run multiple operating systems, organize and protect your data, effortlessly convert from FAT to FAT32 and back again, and reclaim wasted disk space. New in Version 4.0 is BootMagc, a powerful new boot manager for running multiple operating systems. Other new features include a wizard-driven interface that simplifies partitioning tasks, native Windows 95/98 and NT executables, batching functionality, and support for large hard drives over 20GB.



NEW FEATURES

PartitionMagic comes with some exciting new functionality and the interface has changed to make it even easier to use. Here are some things you can look for in the new version:

- Native executables for Windows 95/98 and NT Interface
- Support for FAT, FAT32 (including FAT32X), NTFS, HPFS, Linux ext2 and Linux swap file systems
- Support for larger than 8GB hard drives
- More flexible resizing options
- Wizards with both simple and advanced options for completing a variety of tasks
- The ability to store (batch) commands and execute them in a single operation
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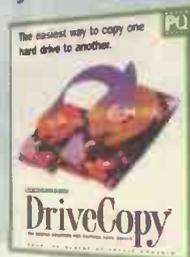
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The Easiest Way to Clone Workstations



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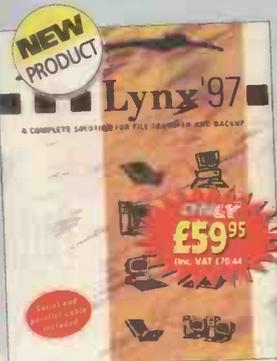
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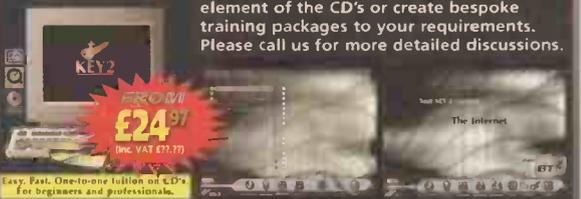


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Your Key 2 Learning **MS Office 97**



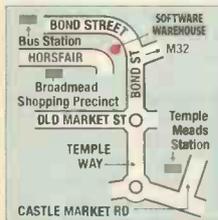
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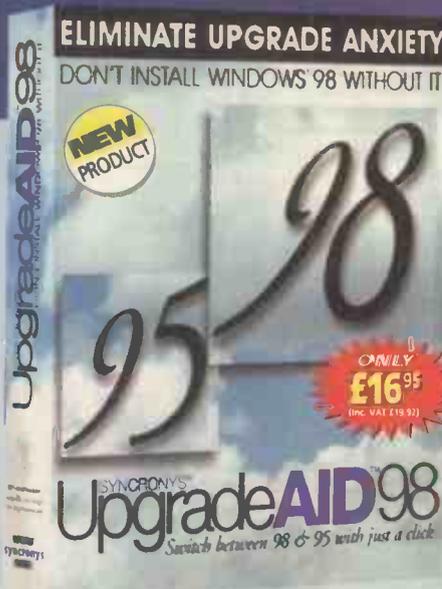
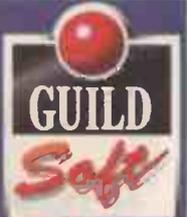
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UpgradeAID 98



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If you're wanting to upgrade to Windows® 98, you've probably got a few worries.

Will your favourite software run properly (if at all)? Does your hardware have Windows® drivers? If the installation goes wrong, will you be left without Windows® 98 or 95 and have to rebuild your entire system? Remember, once you install Windows® 98, you won't be able to switch back to Windows® 95.

Upgrade 98 lets you upgrade to Windows® 98 while keeping your entire Windows® 98 configuration intact and switch instantly between Windows® 98 and 95. You can test drive Windows® 98 with confidence knowing that if you have any problems your reliable Windows® 95 is just a click away.

UpgradeAID 98 adds just minutes to your installation but can save you hours of frustration.

Don't Install Windows® 98 Without It! UpgradeAID 98 is simple, fast and efficient. Unlike other so-called "solutions" which require duplicate sets of applications and user files installed on your hard drive (for Windows® 95 and 98), UpgradeAID 98 uses a fraction of the disk space because applications and user files are shared by Windows® 95 and 98.

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3 EASY STEPS FOR INSTALLING WINDOWS 98

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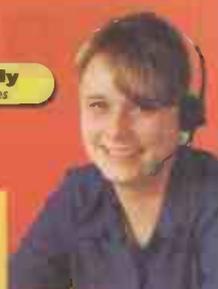
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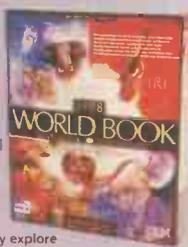
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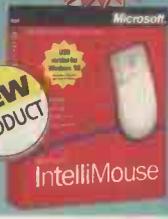


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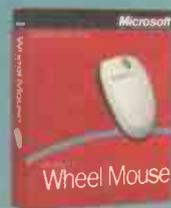


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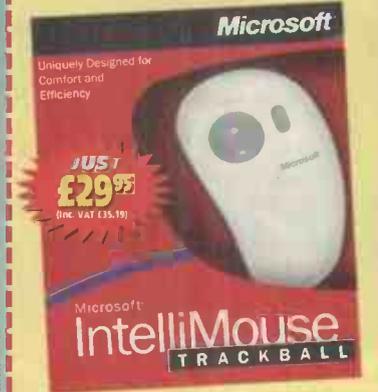
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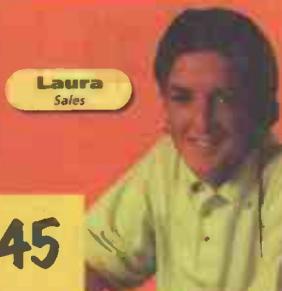
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EPSON - NEW Inkjet Printers from EPSON!

NEW EPSON STYLUS COLOR 740

State-of-the-Art Colour Inkjet Printer for Advanced Home and Business Users

The Epson Stylus COLOR 740 delivers a significant advance in EPSON's MicroPiezo Technology™, the cornerstone of the PerfectPicture Imaging System™. New Advanced MicroPiezo is a major enhancement of the technology responsible for the precise size, shape and placement of each ink droplet. It now incorporates the new EPSON Ultra MicroDot™ & Variable-sized Droplet Technology, which uses three different sizes of ink droplet in the same document. The new EPSON Ultra MicroDot™ is the world's smallest ink droplet.

In addition to the usual interfaces the EPSON Stylus COLOR 740 will include the USB interface for Windows 98 and Apple's iMac. The EPSON Stylus COLOR 740 offers a combination of superb quality and performance, and is destined to become the next No.1 best selling colour inkjet printer in the UK!

Features

- EPSON Ultra MicroDot™ - the world's smallest ink droplet in black & colour
- 1440 dpi 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 including plain paper
- Advanced 4 colour Dual-Cartridge Ink System
- New full function Status Monitor
- Free NEW Advanced 'PerfectPicture Pak' software & paper media bundle
- EPSON CoverPlus 3 year extended warranty service available - On-site £59.00, RTB £35.00

JUST £177
(inc. VAT £207.98)



Fantastic Print Quality
NEW PRODUCT

EPSON STYLUS COLOR 740£177 (inc. VAT £207.98)

NEW EPSON STYLUS COLOR 640

Superior Colour Inkjet Printer For a Broad Range of Home Applications. Outstanding value for the home.

The printer driver has been improved and is now easier and more intuitive to use, and offers a superb range of user functions. EPSON PhotoEnhance 3 automatically optimises colour output and enhances the quality of Web graphics, digital camera images or other sources of digital images. The new user functions also include Watermarks, Increased Printable Area, Paper Length Check, Paper Layout function, Fit-to-Page function and many more. The EPSON Stylus COLOR 640 is easy to use, with on-line documentation, a dual-cartridge ink system, bonus media and software to ensure a fast-start - perfect results every time!

Features

- 1440dpi colour & true black printing with EPSON Super MicroDot™
- Fast print speeds
- EPSON PhotoEnhance 3 for Optimisation of Digital Images
- Windows 95 & 98 compatibility
- 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
- EPSON CoverPlus 3 year extended warranty service available - On-site £35.00, RTB £25.00

JUST £133
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NEW PRODUCT

EPSON STYLUS COLOR 640£133 (inc. VAT £156.28)

NEW EPSON STYLUS COLOR 440

A Perfect Introduction to Colour Printing at Home

Building upon the incredible success of the EPSON award winning range of inkjet printers, the EPSON Stylus COLOR 440 delivers high quality 720dpi photo-real output as standard, using EPSON's unique PerfectPicture Imaging System, with an enhanced dual-cartridge ink system. The EPSON Stylus COLOR 440 is the ideal printer for first time users, providing superb 720 dpi results for home applications on all types of media including plain paper.

The printer driver has been improved and is now easier and more intuitive to use. The EPSON Stylus COLOR 440 incorporates many of the enhancements of the EPSON Stylus COLOR 640, with the focus on ease of use. The EPSON Stylus COLOR 440 is easy to use, with on-line documentation, a dual-cartridge ink system, bonus media and software to ensure a fast-start - there's no stopping once the creative process swings in to action.

Features

- 720dpi Photo Real colour & black printing
- Designed for ease-of-use - ideal for first time buyers
- Easy-to-use Interactive Online help
- Fast print speeds
- Free NEW 'PerfectPicture Pak' Home Creativity software bundle
- Free PhotoQuality Paper Pack
- High quality output on all media types including plain paper
- Advanced Dual-Cartridge Ink System
- New full function Status Monitor
- New Printer Driver Enhancements
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Index on page 2



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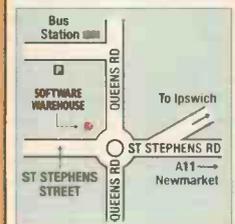
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JUST **£398**
(Inc. VAT £467.65)

- Features**
- Megapixel (1280 x 960) Auto Focus Digital Camera
 - Ease of use with OLE2 and TWAIN support
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 - PAL TV & Video output for excellent large screen viewing
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EP5259 EPSON PhotoPC 700**£398**

EPSON STYLUS Photo 700

The new EPSON Stylus Photo 700 is designed to provide the home user with an unequalled combination of the highest photographic quality and excellent general purpose printing.

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 - Widows 3.1, 95, NT 4.0 and Macintosh compatible
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 - Includes Adobe PhotoDeluxe v2
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EP5245 EPSON STYLUS Photo 700**£163**

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Ultra fast printer for both power users and workgroups with 1440dpi PhotoReal Output

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- Windows® dedicated printing
- 2Mb of standard memory
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- Intelligent sleep mode

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- Auto e-mail printing (POP3 required)

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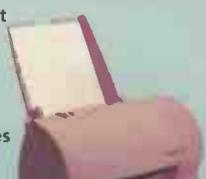
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The high performance business inkjet for photo-quality output.



- 600 x 600 dpi and 1200 image quality output
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- Up to 8ppm - black and 4ppm - colour
- PCL 5c and Postscript level 2 emulators
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LEXMARK

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- Additional 100 sheet feeder

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- Up to 740 sheet maximum input capacity
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- PostScript level 2 and PCL6 emulations standard
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- Small footprint (smaller than A4)
- 12 months on-site warranty



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- Small footprint
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- Windows NT3.51 and 4.0 drivers included
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- Flat paper path
- 5 year warranty on LED print head
- Software driven menu in DOS, Windows 3.1 and 95
- 2MB standard
- 12 months on-site warranty



OKIPAGE 6ex

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NOW £219
(inc. VAT £257.32)

OKI023 Okipage 6ex**£219**
(inc. VAT £257.32)

Features

- Small footprint
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- 600x1200 dpi print resolution
- Flat paper path
- 5 year warranty on LED print head
- Software driven menu in DOS, Windows 3.1 and 95
- 2MB standard
- 12 months on-site warranty



OKIPAGE 10i

The OKIPAGE 10i has the quality, speed and excellent paper handling capabilities to make it ideal for either personal professional use or as a shared business printer.

£359
(inc. VAT £421.83)

OKI032 Okipage 10i**£359**
(inc. VAT £421.83)

Features

- 10ppm (PCL6)
- 600 x 1200 dpi
- Optional Adobe PostScript Level II
- Standard 2 Mbytes - upgradeable to 35 Mbytes
- Upgradeable path to full network capabilities
- 12 months on-site warranty
- Serial and Network versions



OKIPAGE 10is

The OKIPAGE 10is has the quality, speed and excellent paper handling capabilities to make it ideal for either personal professional use or as a shared business printer.

£395
(inc. VAT £464.13)

OKI036 Okipage 10is**£395**
(inc. VAT £464.13)

Features

- LED 16 pages per minute print speed
- True 600 dpi output
- Optional Adobe PostScript II with AppleTalk interface
- OKIVIEW network management software
- R3000 RISC processor
- 12 months on-site warranty



OKIPAGE 16n

Fast, reliable and simple to operate the OKIPAGE 16n is one of OKI's new generation of high performance printers for busy workgroups.

£579
(inc. VAT £680.33)

OKI007 Okipage 16n**£579**
(inc. VAT £680.33)

Features

- LED 16 pages per minute print speed
- True 600 dpi output
- Optional Adobe PostScript II with AppleTalk interface
- OKIVIEW network management software
- R3000 RISC processor
- 12 months on-site warranty



OKIPAGE 16nps

Fast, reliable and simple to operate the OKIPAGE 16nps is one of OKI's new generation of high performance printers for busy workgroups.

£699
(inc. VAT £821.33)

OKI038 Okipage 16nps PostScript Version**£699**
(inc. VAT £821.33)

Features

- LED 16 pages per minute print speed
- True 600 dpi output
- Optional Adobe PostScript II with AppleTalk interface
- OKIVIEW network management software
- R3000 RISC processor
- 12 months on-site warranty



OKIPAGE 16np5

Fast, reliable and simple to operate the OKIPAGE 16np5 is one of OKI's new generation of high performance printers for busy workgroups.

£869
(inc. VAT £102.18)

OKI039 Okipage 16np5 PostScript/Network**£869**
(inc. VAT £102.18)

Features

- LED 20ppm page printer (PCL6)
- 600 x 1200 dpi class printing
- Optional Adobe PostScript Level II
- R3000 RISC processor
- Standard 8 Mbytes memory - upgradeable to 68 Mbytes
- OKIVIEW network software
- 12 months on-site warranty



OKIPAGE 20n

All OKIPAGE 20n printers can be upgraded in a single step, wherever the printers are located using either a fast Ethernet card or PCMCIA network adaptor card.

£909
(inc. VAT £1068.08)

OKI035 Okipage 20ndx Duplex Version**£909**
(inc. VAT £1068.08)

Features

- LED 20ppm page printer (PCL6)
- 600 x 1200 dpi class printing
- Optional Adobe PostScript Level II
- R3000 RISC processor
- Standard 8 Mbytes memory - upgradeable to 68 Mbytes
- OKIVIEW network software
- 12 months on-site warranty



OKIPAGE 20nps

All OKIPAGE 20n printers can be upgraded in a single step, wherever the printers are located using either a fast Ethernet card or PCMCIA network adaptor card.

£1039
(inc. VAT £1220.83)

OKI043 Okipage 20nps PostScript/Network**£1039**
(inc. VAT £1220.83)

Features

- LED 20ppm page printer (PCL6)
- 600 x 1200 dpi class printing
- Optional Adobe PostScript Level II
- R3000 RISC processor
- Standard 8 Mbytes memory - upgradeable to 68 Mbytes
- OKIVIEW network software
- 12 months on-site warranty

OKIPAGE 20endx

All OKIPAGE 20n printers can be upgraded in a single step, wherever the printers are located using either a fast Ethernet card or PCMCIA network adaptor card.

£1069
(inc. VAT £1256.08)

OKI044 Okipage 20endx Duplex/Network**£1069**
(inc. VAT £1256.08)

Features

- LED 20ppm page printer (PCL6)
- 600 x 1200 dpi class printing
- Optional Adobe PostScript Level II
- R3000 RISC processor
- Standard 8 Mbytes memory - upgradeable to 68 Mbytes
- OKIVIEW network software
- 12 months on-site warranty

OKIPAGE 8c

All OKIPAGE 20n printers can be upgraded in a single step, wherever the printers are located using either a fast Ethernet card or PCMCIA network adaptor card.

£2199
(inc. VAT £2583.83)

OKI111 Okipage 8c**£2199**
(inc. VAT £2583.83)

Features

- LED 20ppm page printer (PCL6)
- 600 x 1200 dpi class printing
- Optional Adobe PostScript Level II
- R3000 RISC processor
- Standard 8 Mbytes memory - upgradeable to 68 Mbytes
- OKIVIEW network software
- 12 months on-site warranty

OKIPAGE 8cen

All OKIPAGE 20n printers can be upgraded in a single step, wherever the printers are located using either a fast Ethernet card or PCMCIA network adaptor card.

£2379
(inc. VAT £2795.33)

OKI112 Okipage 8cen**£2379**
(inc. VAT £2795.33)

Features

- LED 20ppm page printer (PCL6)
- 600 x 1200 dpi class printing
- Optional Adobe PostScript Level II
- R3000 RISC processor
- Standard 8 Mbytes memory - upgradeable to 68 Mbytes
- OKIVIEW network software
- 12 months on-site warranty

PRINTERS - LASERJET

Ex VAT ..inc VAT

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	OPTRA S1650 3YRS UPG MAIN	£209.00	..£245.58
	OPTRA S RANGE PREBA 17.6K	£135.00	..£158.63
	OPTRA S 500 DRAW UNIT	£199.00	..£233.83
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	LEXMARK 7000 COLOR INK	£23.95	..£28.14
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	LEX S MODU. 250 DRAW+TRAY	£185.00	..£217.38
	OPTRA S1650 ENVELOPE	£199.00	..£233.83
	OPTRA S1650 MARKNETS INA	£270.00	..£317.25
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	1000-3000/WWRITE150c BLK	£22.29	..£26.19
	500 SHEET TRAY FOR S2455	£185.00	..£217.38

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OKIPAGE 4W TONER CART	£17.00	..£19.98
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OKI 400E IMAGE DRUM +CART	£99.00	..£116.33

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Brother HL-6xx TONER	£23.40	..£27.50
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1MB U/G HL-730/630	£85.00	..£99.88
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BROTHER NC600X ETHERNET	£209.00	..£245.58
HL-700 SERIES 1YR OS WARR	£35.99	..£42.29
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YELLOW TONER HL 2400C	£65.00	..£76.38
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MAC/PRINTER CABLE 8P/DB9	£10.99	..£12.91
BROTHER HL-1660 DUPLEX	£355.00	..£417.13

NETWORKING



OKIPAGE 10ien

Designed for use as a shared work group domestic printer for small network systems, the OKIPAKGE 10ien provides a high quality, cost effective solution.

£445
(inc. VAT £522.88)

OKI037 Okipage 10ien**£445**
(inc. VAT £522.88)



OKIPAGE 16en

The OKIPAGE 16en is a value for money, high performance, professional page printer, offering excellent print quality with high print speed. With superb paper handling capabilities, for use in shared work group and network printing applications.

£749
(inc. VAT £880.08)

OKI030 Okipage 16en Network Version.....**£749**
(inc. VAT £880.08)



OKIPAGE 20en

The OKIPAGE 20en forms the backbone of OKI's professional business printing solutions. This is designed for use in hard working, shared work group and network systems available as ethernet and duplex ready.

£889
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OKI040 Okipage 20en Network Version.....**£889**
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Brother Fax 920/930



Key Features

- Brotherfax 920
 - Modem speed 9600 bps
 - Paper cassette (100 pgs)
 - 20 page memory capacity
 - Transmission speed 15 seconds
 - Caller ID
- Brotherfax 930
 - Modem 14,400
 - Paper cassette (100 pgs)
 - 20 page memory capacity
 - Digital answer machine
 - Transmission speed 9 seconds
 - Caller ID

BRO014 Brother Fax 510£136 (inc. VAT £159.80)

BRO041 Brother Fax 1020£239 (inc. VAT £280.83)

BRO085 Brother Fax 920£213 (inc. VAT £250.28)

BRO086 Brother Fax 930£255 (inc. VAT £299.60)

Brother MFC-9000



Key Features

- As a fax
 - fast 14,400bps modem
 - 60pg out-of-paper reception memory
 - send faxes from any Windows application on your PC
- As a scanner
 - up to 600x600 dpi scan resolution with OCR
- As a copier
 - up to 99 copies
 - 50-200% reduction/enlargement
- As a printer
 - Up to 6ppm print speed

BRO020 Multi-Function Centre MFC-9000 ..£554 (inc. VAT £650.95)

BRO019 Brother Fax MFC-8000P£468 (inc. VAT £549.90)

BRO053 MC3000 Colour-Multi Centre ..£449 (inc. VAT £527.57)

Brother MFC-Pro 700C



The new MFC Pro 700C is a Multi-Functional Centre. It provides a colour inkjet printer, colour scanner and colour copier and a colour fax at an entry level price.

Key Features

- As a fax
 - fast 14,400bps modem
 - telephone handset with answer machine 99mins recording time
 - Dual Access
 - 4mb memory (300 pages)
 - Optional upgrade 1 & 2mb
 - As a printer
 - Up to 720x720dpi
 - Up to 5ppm mono printer
 - Up to 3.5ppm colour
- As a scanner
 - Colour scanner
 - up to 1200x1200dpi scan resolution with OCR
- As a copier
 - up to 99 copies
 - 50-200% reduction/enlargement
 - PC Interface

BRO069 Brother Fax MFC-Pro 700C£621 (inc. VAT £729.68)

XEROX

XEROX PRINTERS

XEROX



Document N17b

- 17 pages per minute
- True Adobe postscript level 3
- 1200 x 600 dpi
- Edge to edge printing

XER068 Document N17b£679 (inc. VAT £797.83)



Docuprint C55 MP Colour Laser

- Colour laser printing for the office user
- 600 x 600dpi
- PostScript Level 2 and ethernet as standard
- 30Mb memory

XER052 Docuprint C55 MP Col. Laser ..£2139 (inc. VAT £2513.33)



Mono Laser 4512 Printer

- Up to 12 pages per minute
- 600 x 600dpi resolution
- 2 x 250 sheet input standard
- Duplex printing as standard

XER004 Mono Laser 4512 Printer£709 (inc. VAT £833.07)



Docuprint XJ6C Inkjet

- Up to 600x600 dpi colour and mono resolution
- 4 colour print head
- Up to 7ppm mono/ 2.5ppm colour
- Photo quality output

XER082 Docuprint XJ6C Inkjet£114 (inc. VAT £133.95)



Document Workcentre 450C

- Up to 6ppm with optional high capacity
- 600 x 600 mono/colour or colour
- Plain paper, 7 seconds per page spread
- PC Fax Modem 14.4kpps

XER056 Document Workcentre 450C£265 (inc. VAT £311.38)



Mono Laser Printer 4508

- Up to 8 pages per minute
- 600 x 600dpi resolution
- 250 sheet paper tray
- Microfine toner

XER003 Mono Laser Printer 4508£265 (inc. VAT £311.38)



Kyocera FS-600



Features

- Very fast processor ensures rapid delivery of first page
- Robust design and construction
- Low-cost modular upgrade options

- Low cost per page at a penny per page
- Ideal personal or shared printer
- 600dpi, 6ppm laser printer
- Cartridge-free technology
- 50mhz Power PC processor

- IEEE 1284 parallel plus option port
- Internal 150-sheet cassette
- Optional 250-sheet cassette
- Ethernet/serial interface options

JUST £239
(inc. VAT £280.83)

KYO021 Kyocera FS-600£239 (inc. VAT £280.83)



Kyocera FS-800

The compact size of the ECOSYS FS-800 conceals a powerful 8ppm printer engine driven by an ultra-fast PowerPC processor. With support for both PCL and PostScript level 2; 4MB memory as standard and user-friendly controls, it's a powerful and versatile personal printer.



The FS-800 is easily upgraded with the addition of an optional paper cassette to support a second paper type. Add a network option and you have a powerful printing system ideal for the smaller workgroup.

Features

- Compact 8ppm laser design
- 50MHz PowerPC processor
- Reliable ECOSYS technology
- 4MB RAM as standard
- LCD control panel

- PCL5e and PostScript level 2
- 600dpi laser technology (1200dpi KIR2)
- Optional 250 sheet cassette
- Ideal for single users or small workgroups

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KYO022 Kyocera FS-800 Printer£415 (inc. VAT £487.63)

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INTEL AL440LX ATX + SOUND	£139.00	£163.33
INTEL AL440LX P2 UNBOXED	£99.00	£116.33
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INTEL PII BX ATX+AUDIO+Ha	£149.00	£175.08
INTEL PII BX ATX NO AUDIO	£139.00	£163.33
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TWISTER TX PENTIUM ATX	£69.95	£82.19
SPITFIRE LX DUAL P2 AGP	£299.00	£351.33
MICRONICS TIGERCAT LX M/B	£119.00	£139.83
TIGERCAT W/SOUND LX ATX	£134.95	£158.57
SPITFIRE EX W/SOUND	£305.00	£358.38
MICRONICS PII BX +SOUND	£149.00	£175.08
MICRONICS BX PII NO AUDIO	£134.95	£158.57
MICRONICS DUAL PII BX +NO	£219.00	£257.33
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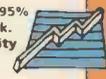
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Key to Abbreviations and symbols

FC = Fibre Channel	UW = Ultra Wide SCSI, 16bit
N = SCSI, 8bit	UATA = DMA Ultra IDE
UN = Ultra SCSI, 8bit	H = Height
W = Wide SCSI 16bit	I/F = Interface

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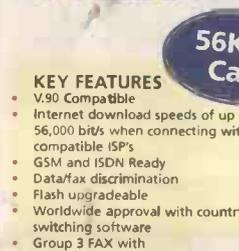
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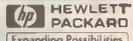
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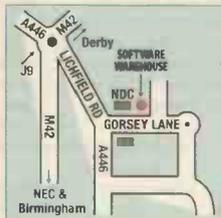
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UMAX Astra 1220P

Create powerful presentations and reports.

UMAX Astra 1220P colour scanner 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

- Single pass colour CCD
- 36-bit technology
- 69 billion colours
- Optical resolution: 600 x 1200 dpi
- Maximum resolution: 9,600 x 9,600 dpi
- 8.5"x11.7" max scan area
- "8bit Enhancement Technology" to optimise your scanned image.
- Easy-to-use scanner control software
- Adobe Photodeluxe: Photo-editing software
- Prestol PageManager: All-in-one scanning solution
- UMAX Copy Utility: Turns your printer into a copy machine
- Omnipage Direct OCR software



FROM £109
(Inc. VAT £128.08)

UMA038 Astra 1220P	(Inc. VAT £128.08)	£109
UMA037 Astra 1220P & Photoshop LE	(Inc. VAT £186.83)	£159
UMA039 Transparency Adaptor	(Inc. VAT £211.50)	£180

UMAX Astra 610P

The 30-bit Colour Scanner with enhanced colour quality

Main Features

- Includes VistaScan, the intelligent scanner driver which has incorporated MagicMatch, the colour calibration system.
- 300 x 600 dpi optical resolution; 4800 x 4800 dpi max. resolution
- 8.5" x 11.7" max. scan area
- 30-bit single-pass colour CCD
- Brand new UMAX Copy Utility turns your printer into a copy machine
- Includes Prestol PageManager, the versatile scanning operating system
- Presto photo-album - allows you to organise your images

Adobe PhotoDeluxe

Adobe's award winning image manipulation package comes free with all UMAX Astra scanners!



NOW INCLUDES OMNIPAGE DIRECT

UMA022 Umax Astra 610P (EPP/SPP parallel ports)
(Inc. VAT £69.33) **£59**

UMAX Astra 1220S

Single pass colour Flatbed Scanner

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



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UMA031 Astra 1220S	(Inc. VAT £269.08)	£229
UMA033 Astra 1220S & Photoshop LE	(Inc. VAT £304.33)	£259
UMA039 Transparency Adaptor	(Inc. VAT £211.50)	£180

UMAX Astra 610S

Main Features

- Brand new UMAX Copy Utility turns your printer into a copy machine
- Includes SCSI Card
- 8.5" x 11.7" max. scan area / 30-bit single-pass colour CCD
- Includes Prestol PageManager, the versatile scanning operating system
- 300 x 600 dpi optical resolution; 4800 x 4800 dpi max. resolution



NOW £89
(Inc. VAT £104.58)

UMA028 Umax Astra 610S **£89**

FOR MORE INFORMATION SEE OUR WEB SITE AT: www.software-warehouse.co.uk/umax

Acer VuegoScan 310/610

Acer brings image processing power and colours to your desktop. With VuegoScan 310, (SCSI) or Parallel or USB versions) superior documents and presentations of outstanding quality, are achievable within minutes of pressing a button, and at a price you can afford!

Windows 98 drivers available



- MiraScan powerful scanner driver
- Xerox TextBridge OCR software
- Photo Plus 4.0 from U lead
- Microsoft Internet Explorer 3.0
- Optical resolution 300 x 600 dpi / 600 x 1200 dpi
- Transparency scanning on 610ST
- Max. resolution 4800 x 4800 dpi / 9600 x 9600 dpi
- Scanning modes Colour: 30 bit Greyscale: 10 bit Halftone / LineArt: 1 bit

Your perfect productivity tool

Features

- Most affordable colour flatbed scanner.
- Friendly and versatile TWAIN-compliant driver for Win 3.1, Win 95, Win 98, and Mac
- High speed 1 pass scan; Colour preview takes only 8 seconds.
- High image quality: Acer patented R.O.S Technology (revolving optical system)

ACE010 VuegoScan 310P(Parallel) 4800dpi	(Inc. VAT £57.58)	£49
ACE040 VuegoScan 310U(USB) 4800dpi	(Inc. VAT £69.33)	£59
ACE009 VuegoScan 310S(SCSI) 4800dpi	(Inc. VAT £81.08)	£69
ACE014 VuegoScan 610P(Parallel) 9600dpi	(Inc. VAT £88.13)	£75
ACE038 VuegoScan 610S(SCSI) 9600dpi	(Inc. VAT £116.33)	£99
ACE041 VuegoScan 610U(USB) 9600dpi	(Inc. VAT £128.08)	£109
ACE039 VuegoScan 610ST(SCSI) with transparency feature	(Inc. VAT £186.83)	£159

FOR MORE INFORMATION SEE OUR WEB SITE AT: www.software-warehouse.co.uk/acer

Canon FB310

ONLY £105
(Inc. VAT £123.38)



For affordable, spectacular colour scanning, that does not take up valuable workspace, look no further than the CanoScan FB310 - the most compact and lightweight flatbed ever from Canon.

Experience all the fun of brilliant 300dpi colour in one incredibly convenient package. The CanoScan FB310 is the perfect springboard into the world of image processing.

The CanoScan FB310 has been designed to provide the simplest possible installation - simply connect your scanner to the parallel port interface of your computer and you are ready to start scanning.

NEW PRODUCT



CAN086 Canon FB310 (Inc. VAT £105) **£105**

Key Features

- High quality 300x600 dpi
- Excellent 30bit input / 24bit output
- Astonishingly light - only 2.7kg
- Maximum document size A4/letter (216 x 297mm)
- FREE Omnipage LE OCR software
- FREE iPhoto Express Imaging software
- Windows 95 and Windows NT 4.0 compatibility
- 12 months on site warranty

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ScanMaker 636

Microtek Introduces the powerful new ScanMaker 636 to master even the most arduous tasks in the office: brochures, presentations and much, much more are no problem for this SCSI scanner! With its 600x1200 dpi optical resolution and 36-bit maximum colour depth the ScanMaker 636 is your perfect business partner.

The award-winning SiverFast software is optional.

Features

- Optical resolution 600 x 800 dpi
- Interpolated 9600 x 9600 dpi
- Colour Depth 36 bit
- Scan Area 176mm x 297mm (A4) (8.5" x 11.6")



Software Bundle

- ScanWizard (PC Mac)
- Caere OmniPage LE (PC Mac)
- Ulead PhotoScan Full (PC Mac)
- Kai's PhotoSoap (PC Mac)
- DocuMagix PaperMaster (PC)
- ImageMagix2Gol (Win 3.0) / ColorIt! (Mac)
- LaserSoft SilverFast (PC Mac)
- Transparent Media Adaptor

Scanmaker 636 SCSI£199

Transparent Media Adaptor£75

36-bit



Phantom 336CX

A SCANNER YOU CAN TAKE ON YOUR TRAVELS
Microtek's Phantom 336CX gives very high quality scans, and comes with a complete suite of software. It is so compact, it was taken to the PC FORMAT office in the bottom of a standard briefcase!

The Phantom has a built-in EPP (Enhanced Parallel Port) and printer pass-through, which eliminates the need for an additional parallel port on your PC.

If you need extra speed, upgrade to the ScanMaker 336 which comes with extra Software and its own SCSI card.

PC FORMAT EDITOR'S CHOICE:

Best for budget:
The new Phantom from Microtek is remarkable for two reasons: not only is it the cheapest we looked at, but it's also by far the smallest - and makes a peach of a partner for a lonesome laptop.

PC FORMAT Rating 88%



ONLY £68.08 (inc. VAT £79.99)

- 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 !!

Phantom 336 CX...£68.08

WACOM

PenPartner

Full graphics power at your fingertips

Forget your uncontrollable old mouse and discover just how creative you and your PC can be with PenPartner.

With no need for cable or batteries, pointing and clicking with the Wacom PenPartner UltraPen is fast and accurate in any program. What's more, it makes drawing expressive. Pencil lines or making sensitive strokes with an airbrush, paintbrush or felt pen are easy and precise. Just like with an ordinary pen or pencil, you can control exact strokes of a line. Edit and retouch photos, draw, paint and erase with nothing short of 100% control.

- PenPartner UltraPen: Comfortable, balanced, simple
- Ulead PhotoScan Full (PC Mac)
- Lightweight and durable



As familiar as writing with pen on paper

FROM £49 (inc. VAT £57.58)

Pen Partner A6£49

PenPartner A6 + Dabble V2.0 + Kai's Photosoap SE£59

PenPartner A6 + Disneys magic Artlist.....£59

DC-FI 1920x1600 pixel CMOS Digital Camera

The DC-F1 is the lowest cost - High Quality digital camera in the world.

Based upon a revolutionary Active Pixel CMOS image sensor that provides 1920x1600 pixel high quality 30 bits/pixel images. A 4 element coated glass lens provides focus free operation from 1m to infinity. Sound records can be acquired with the built-in microphone. An automatic electronic flash provides additional illumination when required. Images and accompanying sound can be stored either in camera internal memory or in a 2MB removable memory card that can hold up to 30 images. This camera establishes a new criteria for low cost - high quality digital capture.

Features:

- 800,000 pixel CMOS sensor
- High Quality Images (1920x1600x 30bits/pixel)
- JPEG compression
- Integrated Automatic Electronic Flash
- 2M Removable Flash Memory Cards, included - stores up to 30 images
- Sound Recording at 20 sec. Per image
- Includes Bundled Software
- Adobe PhotoDelux based on Adobe PhotoShop, to put many powerful PhotoShop features at your command through a new, easy to use interface
- Adobe PageMill: Powerful tool to design professional looking Website
- Prestol Photo Album: Powerful tool to edit, crop, touch-up, rotate, resize, and organize your images into a digital photo album.

NEW PRODUCT

NOW £279 (inc. VAT £327.83)



Umax DC-FI CMOS Digital Camera£279

FOR MORE INFORMATION SEE OUR WEB SITE AT: www.software-warehouse.co.uk/umax

UMAX

THE ULTIMATE SCANNING SOFTWARE

Pagis Pro 2.0

4 POWERFUL SCANNING PRODUCTS 1 EASY-TO-USE PROGRAM!

Pagis Pro 2.0 is the ultimate scanning software. It features four powerful scanning products integrated into one easy-to-use program. With Pagis Pro 2.0, you'll get the productivity and colour output you want from your scanner. Pagis Pro 2.0 includes the most accurate OCR - TextBridge Pro 98 - for converting paper documents into electronic documents without re-typing; world-class photo editing with MG's PhotoSuite; tools for scanning, compressing and organising your documents using Pagis and Pagis Copier, to use your scanner and colour printer to make quality colour copies using Pagl Copier. Pagis Pro 2.0 lets you scan any document or photo, bring it into any application, share it with others and index it so you can easily find it later when you need it. Powerful yet so easy to use, Pagis Pro 2.0 meets all of your scanning needs.

TEXTBRIDGE PRO98

DRAMATICALLY INCREASE YOUR SCANNER'S OCR CAPABILITIES

Industry analysts agree that the most important issues for OCR users are accuracy and ease-of-use. To satisfy such demands, Xerox has introduced TextBridge Pro 98, a major new release of its award-winning OCR scanning software. TextBridge Pro 98 is a full-featured, highly accurate and easy to use document recognition package. TextBridge Pro 98 offers increased accuracy, improved duplication of page layout (including pictures and tables) and easy conversion of scanned documents into HTML for use on the World Wide Web. Users can edit their scanned documents with their existing word processor, spreadsheet or HTML editor. This advanced functionality is not found in the bundled OCR packages included with many scanners. TextBridge Pro 98 combines an intuitive user interface, a powerful new OCR engine and tools that optimize the scanning process to deliver new levels of accuracy, ease-of-use and better overall results.

Pagis Pro 2.0£69

Upgrade to TextBridge Pro 98 for only £48.95 (inc. VAT)

- Over 80% more accurate than other versions
- Improved document recognition retains original layout
- Retains tables, line art, inserts, reverse text and much more
- Improved HTML output for Web-ready text
- Adobe Acrobat PDF support
- Office 97 compatible

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ACER VUEGOSCAN 610S	£115.00	£135.13
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AGFA SNAPSCAN ADF	£169.00	£198.58
AGFA SNAPSCAN 600 PC	£299.99	£352.49
AGFA SNAPSCAN 310	£149.00	£175.08
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EPSON GTX8500 MAC	£399.00	£468.83
EPSON GT19500 MAC	£499.00	£586.33
EPSON FILMSCAN 200 MAC SC	£364.00	£427.70
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GT-9500 TRANSPARE UNIT	£399.00	£468.83
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EPSON GT-12000 ADF DUPLEX	£849.00	£997.58
EPSON GT12000 TRANSPARENT	£499.95	£587.44
EPSON GT19500 TRANS ADPTR	£406.00	£477.05
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FUJITSU 600C SHEETFEED	£885.00	£1,039.88
HP SCANJET 5 RJ45/BNC	£1,549.00	£1,820.08
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HP NETWORK SCANJET 5 1008	£1,799.00	£2,113.83
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PANASONIC KV-8550 SCANNER	£3,990.00	£4,688.25
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UMAX POWERLOOK 2 COLORPRO	£1,899.00	£2,231.33
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UMAX POWERLOOK 2	£749.00	£880.08
POWERLOOK COLUSTD 2 FULL	£899.00	£1,056.33
POWERLOOK COLUSTD UTA	£250.00	£293.75
ASTRA 600 S/P 2YR WARRANT	£229.95	£35.19
UMAX POWERLOOK 3YR WARRANT	£1,715.00	£2,056.63
UMAX ASTRA 610P	£59.00	£69.33
UMAX ASTRA 1200 2YR WARRANT	£45.00	£52.88
UMAX MIRAGE 2SE A3	£1,999.00	£2,348.83

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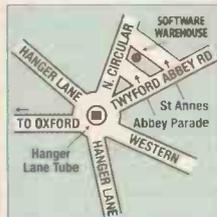


12Mb Voodoo II Graphics Card
Stock Code: TEC003

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Powershot A5 Canon

The new PowerShot A5 is a camera perfectly designed for the business user, providing superb image quality and picture taking flexibility in a compact, lightweight and totally portable package, small enough to fit into a shirt pocket.

The PowerShot A5 is packed with sophisticated features that enable you to get the best picture every time. A 2" LCD display enables simple reviewing or previewing of pictures, whilst the cameras 810,000 pixel CCD captures pictures at the optimal resolution for business users.

The camera also comes complete with a host of essential accessories, allowing simple connection to a PC or Mac. It can even be connected to a TV - enabling users to convert TV live presentation or Preview monitor. The PowerShot A5 is supplied with a rechargeable battery and a quick charger, together with a range of fully integrated software.

- KEY FEATURES**
- High Capacity 8Mb compact flash card
 - Autofocus lens
 - 810K pixel CCD
 - 1024 x 768 pixels
 - Built in Autoflash with red eye reduction
 - Continuous shooting mode allows 1 shot per second
 - Windows* 3.1, 95, NT 4.0 & Mac compatible
 - Ulead PhotoImpact 4.0, Photostitch & SlideShowMaker software

The Ideal Partner for Photo Computing



CAN085 Canon PowerShot A5£470

Cassiopeia Palmtop A20E

Casio Windows CE 2.0 platforms are designed for data collection and communication applications. By employing multiple input devices and formats Casio's Windows CE platforms can store and transfer data into most industry standard databases.

Operating System:	Microsoft Windows CE 2.0
Display:	640x240 dots
CPU:	4 grayscale monochrome with backlight
Memory:	32-bit SH-3, 80MHz
Card Slots:	8 MB RAM
Card:	PC Card (PCMCIA Type II), CompactFlash
Interfaces:	RS-232C, IrDA, 3-pin Serial Port
Speaker:	Built-in
Microphone:	Built-in
Power Supply:	Main: Two AA-size Alkaline batteries.
Back-up:	One CR-2032 Lithium battery, AC Adapter, Rechargeable Batteries.

CAS024 A20E Palmtop (8Mb)£339

EPSON PhotoPC 700

Professional quality Megapixel digital photography for the home and business. The EPSON PhotoPC 700 is an Autofocus digital camera using 1280 x 960 pixels. This produces outstanding quality images for printing, archiving, producing creative designs and more. It has other exciting features including, direct print to the Stylus Photo range and the Stylus Color 600, 800 and 850, a large 2" built-in colour LCD, file and presentation upload capabilities, video output and an advanced continuous shot mode. Also included in the PhotoPC 700 are some new and important features, including exposure compensation control, sensitivity selection, white balance settings and improved macro facility to give photographers a greater control over their photos.

- Features**
- Megapixel (1280 x 960) Auto Focus Digital Camera
 - Ease of use with OLE2 and TWAIN support
 - Large, high quality, built-in 2" LCD colour view finder
 - PAL TV & Video output for excellent large screen viewing
 - Extensive range of software included
 - Up to 10 exposure continuous-shot mode
 - Both Windows and Macintosh Compatible as standard
 - Direct Printing to the Epson Stylus Photo range and Stylus COLOUR 600, 800 & 850
 - 4Mb internal memory and external CompactFlash card (option 4Mb, 15Mb) for flexible image storage
 - Panoramic, Macro and Black & White image capture modes
 - Amazing close-up 10cm macro facility

EP5259 EPSON PhotoPC 700£398

Sanyo digiCAM

The future of photography today

Meet Sanyo's exciting new digiCAM, the incredibly easy to use camera that's so much more flexible than conventional photography. No fuss. No film. You can see the result the instant you take the picture.



- SAN002 Sanyo digiCAM VGA200£199
- SAN018 Sanyo digiCAM VGA210£279
(as SAN002 but with removable storage)
- SAN019 Sanyo digiCAM VGA250£339
(as SAN002 but with 5 sec video burst)
- SAN013 Sanyo digiCAM XGA300£339
(features 3 x zoom + sound)

Sanyo Projectors

PLC5605

The PLC5605 is the latest projector from Sanyo. The new compact design, with true SVGA resolution and 700 ANSI Lumens brightness makes this the lightest and brightest multimedia projector available today, ideal for presentations or for training. Compatible with the four most common colour systems, the PLC5605 can be hooked up to any PAL, SECAM NTSC and NTSC4.43 source remote control.

SAN014 Sanyo PLC5605£3699

PLC8815

The PLC8815 XGA projector has revolutionised the projector market offering the latest and brightest projector which leaves the competition standing. It uses a UHP lamp, an artificial light source with a spectrum close to that of sunlight, to produce natural looking colours. The lens retracts into the body of the projector when the power is switched off to ensure protection of the lens. Uses UHP lamp technology, 600 ANSI lumens at only 5.9 Kg in weight

SAN015 Sanyo PLC8815£4999

DC210 Plus- Zoom Camera Kodak ds digital science™

- 2X zoom lens with close-up mode
- 1152 x 864 pixels per image
- Colour LCD display lets you review and preview your pictures
- 8MB Compact Flash memory card
- Video out capability allows you to view your digital pictures on TV
- Supplied with Kodak Picture Easy, Adobe Photodeluxe and Pagemill software
- Compact and stylish design
- Includes AC Power adapter



KOD030 DC210 Plus Digital Camera£419

KOD025 DC200 Digital Camera£339

KOD008 DC120 Digital Camera£399

New DC220 - Zoom Camera

- Megapixel Technology
- 2X Optical plus 2X Digital Zoom
- Burst Feature
- Scripting Capability
- Time-Lapse Mode
- Audio Record and Playback
- Picture Easy Software
- 8MB card stores up to 120 pics
- 1152 x 864 pixel resolution for photo-realistic 5" x 7" images



KOD028 DC220 Digital Camera£589

New DC260 - Zoom Camera

- Megapixel Plus Technology
- 3X Optical plus 2X Digital Zoom
- Burst Feature
- Scripting Capability
- 8MB card Stores upto 120 pics
- Time-Lapse Mode
- Audio Record and Playback
- Picture Easy Software
- 1536 x 1024 pixel resolution produces photo-realistic 8" x 10" images



KOD029 DC260 Digital Camera£759

DV323 - Digital Video Camera

The fast, easy way to capture and share pictures and videos. Create 30 frames per second video. Video conference with business associates easily

- Up to 640 x 480 pixels resolution
- Totally plug and play
- Supports USB interface
- Comes with all the software you need to get started: Picture works Live, Microsoft Netmeeting, Kodak Picture Easy, Kai's Power Goo SE, Twain acquire module



KOD027 DV323 Digital Video Camera£129

A massive 90,000 items in stock across 10,000 different product lines. Nobody delivers faster!

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Index on page 2

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NEW PRODUCT

Sound Blaster PCI128

The low cost high performance audio solution! Everything you expect from a Creative Labs soundcard and more - at an unbeatable price!

- FEATURES**
- Digital effects engine for reverb and chorus
 - 128-voice polyphony and multi-timbral capability
 - User-selectable sample rates from 5kHz to 48kHz
 - Four speaker surround sound support
 - Full-duplex support enables simultaneous record and playback for internet comms software

CRE044 **SoundBlaster PCI128.....£32** (inc. VAT £37.60)



NEW PRODUCT

Sound Blaster Live!

So Real it has to be Live!

- FEATURES**
- SB Live! is the best PCI solution for any audio application
 - Supports up to 4 speakers, upgradable to 8 speaker support
 - Environmental Audio for the most realistic surround sound you've ever heard!
 - The EMU 10K1 sound processor has the equivalent processing power of a P166MMX
 - Amazing software bundle
 - Full Creative Software Suite
 - Cubasis AV - Sequencing hard disk recording software
 - Soundforge XP - Audio editing
 - Full retail version of Unreal - No.1 Action game of 1998!

CRE039 **SoundBlaster Live!£102** (inc. VAT £119.85)



NEW PRODUCT

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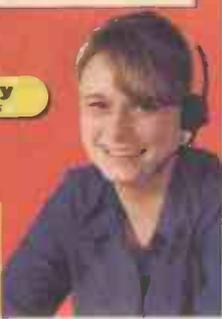
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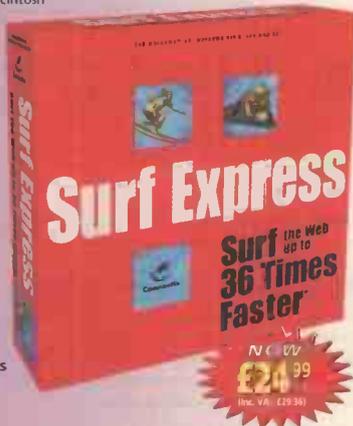
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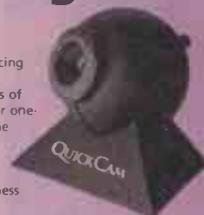
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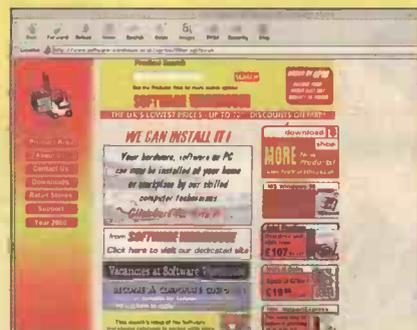
A. The highest levels of encryption are used to ensure that credit card details cannot be accessed or tampered with in any way by third parties. With this high level of security and ease of use, electronic commerce is set to explode into the 21st century.

Q. What are the benefits?

A. Buying from Download Shop gives up to 40% off the price of the boxed product (no manual provided). It is also available 24 hours a day, 365 days a year - a great way of obtaining the latest versions!

www.downloadshop.co.uk

HAVE YOU VISITED OUR WEB SITE LATELY?



If not, you're missing 24 hour ordering, fax-facts information and exclusive offers! Software Warehouse make online buying and browsing easy!

www.software-warehouse.co.uk

ORDER FORM

SOFTWARE WAREHOUSE

Your Order (USE CAPITALS ONLY)

Qty.	Reference	Description	Price (Ex. VAT)
1	FREE GIFT	See Page Two	FREE

Payment Details

Cheque Access/Visa Amex Switch VAT @ 17.5%

Delivery Sub Total

TOTAL

Exp. Date

Card No.

Card Issue No (Switch)

NB. If paying by cheque, please allow 7 days for clearance. An instant service for immediate despatch is available - add 1.5% to your order total and tick the box.

Personal customers who wish to use Transax Cheque Clearance, please supply your cheque guarantee card number in the box to the left.

HOW TO ORDER

TEL: 01675 466 467
 FAX: 01675 466 460

PHOTOCOPIY TO POST OR FAX TO:
 SOFTWARE WAREHOUSE PLC,
 CLIFTON HOUSE, GORSEY LANE,
 COLESHILL, WARKS, B46 1SW.

Invoice Address

Title Name

Signature

(Company Name)

Tel No. Fax No.

Address

Post Code

Please note: If purchasing by credit card, delivery of goods can only be made to the registered address of the credit card holder. For security reasons this information will be computer matched prior to despatch.

A massive 90,000 items in stock across 10,000 different product lines. Nobody delivers faster!

To Order By Telephone Call **01675 466467**
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OCTOBER 1998

NOW IT COSTS YOU NOTHING
TO GET THE BEST ...

See Page 2 for details



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Prices effective from 8th day of month of publication. Whilst every effort is made to ensure accuracy, prices & specifications can be subject to change without notice. Please confirm details when ordering. E&OE : Errors & Omissions excepted.

At SMC, we strive to be the best.

We draw our inspiration from sport, where nothing less than complete focus will get you to the top, and where any relaxation in standards will threaten your position.

Judge our competitiveness by our prices, experience our dedication by the quality of our operation, and see our commitment from how much we help you, both before and after the sale.

Rest assured, we pride ourselves on our ability to deliver what we promise, and never cease in our drive to improve and refine what we do. We believe that excellence is the key to success, and with over seven years of continual expansion behind us, we have the experience as well as the ability to give you the very highest level of service in the market.

PC UPGRADES & SYSTEMS

SMC : THE UK'S TOTAL QUALITY SUPPLIER

At SMC, as one of the UK's foremost suppliers of PC's and upgrades, we have built our business on our reputation for providing an utterly professional service at fiercely competitive prices.

Take a look at the product listings on these pages and we're sure you'll agree that with our established quality of operation coming free of charge, you won't find better value for your money.



HOW TO ORDER



BY TELEPHONE :

Call one of our **FREE Sales Hotlines** (given at the top of every right-hand page). We can give you details of product availability, process your order and start the shipment process while you wait.

BY FAX :

Fax us on 01753 - 524443 with your requirements and payment details and we'll process the order immediately. Please include a phone number !

BY POST :

Send us your requirements and payment for immediate attention. Uncovered personal cheques may take 10 working days to clear. Please include a phone number !

IN PERSON :

Personal callers are welcome, but you are advised to telephone and reserve stock beforehand, when you will be given a sales reference and given priority treatment when you arrive.

PLEASE NOTE :

SMC Computers has very strict payment security procedures which exist for everyone's benefit. We may call you to confirm details as part of this process.



Welcome to the October edition of the SMC Catalogue

Recent months have been our busiest ever - so much so that we've had some members of staff coming in during their holidays (now there's loyalty for you !)
It's obviously you, our customers, who have created that success, and as thanks for your ever-growing support, we're offering another big improvement in our drive to continue to give you the highest service levels at the lowest cost.

Free Phone !

Yes, all our Sales Hotlines are now Free Phone numbers : and you'll see that, with separate numbers for Scotland, the North, the Midlands and the South, we can continue to provide not only the best, but also the most focused, service in the market.
So if you've never tried us before, you now don't even have to pay for a phone call to see how we back up our statements about the Total Quality of our operation.

New Phone !

You'll also get an even better service from our new telephone system, which has just come on line. Not only is it twice the size of our previous one, but we have been careful to ensure that you can decide whether to take advantage of its new automated features! This means that in the event of a busy line, you can choose whether your call is handled automatically (which is quicker), by an operator (which you may prefer) or is directed through to voice mail if you have a regular or preferred sales contact.

Your Phone !

It's your phone call that matters to us, and to keep you calling, we've also added a whole range of new features this month. You'll see additional products in areas such as hard drives, graphics cards, digital cameras and monitors, an expanded software section, and new manufacturers products such as UMAX scanners and digital cameras, Syquest removable drives and Sony notebook PCs.

We're really pleased with the response you've given us, and now, with your phone call paid by us and an ever-increasing number of things going on at SMC, we hope we've given you even more reason to make SMC not only your preferred, but your only supplier.

NON-SALES HOTLINES

CUSTOMER CARE	0175 3550 999
SWITCHBOARD	0175 3550 666
FAX	0175 3535 175

SMC Guarantees You Peace Of Mind

We appreciate that the products we sell are of a technical and sometimes confusing nature, and occasionally problems may arise, so for your peace of mind SMC offers you a unique **Four-Stage** guarantee :

- Stage 1 : Our 7 day option -** When you receive your purchase, if you are not completely satisfied, we will gladly exchange it or refund the purchase price less carriage charges.
- Stage 2 : Our 30 day option -** If any product that you order fails within 30 days, we will gladly exchange it or refund the purchase price less carriage charges.
- Stage 3 : Warranties -** Just arrange to return the product to us and we will handle it from there.
- Stage 4 : Quick response -** If you have need to use any of the above options, or if you have any problems that need resolving, please contact our Customer Service team on **01753 550999** for an immediate, no-fuss response.

So with this in mind, you can order from SMC with total confidence in the knowledge that every product will perform to your expectations -

OR WE WILL TAKE IT BACK

(Does not include: Notebooks, Printers, Software, made-to-order items such as Systems and cables, and items specially purchased.)

SALES FREEPHONES : South - 0800 013 5 333

Midlands - 0800 013 6 333

North - 0800 013 7 333

Scotland - 0800 013 8 333

FAX : 01753 524443



SALES LINES OPEN : MONDAY TO FRIDAY : 8.30am - 6.30pm SATURDAY : 9am - 1pm

For Customer Care and Switchboard Hotlines see Page 2

THE BEST YOU'LL GET

NEW !

Infinite
Personal Computer

PC PACKAGES

INFINITE PC SYSTEMS



Home PC Plus

SMC's design team have brought together everything for a complete home PC solution :

- >> 266MHz processor
- >> 32MB RAM
- >> 2MB 2D/3D graphics
- >> 64-bit sound with stereo speakers
- >> 2GB hard drive
- >> 32-speed CD-ROM drive
- >> 14" SVGA monitor
- >> Hewlett Packard Deskjet printer
- >> W95 105-key keyboard & mouse
- >> Microsoft Windows 98
- >> Lotus Smartsuite software

We don't think you'll find better value for money !

£579

£680.33 inc.VAT

The latest offerings from SMC are our new ready-to-go bundled PC's, complete with the equipment and software necessary to get straight into action.

The **Home PC Plus** is the ideal solution for the entry-level purchaser : not only do you get state-of-the-art technology, but with a Hewlett Packard Deskjet printer and the full Lotus Smartsuite office software, you're up and running in no time at all.

The **Multimedia Publisher 98** has been designed with real flair in mind : all the sound and vision capabilities of the Home PC Plus, as well as Internet capability, enhanced graphics, a colour A4 Flatbed Scanner and the full Microsoft Home Essentials software package.

We're very pleased with our latest creations, and to see why, all you have to do is call . . .



Multimedia Publisher 98

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 266MHz Celeron processor
- >> 32MB RAM
- >> 4MB 2D/3D graphics
- >> 64-bit sound with stereo speakers
- >> 56k Fax/Modem
- >> 3GB hard drive
- >> 24-speed CD-ROM drive
- >> 14" SVGA monitor
- >> Hewlett Packard Deskjet printer
- >> Colour A4 Flatbed Scanner
- >> W95 105-key keyboard & mouse
- >> Microsoft Windows 98
- >> Microsoft Home Essentials software

Software packaging shown for illustration purposes

SMC Computers Plc
253-257 Farnham Rd Slough Berkshire SL2 1HA



ALL MAJOR CREDIT CARDS ACCEPTED

<http://www.smc-computers.co.uk>



For a truly Personal Computer ...

While the systems listed below can usually be provided off-the-shelf, we also specialise in the production of made-to-measure PC's, designed and built to individual requirements. If you have a specific design in mind - or would simply like a quotation on a variation of a model you see below - just give one of our Sales Hotlines a call and one of our Technical Sales specialists will be happy to discuss what you need in terms of performance and price. Individually-built systems take around five working days to process fully, so if you call us today, within a week you could have a new PC that is exactly what you want, and because we don't charge for the extra service, it will be at a price you can afford.

LYNX C266

The Lynx can run all your business applications today and because of its ease of upgradability, when your business grows - it can grow with you.

- >> INTEL CELERON 266MHz processor
- >> Upgradability to 450MHz
- >> INTEL's latest PII 440BX chipset
- >> 32MB fast SDRAM
- >> 4.3 GB Hard Drive
- >> 32-speed CD-ROM drive
- >> 2MB 2D/3D AGP graphics
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> 15" SVGA monitor

£569

£668.58 inc.VAT

COUGAR 333

The Cougar has been designed as the ideal all-round Multimedia PC.

- >> INTEL Pentium II 333MHz processor
- >> Upgradability to 450MHz
- >> INTEL's latest PII440BX chipset
- >> 512KB Level 2 Cache
- >> 32MB fast SDRAM
- >> 4.3 GB Hard Drive
- >> 32-speed CD-ROM drive
- >> 4MB 2D/3D AGP graphics
- >> SoundBlaster 64 Voice c/w speakers
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> 15" SVGA monitor

£739

£868.33 inc.VAT

LEOPARD 333

The Leopard is configured as the ultimate gaming solution.

- >> INTEL Pentium II 333MHz processor
- >> Upgradability to 450MHz
- >> INTEL's latest PII 440BX chipset
- >> 512KB Level 2 Cache
- >> 64MB fast SDRAM
- >> 6.4GB Hard Drive
- >> 32-speed CD-ROM drive
- >> SoundBlaster 64 Voice c/w speakers
- >> 8+4MB 2D/3D AGP Voodoo2 graphics
- >> 56Kbps Fax/Modem
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> G.Police, Incoming, Actua Soccer and Ultimate Race games
- >> 15" SVGA monitor

£979

£1150.33 inc.VAT

PUMA 333

With network capability, the Puma is ideal for use as a workstation on either a conventional or peer-to-peer network.

- >> INTEL Pentium II 333MHz processor
- >> Upgradability to 450MHz
- >> INTEL's latest PII 440BX chipset
- >> 512KB Level 2 Cache
- >> 32MB fast SDRAM
- >> 4.3GB Hard Drive
- >> 32-speed CD-ROM drive
- >> SoundBlaster 64 Voice c/w 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

£779

£915.33 inc.VAT

JAGUAR 333

The Jaguar is an excellent all-round system with ample capacity for all business, games and multimedia applications.

- >> INTEL Pentium II 333MHz processor
- >> Upgradability to 450MHz
- >> INTEL's latest PII 440BX chipset
- >> 512KB Level 2 Cache
- >> 32MB fast SDRAM
- >> 6.4GB Hard Drive
- >> 32-speed CD-ROM drive
- >> SoundBlaster 64 Voice c/w speakers
- >> 4MB 2D/3D AGP graphics
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> 15" SVGA monitor

£699

£821.33 inc.VAT

PANTHER 400

The Panther is a truly high-end machine that can double as a small network server and high-end working unit.

- >> INTEL Pentium II 400MHz processor
- >> Upgradability to 450MHz
- >> INTEL's latest PII 440BX chipset
- >> 512KB Level 2 Cache
- >> 64MB super-fast 100MHz SDRAM
- >> 6.4GB Hard Drive
- >> 32-speed CD-ROM drive
- >> SoundBlaster 64 Voice c/w speakers
- >> 4MB 2D/3D AGP graphics
- >> 56Kbps Fax/Modem
- >> Intel 10/100 Base-T Network card
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> 15" SVGA monitor

£1089

£1279.58 inc.VAT

CHEETAH 450

The Cheetah is our latest top-of-the-range PC, and it maintains our tradition of offering high-performance technology at extremely competitive prices.

- >> INTEL P450 Pentium II processor
- >> INTEL's latest PII 440BX chipset
- >> 512KB Level 2 Cache
- >> 64MB super-fast 100MHz SDRAM
- >> 8.4GB Hard Drive
- >> 32-speed CD-ROM drive
- >> SoundBlaster 64 Voice c/w speakers
- >> 8MB 2D/3D AGP Matrox G200 graphics
- >> 56Kbps Fax/Modem
- >> W95 105-key keyboard and mouse
- >> Windows 98 Operating System
- >> 15" SVGA monitor

£1199

£1408.83 inc.VAT

NOTE : Prices are given for systems collected from SMC. For delivery please add £25 + VAT (£29.38)

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.



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

SALES FREEPHONES : South - 0800 013 5 333

Midlands - 0800 013 6 333

North - 0800 013 7 333

Scotland - 0800 013 8 333

FAX : 01753 524443



SALES LINES OPEN : MONDAY TO FRIDAY : 8.30am - 6.30pm SATURDAY : 9am - 1pm

For Customer Care and Switchboard Hotlines see Page 2

THE BEST YOU'LL GET

5 YEAR WARRANTY * . . .

LIFETIME PEACE OF MIND



* Three-year warranty applies to monitors

SMC INFINITE systems

At SMC, we have been building PC's for years, and we don't believe anyone can match our unique combination of high performance, flexibility and competitiveness. From the sales process, where trained, friendly and helpful staff can exactly match the specification to your needs and produce a quotation as you speak, to the final build process, we take a genuine pride in our work. Every PC is built on-site by our own staff : we do not sub-contract or "buy in" systems from third parties. Initial assembly is carried out by an individual engineer, fully "burned in" and then quality-checked by another engineer before being passed for shipment. Components used are all major-brand products with full specification and totally compatible and upgradable as technology moves on.

The INFINITE brand has been built strongly over the years on the basis of care and attention to detail, and a deliberate and unbroken rejection of so-called "box-shifter" principles. In this way we have developed a no-compromise approach to quality that will give you a PC you'll be both pleased and proud to own.

What's more, as with everything we do, getting a premium service from SMC doesn't mean you'll find anything added to the price.

Software Upgrade options

Take advantage of these software upgrade options (available at the time of purchase only) to add even more value to your PC.

Lotus SmartSuite **£19**
£22.33 inc.VAT

Microsoft Works **£16**
£18.80 inc.VAT

Microsoft Home Essentials **£69**
£81.08 inc.VAT

Microsoft Office SBE **£129**
£151.58 inc.VAT

SMC Computers Plc
253-257 Farnham Rd Slough Berkshire SL2 1HA



ALL MAJOR CREDIT CARDS ACCEPTED

INFINITE PC SYSTEMS

<http://www.smc-computers.co.uk>

5

In our new Notebooks section, you will find products laid out in the SMC style : simple and informative so you have all you need to make the choice that suits you best. Thanks to everyone whose purchases are making the introduction of Notebook PCs such a success : proof again that by concentrating on providing the products people want, supported by the highest possible levels of service, we are able to continue our progress at the forefront of the market. And don't forget that we have probably the most technically competent operation you'll find, so should you need an upgrade in the future, our salespeople will be able to provide you with exactly what you want at - of course - exactly the right price.



LG HANDHELD PC

Nobody is further ahead in IT than LG. £1.5m is spent every day on R&D and £2.0bn is being invested in a manufacturing plant in Wales, ensuring LG Electronics' position as a leading player in a very exciting digital future.



Totally portable computing

PHENOM (H120S) Handheld PC

- Windows CE 2.0 operating system inc. Pocket Word, Excel, PowerPoint Viewer, Explorer & Schedule
- Extra wide LCD screen & large keyboard
- In built VGA for full colour Power Point presentations
- 8MB RAM & 16MB inc. Pre-loaded software
- Type II PCMCIA & Compact flash expansion slots

94-26-1200 **£355** (£417.13 inc.VAT)



LG We put people first

Website <http://www.lge.co.kr>

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.

exc.VAT inc.VAT

- 94-90-0100 **Palm Pilot Professional**
4000 addresses, 2400 appointments,
750 to do, 750 memos, 100 email **£159** **£186.83**
- 94-90-0200 **Palm Pilot III**
6000 addresses, 3000 appointments,
1500 to do, 1500 memos, 200 email

SONY VAIO



The ingenious and stylish design of this ultra-slim (24mm), B5-size Notebook means that full functionality is built in to a form that can be taken anywhere.

Not only does the Notebook weigh just 1.35kg (3lbs), but with external CD-ROM/floppy drives and GSM-ready 4in1 fax/modem PC card, you're ready to work & play wherever you are.

exc.VAT inc.VAT

- 94-71-0505 **VA10-505** **£1899** **£2231.33**
- >> 10.4" TFT display (800x600)
 - >> Intel Pentium P233MMX processor
 - >> 32MB RAM (upgradable to 96MB)
 - >> 2.1GB Hard Drive
 - >> External CD-ROM & floppy drive
 - >> 2MB video RAM
 - >> 1 year warranty (extra 2 years on registration)

Includes FREE Earphones, port replicator (serial, parallel,

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.

exc.VAT inc.VAT

1570 Series

- Features : >> 12.1" STN display
>> Intel Pentium P233MMX processor
>> 3.2GB Hard Drive
>> 20-speed CD-ROM

- 94-09-1573 **1573D** **£1299** **£1526.33**
- >> 12.1" TFT display
 - >> 16MB RAM (upgradable to 80MB)
 - >> 3.2GB Hard Drive

1590 Series

- Features : >> 32MB RAM (upgradable to 96MB)
>> 20-speed CD-ROM

- 94-09-1592 **1592DT** **£1299** **£1526.33**
- >> 12.1" TFT display
 - >> Intel Pentium P233MMX processor
 - >> 3.2GB Hard Drive

- 94-09-1598 **1598DT** **£1529** **£1796.58**
- >> 13.3" TFT display
 - >> Intel Pentium P266MMX processor
 - >> 4.0GB Hard Drive

1700 Series

exc.VAT inc.VAT

- Features : >> 32MB RAM (upgradable to 96MB)
>> 4GB Hard Drive
>> 24-speed CD-ROM

- 94-09-6233 **6233T-W95** **£1559** **£1831.83**
- >> 12.1" TFT display
 - >> Intel Mobile Pentium II 233MHz processor
 - >> Microsoft Windows 95 installed

- 94-09-6238 **6233T-W98** **£1559** **£1831.83**
- >> 12.1" TFT display
 - >> Intel Mobile Pentium II 233MHz processor
 - >> Microsoft Windows 98 installed

- 94-09-6266 **6266T-W95** **£1929** **£2266.58**
- >> 13.3" TFT display
 - >> Intel Mobile Pentium II 266MHz processor
 - >> Microsoft Windows 95 installed

7300 Series

- Features : >> 12.1" TFT display
>> 32MB RAM (upgradable to 128MB)
>> 4GB Hard Drive and 3.5" FDD
>> 33.6Kbps integrated Fax/Modem

- 94-09-7380 **7380DMT** **£2099** **£2466.33**
- >> Intel Pentium P266MMX processor

7700 Series

- Features : >> 13.3" TFT display
>> 32MB RAM (upgradable to 144MB)
>> 5GB Hard Drive and 3.5" FDD
>> 33.6Kbps integrated Fax/Modem

- 94-09-7792 **7792DMT** **£2079** **£2442.83**
- >> Intel Pentium P266MMX processor

7800 Series

- Features : >> 13.3" TFT display
>> Intel Mobile Pentium II 266MHz processor
>> 64MB RAM (upgradable to 160MB)
>> 5GB HD and 20-speed CD-ROM

- 94-09-7895 **7800-W95** **£2539** **£2983.33**
- >> Windows 95 installed

- 94-09-7800 **7800-WNT** **£2639** **£3100.83**
- >> Windows NT installed

ASUS NOTEBOOK PCs

ASUS notebook PCs are fitted with 32MB memory, 3.2GB Hard Drive, 20-speed CD-ROM drive and 13.3" TFT display. Windows 95 is installed, and a Carry Case is provided.

ex VAT inc VAT

Notebook PCs

- Pentium processor : with 32MB RAM**
- 94-99-7233 P233MMX **£1459** **£1714.33**
- Pentium II processor : with 64MB RAM**
- 94-99-1233 PII 233MHz **£1599** **£1878.83**
- 94-99-1266 PII 266MHz **£1699** **£1996.33**

Upgrade Options

IMPORTANT : these options are available at time of purchase only.

- 30-99-4001 4.1GB Hard Drive **£200** **£235.00**
- 51-99-2001 DVD CD-ROM and MPEG upgrade **£200** **£235.00**
- 19-99-0016 Memory upgrade (maximum 144MB)
Per 16MB **£40** **£47.00**



DON'T FORGET :

Kingston matched memory upgrades available

FOR LIFETIME WARRANTY

See page 10

SALES FREEPHONES : South - 0800 013 5 333

Midlands - 0800 013 6 333

North - 0800 013 7 333

Scotland - 0800 013 8 333

FAX : 01753 524443

SALES LINES OPEN : MONDAY TO FRIDAY : 8.30am - 6.30pm SATURDAY : 9am - 1pm

For Customer Care and Switchboard Hotlines see Page 2



THE BEST YOU'LL GET

TOSHIBA LIBRETTO



Weighing less than two pounds, the Libretto is the world's smallest fully-functional Windows 95 PC, and represents Toshiba's most spectacular example of miniaturised PC technology to date.

exc.VAT inc.VAT

94-75-0100 **100CT** **£1129** £1326.58

- 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
 - >> 82-key keyboard with MousePoint on display lid
 - >> 2 x 32bit PCMCIA slots (2xType II or 1xType III)
 - >> 210 x 132 x 35mm : weighs just 950g
 - >> Rechargeable lithium ion battery (2-hour life)
 - >> Soundblaster Pro compatible sound system
 - >> Built-in microphone & speakers
 - >> Microsoft Windows 95 installed
 - >> Free 1-year warranty

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.

- Features :**
- >> Intel Pentium P200MMX processor
 - >> 32MB EDO RAM (160MB upgradable)
 - >> 2.02GB Hard Drive
 - >> Built-in FDD and 16-speed EIDE CD-ROM
 - >> 2MB VRAM PCI video with BitBlock accelerator
 - >> 86 full-size key keyboard with MousePoint
 - >> 2 x 32bit PCMCIA slots (2xType II or 1xType III)
 - >> 303 x 239 x 55mm : weighs 3kg
 - >> Rechargeable lithium ion battery (2.5-hour life)
 - >> Soundblaster Pro compatible sound system
 - >> Built-in speakers & speaker/microphone sockets
 - >> USB port
 - >> Free 1-year warranty
 - >> Microsoft Windows 95 installed

exc.VAT inc.VAT

94-75-3107 **310CDT** **£1099** £1291.33

- Features** above specifications with :
- >> 12.1" TFT display
 - >> Battery life up to 3 hours

94-75-3200 **320CDS** **£1029** £1209.08

- Features :** above specifications with :
- >> 12.1" STN display.
 - >> Intel Pentium P233MMX processor
 - >> 3.82GB Hard Drive
 - >> 20-speed EIDE CD-ROM

94-75-3207 **320CDT** **£1279** £1502.83

- Features :** above specifications with :
- >> 12.1" TFT display.
 - >> Intel Pentium P233MMX processor
 - >> 3.82GB Hard Drive
 - >> 20-speed EIDE CD-ROM
 - >> Battery life up to 3 hours

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.

- 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
 - >> 86 full-size key keyboard with MousePoint
 - >> 2 x 32bit PCMCIA slots (2xType II or 1xType III)
 - >> Optional CardStation III docking Unit
 - >> 304 x 239 x 51mm : weighs 3.1-3.2kg with FDD
 - >> Rechargeable lithium ion battery (2.5-hour life)
 - >> Soundblaster Pro compatible sound system
 - >> Built-in microphone and speakers
 - >> Free 3-year warranty
 - >> Microsoft Windows 95 installed

exc.VAT inc.VAT

94-75-4807 **480CDT** **£1629** £1914.08

- Features** above specifications with :
- >> 12.1" TFT display

94-75-4907 **490CDT** **£1699** £1996.33

- Features** above specifications with :
- >> 12.1" TFT display
 - >> Intel Pentium II 233MHz processor
 - >> 20-speed CD-ROM
 - >> S3 VIRGE graphics chipset

94-75-4909 **490XCDT** **£1959** £2301.83

- Features** above specifications with :
- >> 13.3" TFT display
 - >> Intel Pentium II 266MHz processor
 - >> 20-speed CD-ROM
 - >> S3 VIRGE graphics chipset

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.

exc.VAT inc.VAT

94-75-0320 **320CT** **£1899** £2231.33

- Features :**
- >> 10.4" TFT display
 - >> Intel Pentium P266MMX processor
 - >> 32MB EDO RAM (64MB upgradable)
 - >> 3.82GB Hard Drive and external 3.5" FDD
 - >> 20-speed CD-ROM via CD Docker (optional)
 - >> 2MB VRAM PCI video with BitBlock accelerator
 - >> 86 full-size key keyboard with MousePoint
 - >> 2 x 32bit PCMCIA slots (2xType II or 1xType III)
 - >> Mini Port Replicator docking unit
 - >> 263 x 187 x 35mm : weighs 1.7kg
 - >> Rechargeable lithium ion battery (2.5-hour life)
 - >> Soundblaster Pro compatible sound system
 - >> Built-in microphone & speakers

TOSHIBA TECRA



From the outstanding features and value for money of the 550CDT to the ground-breaking technology of the 780DVD, the Tecra name stands for performance and epitomises Toshiba's undisputed position as the world leader in portable computing.

exc.VAT inc.VAT

94-75-5500 **550CDT** **£1889** £2219.58

- Features** above specifications with :
- >> 12.1" TFT display
 - >> Intel Pentium P266MMX processor
 - >> Weights 3.2kg with FDD

94-75-7800 **780DVD** **£3059** £3594.33

- Features** above specifications with :
- >> 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
 - >> 304 x 240 x 54mm : weighs 3.6kg with FDD
 - >> Battery life up to 3.5 hours

TOSHIBA WARRANTIES

Extra 2-year international cover is available for Toshiba notebooks as follows :

94-75-9901	Libretto		
	70CT, 100CT	£130	£152.75
94-75-9903	Satellite		
	300CDS, 310CDS, 320CDS		
	300CDT, 310CDT, 320CDT	£130	£152.75

NOTEBOOK PCS : TOSHIBA

http://www.smc-computers.co.uk



Did you know - SMC maintains a constant emphasis on training in all aspects of its operation to ensure that staff are able to provide the highest levels of service. In addition to full-time staff employed to teach and reinforce job skills and procedures, we periodically engage outside agencies to provide another perspective, and in 1997 we received a Thames Valley Business of the Year award in recognition of the investment we have made in training. When we say that we are continually seeking improvement in what we do - we mean it.



EDUTAINMENT

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MICROSOFT

MULTIMEDIA EDUCATIONAL

05-50-5381	500 Nations	£19	£22.33
05-50-5213	Composer Collection	£32	£37.60
05-95-5217	Dangerous Creatures	£22	£25.85
05-50-0114	Encarta 98 UK Windows 95	£31	£36.43
05-50-0115	Encarta 98 Deluxe UK Windows 95	£49	£57.58
05-50-0117	World Atlas 98 Windows 95	£32	£37.60
05-50-7103	Musical Instruments	£19	£22.33
05-95-7151	Oceans	£19	£22.33
05-50-0112	Encarta Reference Suite 99 - UK	£78	£91.65
05-50-0111	Encarta 99 Deluxe UK	£55	£64.63
05-50-0110	Encarta 99 UK	£32	£37.60
05-50-0118	Encarta World Atlas 99 - UK	£32	£37.60

MULTIMEDIA GENERAL

05-50-0122	Autoroute Express GB 98- Windows 95	£17	£19.98
05-50-0121	Autoroute Express Europe 98-Win 95	£39	£45.83
05-95-7047	Cinemanla 97	£19	£22.33

Microsoft Encarta 98

Specialy designed, edited and updated in London for the UK, Microsoft Encarta 98 is the ultimate learning resource. Combining current, comprehensive content with the most up-to-date multimedia technology, Encarta's award-winning features provide users with unique, engaging learning experiences. Use Multimedia collages, Virtual Tours, 360° views, Videos, Photos and illustrations to clarify information and make understanding much easier. Choose from the Standard or the 3-CD Deluxe editions - and make learning a simpler and more enjoyable experience.



AutoRoute Express

Auto-Route Express features some of the best maps you'll ever see! Plan your next trip the easy way with the AutoRoute Express Route Wizard. Get a custom itinerary for the stopovers, schedule, driving speeds and road preferences you choose. Whet your travel appetite with articles and pictures in the AutoRoute Express Travel Guide.



UTILITIES

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MICROSOFT

05-50-9809	Windows 98 Plus pack	£27	£31.73
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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	£499	£586.33

NORTON

01-95-0103	Utilities V8	£85	£99.88
05-95-9503	Utilities - WIN 95 V3	£55	£64.63
05-95-9055	Uninstall Deluxe	£26	£30.55
05-95-9057	CrashGuard Deluxe	£29	£34.08
05-95-9065	PC Anywhere 8	£92	£108.10

QUARTERDECK

05-95-0202	Partition-It Ex.Strength	£38	£44.65
05-95-0213	Real Help Ex.Strength	£29	£34.08
05-95-0221	VirusSweep	£24	£28.20
05-95-0219	Cleansweep Deluxe	£33	£38.78

McAfee

05-97-0123	PC Medic International	£24	£28.20
05-97-0109	PC Medic Int. Deluxe	£29	£34.08
05-97-0102	Nuts & Bolts	£28	£32.90
05-97-0105	Nuts & Bolts Deluxe	£36	£42.30
05-97-0320	Hurricane 98	£21	£24.68
05-97-0107	Safe & Sound Internat	£15	£17.63
05-97-0550	PGP Personal Edition -2 user license	£21	£24.68

We can also provide a range of McAfee Multi-node user licence products from 5-node through to 250-node.

Multi-node products offered include:- Total Virus Defense, VirusScan Security Suite, Internet Security Suite, VirusScan, WebScanX, Nuts&Bolts, PGP Desktop and Server Suite along with PGP Total Network Security Suite.

Prices and node levels vary - please call with your requirements.

PowerQuest Partition Magic

Run Windows 98 and Windows 95 on the same PC! Partition Magic 3.0 makes it easy to run multiple operating systems on the same machine without compatibility problems. Using IBM's Boot Manager, it is possible to select an operating system on startup.



So you can explore the possibilities of, say, Windows NT while using your existing operating system for your main applications. Create a separate partition for data files you wish to protect from unauthorised use, corruption by unstable packages, or to simplify data backup. Save disk space too - up to 40% of hard drive space can be wasted, and Partition Magic 3.0 restructures partitions and cluster sizes so you get the most from your disk.

PowerQuest Drive Image

Drive Image is an easy to use, fast, and comprehensive solution for fast backup, upgrades and even system recovery. Create a complete backup of your hard drive in minutes, on to removable media such as Zip, Jaz or Syquest. Restore via a simple click of the mouse. Drive Image also checks for disk integrity and looks for bad sectors to prevent data loss. With Drive Image Professional, you can extend this functionality to multiple workstations, vastly simplifying and reducing the cost of network



McAfee - Network Associates

ALL THE SURVIVAL GEAR YOU'LL EVER NEED!



With headquarters in Santa Clara, California, Network Associates, Inc., formed by the merger of McAfee Associates and Network General, is a leading supplier of network security and management solutions. SMC can provide a comprehensive suite of products which improve efficiency and performance, making you, the user more productive than ever before, and lowering overall IT and network total cost of ownership.



BUSINESS APPLICATIONS

ex VAT inc VAT

MICROSOFT

05-50-1209	Money 98	£19	£22.33
05-50-7157	FrontPage 98	£89	£104.58
01-50-3155	Word 97	£222	£260.85
05-50-3117	Office 97	£327	£384.23
05-50-3113	Office V4.2	£325	£381.88
05-50-3177	Office Professional 97	£425	£499.38
05-50-9702	Office Small Business Edition (SBE) 97 - V2	£329	£386.58
05-50-2405	BackOffice Small Business Server 4 +5 users	£899	£1056.33
05-502425	BackOffice Small Business Server 4 + 25 users	£529	£1796.58
05-50-3235	Excel 97	£222	£260.85
01-50-3197	Access 97	£222	£260.85
01-50-3357	Powerpoint 97	£222	£260.85
01-50-9109	Publisher 98	£67	£78.73
05-50-6198	Project 98	£299	£351.33
05-50-1091	Proxy Server 1.x	£659	£774.33
05-50-1095	Exchange Server +10 clients licences	£910	£1069.25
05-50-3182	Office 97 Developers edition	£519	£609.83
05-50-3202	Site Server 32 Standard Edition	£995	£1169.13
05-50-6505	SQL Server 6.5 +5 client licences	£945	£1110.38
05-50-9299	Home Essentials 98	£75	£88.13
05-50-0045	Works v4.5	£59	£69.33

Upgrade Packages

05-50-9707	Office 97 SBE (CCP)	£149	£175.08
05-50-3137	Office Std - Office 97 (CCP)	£149	£175.08
05-50-3157	Office Pro - Office Pro 97 (CCP)	£205	£240.88
01-50-9798	Publisher 97 to 98	£32	£37.60
05-50-6798	Project 98	£115	£135.13

LOTUS

05-91-0103	Smartsuite V4	£290	£340.75
05-91-0107	Smartsuite 97 for Windows 95	£290	£340.75
05-91-0305	Notes 4.x Full Client	£255	£299.63
05-91-7379	Intranet Starter Pack	£779	£915.33
05-91-7536	CCMail R8 Advanced	£339	£398.33

COREL

05-95-9808	Corel Draw 8	£255	£299.63
05-95-9818	Corel Draw 8 Upgrade	£135	£158.63
05-95-6061	Wordperfect Suite 6.1 for Windows 3.1x	£149	£175.08
05-95-0505	Wordperfect Suite 7 for Windows 95	£159	£186.83

ADOBE

05-93-0003	Acrobat 3	£129	£151.58
05-93-1005	Photoshop 5	£399	£468.83
05-93-2007	Illustrator 7	£245	£287.88

OTHERS

05-91-1700	Olympus Photoalbum	£12	£14.10
05-90-0097	AutoCAD LT 97	£425	£499.38
05-90-0197	AutoCAD LT 97 Upgrade	£165	£193.88

Microsoft Office

Microsoft Office is now probably the standard package for business today. Applications within the package have been updated and completely revised, and integration with Microsoft Explorer Web Browser adds another dimension to your productivity. If you currently use any version of MS Word, MS Excel, MS Access, MS Powerpoint or MS Works then you are able to purchase an Upgrade version, and get full functionality for an even lower price.



Microsoft FrontPage 98

Easy-to-use, leading-edge features allow you to create great-looking Web sites without programming. Comprehensive management tools let you quickly build, organise and maintain Web sites. Seamless integration with existing content and your desktop applications means that you're productive from the start.



Microsoft Publisher 98

Publisher is the world's leading business DTP application with over 4 million users worldwide. Featuring a completely redesigned flexible help system, over 1600 professionally designed templates and comprehensive publishing features, Publisher 98 is all you need to create and maintain your image - and to carry it across all your marketing publications.



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.



CorelDRAW 8

Since 1989, CorelDRAW has dominated the PC illustration market, receiving over 270 international awards for its innovative technology. With version 8, you now have even more to work with, including Photo-paint for photo editing and bitmap creation, and CorelDREAM 3D for 3D modelling and rendering. With a host of new features added to the main package, as well as powerful supporting utilities (including Web



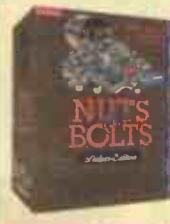
PGP PERSONAL EDITION



PGP 'P-Edition' 05-97-0550 £21 £24.68 inc. VAT

PGP PERSONAL EDITION

Keep your email or personal files safe from prying eyes. PGP has 128-bit encryption which is uncrackable, meaning you can send private mail with absolute confidence. This pack includes 2 licences - one for you and one for a colleague or business associate to offer two-way encryption. Multi-licence packs are also available.



Nuts & Bolts 'Deluxe' 05-97-0105 £36 £42.30 inc. VAT

NUTS&BOLTS DELUXE

Nuts&Bolts - Fixes, tunes, cleans and speeds up your PC. It also helps recover deleted files and Windows crashes. The Deluxe version includes:- VirusScan - 100% virus detection WebScanX - Protection against malicious websites Hurricane - 13 accelerating and diagnostic

NUTS&BOLTS

SALES FREEPHONES : South - 0800 013 5 333

Midlands - 0800 013 6 333

North - 0800 013 7 333

Scotland - 0800 013 8 333

FAX : 01753 524443

SALES LINES OPEN : MONDAY TO FRIDAY : 8.30am - 6.30pm SATURDAY : 9am - 1pm

For Customer Care and Switchboard Hotlines see Page 2



THE BEST YOU'LL GET



GAMES

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For Windows 95

MICROSOFT

05-50-0175	Chaos Island	£19	£22.33
05-50-0131	Age of Empires	£17	£19.98
05-50-0129	Close Combat 2	£25	£29.38
05-50-0133	CART Precision Racing	£17	£19.98
05-50-0160	Urban Assault	£23	£27.03
05-50-0170	Revenge of Arcade	£14	£16.45
05-50-0180	Motocross Madness	£23	£27.03
05-50-0137	Flight Simulator 98 & World of Flight	£29	£34.08

VARIOUS

05-95-1103	Premier Manager 98	£13	£15.28
05-95-1102	HardWar	£25	£29.38
05-95-1101	WarLords 3	£26	£30.55
05-95-1104	Commandos - B.E.L.	£27	£31.73
05-95-1105	UNREAL	£29	£34.08

Microsoft Age of Empires

CHOOSE YOUR FAVOURITE FORM OF WORLD DOMINATION. An Epic Game of Empire-Building and Conquest. How will you rule the world? Conquer enemy civilisations? Discover the world's secrets? Accumulate wealth? As the guiding spirit of a small Stone Age tribe, follow one of these paths to build the greatest civilisations on earth.



Microsoft Flight Simulator 98 & World of Flight Bundle

FEEL REAL FLIGHT. Test the world's most accurate flight models for the PC. The leader in flight simulation for the PC pushes technology and realism beyond the horizon. With a global database of scenery and airports, pilot-tested flight models, and a fleet of challenging aircraft, Flight Simulator 98 is simply as real as it gets. World of Flight is now included FREE for a limited time, ensure that you benefit from extra video, animation, photos, historical recordings, narrations, and games. Includes fascinating details about nearly 400 aircraft.



Microsoft

Motocross Madness

DAREDEVIL DIRTBIKE RACING. Stunts and Racing on Two Supercharged, 'Dirt-diggin' Wheels! Be the first rider out of the gate for high-flying, wheelie-riding, off-road motorbike action on indoor Supercross tracks and outdoor Motocross tracks. Photographically-sampled textures combined with stunning 3D graphics help to make this game a sheer delight to play, again and again. Fun is the main aim of the game. Whether bikes are your thing or not - this game will drive to the brink of Madness!



ANTI-VIRUS

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Dr. SOLOMON'S Anti-Virus Toolkit

01-93-0014	1 Year cover, 4 updates	£69	£81.08
01-93-0112	1 Year cover, 12 updates	£121	£142.18
01-93-0034	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.

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NORTON Anti-Virus

01-95-9103	For Windows 3.1x	£65	£76.38
05-95-9050	For Windows 95	£49	£57.58

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.	£31	£36.43
05-97-0326	Security Suite	£49	£57.58
05-97-0305	VS + WebScan X	£23	£27.03
05-97-0327	WebScanX standalone	£18	£21.15

VIRUSSCAN



VirusScan v3 EU
05-97-0305
£23
£27.03 inc. VAT

VIRUSSCAN

"On demand" scanning program that is used by over 25 million users worldwide. VirusScan also features an "on access" scanner call VShield that is constantly on guard, watching all your system resources to deny virus attacks. Available with quarterly updates by mail OR as



WebScan 'X'
05-97-0327
£18
£21.15 inc. VAT

WEBSCANX

WebScanX stops a new type of threat to your PC; destructive ActiveX and Java applications. It also offers the best detection of Word and Excel Macro viruses. WebScanX also allows you to block offensive, dangerous or time wasting websites to ensure that your surfing is safe and productive.

WEBSCANX

OPERATING SYSTEMS

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MICROSOFT

Full Versions

05-50-9800	Windows 98 (Requires DOS)	£112	£131.60
01-50-9503	Windows '95 (Floppy disc version)	£129	£151.58
05-50-9507	Windows '95 Service Release 2.5 *	£99	£116.33
05-50-9807	Windows 98 OEM *	£99	£116.33
05-50-1013	Windows NT 4.0 Workstation	£219	£257.33
05-50-1017	Windows NT 4.0 Server + 5 clients	£555	£652.13
05-50-1018	Windows NT 4.0 Client license	£29	£34.08

Upgrades

05-50-9598	Windows 3.1/95 to 98	£59	£69.33
05-50-9509	Windows 3.1x to 95 (CD version)	£59	£69.33
01-50-1957	Windows 3.1x to 95 (Floppy disc version)	£58	£68.15
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

* 05-50-9507 and 05-50-9807 must be purchased with a new Hard Drive : they do not include Microsoft Support, however Win98 OEM can be updated via the Windows 98 Update on the Web.

Microsoft Windows 98

Microsoft Windows 98 makes your computer work better by integrating tightly with the Internet and providing better system performance and easier diagnostics and maintenance. With Windows 98, your system will also play better, with support for the latest graphics, sound and Multimedia technologies, easy addition and removal of peripheral devices, and the convergence of PC and TV in your home. This exciting new operating system builds on the groundbreaking features introduced with Windows 95, while at the same time maintaining the best support for older Windows-based applications and technologies.



Microsoft Windows NT 4 Workstation

Enhance productivity and reduce computing with Windows NT Workstation, the most powerful desktop operating system for business computing. A range of powerful new features makes Windows NT Workstation the best value of any operating system on the market, combining the ease of use of Windows 95 with the reliability and security of Windows NT.



PROGRAMMING LANGUAGES

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MICROSOFT

05-50-3313	Visual FoxPro Std V3	£121	£142.18
05-50-9131	Visual Basic V5	£63	£74.03
05-50-9505	Visual Basic Pro V5	£317	£372.48
05-50-3317	Visual Basic V5 Enterprise Edition	£725	£851.88
05-50-9011	Visual J++ V1.1	£62	£72.85
05-50-9017	Visual C++ V5	£65	£76.38
05-50-9119	Visual C++ V5 Enterprise	£749	£880.08
05-50-9049	Visual Interdev V1	£329	£386.58
05-50-9061	Visual Studio 97 Professional	£658	£773.15
05-50-9179	Visual Studio 97 Enterprise CCP	£675	£793.13
05-50-9063	Visual Studio 97 Enterprise	£899	£1056.33
05-50-9073	Visual Foxpro 5 Professional	£319	£374.83

BORLAND

05-94-0328	C++ Builder 3 Professional	£73	£85.78
05-94-0329	C++ Builder 3 Professional Upgrade	£325	£381.88
05-94-0330	C++ Builder V3 Professional Upgrade	£219	£257.33
05-94-0474	JBuilder Standard	£73	£85.78
05-94-0491	JBuilder Professional	£369	£433.58
05-94-0537	Delphi V3 Professional	£325	£381.88
05-94-0593	Delphi V3 Professional Upgrade	£219	£257.33
05-94-0698	Visual dBase V7 Professional	£235	£276.13
05-94-0698	Visual dBase V7 Professional Upgrade	£235	£276.13

BACKUP SOFTWARE

ex VAT inc VAT

CHEYENNE

Arctserve 6 for Netware Server based, supports DOS, OS/2, Windows 3.x and Windows 95 workstations (optional support packs for UNIX, Macintosh and Windows NT Servers and Workstations), improved support for NetWare 4.1, with an improved Windows'95 style user interface.
01-90-6011 Single Workgroup £319 £374.83
01-90-6015 Enterprise Edition for multiple servers £649 £762.58
Arctserve 6.5 for Windows NT Supports Windows NT, '95 and 3.x clients (optional agents available for NetWare, UNIX, OS/2 and Macintosh). Windows NT 4.0 compatible, with a built in Virus Scanner.
01-90-6533 Workstation edition not Win'95 client £75 £88.13
01-90-6531 Single Server edition £269 £316.08
01-90-6535 Enterprise edition for multiple servers £494 £580.45

SEAGATE SOFTWARE

01-13-0351 Windows 95 single user, includes Job Scheduling. Netware aware, will back up any workstation or network £74 £86.95
01-13-0331 Windows NT 4.0 Single Server edition £370 £434.75
01-13-0500 Windows NT 4.0 Workstation edition, includes Job Scheduling, true 32-bit backup to a host of devices £135 £158.63

SOFTWARE

http://www.smc-computers.co.uk



IF ALL MEMORY IS THE SAME, WHY DO SOME BRANDS FAIL MORE OFTEN THAN OTHERS?

With Kingston memory, you know it's going to work. You also know that it'll stay working, year after year. That's why you get both a 100% guarantee of compatibility and a lifetime warranty against failure. And because Kingston have been giving the same backup for years, they have built their position as the undisputed leader in the manufacture of quality-assured memory upgrades. This all fits in well with SMC's strategy, and in providing the same dedication to service and quality, we're pleased to be not only a very close partner with Kingston Technology, but also one of the biggest sellers of their product in the UK.



Kingston[®] TECHNOLOGY

MANUFACTURES MEMORY FOR NEARLY EVERY PC, NOTEBOOK, SERVER AND PRINTER IN USE TODAY.



KINGSTON MATCHED MEMORY

KINGSTON GENERIC MEMORY

Intel	Part No	ex VAT	inc VAT	Digital	Part No	ex VAT	inc VAT
440LX Motherboards Non-ECC				Digital Hinote VP 520, 525, 535			
32MB	KTM66X64/32	£42	£49.35	16MB	KTV-VP500/16	£39	£45.83
64MB	KTM66X64/64	£112	£131.60	32MB	KTV-VP500/32	£68	£79.90
128MB	KTM66X64/128	£214	£251.45				
440LX Motherboards ECC				Hewlett Packard			
32MB	KTM66X72/32	£52	£61.10	Pavilion 7270, 7275, 7280P, 7285, 7295V			
64MB	KTM66X72/64	£123	£144.53	16MB	KTH-VL4/16	£33	£38.78
128MB	KTM66X72/128	£239	£280.83	32MB	KTH-VL4/32	£43	£50.53
Compaq				64MB	KTH-VL4/64	£78	£91.65
DeskPro 2000, 4000, 6000 series				Laserjet 4000s and 5000s			
16MB	KTC2430/16	£33	£38.78	16MB	KTH-LJ4000/16	£28	£32.90
32MB	KTC2430/32	£43	£50.53	16MB	KTH-LJ4000E/16	£36	£42.30
64MB	KTC2430/64	£78	£91.65	32MB	KTH-LJ4000/32	£59	£69.33
Armada 7000 series D/MT, 1500 series D/MT, 1130/T				Vectra VL7			
16MB	KTC2721/16	£34	£39.95	16MB	KTH5361/16	£28	£32.90
32MB	KTC2721/32	£61	£71.68	32MB	KTH5361/32	£49	£57.58
64MB	KTC2721/64	£117	£137.48	64MB	KTH5361/64	£112	£131.60
Deskpro 2000, 4000, 6000 MMX Series				IBM			
16MB	KTC2428/16	£25	£29.38	Thinkpad 760 series, ELDs, 560s, 360s, 380s			
32MB	KTC2428/32	£42	£49.35	16MB	KTM760ELD/16	£31	£36.43
64MB	KTC2428/64	£87	£102.23	32MB	KTM760ELD/32	£62	£72.85
128MB	KTC2428/128	£167	£196.23	Thinkpad 770			
Deskpro EN, EP SDRAM 100MHz (non ECC)				16MB	KTM-TP770/16	£28	£32.90
32MB	KTC6611/32	£58	£68.15	32MB	KTM-TP770/32	£64	£75.20
64MB	KTC6611/64	£98	£115.15	64MB	KTM-TP770/64	£127	£149.23
128MB	KTC6611/128	£180	£211.50	Aptiva 2137 E series			
Deskpro EN, EP SDRAM 100MHz				16MB	KTM2137/16	£28	£32.90
32MB	KTC6615/32	£61	£71.68	32MB	KTM2137/32	£48	£56.40
64MB	KTC6615/64	£109	£128.08	64MB	KTM2137/64	£112	£131.60
128MB	KTC6615/128	£205	£240.88	Aptiva L, C & S series 2136 E series			
Proliant 1600 Server				16MB	KTM7318/16	£33	£38.78
32MB	KTC3614/64	£165	£193.88	32MB	KTM7318/32	£43	£50.53
64MB	KTC3614/128	£300	£352.50	64MB	KTM7318/64	£78	£91.65
Dell				PC300GL (6561, 6591), Aptiva 2142, 2140			
Performance 425L/M, 433L/M, 4333s L/M, 450, L/M, 466L/M				32MB	KTM0069/32	£48	£56.40
Latitude 433 M/MC, 450 M/MC/MX, 475 M/C/D, LX4100 D/T				64MB	KTM0069/64	£112	£131.60
Omniplex 433, 450, 466, 4100 ME				128MB	KTM0069/128	£209	£245.58
4MB	KTD-LMT/4	£11	£12.93	PC300PL (6562, 6592)			
8MB	KTD-LMT/8	£18	£21.15	32MB	KTM0076/32	£64	£75.20
16MB	KTD-LMT/16	£23	£27.03	64MB	KTM0076/64	£112	£131.60
Dimension XPS P100c, P100C, P120C, P133C, XPS PRO 150n, 180n				128MB	KTM0076/128	£214	£251.45
Dimension XPS P60, P75, P90				Netfinity 3000 SDRAM 100MHz			
Optiplex XLX/M/XT 575, 590, 5100, 5120, 5133				32MB	KTM1133/32	£58	£68.15
Optiplex GL/GM/GMT 575, 590, 5100, 5120, 5133, 5166				64MB	KTM1133/64	£115	£135.13
Optiplex GXL/GXM/GXMT 590, 5100, 5120, 5133, 5150, 5166				128MB	KTM1133/128	£221	£259.68
Optiplex GsL/GsM/GsMT 5133, 5166, 5200				PC300PL (Pentium II) SDRAM 100MHz			
16MB	KTD-NPOI/16	£33	£38.78	32MB	KTM1136/32	£53	£62.28
32MB	KTD-NPOI/32	£43	£50.53	64MB	KTM1136/64	£103	£121.03
64MB	KTD-NPOI/64	£78	£91.65	128MB	KTM1136/128	£199	£233.83
Dimension P133v, P166v, P200v				Toshiba			
Dimension XPS P133s, P166s, M166s, M200s				Tecra 750s, Portege 650, 660s			
8MB	KTD-SDRAM/8	£46	£54.05	32MB	KTT650/32i	£56	£65.80
16MB	KTD-SDRAM/16	£28	£32.90	64MB	KTT650/64i	£100	£117.50
32MB	KTD-SDRAM/32	£46	£54.05	128MB	KTT650/128i	£249	£292.58
Optiplex GXPRO series				Portege 610 CT, Satellite 110CS/CT, 115CS, 200CDS, 205CDS			
16MB	KTD-GXPRO/16	£39	£45.83	Satellite Pro 420/425/430 CDS/CDT			
32MB	KTD-GXPRO/32	£65	£76.38	8MB	KTT610/8i	£25	£29.38
64MB	KTD-GX/164	£133	£156.28	16MB	KTT610/16i	£37	£44.48
128MB	KTD-GXPRO/128	£214	£251.45	32MB	KTT610/32i	£61	£83.43
Optiplex GX series (non-parity)				Tecra 500 & 510 CDS/CDT			
32MB	KTD-GXAN/32	£43	£50.53	Satellite Pro 440, 445, 460, 470, 480 CDX/CDT			
Optiplex GX series (ECC)				32MB	KTT500/32i	£65	£76.38
32MB	KTD-GXA/32	£46	£54.05	48MB	KTT500/48i	£90	£105.75
64MB	KTD-GXA/64	£108	£126.90	128MB	KTT500/128i	£195	£229.13
128MB	KTD-GXA/128	£209	£245.58	Tecra 8000, Portege 7000, Satellite 4000, 4005			
Optiplex GX I L/M/MT (non-ECC)				32MB	KTT8000/32i	£67	£78.73
32MB	KTD-OPGX/32	£50	£58.75	64MB	KTT8000/64i	£127	£149.23
Optiplex GX I L/M/MT SDRAM 100MHz							
32MB	KTD-OPGX/132	£56	£65.80				
64MB	KTD-OPGX/164	£108	£126.90				
128MB	KTD-OPGX/128	£209	£245.58				

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
EDO Non-Parity (32-bit)			
4MB	KTM1x32L-60ET	£11	£12.93
8MB	KTM2x32L-60ET	£18	£21.15
16MB	KTM4x32L-60ET	£23	£27.03
32MB	KTM8x32L-60ET	£40	£47.00
EDO Parity (36-bit)			
4MB	KTM1x36L-60ET	£14	£16.45
8MB	KTM2x36L-60ET	£24	£28.20
16MB	KTM4x36L-60ET	£28	£32.90
32MB	KTM8x36L-60ET	£53	£62.28
168 Pin DIMMs			
SDRAM Non-Parity			
64MB	KTM66x64/64	£112	£131.60
128MB	KTM66x64/128	£214	£251.45
SDRAM Parity			
16MB	KTM66x72/16	£31	£36.43
64MB	KTM66x72/64	£123	£144.53
128MB	KTM66x72/128	£239	£280.83
Digital Camera			
4MB	CF/4ADP	£49	£57.58
8MB	CF/8ADP	£58	£68.15
16MB	CF/16ADP	£86	£101.05
24MB	CF/24ADP	£114	£133.95
32MB	CF/32ADP	£137	£160.98

Upgrading memory is the single most cost effective way of increasing system performance.

But Not All Memory Is Created Equal.
Knowing what questions to ask about memory will save you time and money.

- >>> **Warranties – what do they mean?**
Insist on a lifetime warranty from an established manufacturer.
- >>> **What about support?**
Make sure your memory comes from a manufacturer that offers free, expert technical support.
- >>> **What are the testing procedures?**
Choose memory from a manufacturer who tests every single module 100% of the time.
- >>> **Is compatibility absolute?**
Modules must be specifically designed for the exact systems they will be used in.
- >>> **Where do the components come from?**
Only accept chips purchased directly from manufacturers such as IBM, Samsung and Toshiba.

Kingston Technology is the world's leading supplier of computer memory. All Kingston memory is guaranteed for 100% compatibility and reliability and carries lifetime warranty.

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SDRAM DIMMs - 168 PIN

ex VAT inc VAT



168pin DIMMs sold by SMC use synchronous SDRAM, operating at 3.3volts and running at 66MHz. They are non-parity, un-buffered and also feature an SPD chip allowing them to be compatible with all machines requiring standard SDRAM.

Compatible motherboards & chipsets include:- Intel VX/TX/LX/BX.

66MHz

19-95-0821	8MB (1 x 64)	£29	£34.08
19-95-1622	16MB (2 x 64)	£15	£17.63
19-95-3224	32MB (4 x 64)	£24	£28.20
19-95-6468	64MB (8 x 64)	£49	£57.58
19-95-1280	128MB (16 x 64)	£99	£116.33
19-95-2560	256MB (32 x 64)	£524	£615.70

100MHz - PC100

100MHz SDRAM modules require an Intel BX chipset.

19-95-3201	32MB (4 x 64)	£29	£34.08
19-95-6401	64MB (8 x 64)	£57	£66.98
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)	£7	£8.23
13-97-1601	16Mb (4 x 32)	£11	£12.93
13-97-3201	32Mb (8 x 32)	£20	£23.50
13-97-6401	64Mb (16 x 32)	£75	£88.13
13-97-1281	128Mb (32 x 32)	£165	£193.88

Fast Page Mode (FPM)

FPM SIMMs can be installed singly in 486-based PCs that support them, but Pentium-based PCs require SIMMs to be installed in pairs. With 70ns modules in increasingly short supply, we strongly advise the purchase of 60ns.

Always check your manual for compatibility and motherboard support.

Non-Parity (32-bit)

13-97-0406	4Mb (1 x 32) 60ns	£6	£7.05
13-97-0407	4Mb (1 x 32) 70ns	£9	£10.58
13-97-0806	8Mb (2 x 32) 60ns	£8	£9.40
13-97-0807	8Mb (2 x 32) 70ns	£12	£14.10
13-97-1606	16Mb (4 x 32) 60ns	£12	£14.10
13-97-1607	16Mb (4 x 32) 70ns	£16	£18.80
13-97-3206	32Mb (8 x 32) 60ns	£21	£24.68
13-97-3207	32Mb (8 x 32) 70ns	£28	£32.90

Full Parity (36-bit)

13-97-0117	1Mb (256k x 36) 70ns	£20	£23.50
13-97-0217	2Mb (512k x 36) 70ns	£35	£41.13
13-97-0416	4Mb (1 x 36) 60ns	£11	£12.93
13-97-0417	4Mb (1 x 36) 70ns	£12	£14.10
13-97-0816	8Mb (2 x 36) 60ns	£14	£16.45
13-97-0817	8Mb (2 x 36) 70ns	£18	£21.15
13-97-1616	16Mb (4 x 36) 60ns	£15	£17.63
13-97-1617	16Mb (4 x 36) 70ns	£18	£21.15
13-97-3216	32Mb (8 x 36) 60ns	£29	£34.08
13-97-3217	32Mb (8 x 36) 70ns	£39	£45.83

SIMMS - 30 PIN

ex VAT inc VAT



All 30pin SIMMs from SMC have full parity checking.

3-chip

10-97-1963	1Mb (1 x 9) 60ns	£5	£5.88
10-97-1973	1Mb (1 x 9) 70ns	£6	£7.05
10-97-1983	1Mb (1 x 9) 80ns	£14	£16.45
10-97-4963	4Mb (4 x 9) 60ns	£7	£8.23
10-97-4973	4Mb (4 x 9) 70ns	£9	£10.58

9-chip

10-97-1969	1Mb (1 x 9) 60ns	£9	£10.58
10-97-1979	1Mb (1 x 9) 70ns	£10	£11.75
10-97-1989	1Mb (1 x 9) 80ns	£15	£17.63
10-97-4969	4Mb (4 x 9) 60ns	£10	£11.75
10-97-4979	4Mb (4 x 9) 70ns	£15	£17.63
10-97-7976	16Mb (16 x 9) 60ns	£29	£34.08

30pin SIMMs must be installed as follows :-
286 & 386sx-based PCs - in matching pairs.
386DX & 486-based PCs - in matching sets of four.

Please check your motherboard manual to confirm that your PC supports the required module size, speed and configuration.

SO DIMMs - 72 PIN

ex VAT inc VAT



3.3 volt

19-93-0413	4Mb (1 x 4) 70ns	£25	£29.38
19-93-0433	4Mb (1 x 16) 70ns	£35	£41.13
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	£29	£34.08
19-93-0435	4Mb (1 x 16) 70ns	£35	£41.13
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.



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Product Focus : SMC's guide to memory types

What is a DIMM ?

A DIMM (Dual In-line Memory Module) is the latest technology which takes advantage of the new Pentium and Pentium II based computers. A circuit board with DRAM (Dynamic Random Access Memory) chips now provides 64-bit memory access to match the processor.

You should consider the following factors before you attempt a memory upgrade :

- > DIMMs are either 72pin, 144pin or 168pin. The desktop standard is 168pin.
- > DIMMs are installed in a single bank so there's no problem with matching.
- > Early Pentium PCs that could work with DIMMs used 5 volt modules.
- > The most recent support is for 3.3 volt,

> However, always check your system's manual for sizes and voltages.

What is a SIMM ?

Industry standard SIMMS (Single In-line Memory Modules) are based on DRAM (Dynamic Random Access Memory) chips and provide a cost effective way of adding memory to the PC. However, the following factors must be considered before you attempt a memory upgrade :

- > Machines use either 30pin or 72pin SIMMs or a combination of the two.
- > You must check which your machine takes before making your purchase.
- > SIMMs are installed into a bank, which will be either two or four slots.
- > You must fill a complete bank, with modules of the same size.
- > 30pin SIMMs are supplied in the older 9-chip or the newer 3-chip versions.
- > Older 286/386sx machines use 9-chip, whilst later 386DX/0486 use 3-chip.
- > 72-pin SIMMS are fitted to later 486 PC's and PENTIUM based machines.

MEMORY : SIMMS & DIMMS

http://www.smc-computers.co.uk

SMC Computers Plc

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ALL MAJOR CREDIT CARDS ACCEPTED

Why Matched Memory ?

Many of the major brand PC manufacturers use proprietary memory modules in their machines. While they may look the same as standard SIMM or DIMM modules (although some most definitely don't!) they will often be re-engineered to perform differently. This means that if you fit the wrong module, even if the PC works, you may be plagued with (often apparently random) system "hangs" which can be utterly maddening if you haven't saved a document! At SMC, we are the UK's premier supplier of Memory upgrades because we take the time to find the right solution, we batch test to maintain quality and we carry comprehensive stocks across the board. You'll find our service is as reliable as the memory we sell!



MATCHED MEMORY : DELL, COMPAQ, PRINTERS

DELL MEMORY

	ex VAT	inc VAT
Dimension		
Dimension XPS P90, P100C/t, P120C, P133C, P166C		
13-97-0400 x2 8Mb	£12	£14.10
13-97-0801 x2 16Mb	£14	£16.45
13-97-1601 x2 32Mb	£22	£25.85
13-97-3201 x2 64Mb	£40	£47.00
Dimension XPS P133s/v, P166s/v, Dimension XPS M166s, M200s, P200v		
19-95-3249 32Mb	£58	£68.15
Dimension XPS Pro 200n, 180n, 150n		
Dimension P75T, P90T etc		
13-97-0400 x2 8Mb	£12	£14.10
13-97-0801 x2 16Mb	£14	£16.45
13-97-1601 x2 32Mb	£22	£25.85
13-97-3201 x2 64Mb	£40	£47.00
OptiPlex		
OptiPlex DGX Series		
590, 5100, 5120, 5133, 5166		
17-20-1208 8Mb	£39	£45.83
13-97-0817 x2 16Mb	£36	£42.30
13-97-1617 x2 32Mb	£36	£42.30
13-97-3217 x2 64Mb	£78	£91.65
OptiPlex XL/XM/XMT Series		
575, 590, 5100, 5120, 5133		
13-97-0407 x2 8Mb	£18	£21.15
13-97-0807 x2 16Mb	£24	£28.20
13-97-1607 x2 32Mb	£32	£37.60
OptiPlex GXpro 6200, 6180		
OptiPlex GXIL/M/MT 5133, 5166, 5200		
17-20-6216 16Mb	£28	£32.90
17-20-6232 32Mb	£38	£44.65
17-20-6264 64Mb	£88	£103.40
17-20-6212 128Mb	£194	£227.95

	ex VAT	inc VAT
OmniPlex		
OmniPlex 590/ME, 566/ME, 560/ME (Kits)		
13-97-0417 x2 8Mb	£24	£28.20
13-97-0817 x2 16Mb	£36	£42.30
13-97-1617 x2 32Mb	£36	£42.30
13-97-3217 x2 64Mb	£78	£91.65
Latitude		
Latitude 433m/mc, 450mc/mcx, 475mc		
17-90-5304 4Mb	£27	£31.73
17-90-5308 8Mb	£39	£45.83
17-90-5316 16Mb	£45	£52.88
Latitude 433c/cx		
17-90-2504 4Mb	£18	£21.15
17-90-2516 16Mb	£39	£45.83
Latitude LX 475D, 4100D/T		
17-90-5304 4Mb	£27	£31.73
17-90-5308 8Mb	£39	£45.83
17-90-5316 16Mb	£45	£52.88
Latitude XP 450C, 475C, 4100C/CX		
17-20-5304 4Mb	£22	£25.85
17-20-5308 8Mb	£26	£30.55
17-20-5316 16Mb	£29	£34.08
Latitude XPI P75D/T, P90D/ST/T, P100SD, P120D/ST, P133ST		
17-20-5304 4Mb	£22	£25.85
17-20-5308 8Mb	£26	£30.55
17-20-5316 16Mb	£29	£34.08
Latitude LM P100SD, P133ST, P166		
17-20-1308 8Mb	£29	£34.08
17-20-1316 16Mb	£35	£41.13
17-20-1332 32Mb	£55	£64.63

	ex VAT	inc VAT
Power range		
PowerEdge SP, SP-2 Series		
SP 560, 566, 590, 5100		
SP-2 575, 590, 5100, 5133		
13-97-0417 x2 8Mb	£24	£28.20
13-97-0817 x2 16Mb	£36	£42.30
13-97-1617 x2 32Mb	£36	£42.30
13-97-1617 x2 64Mb	£36	£42.30
PowerEdge XE, XE-2 Series		
XE 560, 566, 590, 5100		
XE-2 5100, 5133		
13-97-0417 x2 8Mb	£24	£28.20
13-97-0817 x2 16Mb	£36	£42.30
13-97-1617 x2 32Mb	£36	£42.30
13-97-1617 x2 64Mb	£36	£42.30
PowerEdge SP 433, 450, 466		
13-97-0417 x2 8Mb	£24	£28.20
13-97-0817 x2 16Mb	£36	£42.30
13-97-1617 x2 32Mb	£36	£42.30
PowerEdge XE 433, 433s, 450, 466		
13-97-0407 x2 8Mb	£18	£21.15
13-97-0807 x2 16Mb	£24	£28.20
13-97-1607 x2 32Mb	£32	£37.60
PowerEdge XL, EL575, EL590, EL5100, EL5120, EL5133		
17-20-1208 8Mb	£39	£45.83
17-20-1216 16Mb	£59	£69.33
17-20-1232 32Mb	£80	£94.00
17-20-1264 64Mb	£145	£170.38
PowerEdge 4100, 2200, 2100/200/180		
17-20-2132 32Mb	£98	£115.15
17-20-2164 64Mb	£297	£348.98
17-20-2112 128Mb	£188	£220.90

PRINTER MEMORY

	ex VAT	inc VAT
Hewlett Packard		
HP IIP, IIP+, III, IIIP, IIID		
17-28-1201 1Mb	£32	£37.60
17-28-1202 2Mb	£39	£45.83
17-28-1204 4Mb	£42	£49.35
HP II, IID		
17-28-1001 1Mb	£32	£37.60
17-28-1002 2Mb	£39	£45.83
17-28-1004 4Mb	£47	£55.23
HP IIISI		
17-28-0801 1Mb	£15	£17.63
17-28-0804 4Mb	£18	£21.15
17-28-0808 8Mb	£37	£43.48
HP 4, 4M, 4Si, 4SIMX		
17-28-0464 4Mb	£9	£10.58
17-28-0468 8Mb	£14	£16.45
HP 4+, 4M+, 4V, 4P, 4MV, 4MP, HP 5, 5M, 5N, 5MP, 5P, 6P		
17-28-0504 4Mb	£9	£10.58
17-28-0508 8Mb	£12	£14.10
17-28-0516 16Mb	£15	£17.63
HP 4L		
17-28-1401 1Mb	£19	£22.33
5L, 6L		
17-28-0481 1Mb	£23	£27.03
17-28-1502 2Mb	£28	£32.90
17-28-1504 4Mb	£39	£45.83
5Si, 5SiMX		
17-28-0464 4Mb	£9	£10.58
17-28-0468 8Mb	£14	£16.45
17-28-0416 16Mb	£15	£17.63
17-28-0432 32Mb	£27	£31.73

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Please ask when ordering.



COMPAQ MEMORY

	ex VAT	inc VAT
Armada		
Armada 1100 Series		
1125, 1120T, 1120, 1100		
17-09-7708 8Mb	£27	£31.73
17-09-7716 16Mb	£37	£43.48
Armada 1130 Series		
17-30-6216 16Mb	£28	£32.90
17-30-6232 32Mb	£39	£45.83
Armada 1500 Series		
17-09-1508 8Mb	£18	£21.15
17-09-1516 16Mb	£29	£34.08
17-09-1532 32Mb	£52	£61.10
17-09-1564 64Mb	£95	£111.63
Armada 1540D, 1560/D, 1592D, 1598D/T, 7370DMT, 7380DMT, 7770DMT		
17-30-6216 16Mb	£28	£32.90
17-30-6232 32Mb	£39	£45.83
17-30-6264 64Mb	£99	£116.33
Armada 4100 Series, 4210T, 4220T		
17-09-7816 16Mb	£34	£39.95
17-09-7832 32Mb	£68	£79.90
17-09-7864 64Mb	£108	£126.90
Armada 7750, 7730, 7710		
17-09-1508 8Mb	£18	£21.15
17-09-1516 16Mb	£29	£34.08
17-09-1532 32Mb	£52	£61.10
17-09-1564 64Mb	£95	£111.63
Armada 7800-W95, 7800-WNT		
17-09-7916 16Mb	£25	£29.38
17-09-7932 32Mb	£49	£57.58
17-09-7964 64Mb	£298	£350.15

	ex VAT	inc VAT
Deskpro Series		
Deskpro 575, 590, 5100, 5120, 5133, 5150, 5166, 5200, 6180, 6200		
13-97-0407 x2 8Mb	£18	£21.15
13-97-0808 x2 16Mb	£76	£89.30
13-97-1607 x2 32Mb	£32	£37.60
13-97-3207 x2 64Mb	£56	£65.80
Deskpro XL 450, 466, 560, 566, 575, 590, 5100, 5120, 5133		
17-09-0804 4Mb	£79	£92.83
17-09-0808 8Mb	£28	£32.90
17-09-0816 16Mb	£32	£37.60
17-09-0832 32Mb	£48	£56.40
13-97-3217 x2 64Mb	£78	£91.65
Deskpro XE 4100, 466, 450, 433s		
17-09-0102 2Mb	£15	£17.63
13-97-0417 4Mb	£12	£14.10
13-97-0817 8Mb	£18	£21.15
Presario		
Presario 7170, 7180, 9546, 9548, 9564 Series (Kit-2)		
13-97-0807 8Mb	£12	£14.10
13-97-1607 16Mb	£16	£18.80
13-97-3207 32Mb	£28	£32.90
Presario Notebook		
1080, 1075, 1070, 1060, 1030, 1020, 1010		
17-09-1808 8Mb	£26	£30.55
17-09-1816 16Mb	£36	£42.30
17-09-1832 32Mb	£53	£62.28

	ex VAT	inc VAT
Proliant		
Proliant 1000 5/60, 2000 486/50, 5/66, 90, 2000R Kit		
17-09-8016 16Mb	£85	£99.88
17-09-8032 32Mb	£92	£108.10
17-09-8064 64Mb	£198	£232.65
17-09-8088 128Mb	£386	£453.55
Proliant 4000 486/50, 5/66, 90, 100, 4000R 5/66, 5/100, 4500 133, 4500R Kit		
17-09-8016 16Mb	£85	£99.88
17-09-8032 32Mb	£92	£108.10
17-09-8064 64Mb	£198	£232.65
17-09-8088 128Mb	£386	£453.55
Proliant 1500 & 1500R 5/75, 100, 120 Kit		
17-09-8008 16Mb	£28	£32.90
17-09-0816 32Mb	£32	£37.60
17-09-0832 64Mb	£48	£56.40
17-09-8064 128Mb	£198	£232.65
Prolinae Desktop 450, 466, 4100		
17-09-0102 2Mb	£15	£17.63
13-97-0407 4Mb	£9	£10.58
13-97-0807 8Mb	£12	£14.10
13-97-1607 16Mb	£16	£18.80
13-97-3207 32Mb	£28	£32.90
Prolinae VS 486SX/33, DX/33, DX2/66		
13-97-0417 4Mb	£12	£14.10
13-97-0817 8Mb	£18	£21.15
13-97-1617 16Mb	£18	£21.15
13-97-3217 32Mb	£39	£45.83

	ex VAT	inc VAT
Prolinae 575, 590, 5100, 5133 Series (Kit-2)		
13-97-0807 8Mb	£12	£14.10
13-97-1607 16Mb	£16	£18.80
13-97-3207 32Mb	£28	£32.90
Prolinae 575e/MX, 590MX, 5100e, 5120e/MX		
13-97-0807 8Mb	£12	£14.10
13-97-1607 16Mb	£16	£18.80
13-97-3207 32Mb	£28	£32.90
Prosignia PC Server 486/33, 486DX2/66		
17-30-9204 4Mb	£17	£19.98
13-97-0817 8Mb	£18	£21.15
13-97-1617 16Mb	£18	£21.15
13-97-3207 32Mb	£28	£32.90
Prosignia 300 5/75, 5/90, 5/120, 500 5/90 Kit		
17-09-0808 8Mb	£28	£32.90
17-09-0816 16Mb	£32	£37.60
17-09-0832 32Mb	£48	£56.40
LTE		
LTE 5000 Series (Kits)		
17-09-3608 8Mb	£27	£31.73
17-09-3616 16Mb	£42	£49.35
17-09-3632 32Mb	£64	£75.20
17-09-3664 64Mb	£96	£112.80
LTE Elite Series		
4/40C, CX, 4/50CX, E, 4/75C, CX, CXL		
17-09-3204 4Mb	£45	£52.88
17-09-3208 8Mb	£55	£64.63
17-09-7216 16Mb	£47	£55.23

SALES FREEPHONES : South - 0800 013 5 333

Midlands - 0800 013 6 333

North - 0800 013 7 333

Scotland - 0800 013 8 333

FAX : 01753 524443

SALES LINES OPEN : MONDAY TO FRIDAY : 8.30am - 6.30pm SATURDAY : 9am - 1pm

For Customer Care and Switchboard Hotlines see Page 2

THE BEST YOU'LL GET



MOTHERBOARDS

SMC Ref	Make	Model	Bus MHz	Chipset	Max. Intel	Max. AMD	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																	
07-99-0405	ASUS	TXP4	66	TX	233	233	233	512k	4	2	-	3	2	1	UH	£55	£64.63
07-99-0505	ASUS	TX97-E	66	TX	233	233	233	512k	4	2	-	3	1	1	UH	£54	£63.45
07-99-0520	ASUS	P5A-B	100	ALI V	233	350	333	512k	0	3	Y	2	1	1	UH	£58	£68.15
07-99-0525	ASUS	P5A-B/AUDIO	100	ALI V	233	350	333	512k	0	3	Y	2	1	1	UH, S	£62	£72.85
07-93-5037	Gigabyte	GA-586TX3	66	TX	233	233	233	512k	2	3	-	3	1	1	UH	£57	£66.98
07-97-5925	TMC	A15TT	66	TX	233	300	266	512k	4	2	-	3	2	1	UH	£52	£61.10
07-97-5320	TMC	A15VG+	100	MVP3	233	450	333	512k	2	3	Y	3	1	1	UH	£59	£69.33
ATX																	
07-99-0400	ASUS	TXP4-X	66	TX	233	233	233	512k	0	3	-	3	3	1	UP	£59	£69.33
07-99-0500	ASUS	TX97-XE	66	TX	233	233	233	512k	4	2	-	3	3	1	UP	£58	£68.15
07-99-0510	ASUS	TX97-XES	66	TX	233	233	233	512k	4	2	-	3	3	1	UP, S	£78	£91.65
07-99-0530	ASUS	P5A	100	ALI V	233	350	333	512k	0	3	Y	4	1	1	UP	£62	£72.85
07-99-0535	ASUS	P5A/AUDIO	100	ALI V	233	350	333	512k	0	3	Y	4	1	1	UP, S	£69	£81.08
07-93-5057	Gigabyte	GA-586TX3	66	TX	233	233	233	512k	4	2	-	3	3	1	UP	£59	£69.33
07-97-5315	TMC	T15VG	66	VP3	233	233	266	512k	4	3	Y	3	2	1	UP	£49	£57.58
07-97-5901	TMC	T15TT	66	TX	233	300	266	512k	4	2	-	3	3	1	UH	£55	£64.63
07-97-5325	TMC	T15VG+	100	MVP3	233	450	333	512k	2	3	Y	4	1	1	UP	£72	£84.60

Pentium II - Slot 1

SMC Ref	Make	Model	Bus MHz	Chipset	Max. Intel	Max. AMD	Max. Cyrix	Cache	SIMM slots	DIMM slots	AGP slot	PCI slots	ISA slots	PCI/ISA slots	Other	ex VAT	inc VAT
ATX																	
07-99-0700	ASUS	P2L97	66	LX	333	-	-	-	-	3	Y	4	1	1	UP	£75	£88.13
07-99-0710	ASUS	P2L97-S	66	LX	333	-	-	-	-	3	Y	3	1	1	UP, SC	£135	£158.63
07-99-0715	ASUS	P2L97-DS	66	LX	333	-	-	-	-	4	Y	3	1	1	UP, DP, SC	£215	£252.63
07-99-0730	ASUS	P2B	100	BX	450	-	-	-	-	3	Y	3	2	1	UP	£105	£123.38
07-99-0732	ASUS	P2B-S	100	BX	450	-	-	-	-	4	Y	3	1	1	UP, SC	£195	£229.13
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
07-93-7001	Gigabyte	GA-686BX	100	BX	450	-	-	-	-	4	Y	3	2	1	UP	£95	£111.63
07-93-7021	Gigabyte	GA-686BXDS	100	BX	450	-	-	-	-	4	Y	3	2	1	DS, SC	£199	£233.83
07-31-2081	Intel	AL440LX	66	LX	333	-	-	-	-	3	Y	3	1	1	UP, S	£95	£111.63
07-31-2098	Intel	SE440BX	100	BX	450	-	-	-	-	3	Y	3	1	1	UP	£99	£116.33
07-97-1052	TMC	T16NL	66	LX	333	-	-	-	-	4	Y	4	1	1	UP	£79	£92.83
07-97-2450	TMC	T16NB	100	BX	450	-	-	-	-	4	Y	4	1	1	UP	£89	£104.58

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 SIS chipsets.

intel

INTEL 'SEATTLE'
07-31-2098

£99
£116.33 inc. VAT

G

Gigabyte GA-ATX3
07-93-5057

£59
£69.33 inc. VAT

TMC

TMC ATX-TX
07-97-5901

£55
£64.63 inc. VAT

ASUS

ASUS P2B-S
07-99-0732

£195
£229.13 Inc. VAT

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

SMC COMPUTERS

MOTHERBOARD INSTALLATION GUIDE

Welcome to the SMC motherboard installation guide. We hope that by reading this manual first it will help you fit your board more easily and overcome any problems that might arise. These steps have been put together to form a logical progression in assembly and are used by most PC Engineers.

MOTHERBOARDS

<http://www.smc-computers.co.uk>



ALL MAJOR CREDIT CARDS ACCEPTED



Did you know - SMC maintains a constant emphasis on training in all aspects of its operation to ensure that staff are able to provide the highest levels of service. In addition to full-time staff employed to teach and reinforce job skills and procedures, we periodically engage outside agencies to provide another perspective, and in 1997 we received a Thames Valley Business of the Year award in recognition of the investment we have made in training. When we say that we are continually seeking improvement in what we do - we mean it.

OPTICAL DRIVES

		ex VAT	inc VAT
Fujitsu			
50-24-0643	MCB3064SS 640MB Internal	£219	£257.33
Olympus			
50-91-0230	Power MO 230 II Universal 230Mb External P/Port & SCSI	£189	£222.08
50-91-2600	Power MO 2600 2.6Gb External	£1349	£1585.08

All above units are SCSI devices requiring a SCSI Controller.

PANASONIC PD DRIVES

		ex VAT	inc VAT
LF1196AB			
51-57-0811	Internal EIDE drive, 8-Speed CD + 650Mb Optical	£189	£222.08
LF1500EPB			
51-57-0815	Parallel Port drive, 8-speed CD + 650Mb Optical	£235	£276.13

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)	£99	£116.33
39-42-0525	5.25" 1.2MB parallel port drive (Does not support 360k DD format)	£109	£128.08



FLIP DISK

All drives work via PCMCIA and are quoted as actual native sizes

		ex VAT	inc VAT
37-92-9021	2.1GB	£282	£331.35
37-92-9021	3.2GB	£282	£331.35
37-92-9021	4.0GB	£282	£331.35
37-92-9021	6.4GB	£282	£331.35
Accessories			
01-92-0221	2 to 1 compression software	£20	£23.50
75-92-0122	Parallel Port/Keyboard cable set	£33	£38.78
Baby ZIP			
37-92-0100	PCMCIA 100Mb ZIP External	£169	£198.58

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

SYQUEST SparQ & SyJet Family



"The Personal Solution"

- Removable Cartridge Hard Drive
- Holds Over 650 Floppies
- Easy to Install & Use
- Inexpensive Media
- Lightweight & Portable
- Unlimited Capacity

SparQ 1.0 GB Drive - "the personal solution" - a superb combination of high performance and affordable price. With its substantial capacity and hard drive speeds it can easily backup your laptop or desktop system in minutes. The SparQ drive is the logical choice for small / home offices, business travellers, families, students, web surfers, game players, presenters, software programmers and writers.

Small/Home Offices As your business expands, the SparQ drive expands with you - just add more inexpensive cartridges to gain unlimited storage and realise your true potential.

On The Road SparQ cartridges give you the bandwidth you need to create show-stopping multimedia presentations to take with you anywhere.

Families Archive entire digital photo albums, backup financial records, save travel information, e-mail or Internet downloads. It's like getting an extra computer's worth of storage at a fraction of the cost.

Multimedia/Gamers Play your favourite games off a SparQ cartridge at twice the speed of a CD. Scan high-resolution graphic images at hard drive speeds.

Backup/Resourcing Hold an entire library in the palm of your hand. Backup your computer in minutes. Transfer files, applications and operating systems from home to office for extreme flexibility and multitasking.

		ex VAT	inc VAT
SparQ			
All drives work with Microsoft Windows 95/98 & NT4, have a 512k cache buffer, 12ms access time & 1x Free piece of media.			
30-73-1001	1.0GB EIDE, Internal	£131	£153.93
37-73-1007	1.0GB Parallel Port, External	£131	£153.93
Media			
95-73-1000	1GB Single piece of media	£28	£32.90
95-73-1003	1GB media, pack of three	£68	£79.90
SyJet			
All drives work with Microsoft Windows 95/98 & NT4, have a 512k cache buffer, 12ms access time & 1x Free piece of media.			
30-73-1501	1.5GB EIDE, Internal	£199	£233.83
37-73-1507	1.5GB Parallel Port, External	£199	£233.83
35-73-1504	1.5GB SCSI, External	£199	£233.83
Media			
95-73-1500	1.5GB Single piece of media	£51	£59.93
95-73-1503	1.5GB media, pack of three	£127	£149.23

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Midlands - 0800 013 6 333

North - 0800 013 7 333

Scotland - 0800 013 8 333

FAX : 01753 524443



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THE BEST YOU'LL GET

For Customer Care and Switchboard Hotlines see Page 2



IOMEGA ZIP

	ex VAT	inc VAT
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
37-35-0100 Parallel port	£79	£92.83
37-35-0161 Parallel port+6 media	£109	£128.08
35-35-3537 ZIP Plus		
Parallel port/SCSI	£115	£135.13

Notebook (CNF) Drives - Internal

Please check compatibility : for latest models only

35-35-9110 Toshiba	£219	£257.33
35-35-9120 IBM	£219	£257.33
35-35-9130 Compaq	£219	£257.33

Media (Cartridges)

95-35-0101 Single	£8	£9.40
95-35-0106 6 Pack multicoloured	£39	£45.83
95-35-0110 10 Pack multicoloured	£79	£92.83
95-35-0120 20 Bulk Pack multi-c	£79	£92.83

Accessories

70-35-0003 Carry Case	£19	£22.33
26-35-0284 PCMCIA to SCSI card	£59	£69.33
26-35-0100 ISA SCSI Controller	£25	£29.38

The ZIP drive, with a capacity of 100MB (200MB with data compression) has become the industry standard for storing and transporting files for individual applications, and for smaller backup tasks.

With a seek time of 29ms and transfer rate up to 1.4MB/sec, the ZIP is twenty times as fast as a floppy drive, and the ZIP PLUS is more than twice as fast again!

Available with a number of interface options, it offers you the ultimate in flexibility and ease of use.



IOMEGA JAZ

	ex VAT	inc VAT
SCSI Drives		
35-35-1000 1.0Gb - Internal	£169	£198.58
35-35-1005 1.0Gb - External	£199	£233.83
35-35-2000 2.0Gb - Internal	£249	£292.58
35-35-2005 2.0Gb - External	£249	£292.58

Media (Cartridges)

95-35-1001 1.0Gb - Single	£55	£64.63
95-35-2001 2.0Gb - Single	£65	£76.38

Accessories

70-35-0003 Carry Case	£19	£22.33
26-35-0450 PCMCIA to SCSI card	£77	£90.48
26-35-0347 ISA 16-bit SCSI card	£59	£69.33
26-35-0346 PCI Bus-mastering SCSI card	£65	£76.38
75-35-0231 Parallel/SCSI convertor	£29	£34.08

The JAZ drive is the ultimate in storing, transporting and running your applications.

With operating speeds in excess of many conventional hard drives, the JAZ can handle even the most demanding use, including video, DTP and CAD/CAM applications.

Not only is there no limit to the number of disks you can use, but with a capacity of 1GB or 2GB you can store enormous amounts of data on a single cartridge.



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
46-35-2009 Parallel Port Drive	£88	£103.40
46-35-2003 Bundle : P/P Drive with carry case & 3 tapes	£125	£146.88

Ditto Max

3-7GB, 36MB/min		
Tape type (see Page 23) - E2, E3 OR E4		
46-35-3075 Parallel Port Drive	£129	£151.58

Ditto Max Pro

3-10GB, 36MB/min		
Tape type (see Page 23) - E2, E3, E4 OR E5		
46-35-3010 Internal Drive	£139	£163.33
46-35-3015 Parallel Port Drive	£169	£198.58

ISA Controller

26-35-0030 DITTO-DASH	£19	£22.33
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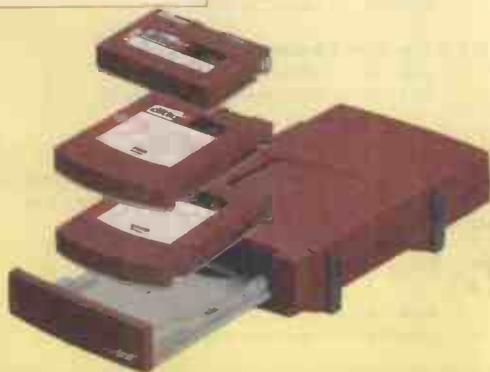


From 2GB up to 10GB, the DITTO offers the most versatile small tape backup range on the market.

The DITTO MAX even allows you to customise your capacity by using 3, 5, 7 or 10GB* cartridges in the same drive.

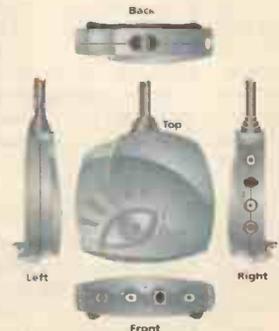
With installation taking just 5 minutes and backup involving simple point and click activation, you won't find an option that's easier to use.

*10GB : Ditto Max Pro only.



IOMEGA BUZ

	ex VAT	inc VAT
62-35-0700 Multimedia Card SCSI	£149	£175.08



The BUZ is a cross-platform video capture board and SCSI card that allows you to put multimedia from camcorders, VCRs, DVD and CD-ROM drives into your PC ... and then customise it using the easiest software around.

From there, you can share it with others using a ZIP or JAZ disk, or even the Internet!

Iomega have again brought stunning new technology to the market at a very affordable price.



IOMEGA REMOVABLE & TAPE DRIVES

http://www.smc-computers.co.uk

SMC Computers Plc

253-257 Farnham Rd Slough Berkshire SL2 1HA



ALL MAJOR CREDIT CARDS ACCEPTED



What size Hard Drive do I need ?

With very small differences between the cost of different size Hard Drives , it is obviously tempting to go for the biggest drive within your immediate budget. However, there are several factors you should consider when making your decision. Your needs will increase if you use space-hungry software and/or operating system. (Don't forget Windows 98 has a maximum disk requirement of 300MB !). On the other hand, if you run applications direct from CD, this will obviously lower your needs, as will whether you use removable media (eg lomega ZIP or JAZ) where you can have an external "plug-in" library of data and/or applications. If you need advice, just give us a call and we'll help you choose the option that's best suited to your

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						
35-86-2173	2.1GB	Western Dig	E2170-0003Enterprise	512k 8ms	£179	£210.33
35-24-2200	2.2GB	Fujitsu	M2952S AL3	512k 8ms	£239	£280.83
35-64-3201	3.2GB	Quantum	SE3200S Fireball SE	128k 9.5ms	£129	£151.58
35-30-4306	4.3GB	IBM	22L0276 Ultrastar	512k 8.5ms	£155	£182.13
35-86-4363	4.3GB	Western Dig	E4360-0003Enterprise	512k 8ms	£242	£284.35
35-64-4550	4.5GB	Quantum	PX4550SW Atlas II	512k 8ms	£209	£245.58
35-70-4520	4.5GB	Seagate	ST34520N	512k 9.5ms	£179	£210.33
35-70-4573	4.5GB	Seagate	ST34573N	512k 7.1ms	£339	£398.33
35-30-4529	4.5GB	IBM	00K3980 Ultrastar	512k 7.5ms	£179	£210.33
35-64-6400	6.4GB	Quantum	SE6400S Fireball SE	128k 9.5ms	£209	£245.58
35-70-6530	6.5GB	Seagate	ST36530N	512k 9.5ms	£259	£304.33
35-64-8400	8.4GB	Quantum	SE8400S Fireball SE	128k 9.5ms	£279	£327.83
35-30-9188	9.1GB	IBM A/V	59H6588 Ultrastar	512k 7.5ms	£395	£464.13
35-70-9140	9.1GB	Seagate	ST39140N	512k 9.5ms	£359	£421.83
35-70-9173	9.1GB	Seagate	ST39173N Barracuda	512k 7.5ms	£419	£492.33
35-86-9103	9.1GB	Western Dig	E9100-003	512k 7.9ms	£379	£445.33
35-64-9101	9.1GB	Quantum	TD309100S Atlas III	1MB 7.5ms	£429	£504.08
35-30-1800	18GB	IBM	59H6589 Ultrastar	512k 7.5ms	£789	£927.08
35-70-8273	18.2GB	Seagate	ST118273N	512k 7.1ms	£769	£903.58
35-64-1820	18.2GB	Quantum	TD318200S Atlas III	1MB 7.5ms	£789	£927.08

Ultra-wide SCSI

Part No	Size	Make	Model	Cache	ex VAT	inc VAT
Ultra-wide SCSI drives transfer data at 40Mb/sec and use a 68-pin connector						
35-86-2177	2.1GB	Western D	E2170-0007Enterprise	512k 8ms	£195	£229.13
35-24-2203	2.2GB	Fujitsu	M2952QA AL3	512k 8ms	£149	£175.08
35-24-4303	4.3GB	Fujitsu	MAB3045SP	512k 7.5ms	£239	£280.83
35-30-4308	4.3GB	IBM	09j1037 Ultrastar	512k 8.5ms	£159	£186.83
35-30-4318	4.3GB	IBM	22L0278	512k 8.5ms	£159	£186.83
35-86-4367	4.3GB	Western D	E4360-0007Enterprise	512k 8ms	£245	£287.88
35-30-4547	4.5GB	IBM	00K4000 Ultrastar	512k 7.5ms	£192	£225.60
35-64-4550	4.5GB	Quantum	PX4550SW Viking II	512k 7.5ms	£209	£245.58
35-70-4521	4.5GB	Seagate	ST34520W	512k 9.5ms	£189	£222.08
35-70-4574	4.5GB	Seagate	ST34573W	512k 7.1ms	£329	£386.58
35-24-3046	4.5GB	Fujitsu	MAC3045SP	512k 7.5ms	£375	£440.63
35-70-6531	6.5GB	Seagate	ST36530W	512k 9.5ms	£269	£316.08
35-24-9105	9.1GB	Fujitsu	MAB3091SP	496k 7.5ms	£425	£499.38
35-24-3092	9.1GB	Fujitsu	MAC3091SP	512k 7.5ms	£535	£628.63
35-30-9191	9.1GB	IBM	00K3990 UltrastarES	512k 7.5ms	£359	£421.83
35-30-9190	9.1GB	IBM A/V	59H6590 Ultrastar	512k 7.5ms	£399	£468.83
35-30-9118	9.1GB	IBM A/V	05j7618 Ultrastar	512k 7.5ms	£519	£609.83
35-70-9141	9.1GB	Seagate	ST39140W	512k 9.5ms	£365	£428.88
35-70-9174	9.1GB	Seagate	ST39173W Barracuda	512k 7.5ms	£425	£499.38
35-86-9107	9.1GB	Western Dig	E9100-007	512k 7.9ms	£399	£468.83
35-86-9108	9.1GB	Western Dig	E9100-0016 (A/V)	512k 8ms	£405	£475.88
35-30-1891	18GB	IBM	59H6591 Ultrastar	512k 7.5ms	£789	£927.08
35-24-1800	18GB	Fujitsu	MAA3182SP	512k 8ms	£845	£992.88
35-70-8274	18.2GB	Seagate	ST118273W	512k 7.1ms	£795	£934.13

Ultra-2 SCSI

Part No	Size	Make	Model	Cache	ex VAT	inc VAT
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	£289	£339.58
35-70-4575	4.5GB	Seagate	ST34573LW	512k 7.1ms	£339	£398.33
35-70-4502	4.5GB	Seagate	ST34502LW	1MB 5.4ms	£359	£421.83
35-86-9117	9.1GB	Western Dig	E9100-0024	512k 7.8ms	£449	£527.58
35-86-9118	9.1GB	Western Dig	E9100-AV0030 (A/V)	512k 7.8ms	£469	£551.08
35-70-9102	9.1GB	Seagate	ST39102LW	1MB 5.4ms	£529	£621.58
35-64-9108	9.1GB	Quantum	TD309100LW Atlas III	1MB 7.5ms	£439	£515.83
35-70-8275	18.2GB	Seagate	ST118273LW	512k 7.1ms	£799	£938.83
35-64-1827	18.2GB	Quantum	TD318200LW Atlas III	1MB 7.5ms	£759	£891.83

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.

Part No	Size	Make	Model	Cache	ex VAT	inc VAT
Ultra-wide SCSI						
35-86-4368	4.3GB	Western Dig	E4360-0008	512k 8ms	£259	£304.33
35-70-4522	4.5GB	Seagate	ST34520WC	512k 9.5ms	£199	£233.83
35-30-4020	4.5GB	IBM	00K4020	512k 7.5ms	£209	£245.58
35-24-3045	4.5GB	Fujitsu	MAB3045SC	498k 8ms	£255	£299.63
35-70-6531	6.5GB	Seagate	ST36530WC	512k 9.5ms	£269	£316.08
35-70-9142	9.1GB	Seagate	ST39140WC	512k 9.5ms	£375	£440.63
35-86-9106	9.1GB	Western Dig	E9100-0008	512k 8ms	£389	£457.08
35-86-9105	9.1GB	Western Dig	E9100-0017 (A/V)	512k 8ms	£399	£468.83
35-24-3091	9.1GB	Fujitsu	MAB3091SC	498k 8ms	£439	£515.83
35-30-4010	9.1GB	IBM	00K4010	512k 7.5ms	£365	£428.88
35-30-6594	9.1GB	IBM	59H6594	1MB 6.5ms	£415	£487.63
35-30-7625	9.1GB	IBM	05j7625	1MB 7.5ms	£525	£616.88
35-30-6595	18.2GB	IBM	59H6595	1MB 7.5ms	£799	£938.83
35-24-3182	18.2GB	Fujitsu	MAA3182SC	498k 8ms	£799	£938.83

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	£479	£562.83
35-86-9116	9.1GB	Western Dig	E9100-AV0034 (A/V)	512k 7.8ms	£499	£586.33

ADAPTEC SCSI CONTROLLER CARDS

Kits (include software and internal cable)

Part No	Model	Interface	Ext.Con	Devices	Boot	ex VAT	inc VAT
				(Max)	Bios		
ISA Bus							
26-03-1542	AHA1542CP	FastSCSI2	Micro-D	7&FD	Y	£149	£175.08
EISA Bus							
26-03-2742	AHA2742AT	FastSCSI2	Micro-D	14&FD	Y	£189	£222.08
26-03-2747	AHA2742W	WideSCSI2	Micro-D wide	15&FD	Y	£239	£280.83
PCI Bus							
26-03-2902	AVA2902	FastSCSI2	25pin D	7Extnl	N	£42	£49.35
26-03-2910	AHA2910B	FastSCSI2	Micro-D	7	N	£64	£75.20
26-03-2920	AHA2920	FastSCSI2	Micro-D	7	Y	£79	£92.83
26-03-2941	AHA2940UA	UltraSCSI	Micro-D	7	Y	£139	£163.33
26-03-2947	AHA2940UW	UltraWide	Micro-D wide	15	Y	£169	£198.58
26-03-2980	AHA2940U2W	Ultra-2	Micro-D	15	Y	£245	£287.88
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	PCMCIA, SCSI I&2	7		£99	£116.33
26-03-1480	APA1480	UltraSCSI	PCMCIA, SCSI I & 2	3		£124	£145.70
RAID 0, 1, 0/1, or 5 (PCI Bus-Network & 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	£449	£527.58

Bare Cards (do not include software or cable)

Part No	Model	Interface	Ext.Con	Devices	Boot	ex VAT	inc VAT
				(Max)	Bios		
ISA Bus							
26-03-1520	AHA1520B	FastSCSI2	Micro-D	7	Y	£45	£52.88
26-03-1549	AHA1542	FastSCSI2	Micro-D	7&FD	Y	£115	£135.13
PCI Bus							
26-03-2943	AHA2940UA	UltraSCSI	Micro-D	7	Y	£115	£135.13
26-03-2949	AHA2940UW	UltraWide	Micro-D wide	15	Y	£145	£170.38

HARD DRIVES : ULTRA, ULTRA-WIDE, ULTRA-2 SCSI

PRODUCT LINK



Drive cables & boxes page 24

SALES FREEPHONES : South - 0800 013 5 333

Midlands - 0800 013 6 333

North - 0800 013 7 333

Scotland - 0800 013 8 333

FAX : 01753 524443



SALES LINES OPEN : MONDAY TO FRIDAY : 8.30am - 6.30pm SATURDAY : 9am - 1pm

THE BEST YOU'LL GET

For Customer Care and Switchboard Hotlines see Page 2

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

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						
30-24-3021	2.1GB	Fujitsu	MPB3021AT	256k 10ms	£75	£88.13
30-64-2100	2.1GB	Quantum	SE2100AT	128k 9.5ms	£72	£84.60
30-70-2122	2.1GB	Seagate	ST32122A	128k 12ms	£69	£81.08
30-64-2500	2.5GB	Quantum	EL2500AT	512k 9.5ms	£75	£88.13
30-70-2520	2.5GB	Seagate	ST32520A	128k 13ms	£75	£88.13
30-86-2509	2.5GB	Western Dig	AC12500AU	128k 12ms	£79	£92.83
30-39-0288	2.8GB	Maxtor	90288D2	256k 9ms	£77	£90.48
30-24-3033	3.2GB	Fujitsu	MPC3032AT	256k 10ms	£79	£92.83
30-64-3201	3.2GB	Quantum	SE3200AT	128k 9.5ms	£84	£98.70
30-70-3221	3.2GB	Seagate	ST33221A	128k 11ms	£82	£96.35
30-86-3205	3.2GB	Western Dig	AC23200AU	128k 12ms	£85	£99.88
4.3Gb - 5.7Gb						
30-24-3043	4.3GB	Fujitsu	MPB3043AT	256k 10ms	£89	£104.58
30-24-3044	4.3GB	Fujitsu	MPC3043AT	256k 10ms	£95	£111.63
30-39-0432	4.3GB	Maxtor	90432D3	256k 9ms	£92	£108.10
30-64-4300	4.3GB	Quantum	SE4300AT	128k 9.5ms	£95	£111.63
30-70-4321	4.3GB	Seagate	ST34321A	128k 11ms	£85	£99.88
30-86-4300	4.3GB	Western Dig	AC34300AU	256k <11ms	£95	£111.63
30-70-4520	4.5GB	Seagate	ST34520A	512k 9.5ms	£105	£123.38
30-64-5100	5.1GB	Quantum	EL5100AT	512k 9.5ms	£95	£111.63
30-86-5100	5.1GB	Western Dig	AC35100AU	256k <11ms	£105	£123.38
30-39-0576	5.7GB	Maxtor	90576D4	256k 9ms	£99	£116.33
6.4Gb - 12Gb						
30-30-6408	6.4GB	IBM	00K4115	512k 8.5ms	£115	£135.13
30-64-6400	6.4GB	Quantum	SE6400AT	128k 9.5ms	£119	£139.83
30-70-6431	6.4GB	Seagate	ST36531A	512k 11ms	£109	£128.08
30-70-6530	6.5GB	Seagate	ST36530A	512k 9.5ms	£112	£131.60
30-86-6400	6.4GB	Western Dig	AC36400AU	256k <9.5ms	£119	£139.83
30-24-3065	6.4GB	Fujitsu	MPC3064AT	256k 10ms	£115	£135.13
30-39-0680	6.8GB	Maxtor	90680D4	256k 9ms	£112	£131.60
30-39-0750	7.5GB	Maxtor	90750D6	512k 9ms	£155	£182.13
30-64-7600	7.6GB	Quantum	EL7600AT	512k 9.5ms	£142	£166.85
30-64-8000	8.0GB	Quantum	TX8000AT 5.25"	128k 12ms	£129	£151.58
30-30-8084	8.4GB	IBM	00K0394	256k 8.5ms	£145	£170.38
30-39-0840	8.4GB	Maxtor	90840D6	256k 9ms	£135	£158.63
30-64-8400	8.4GB	Quantum	SE8400AT	128k 9.5ms	£165	£193.88
30-86-8400	8.4GB	Western Dig	AC38400AU	512k 9.5ms	£149	£175.08
30-24-3084	8.4GB	Fujitsu	MPC3084AT	256k 10ms	£149	£175.08
30-70-8641	8.6GB	Seagate	ST38641A	128k 11ms	£135	£158.63
30-70-9140	9.1GB	Seagate	ST39140A	512k 9.5ms	£175	£205.63
30-39-1000	10.0GB	Maxtor	91000D8	512k 9ms	£199	£233.83
30-86-1010	10.1GB	Western Dig	AC310100AU	512k 9.5ms	£195	£229.13
30-64-1020	10.2GB	Quantum	EL10200AT	512k 9.5ms	£185	£217.38
30-24-3102	10.2GB	Fujitsu	MPC3102AT	256k 10ms	£185	£217.38
30-39-1152	11.5GB	Maxtor	91152D8	256k 9ms	£205	£240.88
30-64-1200	12GB	Quantum	TX12000AT 5.25"	128k 12ms	£185	£217.38

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	£13	£15.28

		ex VAT	inc VAT
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

		ex VAT	inc VAT
FloppyMax			
24-97-0120	FloppyMax, ISA Add-on for L5-120 (120Mb A:Drive)	£25	£29.38

		ex VAT	inc VAT
ULTRA DMA33 (UIDE)			
24-97-0033	Promise Pro ATA Ultra33, PCI add-on controller supporting Quantum ST and UIDE drives. Co-exists with existing IDE/EIDE - ATAPI devices	£44	£51.70
24-97-1120	Promise Ultra ATA PCI RAID controller	£85	£99.88

		ex VAT	inc VAT
I/O Cards			
23-97-0202	2x EPP/ECP Parallel Ports (High-speed)	£25	£29.38
23-97-1313	2x Serial, 1x Parallel Port (High-speed)	£39	£45.83

EIDE 2.5" HARD DRIVES

Part No	Size	Make	Model	Cache	ex VAT	inc VAT
2.1Gb - 4.0Gb						
30-75-2105	2.1Gb	Toshiba	MK2105MAV	512k 13ms	£119	£139.83
30-75-3205	3.2Gb	Toshiba	MK3205MAV	128k 13ms	£149	£175.08
30-75-4006	4.0Gb	Toshiba	MK4006MAV	128k 13ms	£169	£198.58

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

HARD DRIVES : ULTRA-IDE



UPGRADE WITH THE UK'S PREMIER HARD DRIVE SUPPLIER

http://www.smc-computers.co.uk



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

	ex VAT	inc VAT
12 - speed		
With data transfer 1800 KB/sec		
51-75-5701 Toshiba XM5701B 115ms (T)	£69	£81.08
20 - speed		
With data transfer 3000 KB/sec		
51-93-2000 Plextor 20Plex 95ms (T)	£99	£116.33
32 - speed		
With data transfer 4800 KB/sec		
51-93-3200 Plextor PX32Tsl 85ms (T)	£79	£92.83
51-93-3210 Plextor PX32Csl 85ms (C)	£115	£135.13
51-75-6201 Toshiba XM6201B (T)	£59	£69.33
51-62-3215 Pioneer DR-U06S 70ms (S)	£59	£69.33
51-93-1532 Teac CD532S (T)	£59	£69.33

SCSI - External

	ex VAT	inc VAT
12 / 24 - speed		
With data transfer 1800 KB/sec		
51-62-1412 Pioneer DRM-6324X 6-disc Autochanger	£329	£386.58
32 - speed		
Ultra SCSI, with data transfer 4800 KB/sec		
51-93-3205 Plextor PX32Tse 85ms (T)	£105	£123.38
51-93-3215 Plextor PX32Cse 85ms (C)	£149	£175.08

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
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EIDE / ATAPI - Internal

	ex VAT	inc VAT
8 - speed Autochanger		
With data transfer 1200 KB/sec		
51-93-0068 Teac CD-C68 190ms (6-disc)	£79	£92.83
24 - speed		
MPC-3 Compatible, with data transfer 3600 KB/sec		
51-15-2402 Creative Blaster CD 90ms	£39	£45.83
51-95-2432 Samsung SCR2432E	£35	£41.13
51-93-0524 Teac CD524E 90ms	£37	£43.48
51-75-6102 Toshiba XM6102B 90ms	£42	£49.35
32 - speed		
MPC-3 Compatible, with data transfer 4800 KB/sec		
51-15-3201 Creative Blaster CD 32	£45	£52.88
51-57-0588 Panasonic CR-588	£36	£42.30
51-75-6302 Toshiba XM6302B	£37	£43.48
51-48-0320 Mitsumi FX320	£37	£43.48
51-26-8322 LG G'star CRD-8322B 80ms	£39	£45.83
51-93-0532 Teac CD532E 85ms	£39	£45.83
51-95-3231 Samsung SCR3231E	£39	£45.83

	ex VAT	inc VAT
36 - speed		
Pioneer DR-A14S, 5400 KB/sec	£43	£50.53
40 - speed		
Asus CD-5400, 6000 KB/sec	£45	£52.88

All above are tray loading, with software drivers and audio cable

PCMCIA

Amacom EZCD Card		
51-92-3024 24-speed, 125ms, 256k cache	£115	£135.13
51-92-3032 32-speed, 256k cache	£125	£146.88
Amacom EZCD Plus		
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).		
51-92-5010 10-speed, 125ms, 256k cache	£149	£175.08
51-92-5020 20-speed, 125ms, 256k cache	£175	£205.63
LG Electronics		
51-26-8241 24-speed, 130ms, 128k cache	£115	£135.13

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

51-42-3200 32-speed	£155	£182.13
51-42-3204 32-speed with sound	£169	£198.58

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	£93	£109.28
51-42-1004 Bantam 10-speed with sound	£169	£198.58
51-42-2400 Bantam 24-speed	£159	£186.83
51-42-2404 Bantam 24-speed with sound	£185	£217.38

Amacom EZCD

The EZCD drive has a 256K cache and 125ms access time

51-92-0016 16-speed	£115	£135.13
51-92-1016 16-speed with 16-bit sound	£155	£182.13
51-92-0024 24-speed	£125	£146.88
51-92-1024 24-speed with 16-bit sound	£169	£198.58
51-92-0032 32-speed	£115	£135.13
51-92-1032 32-speed with 16-bit sound	£165	£193.88

PRODUCT LINK

CD Sound Cables :
See Page 24



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
12x1 Speed D-D-ROM Drive

- Plays all DVD-ROM Discs including MPEG2 discs with MPEG2 decoder card
- Single & dual Layer Support in DVD Mode
- Backwardly Compatible with CD-ROM, CD-R & CD-RW
- 2x Speed DVD-ROM Data Transfer (2.7MB/sec)
- 24x Speed CD-ROM Data Transfer (3.6MB/sec Max)

51-26-8200 £77 (£90.48 inc.VAT)

CRD-8320B
32x Max CD-ROM Drive

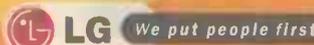
- Magnetised ball balance mechanism
- E-IDE/ATAPI Interface
- 4800KB/sec Max Data Transfer Rate
- CD-RW & CD-R compatible
- 80ms Access Time
- MPC III Compliant

51-26-8320 £35 (£41.13 inc.VAT)

CRN-8240E
24x Max External D-ROM Drive

- Operates through PCMCIA attached
- E-IDE/ATAPI Interface
- Fast 130ms Average Access Time
- Max 1,950Kbytes/sec Sustained Transfer rate
- MPC III Compliant

51-26-8241 £115 (£135.13 inc.VAT)



Website <http://www.lge.co.kr>

DVD CD-ROM DRIVES

DVD (Digital Versatile Disk) looks exactly like a normal CD, but stores over 26 times the amount of data. A standard DVD disk can hold over two hours of high quality MPEG-2 video with better-than-CD quality audio. DVD-ROM disks can be used to distribute all types of computer data with storage capacities from 4.7Gb to 17Gb, making them ideal for distribution of large multimedia/interactive applications such as music videos and full-length films.

	ex VAT	inc VAT
EIDE/ATAPI internal		
51-26-8200 LG 2x DVD (150ms), 24x CD (100ms)	£77	£90.48
51-15-0220 Creative 2x DVD (170ms), 20x CD (100ms)	£84	£98.70
51-15-1700 Creative ENCORE kit with MPEG 2 decoder card 170ms DVD, 100ms CD	£159	£186.83
51-15-5128 Creative 5x DVD, PCI-128 Sound Card, Speakers	£133	£156.28
51-57-8582 Panasonic SR8582	£85	£99.88
51-62-0200 Pioneer DVD-A02, 150ms DVD, 90ms CD	£105	£123.38
SCSI internal		
51-62-3020 Pioneer DVD-302, 150ms DVD, 90ms CD	£109	£128.08



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



SALES FREEPHONES : South - 0800 013 5 333

Midlands - 0800 013 6 333

North - 0800 013 7 333

Scotland - 0800 013 8 333

FAX : 01753 524443

SALES LINES OPEN : MONDAY TO FRIDAY : 8.30am - 6.30pm SATURDAY : 9am - 1pm

For Customer Care and Switchboard Hotlines see Page 2

THE BEST YOU'LL GET



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 £799 £938.83
With 16 bays and 14 CD ROM drives
51-75-1715 32-speed option £1499 £1761.33

Plextor
With 8 bays and 7 CD ROM drives
51-93-0809 32-speed option £799 £938.83
With 16 bays and 14 CD ROM drives
51-93-1517 32-speed option £1999 £2348.83

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 £1249 £1467.58
With 16 bays and 14 CD ROM drives
51-75-6214 XM6214/AX - 32-speed option £2199 £2583.83

Plextor
With 8 bays and 7 CD ROM drives
51-93-0732 PXT732/AX - 32-speed option £1229 £1444.08
With 16 bays and 14 CD ROM drives
51-93-1472 PXT1472/AX - 32-speed option £2699 £3171.33

Hewlett Packard
With 8 bays and 7 CD ROM drives
51-28-3277 J3277A - 32-speed option £1349 £1585.08
51-28-3278 J3278A - 32-speed option with 18MB RAM and external connector to daisy-chain additional towers £1549 £1820.08
HP support Packs
51-28-5650 H5650A - 3-year for J3278A £271 £318.43
51-28-9479 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!

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
52-28-4380 7200i EIDE/ATAPI internal £234 £274.95
52-28-4381 7200e Parallel Port £259 £304.33
52-28-4392 8100i EIDE/ATAPI Int., 4x CD-RW £229 £269.08
Requires P133Mhz, 32MB RAM, Win'95, free IDE channel/EPP port

TraxData

99-95-0020 PRESSIT - CD Labeller £20 £23.50
2-speed write/rewrite, 6-speed play
52-95-2260 2260EL Pro - SCSI Internal £199 £233.83
52-95-2262 2260EL Plus - EIDE Internal £179 £210.33
4-speed write, 2-speed rewrite, 6-speed play
52-95-4260 4260EL Pro - SCSI Internal £269 £316.08
52-95-4268 4260EL Pro - SCSI External £309 £363.08
52-95-4262 4260EL Plus - EIDE Internal £299 £351.33
PCI SCSI controller & audio recording software are also available.

Yamaha

4-speed write, 2-speed rewrite, 6-speed play
Kits include drive, 1 x media, Easy CD software & Direct CD.
All SCSI drives require a controller card.
52-93-4001 CRW4001TVK - Internal EIDE kit £269 £316.08
52-93-4260 CRW4260T - Internal SCSI drive £259 £304.33
52-93-4261 CRW4260TX - External SCSI drive £299 £351.33
52-93-4262 CRW4260TVK - Internal SCSI kit £229 £269.08
52-93-4264 CRW4260TX-VK - Extnl SCSI kit £299 £351.33

CD-RECORDERS

ex VAT inc VAT

TraxData

4-speed write, 12-speed play
Traxdata SCSI drives include WinOnCD to GO for Windows 95, 3.1x and NT4.
52-95-4120 4120EL Pro - Internal SCSI drive £229 £269.08
52-95-4128 4120EL Pro - External SCSI drive £269 £316.08

Accessories

26-95-0002 PCI SCSI Controller £44 £51.70
05-95-1010 Just Audio Recording Software £29 £34.08

Plasmon

4-speed write, 8-speed play
Plasmon SCSI drives have a 1Mb Cache and 175ms access time and are tray loading.
Supplied with CD software for Windows 95, Windows 3.1x and NT3.51 & 4.
52-95-2120 CDR480I - Internal drive £239 £280.83
52-95-2125 CDR480E - External drive £279 £327.83
52-95-2122 CDR480I-S - Internal drive and SCSI controller £299 £351.33
52-95-2127 CDR480E-SI - External drive and SCSI controller £359 £421.83

Plextor

4-speed write, 12-speed play
Plextor SCSI drives have a 2Mb Cache and 190ms Access time.
Supplied with software, cables and a free caddy. Warranty is 1 year.
52-93-4120 PX-R412C - Internal drive £255 £299.63
52-93-4125 PX-R412Ce - External drive £289 £339.58

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 £329 £386.58
These are Quad-Speed External units
51-62-1418 DRM-1804X - 18 CD's, 3 drives 300ms, 600Kb/s £1339 £1573.33
51-62-1450 DRM-5004X - 500 CD's, 1 Drive (max 4) 280ms, 600Kb/s £10900 £12807.50

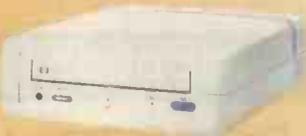


SureStore 7200e CD Re-Writer

52-28-4381

£259

£304.33 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

PRODUCT LINK

Media : see Page 23



In a period of less than four years, the Traxdata Group of Companies has grown into the European market leader in the field of CD-Recordable media and its product range covers Digital Optical Media, CD recording, CD duplication and CD Labellers.



Not only is Traxdata's range at the forefront of technology, but every product is fully tested, certified and guaranteed. This provides both technical excellence and the highest standards of quality, so that you, the customer, can be sure of complete satisfaction with your purchase.

From now until 31st December 1998, vouchers will be included with every Traxdata product purchased (including media) with the chance to win a Ferrari F355 in a draw at the end of the period.

(NOTE : no purchase necessary)

CD-RECORDERS, RE-WRITERS & TOWERS

http://www.smc-computers.co.uk





Why do I need to back up ?

For many people, making sure that their data is safe only ever becomes important when the data isn't there any more ! Imagine how many hours it would take to re-install software, set up all your applications as you had them before and then re-type all your work!

At SMC, we offer every kind of option, from parallel port devices which plug into your printer port to advanced SCSI DAT and Autoloader equipment, supporting from a basic 400Mb right through to a massive 144Gb.

Call us now for the solution to fit your requirements.

BACKUP : TAPE, DAT & DLT DRIVES

DAT DRIVES

exVAT incVAT

Internal drives

2Gb : 11Mb/min

Tape type (see Page 21) - B1		
42-28-0120	HP DAT C1534	£269 £316.08
42-28-2020	HP SureStore 2000	£299 £351.33
42-13-0200	Seagate 4320	£339 £398.33
42-71-0020	Sony SDT-2000E	£329 £386.58

4Gb : 22Mb/min

Tape type (see page 21) - B1		
42-28-0130	HP DAT C1536	£279 £327.83
42-28-2050	HP SureStore 5000	£319 £374.83
42-13-0400	Seagate 4324	£355 £417.13

5Gb : 22Mb/min

Tape type (see page 21) - B1 or B2		
42-71-0040	Sony SDT-5200	£359 £421.83

4 - 8Gb : 44Mb/min

Tape type (see page 21) - B1 or B2		
42-28-0140	HP DAT C1599A	£399 £468.83
42-28-2067	HP SureStore DAT8i	£499 £586.33
42-84-4000	Wangdat 3400DX	£429 £504.08
42-13-0800	Seagate 4326	£455 £534.63
42-71-0090	Sony SDT-5000 (22Mb/min)	£445 £522.88
42-71-0080	Sony SDT-7000 QUAD	£399 £468.83

12 - 24 GB : 44Mb/min

Tape type (see page 21) - B1, B2 or B3		
42-28-0240	HP DAT C1554A	£569 £668.58
42-28-2070	HP SureStore DAT24i DDS-3	£699 £821.33
42-71-0120	Sony SDT-9000 (22Mb/min)	£579 £680.33

64 GB Autoloaders

Tape type (see page 21) - B1 or B2		
42-71-0320	Sony TSL-7000 (22Mb/min)	£1167 £1371.23

72 - 144 GB Autoloaders

Tape type (see page 21) - B1, B2 or B3		
42-28-7144	HP DAT C5648A DDS-3 (6 tapes)	£1579 £1855.33

External Drives

2GB : 11Mb/min

Tape type (see Page 21) - B1		
42-28-0125	HP DAT C1534-X	£309 £363.08
42-28-2025	HP SureStore 2000-X	£375 £440.63
42-84-1005	Wangdat 3100-X	£433 £508.78
42-13-0205	Seagate 4350	£415 £487.63

4GB : 22Mb/min

Tape type (see page 21) - B1		
42-28-0135	HP DAT C1536-X	£349 £410.08
42-28-2055	HP SureStore 5000-X	£399 £468.83
42-84-2005	Wangdat 3200-X	£499 £586.33
42-13-0405	Seagate 4354	£429 £504.08

4 - 8GB : 44Mb/min

Tape type (see page 21) - B1 or B2		
42-28-0145	HP DAT C1599A-X	£479 £562.83
42-28-2069	HP SureStore DAT8e	£569 £668.58
42-84-4005	Wangdat 3400DX-X	£529 £621.58
42-13-0805	Seagate 4356	£545 £640.38
42-71-0095	Sony SDT-5000X (22Mb/min)	£515 £605.13

12 - 24GB : 44Mb/min

Tape type (see page 21) - B1, B2 or B3		
42-28-2073	HP SureStore DAT24e DDS-3	£779 £915.33
42-84-9005	Wangdat TS3900e 12-24Gb, DDS-3	£729 £856.58

64GB Autoloaders

Tape type (see page 21) - B1 or B2		
42-71-0325	Sony TSL-7000 (22Mb/min)	£1249 £1467.58

72 - 144GB Autoloaders

Tape type (see page 21) - B1, B2 or B3		
42-28-2144	HP SureStore DAT24X6e DDS-3 (6 tapes)	£1829 £2149.08

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.

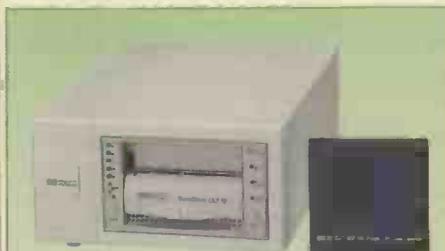
All products are supplied with user documentation, TapeAssure software on CD, SCSI cable and terminator, power cable, DLT cleaning cartridge and one piece of DLT media for instant use.

A SCSI controller is required.

Hewlett Packard SureStore

exVAT incVAT

Tape type (see Page 21) -F2		
42-28-1579	DLT40e 40Gb External	£2079 £2442.83
42-28-5658	DLT70e 70Gb External	£4129 £4851.58



If the protection of mission-critical data is a priority then the DLT range is the best solution, offering exceptional reliability as a result of robust drive construction, extremely durable media and advanced error detection.

The DLT range offers capacities from 40Gb to 70Gb with sustained transfer rates of 2.5Mb/sec up to 10Mb/sec.

PRODUCT LINK

Backup Software : Page 9

TAPE DRIVES

exVAT incVAT

HP Colorado Travan

1.6 - 3.2 GB - 9.5MB/min

Tape type (see Page 21) - A3		
48-10-2000	T3000 Internal	£99 £116.33

2.5-5.0GB

Tape type (see Page 21) - A5		
48-10-2505	HPC5GB/ATAPI EIDE Internal	£127 £149.23
48-10-2509	HPC5GB/PP PiPort	£155 £182.13

Iomega Ditto

See feature on opposite page

Seagate

3.2GB Floppy Drive interface - 19MB/min

Tape type (see Page 21) - A3		
48-13-3200	TSM3200R Internal	£95 £111.63

4GB Hard Drive interface - 54MB/min

Tape type (see Page 21) - C7 & A4		
48-13-8000	TST8000R-A EIDE Internal	£159 £186.83
48-13-8005	TST8000R-S SCSI Internal	£189 £222.08
48-13-8015	TST8000ES-S SCSI External	£275 £323.13

TAPE SUPPORT PACKS

exVAT incVAT

Hewlett Packard

99-28-9461	H5461A - SureStore Tape T4i	£35	£41.13
99-28-9462	H5462A - SureStore 2000/5000, DAT 8	£47	£55.23
99-28-9464	H5465A - SureStore 6000	£66	£77.55
99-28-9471	H5471A - SureStore 12000	£118	£138.65
99-28-9475	H5475A - SureStore Tape 30e DLT	£140	£164.50
99-28-9485	H5485A - SureStore Tape 70e DLT	£299	£351.33
99-28-9511	H5511A - SureStore Tape 40e DLT	£192	£225.60



SMC provides a flexible choice of tape drives for any system configuration, whether a combination of drives and backup software, or a complete plug-and-play solution. The Hewlett Packard range covers most options you will consider. At the top of the range is the industry-leading C5648A DAT Autoloader, based on the fastest DDS-3 DAT drive in the industry today. This uses standard DDS-3 125M cartridge tapes with a native capacity of 12Gb : this can be increased using compression to typically 24Gb, thereby giving up to a massive 144Gb using a six-cartridge magazine.



Drives in the HP SureStore range are supplied with one media tape, one cleaning tape, basic backup software and a full operating manual. Internal drives have a bracket set whilst external drives are supplied with a premium-quality data cable.



PRODUCT LINK



Tape media : see page 23

SALES FREEPHONES : South - 0800 013 5 333

Midlands - 0800 013 6 333

North - 0800 013 7 333

Scotland - 0800 013 8 333

FAX : 01753 524443



SALES LINES OPEN : MONDAY TO FRIDAY : 8.30am - 6.30pm SATURDAY : 9am - 1pm

THE BEST YOU'LL GET

For Customer Care and Switchboard Hotlines see Page 2

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	Iomega Zip 100MB, Single	£8	£9.40	£8	£9.40	£7	£8.23
95-35-0106	Iomega Zip 100MB, 6 Pack multi-col	£39	£45.83	£38	£44.65	£37	£43.48
95-35-0110	Iomega Zip 100MB, 10 Pack multi-col	£79	£92.83	£74	£86.95	£72	£84.60
95-35-0120	Iomega Zip 100MB, 20 Pack multi-col	£125	£146.88	£124	£145.70	£121	£142.18
95-35-1001	Iomega Jaz 1GB, Single	£55	£64.63	£55	£64.63	£52	£61.10
95-35-2001	Iomega Jaz 2GB, Single	£65	£76.38	£60	£70.50	£58	£68.15
95-73-3270	Syquest 3.5" 270MB, Single	£35	£41.13	£30	£35.25	£28	£32.90
95-73-5088	Syquest 5.25" 88MB, Single	£28	£32.90	£25	£29.38	£23	£27.03
95-73-5200	Syquest 5.25" 200MB, Single	£40	£47.00	£37	£43.48	£35	£41.13
95-73-1000	Syquest 1.0GB SparQ, Single	£28	£32.90	£23	£27.03	£21	£24.68
95-73-1500	Syquest 1.5GB SyJet, Single	£51	£59.93	£43	£50.53	£40	£47.00



CD-ROM & OPTICAL MEDIA

CD-ROM		ex VAT	inc VAT	ex VAT	inc VAT	ex VAT	inc VAT
		Qty 1-4		Qty 5-19		Qty 20+	
95-97-7174	CD Gold - CD media (74 Mins)	£4	£4.70	£2	£2.35	£1	£1.18
95-97-0700	TRAX CD Gold - CD media (74 Mins)	£5	£5.88	£3	£3.53	£2	£2.35
95-97-0774	TRAX CD Re-writable, CD-RW players	£15	£17.63	£11	£12.93	£9	£10.58

Optical		ex VAT	inc VAT	ex VAT	inc VAT	ex VAT	inc VAT
		Qty 1-4		Qty 5-19		Qty 20+	
95-97-0128	128MB, (LMD300)	£10	£11.75	£8	£9.40	£7	£8.23
95-97-0230	230MB, Fujitsu M2512A (OM230)	£8	£9.40	£7	£8.23	£6	£7.05
95-97-0640	640MB, Fujitsu M2513A (OM640)	£18	£21.15	£17	£19.98	£16	£18.80
95-97-0653	650MB, Panasonic LFI004-PD Drive	£18	£21.15	£16	£18.80	£14	£16.45
95-97-1300	1.3GB, HP C1716T, HP C2550A	£28	£32.90	£24	£28.20	£22	£25.85
95-97-1500	1.5GB, Panasonic LF7304, LF7300B	£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	1.44MB 3.5" DS,HD (Box-10)	£5	£5.88	£4	£4.70	£3	£3.53
95-71-0144	Sony - 1.44MB 3.5" DS,HD (Box-10)	£7	£8.23	£5	£8.23	£4	£4.70
95-95-0144	3M - 1.44MB 3.5" DS,HD (Box-10)	£7	£8.23	£5	£9.40	£4	£4.70
95-95-1200	3M - 120MB 3.5" LS-120	£12	£14.10	£11	£12.93	£10	£11.75



TAPE MEDIA

Tape Type		ex VAT	inc VAT	ex VAT	inc VAT	ex VAT	inc VAT
		Qty 1-4		Qty 5-19		Qty 20+	
95-95-0805	A1 TRI (QIC Formatted)	£14	£16.45	£13	£15.28	£12	£14.10
95-95-3405	A3 TR3 (QIC Formatted)	£17	£19.98	£15	£17.63	£14	£16.45
95-95-8005	A4 TR4 (QIC Formatted)	£22	£25.85	£20	£23.50	£18	£21.15
95-95-2505	A5 TR4/5GB (QIC Wide Formatted)	£19	£22.33	£18	£21.15	£17	£19.98
95-95-9409	B1 DAT 4mm 90metre DDS-1	£5	£5.88	£4	£4.70	£3	£3.53
95-95-9412	B2 DAT 4mm 120metre DDS-2	£10	£11.75	£8	£9.40	£7	£8.23
95-95-9417	B3 DAT 4mm 125metre DDS-3	£18	£21.15	£18	£21.15	£16	£18.80
95-95-0120	C1 DC2120 unformatted	£8	£9.40	£7	£8.23	£6	£7.05
95-95-0125	C2 DC2120 pre-formatted	£9	£10.58	£8	£9.40	£7	£8.23
95-95-0255	C3 DC2120XL pre-formatted	£10	£11.75	£8	£9.40	£7	£8.23
95-95-0345	C4 DC3000XL pre-formatted	£12	£14.10	£10	£11.75	£9	£10.58
95-95-0680	C5 DC3000XL unformatted	£15	£17.63	£13	£15.28	£12	£14.10
95-95-1365	C6 DC1400	£19	£22.33	£17	£19.98	£16	£18.80
95-95-4005	C7 DC3080XLF (QIC Formatted)	£20	£23.50	£17	£19.98	£15	£17.63
95-95-0250	D2 DC6250	£12	£14.10	£10	£11.75	£9	£10.58
95-95-0520	D3 DC6525	£13	£15.28	£10	£11.75	£9	£10.58
95-95-1000	D4 DC9100	£18	£21.15	£16	£18.80	£15	£17.63
95-35-2002	E1 Ditto 2000 2GB Media	£12	£14.10	£11	£12.93	£10	£11.75
95-35-2003	E2 DittoMax 3GB Media	£14	£16.45	£12	£14.10	£11	£12.93
95-35-2005	E3 DittoMax 5GB Media	£17	£19.98	£16	£18.80	£15	£17.63
95-35-2007	E4 DittoMax 7GB Media	£19	£22.33	£17	£19.98	£16	£18.80
95-35-2010	E5 DittoMax Pro 10GB Media	£23	£27.03	£20	£23.50	£19	£22.33
95-28-0514	F1 30GB Media for HP DLT Tape III	£35	£41.13	£33	£38.78	£32	£37.60
95-64-1530	F1 30GB Media for Quantum DLT III	£29	£34.08	£27	£31.73	£25	£29.38
95-28-5141	F2 40GB Media FOR HP DLT Tape IV	£69	£81.08	£64	£75.20	£61	£71.68
95-64-3570	F2 40GB Media for Quantum DLT IV	£59	£69.33	£54	£63.45	£50	£58.75
95-95-9130	DAT 4mm Tape Cleaner	£10	£11.75	£8	£9.40	£7	£8.23



NOTE : Tape type codes (eg A1) in column 2 refer to codes given for Tape/DAT drives on page 22.

MEDIA SELECTOR

<http://www.smc-computers.co.uk>

SMC Computers Plc

253-257 Farnham Rd Slough Berkshire SL2 1HA



ALL MAJOR CREDIT CARDS ACCEPTED

Whether it's a cable, a fitting kit, a drive box to house an external device, a keyboard or a mouse, you can be sure that the product you buy from SMC will be of the highest quality. Not only are all our products covered by a full guarantee, but our dedicated Customer Support team handle any problems so that you can be assured of the best service available.

DATA CABLES

ex VAT Inc VAT

Internal Cables



Note : Cable lengths may vary - lengths given are nominal sizes.

SCSI - 50 pin		ex VAT	inc VAT
75-95-1501	Single drive, 19 inches	£6	£7.05
75-95-1502	Dual drive, 38 inches	£9	£10.58
75-95-1503	Triple drive, 38 inches	£15	£17.63
75-95-0500	Custom made to order, as required.		
	Prices from :	£15	£17.63
Wide SCSI - 68 pin		ex VAT	inc VAT
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		ex VAT	inc VAT
75-95-1401	Single Drive - 12.5"	£6	£7.05
75-95-1402	Dual Drive - 18" (4" gap)	£9	£10.58
75-95-1403	Dual Drive - 20" (9" gap)	£15	£17.63
75-95-0400	Custom made, up to 18" (Max of 2 drives/cable) From :	£15	£17.63

External Cables



SCSI		ex VAT	inc VAT
All cables are a nominal 1 metre in length unless specified otherwise.			
75-95-3521	25-pin D to 50-pin Centronics	£9	£10.58
75-95-3719	25-pin D to 68-pin Wide SCSI	£28	£32.90
75-95-3551	50-pin Centronics to 50-pin Centronics	£10	£11.75
75-95-3552	50-pin Centronics to 50-pin Centronics - 2 metres	£12	£14.10
75-95-3571	50-pin Micro D to 50-pin Centronics	£17	£19.98
75-95-3572	50-pin Micro D to 50-pin Centronics - 2 metres	£19	£22.33
75-95-3721	50-pin Micro D to 25-pin D	£18	£21.15
75-95-3771	50-pin Micro D to 50-pin Micro D	£19	£22.33
75-95-3661	Wide SCSI to Wide SCSI	£26	£30.55

Sound Cables

75-75-0404	ATAPI to ATAPI, 4-4pin for BIDE CD-ROMs	£6	£7.05
75-57-0570	Panasonic Cable for SCSI CD-ROM only (not IDE)	£8	£9.40
75-75-0751	Toshiba Cable, 3-4 for 3xxx series	£8	£9.40
75-75-0757	Toshiba Cable, 4-4 for 4xxx series	£8	£9.40
75-75-0753	Toshiba Cable, 4-4 for 5xxx series	£8	£9.40

Power Cables

75-95-9357	Power Splitter 'Y' Cable - converts single drive power lead to double	£3	£3.53
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Printer (Parallel Port) Cables

75-95-6002	1.8 metres	£5	£5.88
75-95-6003	3.0 metres	£7	£8.23
75-95-6005	5.0 metres	£9	£10.58

NOTE : All cables are usually ex-stock, but orders for custom-made Internal Cables (see above) may sometimes require an extra day to process.

PARALLEL PORT DRIVE BOXES

ex VAT Inc VAT

73-97-1183 For IDE / EIDE / Ultra-IDE drives £65 £76.38
This is the ideal solution for turning a standard Hard-Drive into a portable device. It is easy to install and includes software to work with any size drive, which will then work at the speed of your parallel port.

KEYBOARDS & MICE

ex VAT Inc VAT

Keyboards

Microsoft Natural Elite Keyboard

82-50-0012

£32

£37.60 Inc.VAT



To design a more comfortable keyboard, Microsoft conducted extensive ergonomic and usability research. The split, gently sloped shape, built-in palm rest and adjustable legs encourage a natural hand position and enable you to type comfortably in a relaxed

82-50-3505	For Windows 95/98 (105 key) 5-pin (AT)	£10	£11.75
82-50-3509	For Windows 95/98 (105 key) 6-pin Din (PS/2)	£12	£14.10
82-50-0012	MS Natural Elite (105 key) 6-pin Din & USB	£32	£37.60
82-91-3595	Cherry G81-3000 Lamb (105 key) 5-pin AT, soft touch	£25	£29.38
82-91-3597	Cherry G80-3000HFM AT (102 key) 5-pin AT, click	£39	£45.83
82-91-3599	Cherry G80-3000HPM (105 key) 6-pin Din (PS/2), click	£43	£50.53

Mice

Microsoft Wheel Mouse

82-50-0004

£14

£16.45 Inc.VAT



Just plug Wheel Mouse into a serial or PS/2 port and it's ready to use. Install the enclosed IntelliPoint software and you can take advantage of the wheel to provide a fast, convenient way of scrolling through your documents.

82-53-3153	MS compatible mouse 9 pin serial, 2 buttons	£10	£11.75
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	£14	£16.45
82-50-0625	Microsoft Intellimouse Trackball 2 buttons/wheel - 9 pin serial & PS/2	£32	£37.60
82-50-0610	Microsoft Intellimouse USB USB connector (requires Windows 98)	£28	£32.90
82-50-0615	Microsoft Intellimouse Pro 9 pin serial & PS/2	£35	£41.13
82-50-3192	Microsoft Home 9 pin serial, 2 buttons	£17	£19.98
82-50-0002	Microsoft V.2 - 9 pin serial & PS/2	£27	£31.73
82-50-0605	Microsoft Intellimouse 9 pin serial & PS/2	£35	£41.13
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	£16	£18.80
82-97-1315	Trackman Portable 3 buttons, 200dpi 9-pin serial	£32	£37.60
82-97-1395	Trackman Marble - 3 buttons, marble infra-red tech	£35	£41.13
82-97-0021	Mouseman 4 buttons 9-pin serial & PS/2	£24	£28.20
82-97-0022	Mouseman Plus 4 buttons/wheel 9-pin serial & PS/2	£27	£31.73

Microsoft Intellimouse Pro

82-50-0615

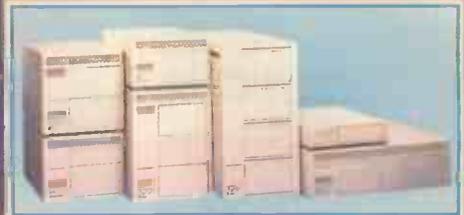
£35

£41.13 Inc.VAT



Ergonomic design includes a shape to support your hand and fingers, a slope which aligns your wrist, and easy-grip rubber soles. Add to that wheel features including zoom, scroll and auto-scroll, and you have a mouse that is both comfortable and an aid-to faster, easier

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	£14	£16.45
73-97-5116	1 x 5.25"HH, 40 watt	£62	£72.85
73-97-5114	1 x 5.25"FH, 30 watt	£65	£76.38
73-97-6215	2 x 5.25"FH, 2 x 65 watt	£175	£205.63
73-95-9524	4 x 5.25"HH, Conversion Kit for 73-97-6215	£24	£28.20
73-97-6315	3 x 5.25"FH, 3 x 65 watt	£239	£280.83
73-95-9536	6 x 5.25"HH, Conversion Kit for 73-97-6315	£34	£39.95
73-97-6415	4 x 5.25"FH, 4 x 65 watt	£345	£405.38

Micro-D

73-97-3133	1 x 3.5"HH, 40 watt	£79	£92.83
73-97-3233	2 x 3.5"HH, 65 watt	£119	£139.83
73-97-3433	4 x 3.5"HH, 2 x 65 watt	£189	£222.08
73-97-5134	1 x 5.25"HH, 30 watt	£85	£99.88
73-97-6144	2 x 5.25"HH, 65 watt	£115	£135.13
73-97-6235	2 x 5.25"FH, 65 watt	£189	£222.08

Fast-Wide

73-97-3152	1 x 3.5"HH, 40 watt	£89	£104.58
73-97-3252	2 x 3.5"HH, 65 watt	£129	£151.58
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 TÜV approved and come with a 3 year warranty.

HARD DRIVE MOUNTING KITS

ex VAT inc VAT

Fitting Bracket kit

This universal kit can be used to mount any 3.5" Hard Drive we sell into a 5.25" bay in virtually any standard PC case. (Note : not suitable for cases using special bays or slide rails.)

79-95-1135	DBHD - for 3.5" IDE or SCSI drive	£9	£10.58
79-95-1123	DBHD2.5 - for 2.5" drive (3.5" bay)	£18	£21.15

Removable Caddies



Removable Drive Caddies enable easy movement of data between sites. They are ideal for use where large volumes of data may need to be physically transferred, and also where the removal of data for security purposes is required.

The Removable Caddy consists of a 5.25" lockable docking bay which receives a sliding frame containing a 3.5" Hard Drive. All are complete kits with full installation instructions.

79-97-3102	IDE / EIDE / Ultra-IDE (40-pin) H/duty plastic frame	£25	£29.38
79-97-3502	SCSI (50-pin) - H/duty plastic frame	£35	£41.13
79-97-3504	SCSI (50-pin) - Metal frame	£59	£69.33
79-97-3506	Fast/Wide SCSI (68-pin) Metal frame	£79	£92.83
79-97-4001	SCA SCSI (68-pin ext, 80-pin int) for 1x 3.5" HH HDD	£99	£116.33
79-97-4003	SCA SCSI (68-pin ext, 80-pin int) for up to 3x 3.5" HDD's, all LP	£149	£175.08

SALES FREEPHONES : South - 0800 013 5 333

Midlands - 0800 013 6 333

North - 0800 013 7 333

Scotland - 0800 013 8 333

FAX : 01753 524443



SALES LINES OPEN : MONDAY TO FRIDAY : 8.30am - 6.30pm SATURDAY : 9am - 1pm

For Customer Care and Switchboard Hotlines see Page 2



THE BEST YOU'LL GET

SOUND CARDS

ex VAT inc VAT



Creative Labs SoundBlaster cards are designed to take advantage of Intel Pentium technology & require EIDE/ATAPI CD-ROM support. All Creative Labs products sold by SMC are full retail versions containing all required documentation, drivers and software.

SB16

53-15-1639 **SB16 Value Plug 'n' Play**
16bit FM Stereo, CD quality audio
MIDI/Joystick interface, ISA £22 £25.85

AWE-64

53-15-6425 **AWE64 Value Plug 'n' Play**
64 Voice Wavetable, Creative WaveSynth
Wave Guide, 16bit FM Stereo,
512Kb RAM (max 24Mb), ISA £59 £69.33

53-15-6445 **AWE64 Gold Plug 'n' Play**
64 Voice Wavetable, Gold RCA
connectors for clearer audio
4Mb RAM (max 28Mb), ISA £92 £108.10

AWE-64 Upgrades

A memory upgrade allows you to download more sound fonts onto your card.

Each memory module is supplied with SoundFont Gold on CD.
19-15-6404 4Mb memory module £29 £34.08
19-15-6408 8Mb memory module £49 £57.58

PCI range

53-15-7100 **SoundBlaster 128 PCI**
128-voice, 4-speaker support
for windows 95/98 £32 £37.60

53-15-7150 **SoundBlaster Live PCI**
Full environmental audio
Software includes Unreal & Cubasis £102 £119.85

New Product

53-15-7150
£102
(£119.85 Inc. VAT)

Sound Blaster Live PCI Sound Card



53-19-2030 **Diamond Monster 3D Sound**
Supports Microsoft Direct Sound
for Window '95. Audio playback
support for 4 speakers £65 £76.38

53-19-2050 **Sonic Impact PCI**
Next Generation sound solution
4-speaker support with 64-voice
wavetable playback £27 £31.73



53-53-1000 **Orchid Nu-Sound PCI**
Positional audio, accelerated under
Direct X. For Windows 95/98 £39 £45.83



53-97-1000 **Sonic Storm PCI**
3D positional system
HiFi quality audio with software £32 £37.60

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 £42 £49.35

82-50-2070 **SideWinder Force Feedback Pro**
Feel the force! The joystick actually
shakes in your hand as you fire! £85 £99.88

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

SideWinder Force Feedback Pro
82-50-2070
£85
(£99.88 Inc. VAT)

82-50-2030 **Freestyle Pro GamePad**
Available mid. October £POA £POA

82-50-2090 **Force Feedback Steering Wheel**
Available mid. October £POA £POA



82-91-2400 **PC Pro Joystick - 5 Fire buttons,**
analogue, adjustable handle settings £19 £22.33

82-91-2501 **PC Gamepad Pro**
Digital 10-button gamepad £29 £34.08

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 £133 £156.28

This is the Market Leader in Multimedia Kits!

In addition to the SoundBlaster PCI 128 sound card, it contains the 5x DVD-ROM (the latest DVD technology, which also works like a standard CD-ROM drive, from Creative Labs) and 4.1 Surround Sound Speakers. It also comes complete with Windows 95/98 drivers and UNREAL, one of the most popular, recent PC games.

PRODUCT LINK

CD-ROMs : see Page 20
Memory : see Pages 10 - 13

SPEAKERS

ex VAT inc VAT



57-15-0020 **CSW20 - 5 Watt RMS** £12 £14.10

57-15-0050 **CSW50 - 11Watt RMS** £24 £28.20

57-15-0100 **CSW100 (with Amplifier)**
17Watt RMS £39 £45.83

57-15-0200 **CSW200 (with Amplifier)**
23Watt RMS £69 £81.08

57-15-0350 **CSW350 (with Amplifier)**
68Watt RMS £109 £128.08

57-15-1000 **Creative 4-Point speakers**
10Watt RMS Surround Sound £65 £76.38



57-93-3105 **LCS-1024 - 10 watt** £34 £39.95



57-93-7133 **M15 - 10 watt** £38 £44.65

57-93-7135 **S5S10 Sub Woofer for M15** £59 £69.33

57-93-0515 **YST-MSW5 Sub Woofer** £45 £52.88

57-93-5525 **YST-MSW5 Sub Woofer + Speakers** £55 £64.63

57-93-7100 **YST-M100 - 20 watt 3D with tweeters** £83 £97.53



57-71-0050 **DR50/A - Headphones & Microphone,**
ideal for sound cards and modems £83 £97.53



57-50-0080 **Digital Sound System 80 - USB,**
Win98 only - available end October £135 £158.63

Superb analogue sound, superior digital sound.
Now you can enjoy high-end, home audio elegance and power on your PC. Microsoft Digital Sound System 80 uses the latest digital technology to deliver rich, crisp and clean audio. It's the only complete multimedia PC-audio package that delivers earthshaking bass and distortion-free



Digital Sound System 80
57-50-0080
£135
£158.63 Inc. VAT

SOUND CARDS, JOYSTICKS & SPEAKERS

<http://www.smc-computers.co.uk>



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



Diamond Stealth 3D series

4000 - First generation AGP graphics
The 4000 is based on the S3 ViRGE GX2 AGP chipset. With 220MHz RAMDAC & 100MHz SGRAM, it supports AGP 1x.
64-19-4002 **2Mb SGRAM** £36 £42.30
64-19-4004 **4Mb SGRAM** £29 £34.08

G460 - Second generation AGP graphics
The G460 is based on the innovative Intel 1740 chipset
64-19-4600 **8Mb SGRAM** £47 £55.23

Stealth 220 PCI
The 220 PCI is based on Rendition V2100
64-19-2200 **4Mb SGRAM** £39 £45.83

Diamond Speedstar 3D Series

The SiS 6326 chipset allows Diamond the flexibility to offer two flavours of this card. The Speedstar 3D has 2D and 3D capabilities along with MPEG-1 video acceleration. The Speedstar DVD goes even further to include TV-out functionality and full motion MPEG-2 DVD. 1280x1024 (64k colours) @ 75Hz, 1280x1024 (16.7m colours) @ 75Hz, 175MHz RAMDAC, 100MHz SGRAM. AGP only.
64-19-0131 **Speedstar 3D - 8Mb SGRAM** £32 £37.60
64-19-0132 **Speedstar DVD - 8Mb SGRAM** £37 £43.48

Diamond FireGL Series

Premium performance 2D/3D professional graphics.
1000Pro Series
Based on 3DLabs Permedia 2 graphics chip and rendering engine.
64-19-1008 **8Mb SGRAM - PCI** £79 £92.83
64-19-1108 **8Mb SGRAM - AGP** £89 £104.58

Diamond Viper Series

The NVIDIA RIVA chipset gives true 128-bit power for incredible 2D, 3D & video under Windows 95 or NT. Hardware-accelerated OpenGL, with multiple monitor support for multiple cards.
1600x1200 (64k colours), 1152x864 (16.7m colours) at 85Hz.
230MHz RAMDAC, 100MHz SGRAM.
64-19-2004 **V330 PCI - 4Mb SGRAM** £52 £61.10
64-19-2704 **V330 AGP - 4Mb SGRAM - AGP** £45 £52.88
64-19-0552 **V550 PCI - 16Mb SGRAM** £125 £146.88
64-19-0554 **V550 AGP - 16Mb SGRAM** £125 £146.88

Diamond Monster

3D add-on card which works in conjunction with your existing card.
64-19-8001 **Voodoo 3D 4Mb PCI EDO-RAM** £65 £76.38
64-19-0100 **Voodoo 3DII 8Mb PCI (no games)** £119 £139.83
64-19-0112 **Voodoo 3DII 12Mb PCI (no games)** £155 £182.13

Monster Sport - includes Formula 1 97 and World Cup 98 by EA.
64-19-0208 **Voodoo 3DII 8Mb PCI** £129 £151.58
64-19-0212 **Voodoo 3DII 12Mb PCI** £159 £186.83



Monster Sport 3D II - 8Mb

64-19-0208
£129
£151.58 Inc. VAT

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 its 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).



Matrox Millennium II

Optimized 64-bit MGA-2164W dual-ported processor, 250MHz flicker-free RAMDAC.
64-95-2008 **8Mb WRAM (Max 16Mb) for PCI** £125 £146.88
64-95-6004 **4Mb WRAM (Max 16Mb) for AGP** £102 £119.85

Matrox Millennium II WRAM PCI/AGP upgrades
64-95-0042 **4Mb upgrade** £55 £64.63
64-95-0082 **8Mb upgrade** £105 £123.38
64-95-0122 **12Mb upgrade (for 4Mb board only)** £149 £175.08

Matrox Millennium (not MII) MPEG
64-95-1036 **Media XL-MPEG board** £189 £222.08

Matrox Millennium G200

Blistering 2D and 3D - 2x AGP utilising 2 64bit channels. 250MHz.
64-95-0228 **8Mb (Max 16Mb) OEM version** £75 £88.13
64-95-0208 **8Mb (Max 16Mb) for AGP** £85 £99.88
64-95-8200 **8Mb SGRAM upgrade for above** £49 £57.58

Matrox Productiva G100

Excellent entry 2D AGP graphics performance. 230MHz.
64-95-5008 **8Mb for AGP** £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** £105 £123.38

Matrox Mystique 220 - Home & Business Series
The 64 bit MGA graphics processor is based on the award-winning Matrox Mystique, now with faster 3D facilities and improved support for larger 21" monitors.
All cards include drivers, utilities and Software MPEG.
Home Series
With Disney's Toy Story, MotorRacer and 3D Game Demo's.
64-95-2204 **4Mb SGRAM** £52 £61.10

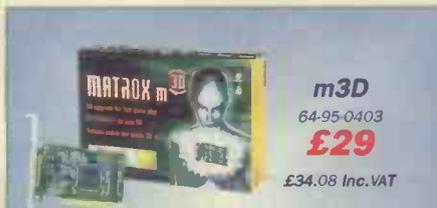
Business Series
With Netscape Navigator, Micrografx Simply 3D and Serif PagePlus.
64-95-2404 **4Mb SGRAM** £59 £69.33

Matrox Mystique 220 SGRAM upgrades (2, 4, 6Mb) are available - please ask for details.

Mystique G200
Based on the same engine as the Millennium G200, with SDRAM as standard to provide a lower-cost solution. The G200 also comes with PC to TV output along with a 230MHz RAMDAC and is upgradable to 16Mb, DVD and Rainbow Runner technology.
64-95-0218 **8Mb SDRAM AGP 2x - retail version** £95 £111.63
64-95-8201 **8Mb upgrade for above** £30 £35.25

Matrox m3D

Based on the PowerVR PCX2 processor, this card balances price with Incredible 3D gaming. Works in conjunction with your existing card.
64-95-0403 **4Mb SDRAM, includes games** £29 £34.08



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.



Orchid Righteous 3D

3D add-on card which works in conjunction with your existing card.
64-53-2030 **Voodoo3D 4Mb PCI EDO-RAM** £65 £76.38
64-53-2008 **Voodoo 3DII 8Mb PCI** £139 £163.33
64-53-2012 **Voodoo 3DII 12Mb PCI** £169 £198.58

Orchid Righteous
64-53-2030
£65
£76.38 inc VAT
(DOS/Windows 3.1x programs require accelerated drivers)



Hauppauge Win TV Cards

62-95-0105 **Win TV PCI - Plug'n'Play card** £69 £81.08
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 frames per second (limited by system specification). 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

3D Blaster Voodoo2

3D add-on card which works in conjunction with your existing card.
64-15-0208 **8Mb - PCI, with 4 games (see below)** £109 £128.08
64-15-0212 **12Mb - PCI with 4 games (see below)** £137 £160.98

3D Blaster Voodoo2
64-15-0208
£109
£128.08 Inc. VAT

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.

Graphics Blaster Exxtreme
64-15-0423
£59
£69.33 Inc. VAT

The Blaster Exxtreme is tomorrow's technology today, allowing you to indulge yourself by playing games written to Direct3D and OpenGL standards, with mind-boggling 2D, 3D and video acceleration. With resolution to 1600x1200, bilinear filtering, true transparency and polygon set-up, the degree of realism achieved has to be seen to be believed.

SALES FREEPHONES : South - 0800 013 5 333

Midlands - 0800 013 6 333

North - 0800 013 7 333

Scotland - 0800 013 8 333

FAX : 01753 524443



SALES LINES OPEN : MONDAY TO FRIDAY : 8.30am - 6.30pm SATURDAY : 9am - 1pm

THE BEST YOU'LL GET

For Customer Care and Switchboard Hotlines see Page 2

GRAPHICS CARDS

ex VAT inc VAT



3D Graphics Cards - PCI

OEM packs

64-97-0302	Charger - 2Mb	£21	£24.68
64-97-0304	Charger - 4Mb	£27	£31.73
64-97-0604	XPERT @ Play - TV Out, 4Mb	£49	£57.58
64-97-0608	XPERT @ Play - TV Out, 8Mb	£65	£76.38
64-97-0504	XPERT @ Work - 4Mb	£39	£45.83
64-97-0508	XPERT @ Work - 8Mb	£55	£64.63
64-97-0704	All-in-Wonder Pro - 4Mb	£94	£110.45
64-97-0708	All-in-Wonder Pro - 8Mb	£109	£128.08
64-97-1408	TV TUNER - fits all cards	£47	£55.23

Retail packs with 3D software titles

64-97-1604	XPERT @ Play TV Out, 4Mb	£69	£81.08
64-97-1608	XPERT @ Play TV Out, 8Mb	£85	£99.88
64-97-1504	XPERT @ Work - 4Mb	£59	£69.33
64-97-1508	XPERT @ Work - 8Mb	£75	£88.13
64-97-1714	All-in-Wonder Pro - 4Mb	£105	£123.38
64-97-1718	All-in-Wonder Pro - 8Mb	£121	£142.18

3D Graphics Cards - AGP

OEM packs

64-97-0614	XPERT @ Play - TV Out, 4Mb	£53	£62.28
64-97-0618	XPERT @ Play - TV Out, 8Mb	£69	£81.08
64-97-0514	XPERT @ Work - 4Mb	£43	£50.53
64-97-0518	XPERT @ Work - 8Mb	£59	£69.33
64-97-9808	XPERT 98 - 8Mb	£39	£45.83
64-97-1704	All-in-Wonder Pro - 4Mb	£98	£115.15
64-97-0718	All-in-Wonder Pro - 8Mb	£113	£132.78

Retail packs with 3D software titles

64-97-9818	XPERT 98 - 8Mb	£53	£62.28
64-97-1704	All-in-Wonder Pro - 4Mb	£109	£128.08
64-97-1708	All-in-Wonder Pro - 8Mb	£124	£145.70

We can also supply 4Mb SGRAM upgrades for ATI graphics cards.

GRAPHICS CARDS

ex VAT inc VAT



Express 3D

64-31-0204	4Mb AGP	£58	£68.15
64-31-0208	8Mb AGP	£63	£74.03



Grafixstar

64-97-1411	410 - S3 Trio64V2, 1Mb EDO DRAM	£22	£25.85
64-97-0242	560 PCI - 4Mb	£35	£41.13
64-97-0249	560 AGP - 4Mb	£35	£41.13
64-97-0261	600 Pro PCI - 2Mb	£49	£57.58

Apocalypse

3Dx - 4MB SDRAM PCI			
64-97-0287	Value Pack	£35	£41.13
64-97-0213	Retail Pack	£51	£59.93
5D - 6MB SDRAM PCI			
64-97-0265	5D - ET6100, 128-bit processor	£59	£69.33

Apocalypse 5D 6Mb version
64-97-0265
£59
(£69.33 inc VAT)

With SDRAM texture memory and the NEC PowerVR 3D processor, the **Apocalypse 5D** has 400% more bandwidth than 64-bit DRAM cards, delivering stunning 3D realism and lightning fast 2D graphics. It runs MS DirectX, Windows 95 Direct3D and also comes with five of the best 3D games.

INTERNET VIDEO

ex VAT inc VAT

Creative Labs

64-15-0162	WebCam 2		
	Requires Windows 95	£59	£69.33

Intel

63-31-1000	Create & Share PCI		
	With PCI capture card	£159	£186.83
63-31-1500	Create & Share USB		
	With USB connector.		
	Requires Windows98/95OSR2	£105	£123.38

Pace

63-91-0300	Pace PCI		
	With PCI capture card	£69	£81.08
63-91-0100	Pace USB		
	With USB connector.		
	Requires Windows98/95OSR2	£69	£81.08

LIVE VIDEO OVER THE INTERNET

Creative Labs Video Blaster WebCam

gives you everything you need to capture, create and communicate with live full colour video on the internet. It's capable of live video capture with 16.7million colours, and supports AVI and e-mail.



Affordable and easy-to-use, it plugs into your printer port and works with your existing modem so you'll be up and running with live video from your own PC in minutes.

The All-In-Wonder Pro is the board that does it all! In addition to the XPERT@Play package, ATI-TV is provided so you can add TV reception and video capture/editing features to your PC. You can schedule viewing, play a TV channel as your desktop background, receive Teletext and save captured images to hard disk. There's even a Parental Control function so user-selected TV channels can be password locked. The All-In-Wonder Pro converts your PC to a high-end Multimedia machine while only taking up one PCI or AGP slot - adding compactness to its impressive list of features.



All-in-Wonder Pro

4MB from **£94**
£110.45 inc.VAT

8MB from **£109**
£128.08 inc.VAT

The fastest all-in-one TV, video and graphics upgrade

XPERT 98
8MB from **£39**
£45.83 inc.VAT
The best value, mid-range 3D/2D and video accelerator



The XPERT 98 is the latest member of ATI's award-winning XPERT family of graphics accelerators. Experience Incredible 3D, 2D and DVD picture-quality video acceleration in Windows 98 and 95 at an incredible price. Featuring ATI's powerful RAGE PRO TURBO technology and 8MB of memory, the XPERT 98 delivers captivating graphics with superior 3D, 2D and motion video support in one complete package. Best of all, XPERT 98 is available in a fully-implemented AGP 2X version. Is Windows 98 ready and supports ATI-TV, the add-on TV Tuner card.

The XPERT@ range is not just a 3D upgrade. All products are high-end graphics boards with stunning performance for 2D, 3D and video acceleration. Not only do they incorporate AGP technology and the ATI 3D RAGE PRO accelerator, but reliability and compatibility are key components in the development of all ATI products. And don't forget the future! Using ATI's dedicated AMC feature connector, new technologies like ATI-DVD and ATI-TV are just a plug 'n' play upgrade away. The XPERT@Play is designed as the best graphics board for gamelans. Connect to a large TV screen for maximum games immersion, or to a VCR to record games or output edited video. Software includes Formula 1, Terracide and 3D Web Browser WIRL. The XPERT@Work has been developed for demanding PC users, and with resolution to 1600x1200 and refresh up to 200Hz, it gives faster performance and greater efficiency for professional applications. Software includes Extreme 3D, Photosuite and Web Browser WIRL.



XPERT@Play
from **£49**
£57.58 inc.VAT

Extreme 3D, 2D and video acceleration with TV-out

XPERT@Work
from **£39**
£45.83 inc.VAT

Powerful graphics acceleration for business



Now You See It

GRAPHICS CARDS & INTERNET VIDEO

<http://www.smc-computers.co.uk>



A quick guide to Monitor sizes

14" - Ideal for business workstation use (eg word processing, database, spreadsheet) and basic games.

15" - Better for applications involving more graphics such as Internet use and higher resolution games.

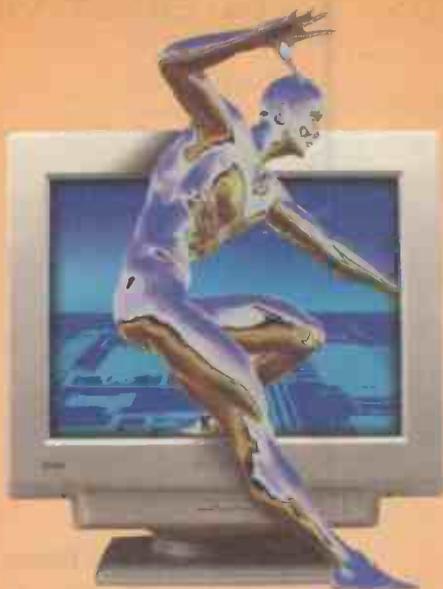
17" - Primarily graphics use such as 3D modelling.

21" - Intensive graphics use, Including CAD and Desktop Publishing (Including the production of this catalogue !)

Monitor screen sizes are traditionally specified in terms of the size of the glass Cathode Ray Tube (CRT), but viewable screen sizes will vary depending on how much of the CRT extends beyond the monitor casing.

LCD screen sizes are usually quoted as the actual visible size.

MONITORS



Iiyama Monitors

All Iiyama monitors now have a 3-year warranty, with the first year on-site.

Part No	Model	Size	Dot Pitch	Max.Res	ex VAT	inc VAT
68-93-9153	MF-8515G	15"	.28mm	1280x1024	£139	£163.33
68-93-4010	S-701GT	17"	.26mm	1600x1200	£285	£334.88
68-93-4011	S-702GT	17"	.26mm	1600x1200	£229	£269.08
68-93-9175	MF-8617ES	17"	.26mm	1280x1024	£349	£410.08

(The MF-8617ES has built-in stereo speakers)

68-93-4016	A-701GT	17"	.25mm grille	1600x1200	£315	£370.13
68-93-1901	S-901GT	19"	.27mm	1600x1200	£399	£468.83

Limited Offer - All 21" Monitors supplied by SMC come with 3 Year on-site Included.

68-93-5010	S-101GT	21"	.27mm	1600x1200	£679	£797.83
68-93-5016	A-101GT	21"	.28mm grille	1600x1200	£679	£797.83
68-93-5020	S-102GT	21"	.27mm	1800x1440	£699	£821.33
68-93-5026	A-102GT	21"	.28mm grille	1800x1440	£719	£844.83

Resistive Touch Screen Monitors (for Windows 95) Experience the Power of Touch

68-93-1500	TS15	15" based on MF-8515G			£535	£628.63
68-93-1700	TS17	17" based on MF-8617T			£685	£804.88
68-93-2100	TS21	21" based on MT-9221T			£1185	£1392.38

PROLITE - Flat panel screen

68-93-3601	ProLite 3601	14.1" Analogue LCD		1024x768	£575	£675.63
68-93-3602	ProLite 3602	14.1" Analogue LCD		1024x768	£765	£898.88
68-93-3811	ProLite 3811	15" Analogue LCD		1024x768	£765	£898.88
68-93-3821	ProLite 3821	15" Analogue LCD		1024x768	£795	£934.13

Iiyama Vision Care (Extended Warranty Options)

68-93-9903	LCD ProLite 36				£30	£35.25
68-93-9916	15" MF-8515G				£15	£17.63
68-93-9917	17" MF-8617T/ES & MT-9017T				£25	£29.38
68-93-9919	19" S-901GT				£30	£35.25
68-93-9921	21" S-101GT,A-101GT,S-102GT,A-102GT				£35	£41.13

Warranties are upgradable 3 Year On-Site next day swap-out.

Only available at time of purchase of monitor.

Premier authorized reseller
award for excellence



Vision Master

open day '97

Iiyama have over 20 years experience in manufacturing monitors in Japan and across the world. Since the UK office has been established they have won 44 leading computer magazine awards for technical excellence, display quality and value for money - a unique achievement.

In turn, SMC have won Iiyama's award to establish themselves as Premier Authorised Reseller for Service Excellence.

The current range extends from a high quality 15" FST Monitor all the way through to a professional series 21" FST Monitor. We can provide the Iiyama Vision Master ProLite 36, a 14.1" TFT flat panel LCD, offering full colour at resolution of 1024x768 ! Through a partnership between Iiyama UK and MicroTouch UK, SMC are also able to provide a range of touchscreen monitors which are based on the popular Vision Master series, each utilising MicroTouch ClearTek capacitive technology.

ViewSonic Monitors

All ViewSonic Monitors are supplied with a FREE 3 Year Express Exchange Warranty.

Part No	Model	Size	Dot Pitch	Max.Res	ex VAT	inc VAT
The Economy Series						
68-99-1114	E641	14"	.28mm	1024x768	£95	£111.63
68-99-1115	E655	15"	.28mm	1280x1024	£125	£146.88
68-99-1117	E771	17"	.27mm	1280x1024	£255	£299.63

The Graphics Series						
68-99-3715	G653	15"	.28mm	1280x1024	£135	£158.63
68-99-3655	GA655	15"	.27mm	1280x1024	£185	£217.38
68-99-3515	15GA	15"	.27mm	1280x1024	£179	£210.33
68-99-3771	G771	17"	.27mm	1280x1024	£295	£346.63
68-99-3917	GA771	17"	.27mm	1280x1024	£325	£381.88
68-99-3617	GS771	17"	.27mm	1280x1024	£305	£358.38
68-99-3517	G773	17"	.26mm	1280x1024	£315	£370.13
68-99-3717	GT775	17"	.25mm grille	1600x1280	£365	£428.88
68-99-3790	G790	19"	.27mm	1600x1280	£485	£569.88
68-99-3800	G800	20"	.28mm	1600x1280	£635	£746.13

The Professional Series						
68-99-5115	P655	15"	.27mm	1280x1024	£145	£170.38
68-99-5117	P775	17"	.25mm	1600x1280	£365	£428.88
68-99-5217	PT775	17"	.25mm grille	1600x1280	£405	£475.88
68-99-5790	PS790	19"	.25mm	1600x1280	£525	£616.88
68-99-5121	P810	21"	.25mm	1600x1280	£745	£875.38
68-99-5321	PT813	21"	.28mm	1600x1280	£695	£816.63
68-99-5815	P815	21"	.25mm	1800x1440	£875	£1028.13

The LCD Series						
68-99-7138	VPA138	13.8"	n/a	1024x768	£615	£722.63
68-99-7140	VPA140	14"	n/a	1024x768	£675	£793.13
68-99-7145	VPA145	14.5"	n/a	1024x768	£795	£934.13
68-99-7151	VPA150	15"	n/a	1024x768	£845	£992.88
68-99-7150	VPA150	15"	n/a	1024x768	£975	£1145.63





Which printer to buy ?

A good place to start when selecting a printer is to apply the "3D test"

DPI : This is the number of dots per inch. 600dpi gives about the best quality : beware of higher densities which may be subject to image degradation through ink saturation.

Dots : the size and shape of the ink dots is just as important. Many people opt for HP's unique PhotoREt II process which produces smaller, rounder dots which are overlaid to produce the broadest range of colours possible.

Delivery : Consider the printer's speed of operation, measured in pages per minute (ppm). Remember that saving money by selecting a slower speed will be very frustrating if the printer is unable to keep up with the volume of work !

INKJET PRINTERS

INKJET PRINTERS

		ex VAT	inc VAT			ex VAT	inc VAT			ex VAT	inc VAT
Hewlett Packard				Canon				Epson			
Deskjet Printers				Printers				Stylus Printers			
99-28-5042	400L - 600x300dpi, 3ppm	£66	£77.55	99-91-5030	BJ30 (cream) - 720x360dpi, 1.7ppm	£124	£145.70	99-93-5130	Color 300 - 720dpi, 3ppm	£76	£89.30
99-28-2642	420C - 600x300dpi, 3ppm	£66	£77.55	99-91-5050	BJC50 - 720x360dpi, 5.5ppm	£197	£231.48	99-93-5144	Color 440 - 720dpi, 4ppm	£103	£121.03
99-28-5067	670C - 600dpi, 4ppm	£96	£112.80	99-91-5080	BJC80 - 720x360dpi, 3ppm	£142	£166.85	99-93-5164	Color 640 - 1440dpi, 6ppm	£133	£156.28
99-28-5890	690 - 600dpi, 5ppm	£96	£112.80	99-91-5280	BJC80 + Scanner			99-93-5174	Color 740 - 1440dpi, 6ppm	£177	£207.98
99-28-5068	690C+ - 600dpi, 5ppm	£126	£148.05		720x360dpi, 3ppm	£185	£217.38	99-93-5180	Color 800 - 1440dpi, 8ppm	£207	£243.23
99-28-5894	710C - 600dpi, 6ppm	£134	£157.45	99-91-5250	BJC250 - 720x360dpi, 3ppm	£73	£85.78	99-93-5185	Color 850 - 1440dpi, 9ppm	£207	£243.23
99-28-5870	720C - 600dpi, 8ppm	£156	£183.30	99-91-5620	BJC620 - 720dpi, 1.87-2.14ppm	£165	£193.88	99-93-5252	Color 1520 - 1440dpi, 800cps LQ, A3	£451	£529.93
99-28-5089	890C - 600dpi, 9ppm	£202	£237.35	99-91-6430	BJC4300 - 720x360dpi, 4.5ppm	£92	£108.10	99-93-5191	Photo - 720dpi, 1ppm	£147	£172.73
99-28-0110	1100C - 600dpi, 6.5ppm, A3	£247	£290.23	99-91-6430	BJC4650 - 720x360dpi, 4.8ppm, A3	£199	£233.83	99-93-0700	Photo 700 - 1440dpi, 2ppm	£163	£191.53
99-28-2678	1120C - 600dpi, 6.5ppm, A3	£285	£334.88	99-91-6465	BJC4650 + Scanner			99-93-5195	Photo EX - 1440dpi, 9ppm, A3	£308	£361.90
99-28-5160	1600C - 600dpi, 8ppm	£871	£1023.43	99-91-6550	720x360dpi, 4.8ppm, A3	£239	£280.83	99-93-5500	Color 3000 - 1440dpi, A2	£1118	£1313.65
99-28-5168	1600CM - 600dpi, 8ppm			99-91-6700	BJC5500 - 360dpi, 0.8ppm, max A2	£409	£480.58	99-93-5500	Pro 5000 - 1440dpi, A3	£1587	£1864.73
99-28-4530	Network & Postscript ready	£1280	£1504.00		4.5ppm, max 550gsm	£179	£210.33				
99-28-5901	2000C - 600dpi, 10ppm	£450	£528.75								
	2000CN - 600dpi, 10ppm, Network ready	£675	£793.13								
Ink Cartridges				Ink Cartridges				Ink Cartridges			
96-28-5030	HP51633M			96-91-5000	BC22 - BJC4550, 4200 Photo cart.	£26	£30.55	96-93-8220	S020034 - Pro/Pro XL Black	£10	£11.75
	310/320/340/DW310, 320, 340	£15	£17.63	96-91-5010	BC01 - BJ10E, BJ20 Black	£14	£16.45	96-93-8229	S020036 - Pro/Pro XL Colour	£21	£24.68
96-28-5060	HP51629A			96-91-5020	BC02 - BJ200, BJ230 Black	£14	£16.45	96-93-8209	S020049 - 820/200/Color IIs/II/200 Black	£19	£22.33
	600/660C/690C/DW600, 660C	£18	£21.15	96-91-5023	BC09F - BJ210, BJ240, BJ250 Fluoresc.	£16	£18.80	96-93-8249	S020066 - Pro XL+ Colour	£21	£24.68
96-28-5069	HP51649A			96-91-5026	BC06 - BJC240 Photo cart.	£15	£17.63	96-93-8009	S020089		
	600/660C/690C/DW600, 660C	£19	£22.33	96-91-5030	BC05 - BJC240 Colour	£18	£21.15	96-93-4000	Color 400/600/800/850/1520 Color	£16	£18.80
96-28-1816	HPC1816A - 690C Photo cart.	£21	£24.68	96-91-5040	BC10 - BJC80 Black	£22	£25.85	96-93-8000	Color 400/500/600/Photo Black	£14	£16.45
96-28-5039	HP51625A - 400L/550/560 Tri-colour	£19	£22.33	96-91-5041	BC11E - BJC80 Black	£29	£34.08	96-93-8005	S020108 - 800/850/1520 Black	£16	£18.80
96-28-5080	HP51645A			96-91-5060	BC1201BKHC - BJC600E Black	£6	£7.05	96-93-0118	S020110 - Photo 5-colour pack	£13	£15.28
	820Cxi/850C/870Cxi/890C/1600C/CM	£18	£21.15	96-91-5063	BC1201C - BJC600E Cyan	£6	£7.05	96-93-0118	S020118 - 3000/5000 Black	£33	£38.78
96-28-5089	HP51641A - 820Cxi/850C/870Cxi	£19	£22.33	96-91-5065	BC1201M - BJC600E Magenta	£6	£7.05	96-93-0122	S020122 - 3000/5000 Yellow	£33	£38.78
96-28-5120	HP51640A - 1200C/1200C PS	£16	£18.80	96-91-5067	BC1201Y - BJC600E Yellow	£6	£7.05	96-93-0126	S020126 - 3000 Magenta	£33	£38.78
96-28-5123	HP51640C			96-91-5080	BC1643BK - BJC800 Black	£13	£15.28	96-93-0130	S020130 - 3000 Cyan	£33	£38.78
	1200C/1200C PS/1600C/1600CM	£21	£24.68	96-91-5083	BC1643C - BJC800 Cyan	£17	£19.98	96-93-0138	S020138 - 300 4-colour	£14	£16.45
96-28-5125	HP51640M			96-91-5085	BC1643M - BJC800 Magenta	£17	£19.98	96-93-0143	S020143 - 5000 Magenta	£33	£38.78
	1200C/1200C PS/1600C/1600CM	£21	£24.68	96-91-5087	BC1643Y - BJC800 Yellow	£17	£19.98	96-93-0147	S020147 - 5000 Cyan	£33	£38.78
96-28-5127	HP51640Y			96-91-5404	BC20 - BJC4000 Black	£22	£25.85	96-93-0187	S020187 - 440/640 Colour	£16	£18.80
	1200C/1200C PS/1600C/1600CM	£21	£24.68	96-91-5405	BC20 - BJC4000, BJ5500 Fluoresc.	£23	£27.03	96-93-0191	S020191 - 440/640/740 Colour	£19	£22.33
96-28-1823	HPC1823A - 890C	£22	£25.85	96-91-5409	BC20 - BJC4000 Black/Colour pack	£27	£31.73				
HP 3-year On-Site Support Packs								Epson Cover Plus Support Packs			
99-28-9461	H5461A - 400L, 670C, 690C+, 720C, 1100C, 1120C	£35	£41.13					3 Year on-site, with an 8-hour response time.			
	H5465A - 890C	£66	£77.55					99-93-0018	Group 1 - 200, Color 200	£40	£47.00
99-28-9464	H5473A - 1600C Series	£105	£123.38					99-93-0028	Group 2 - Color 400/600/800	£65	£76.38
99-28-9473	H5475A - 2000 Series	£140	£164.50					99-93-0038	Group 3 - 1000	£99	£116.33
99-28-9475								99-93-0058	Group 5 - 1520	£199	£233.83
								99-93-0068	Group 6 - Pro XL+	£259	£304.33

Hewlett Packard DeskJet printers

HP InkJet printers can enable you express your creativity in as many ways as you can imagine. You can be sure that whichever InkJet printer you choose, it will help you get the job done in style.

Deskjet 420C

99-28-2642

£66

£77.55 inc.VAT



The affordable friend that makes a great first printer! Giving both colour and black & white printing. It is ready to handle correspondence and fun projects right out of the box.

The flexible partner that gives you great results with no hassle. Fast and quiet, the 710C also prints photos without changing cartridges.

Deskjet 710C

99-28-5894

£134

£157.45 inc.VAT



The professional consultant that lets you get down to business with breakthrough colour printing speed. For network use, choose the CN option to get a print server and 250-sheet accessory paper tray added to the package.

HP 2000C

99-28-4530

£450

£528.75 inc.VAT

Epson Stylus Color 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

EPSON®

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Midlands - 0800 013 6 333

North - 0800 013 7 333

Scotland - 0800 013 8 333

FAX : 01753 524443

SALES LINES OPEN : MONDAY TO FRIDAY : 8.30am - 6.30pm SATURDAY : 9am - 1pm

For Customer Care and Switchboard Hotlines see Page 2



THE BEST YOU'LL GET

LASER PRINTERS & ALL-IN-ONE

LASER PRINTERS

ex VAT inc VAT

Hewlett Packard

Laserjet Printers

[N] - Network ready [PS] - Postscript Level II

A4 Printers

99-28-7570	5 Colour 1200dpi, 10ppm	£2460	£2890.50
99-28-7575	5M Colour 1200dpi, 10ppm [N] [PS]	£3095	£3636.63
99-28-7610	6L 600dpi, 6ppm	£232	£272.60
99-28-7650	6P 600dpi, 8ppm	£461	£541.68
99-28-7631	6MP 600dpi, 8ppm [PS]	£562	£660.35
99-28-4118	4000 1200dpi, 16ppm [PS]	£711	£835.43
99-28-4119	4000T 1200dpi, 16ppm [PS]	£714	£838.95
99-28-4120	4000N 1200dpi, 16ppm [N] [PS]	£914	£1073.95
99-28-4121	4000TN 1200dpi, 16ppm [N] [PS]	£990	£1163.25
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] IGB H/Drive	£1649	£1937.58
99-28-7555	5S1 600dpi, 24ppm	£1604	£1884.70
99-28-7565	5SiNX 600dpi, 24ppm [N]	£1784	£2096.20
99-28-7560	5SiMX 600dpi, 24ppm [N] [PS]	£2211	£2597.93
99-28-4085	8000 1200dpi, 24ppm [PS]	£1604	£1884.70
99-28-4086	8000N 1200dpi, 24ppm [N] [PS]	£1791	£2104.43
99-28-4087	8000DN 1200dpi, 24ppm [N] [PS] Duplex (two-sided printing)	£2099	£2466.33

Laser Toner

96-28-7413	HP922724A - 4L/4P/4ML/4MP	£42	£49.35
96-28-7313	HP922725A - IIP/IIIP/IIIPplus	£49	£57.58
96-28-7354	HP92291A - IIIS/4Si/4Si MX	£72	£84.60
96-28-7230	HP92295A - IID/IIID	£45	£52.88
96-28-7434	HP92298A - 4/4M/4+4M+/5/5N/5M/54	£63.45	£75.88
96-28-7451	HPC3900A - 4V/4MV	£85	£99.88
96-28-7551	HPC3903A - 5P/5MP/6P/6MP	£45	£52.88
96-28-7515	HPC3906A - 5L/6L	£36	£42.30
96-28-4127	HPC4127A - 4000	£52	£61.10
96-28-0412	HPC4127X - 4000 Long life	£77	£90.48
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 - 5Si MX/NX	£530	£622.75
99-28-9500	H5500A - 5L, 6L	£67	£78.73
99-28-9501	H5501A - 5/5M Colour	£619	£727.33

Canon

Printers

99-91-7173	LBP1260+ - 600dpi, 12ppm	£619	£727.33
99-91-1760	LBP1760 - 600dpi, 17ppm	£645	£757.88

Laser Toner

96-91-5500	EP-E - LBP1260+	£55	£64.63
96-91-5552	EP-52 - LBP1760	£80	£94.00

Epson

Printers

99-93-7570	EPL5700 - 600dpi, 8ppm	£304	£357.20
99-93-7120	EPL-N1200 - 600dpi, 12ppm	£523	£614.53
99-93-7200	EPL-N2000 - 600dpi, 20ppm A4, 11ppm A3	£959	£1126.83
99-93-7201	EPL-2000PS - 600dpi, 20ppm	£1139	£1338.33

Laser Toner

96-93-1016	S051016 - 5600/N1200 toner	£65	£76.38
96-93-1035	S051035 - N2000 Series toner/drum/£117	£117	£137.48

Brother

Printers

99-90-7301	HL730 Plus - 600dpi, 6ppm	£205	£240.88
99-90-0076	HL760 - 600dpi, 6ppm	£229	£269.08
99-90-7605	HL760 - 600dpi, 6ppm, 5MB	£245	£287.88
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
99-90-0126	HL1260 - 600dpi, 12ppm	£599	£703.83

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
99-93-9101	OL101 - 600x1200dpi, 10ppm	£359	£421.83
99-93-9201	OL20N - 600x1200dpi, 20ppm	£729	£856.58
99-93-9205	OL20N/PS - 600x1200dpi, 20ppm, Postscript	£899	£1056.33

Laser Toner

96-93-5136	OKI5136 - OL20,20N/PS	£23	£27.03
96-93-5122	OKI5122 - OL10	£14	£16.45
96-93-4851	OKI4851 - OL6,6EX	£14	£16.45

DOT MATRIX PRINTERS

ex VAT inc VAT

Epson

99-93-0131	LX300 - 80 columns, 9 pin, 264cps, 4Kb Buffer	£97	£113.98
99-93-0137	LX1050+ - 136 columns, 9 pin, 240cps, 4Kb Buffer	£153	£179.78
99-93-0880	FX880 - 80 columns, 9 pin, 455cps, 32Kb Buffer	£247	£290.23
99-93-0118	FX1180 - 136 columns, 9 pin, 455cps	£315	£370.13
99-93-0139	FX2170 - 136 columns, 18 pin, 440cps, 64Kb Buffer	£395	£464.13
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	£468	£549.90

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

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



LaserJet 5000

99-28-4110

£929

£1091.58 inc.VAT

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.

HP ALL-IN-ONE

ex VAT inc VAT

99-28-3590	OfficeJet 590 Colour Inkjet Printer/Copier/Scanner mono fax/300dpi optical scanner	£289	£339.58
99-28-5317	OfficeJet 635 Colour Inkjet Printer/Copier/Scanner 300dpi optical 24bit colour scanning mono fax	£339	£398.33
99-28-3050	OfficeJet Pro 1150C Colour Inkjet Printer/Copier/Scanner 300dpi optical 24bit colour scanning	£425	£499.38
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



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

http://www.smc-computers.co.uk



Printer resolution, Film Scanners and Digital Camera technology

Just a few years ago the standard resolution for high-quality printing was 300dpi (dots per inch). Now there are printers with resolutions up to 1440dpi for quality that's so good it's virtually impossible to tell apart from a photo. With the recent emergence of Digital Cameras and Film Scanners the process of film development can be removed, not only saving time and money, but enabling greater flexibility in use and, ultimately, quality of presentation. Flatbed scanners have also moved on tremendously, we now offer UMAX scanners, Epson and Logitech through to the new

SCANNERS & FILM SCANNERS

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	£135	£158.63

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	£303	£356.03
97-93-0235	Advanced Photo System (APS) Holder Film cartridge holder for batch scanning	£75	£88.13

HEWLETT PACKARD

97-28-5107	PhotoSmart Photo Scanner 35mm-5"x7" photo, 35mm negative or slide scanner	£318	£373.65
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Epson FilmScan 200

97-93-0201 **£303** £356.03 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 Scrolling 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 HEWLETT PACKARD

HP A4 scanners are all supplied with software & OCR

97-28-0050	ScanJet 5S - 600/300dpi, 24-bit colour, pass-thru sheet feed, Parallel Port Interface with cable	£129	£151.58
97-28-5100	ScanJet 5100C - 1200/300dpi, 24-bit colour, Parallel Port interface with cable	£149	£175.08
97-28-6100	ScanJet 6100C - 2400/600dpi, 30-bit colour, with 35mm adaptor, ISA SCSI controller card & cable	£420	£493.50
97-28-6297	ScanJet 4100C - 600dpi HSS * 36-bit colour, USB/W98 only	£116	£136.30
97-28-6277	ScanJet 6200C - 1200dpi HSS * 36-bit colour, USB/W98 or SCSI	£237	£278.48
97-28-6278	ScanJet 6250C - 1200dpi HSS * 36-bit colour, USB/W98 or SCSI with document feeder	£277	£325.48

* HSS (Hardware Super Sampling) is a breakthrough technology that improves image quality in areas such as fine detail, enlargements over 400% and half-toned originals.

HP 3-year On-Site Support Packs

99-28-9464	H5465A - ScanJet 5S, 5100C	£66	£77.55
99-28-9470	H5470A - ScanJet 6100C	£102	£119.85
99-28-94XX	H54XXA - ScanJet 4100C	£POA	£POA
99-28-94XX	H54XYA - ScanJet 6200C	£POA	£POA
99-28-94XX	H54XZA - ScanJet 6250C	£POA	£POA

EPSON

GTX Range

A4 scanners (Inc. Adobe Photoshop LE, Caere OmniPage LE OCR)

Parallel Port interface - supplied with Parallel cable			
97-93-0957	GTX9500/P - 2400/600dpi, 36-bit colour	£446	£524.05
SCSI interface - with ISA SCSI controller card & cable			
97-93-0553	GTX5500/S - 1600/400dpi, 30-bit colour	£159	£186.83
97-93-0953	GTX9500/S - 2400/600dpi, 36-bit colour	£469	£551.08

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



Parallel port Interface, complete with scanning software and OCR.

97-97-0606	Scanman Color 2000 W95/98 400dpi, 24-Bit colour handheld,	£45	£52.88
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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

ex VAT inc VAT

Software supplied :- Adobe PhotoDeluxe, VistaScan, PageManager, PhotoAlbum LE, Caere OmniPage LE and Recognita OCR & are compatible with Win95 & Win98.

Astra 610 Series

97-81-0610	610p Parallel Port	£59	£69.33
97-81-0611	610s SCSI	£89	£104.58

Astra 1220 Series

97-81-1200	1220p Parallel Port	£109	£128.08
97-81-1201	1220s SCSI	£219	£257.33
97-81-1205	1220u USB	£149	£175.08



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

SALES FREEPHONES : South - 0800 013 5 333
 Midlands - 0800 013 6 333
 North - 0800 013 7 333
 Scotland - 0800 013 8 333



FAX : 01753 524443

SALES LINES OPEN : MONDAY TO FRIDAY : 8.30am - 6.30pm SATURDAY : 9am - 1pm

THE BEST YOU'LL GET

For Customer Care and Switchboard Hotlines see Page 2

DIGITAL CAMERAS

OLYMPUS

ex VAT inc VAT

Olympus has used its renowned optical expertise to develop high resolution lenses that push the CCD's performance to the max! All cameras feature auto focus, built-in flash, 12s self timer & a TTL viewfinder. Supplied with interface cables & PhotoSoap software.

98-91-0420	C-420L 640x480 pixels (HQ/SHQ mode), 2Mb memory 350,000 pixel CCD	£255	£299.63
98-91-0820	C-820L 1024x768 pixels (HQ/SHQ mode), 2Mb memory 810,000 pixel CCD, LCD monitor, on-screen display Soft case	£425	£499.38
98-91-0840	C-840L 1280x960 pixels (HQ/SHQ mode), 4Mb memory 1.3million pixel CCD, LCD monitor, digital zoom 36-72mm) Photoalbum software	£509	£598.08
98-91-1400	C-1400L 1280x1024 pixels (Super HQ/HQ mode), 2x 4Mb memory, 1,410,000 pixel CCD, LCD monitor, on-screen display, 3x Zoom (36-110), Auto focus, Soft case, Battery charger kit	£849	£997.58
70-91-0006	C-6AG mains adaptor for complete range	£59	£69.33
19-91-0102	M-2PE 2Mb Smartmedia Memory Card	£29	£34.08
19-91-0104	M-4PE 4Mb Smartmedia Memory Card	£39	£45.83
19-91-0108	M-8PE 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.	£295	£346.63
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	£389	£457.08

SONY

98-71-0051	Mavica FDS1 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



HEWLETT
PACKARD

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
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UMAX

98-81-0100	DC-F1 Camera 1920 x 1600 30-bit, 800,000 pixels, 2MB memory, built-in flash. Software, cables supplied.	£279	£327.83
98-81-0150	240 mains adaptor	£15	£17.63

PHOTO PRINTERS

OLYMPUS

ex VAT inc VAT

Olympus digital printers support either parallel or direct printing. A cable and software are supplied for PC and MAC. Dye sublimation produces a higher quality image through lower resolution over standard printing.

P-300E			
99-91-0300	1376x1024, 16.7m colours using dye sublimation (306Dpi). Ideal for C-420L/820L/1400L Camera	£399	£468.83
96-91-6060	P-60N A6 paper for P-300E Printer (x60)	£42	£49.35
26-91-3305	MA-1CE PCMCIA adaptor (3.3 & 5v) for faster downloads	£72	£84.60
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	£12	£14.10

EPSON

This product is supplied with cables and software. It is an external SCSI device that supports 35mm negatives and slides at 2400dpi and Photos at 300 dpi, 30 bit colour.

99-93-5191	Epson Stylus Photo 720Dpi, 4"x6" - A4, 1ppm	£147	£172.73
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UMAX DC-F1 Ultra High Resolution Camera

98-81-0100

£279

£327.83 inc. VAT



- 800,000 pixel CMOS sensor
- High quality images (1920x1600x30bit)
- JPEG compression
- Integrated automatic electronic flash
- 2Mb removable Flash Memory
- Sound recording facility (max. 20 secs)
- Bundled software

UMAX

PRODUCT LINK

Inkjet Printers : See Page 31
Film Scanners : See Page 32



Olympus C-420L

98-91-0420

£255

£299.63 inc. VAT



Olympus C-1400L

98-91-1400

£849

£997.58 inc. VAT



DIGITAL CAMERAS

http://www.smc-computers.co.uk

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)

Product Code	Description	ex VAT	inc VAT
84-90-0931	3C509B-TP AUI/RJ45	£36	£42.30
84-90-0933	3C509B-TP AUI/RJ45 - 5pack	£156	£183.30
84-90-0935	3C509B-TP AUI/RJ45 - 20pack	£612	£719.10
84-90-0951	3C509B-Combo BNC/AUI/RJ45	£69	£81.08
84-90-0953	3C509B-Combo BNC/AUI/RJ45 - 5pack	£309	£363.08
84-90-0955	3C509B-Combo BNC/AUI/RJ45 - 20pack	£1125	£1321.88
PCI - 10Mb/s (Fast Etherlink XL)			
84-90-1900	3C900-TPO RJ45	£33	£38.78
84-90-5900	3C900-TPO RJ45 - 5pack	£155	£182.13
84-90-2900	3C900-TPO RJ45 - 20pack	£579	£680.33
84-90-9951	3C900-Combo BNC/AUI/RJ45	£75	£88.13
84-90-9953	3C900-Combo BNC/AUI/RJ45 - 5pack	£348	£408.90
PCI - 100Mb/s (Fast Etherlink XL)			
84-90-1905	3C905-TX UTP	£54	£63.45
84-90-5905	3C905-TX UTP - 5pack	£255	£299.63
84-90-2905	3C905-TX UTP - 20pack	£949	£1115.08
EISA (Etherlink III)			
84-90-9251	3C592-Combo BNC/AUI/RJ45	£125	£146.88
MCA (Fast Etherlink III)			
84-90-2911	3C529 BNC/AUI	£129	£151.58
84-90-2931	3C529-TP BNC/AUI/RJ45	£88	£103.40
PCMCIA - 10Mb/s (Fast Etherlink III)			
84-90-1589	3C589D-TP RJ45	£77	£90.48
84-90-5589	3C589D-TP RJ45 - 5pack	£355	£417.13
84-90-2589	3C589D-TP RJ45 - 20pack	£1359	£1596.83
PCMCIA - 10/100Mb/s (Fast Etherlink III)			
84-90-1574	3C574-TX 16-bit UTP	£89	£104.58
84-90-5574	3C574-TX 16-bit UTP - 5pack	£415	£487.63
84-90-2574	3C574-TX 16-bit UTP - 20pack	£1649	£1937.58
PCMCIA (Fast Etherlink XL)			
Combined 33.6Kbps Modem+10Mb/s Lan Adapter			
84-90-1563	3C563D-TP RJ45	£165	£193.88
84-90-5563	3C563D-TP RJ45 - 5pack	£769	£903.58
84-90-5631	3C563D-Combo BNC/RJ45	£189	£222.08
84-90-5635	3C563D-Combo BNC/RJ45 - 5pack	£895	£1051.63

NETWORK CABLES & CONNECTORS

ex VAT inc VAT

BNC / Thin Ethernet



Product Code	Description	ex VAT	inc VAT
86-95-1371	Thin Ethernet cable, made to order. per metre :	£1	£1.18
86-95-1311	BNC solderless crimp connectors	£3	£3.53
86-95-1353	BNC Ethernet terminator	£5	£5.88
86-95-1331	BNC T piece	£6	£7.05
86-95-1302	2m BNC Thin Ethernet cable with crimps - ready made	£4	£4.70
86-95-1305	5m BNC Thin Ethernet cable with crimps - ready made	£7	£8.23
86-95-1310	10m BNC Thin Ethernet cable with crimps - ready made	£11	£12.93
86-95-1320	20m BNC Thin Ethernet cable with crimps - ready made	£17	£19.98
86-95-1330	30m BNC Thin Ethernet cable with crimps - ready made	£24	£28.20

RJ45 / Twisted Pair



Product Code	Description	ex VAT	inc VAT
86-95-4502	2m RJ45 Ethernet/Fast Ethernet cable - ready made	£5	£5.88
86-95-4503	3m RJ45 Ethernet/Fast Ethernet cable - ready made	£6	£7.05
86-95-4505	5m RJ45 Ethernet/Fast Ethernet cable - ready made	£8	£9.40
86-95-4510	10m RJ45 Ethernet/Fast Ethernet cable - ready made	£12	£14.10
86-95-4520	20m RJ45 Ethernet/Fast Ethernet cable - ready made	£18	£21.15
86-95-4530	30m RJ45 Ethernet/Fast Ethernet cable - ready made	£25	£29.38
86-95-4550	50m RJ45 Ethernet/Fast Ethernet cable - ready made	£38	£44.65
Crossover Cables (no hub required) - for peer-to-peer networking : 2 machines only			
86-95-0202	2m RJ45 Ethernet/Fast Ethernet Crossover cable	£20	£23.50
86-95-0210	10m RJ45 Ethernet/Fast Ethernet Crossover cable	£28	£32.90
86-95-0230	30m RJ45 Ethernet/Fast Ethernet Crossover cable	£35	£41.13

OfficeConnect Hubs/Switches/Kits

All OfficeConnect Hubs & Switches are supplied with a user-guide, power adapter, stacking clips and rubber feet as standard.

Product Code	Description	ex VAT	inc VAT
10Mb/s Stackable Hubs			
84-90-1674	3C16704 4 Port TP4, 4x RJ45	£35	£41.13
84-90-1673	3C16703 4 Port TP4 Combo, 4xRJ45/1xAUI/BNC	£45	£52.88
84-90-1670	3C16700 8 Port 8TPO, 8x RJ45	£47	£55.23
84-90-1671	3C16701 8 Port 8TPC, 8x RJ45/1x BNC	£69	£81.08
84-90-1672	3C16702 16 Port TPC16C, 16x RJ45/1x BNC	£116	£136.30
100Mb/s Stackable Hubs			
84-90-6723	3C16723 4 Port TP400, 4x UTP	£119	£139.83
84-90-6722	3C16722 8 Port TP800, 8x UTP	£195	£229.13
84-90-6721	3C16721 12 Port TP1200, 12x UTP	£275	£323.13
10/100Mb/s Dual Speed Hubs			
94-90-1675	3C16750 8x UTP	£305	£358.38
100Mb/s Office Connect Switch - 4 Port			
84-90-6730	3C16730 1x UTP 100Mb -in, 4x RJ45 10Mb -out	£255	£299.63
Networking Kits			
84-90-0308	3C50902B 3 x ISA 10Mb/s cards, 1 x 8 Port Hub, 3 x 50ft RJ45 Cables	£159	£186.83

Superstack Hubs/Switches

Product Code	Description	ex VAT	inc VAT
12 Port			
84-90-6112	SuperStack II PS Hub 40 TP	£206	£242.05
84-90-0252	SuperStack II Hub 100TX	£439	£515.83
84-90-6312	SuperStack II Switch 3000 10/100Mb/s	£829	£974.08
84-90-1695	SuperStack II Switch 1100	£538	£632.15
84-90-6981	SuperStack II Switch 3300	£1049	£1232.58
24 Port			
84-90-6524	SuperStack II PS Hub 40 TP	£379	£445.33
84-90-6824	SuperStack PS 50	£599	£703.83
84-90-6980	SuperStack II Switch 3300	£1575	£1850.63
84-90-1661	SuperStack II DS Hub 500	£696	£817.80
84-90-6950	SuperStack II Hub	£799	£938.83
84-90-1659	SuperStack II DS Hub	£639	£750.83

PRODUCT LINK

CD ROM Servers : See Page 21



FAX : 01753 524443



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THE BEST YOU'LL GET

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IMPORTANT : Standard Microsystems Corporation (SMC) is one of the world's leading LAN equipment manufacturers, and at SMC Computers we are pleased to include their products in our range. However, there is no other connection between the companies and we regret we are unable to help with general enquiries on behalf of Standard Microsystems Corporation.

ex VAT inc VAT

Network Interface Cards (NIC's)

Product	ex VAT	inc VAT
ISA - 10Mb/s Ethernet		
84-93-1651 E16 , 16-bit, Combo	£62	£72.85
84-93-2451 EZ P'n'P , 16-bit, Combo	£39	£45.83
84-93-1001 I660BT , BNC/RJ45	£19	£22.33
84-93-1050 I660BT , BNC/RJ45 - 50 Pack	£625	£734.38
PCI - 10/100Mb/s EtherPower II		
84-93-1211 I211TX , RJ45	£23	£27.03
84-93-1301 9432TX , RJ45	£44	£51.70
84-93-1305 9432TX , RJ45 - 5 Pack	£199	£233.83
84-93-1320 9432TX , RJ45 - 20 Pack	£749	£880.08
84-93-1350 9432TX , RJ45 - 50 Pack	£1779	£2090.33
PCMCIA - 10/100Mb/s PC Cardbus		
84-93-3201 8302DT , 32-bit, RJ45	£110	£129.25
84-93-3205 8302DT , 32-bit, RJ45 - 5 Pack	£529	£621.58

Network Hubs

Product	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	£99	£116.33
Fast Ethernet Hubs - 100Mb/s		
84-93-5008 5008TX , 8 Port	£189	£222.08
Dual Speed Fast Ethernet Hubs - 10/100Mb/s		
84-93-5512 5512DS , 12 Port	£595	£699.13
84-93-5524 5524DS , 12 Port	£889	£1044.58

Network Switches

Product	ex VAT	inc VAT
8 Port		
84-93-0108 EZ108 INT , EZ Switch, 8 Port, 10/100Mb/s	£669	£786.08
84-93-6608 6608 INT , Tigerswitch 100, 8 Port, 10/100Mb/s	£849	£997.58
16 Port		
84-93-6416 6416TT INT , EZ Switch, 16x10Mb/s, 2x100Mb/s	£609	£715.58
24 Port		
84-93-6425 6425LW/TT INT , EZ Switch, 24x10Mb/s, 2x10/100Mb/s	£929	£1091.58

INTEL NETWORKING

ex VAT inc VAT

Network Interface Cards (NIC's)

Product	ex VAT	inc VAT
EtherExpress PRO range		
ISA - 10Mb/s Ethernet		
84-31-8220 8220B 10+ TP	£35	£41.13
84-31-5822 8220B 10+ TP - 5 Pack	£159	£186.83
84-31-8210 8210B 10+ TP/BNC	£42	£49.35
84-31-5821 8210B 10+ TP/BNC - 5 Pack	£195	£229.13
84-31-8200 8200B 10+ Combo	£65	£76.38
84-31-5820 8200B 10+ Combo - 5 Pack	£315	£370.13
PCI - 10/100Mb/s Fast Ethernet		
84-31-8460 8460 100+ UTP	£49	£57.58
84-31-5846 8460 100+ UTP - 5 Pack	£189	£222.08
84-31-2084 8460 100+ UTP - 20 Pack	£899	£1056.33
84-31-8470 8470 100+ Server Adaptor	£59	£69.33
84-31-8480 8480 10+ Server Adaptor	£315	£370.13
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	£185	£217.38
84-31-3200 3200 10/100+ 32Bit, UTP	£89	£104.58

Express Network Hubs

Product	ex VAT	inc VAT
8 Port		
84-31-1008 100TX8 Stand-alone Hub, 100Mb/s	£275	£323.13
24 Port		
84-31-1124 110TX24W Stackable Hub, 10/100Mb/s	£949	£1115.08

Network Switches

Product	ex VAT	inc VAT
84-31-1024 10T24 Ethernet switch, 10Mb/s, 100Mb/s Up-link	£1099	£1291.33
84-31-5100 ES510t Express switch 10/100Mb/s	£1549	£1820.08

HP JETDIRECT PRINT SERVERS

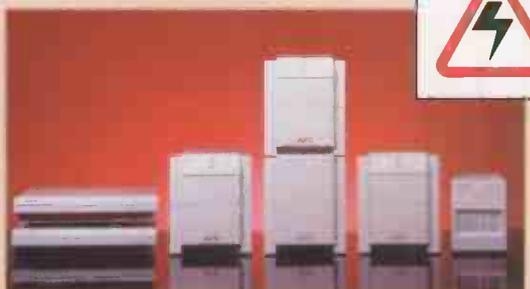
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Product	ex VAT	inc VAT
84-28-5002 J2550B - for 10Base-T (MIO)	£189	£222.08
84-28-5202 J2552B - for 10BT, BNC, LocalTalk (MIO)	£224	£263.20
84-28-5502 J2555B - for Token Ring (MIO)	£325	£381.88
84-28-5602 J2556B - for 10/100Base-T (MIO)	£245	£287.88
84-28-2593 J2593A - EX Plus3 - Ethernet - 10BT, BNC	£229	£269.08
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)	£99	£116.33
84-28-3263 J3263A - 300X for RJ45, 10/100	£179	£210.33
84-28-3110 J3110A - for RJ45/BNC/Local Talk	£165	£193.88
84-28-3111 J3111A - for 10 BaseT, 10Base 2	£165	£193.88
84-28-3113 J3113A - 10/100 for HP4000 series	£235	£276.13

UPS's

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An APC UPS can protect against all mains surges and cuts. So why leave it to chance ?



BackUPS

ex VAT inc VAT

Lowest cost protection for desktop PCs, 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	£75	£88.13
89-90-0654 650MI 400 watts, for Pentium with 17" monitor	£125	£146.88

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	£85	£99.88
89-90-0422 420 300 watts, for Pentium with 15" monitor	£119	£139.83
89-90-0652 650 460 watts, for Pentium with 17" monitor	£155	£182.13

SmartUPS

High Performance protection for servers, with Smart Boost, Smart Trim and shutdown software for Windows, Win95, WinNT, SCO UNIX, Novell Netware. Supplied with serial cable. Also available in Rack Mount version.

89-90-0710 700 500 watts, for Pentium with 17"+ monitor	£225	£264.38
89-90-1010 1000 700 watts, for single server	£249	£292.58
89-90-1410 1400 1000 watts, for single server	£329	£386.58
89-90-2210 2200 1550 watts, for multiple servers	£531	£623.93
89-90-3010 3000 2135 watts, for multiple servers	£849	£997.58





What is ISDN ?

Integrated Services Digital Network (ISDN) is the latest telecommunications technology, utilising fibre optics and digital systems. Data transfer is pushed up to 64Kbit/s or 128Kbit/s using bonded (2x) channels, with rates up to 460Kbit/sec using V.42 bis compression. All this makes an ISDN modem up to 5 times faster than a standard modem. **IMPORTANT :** All ISDN modems require the use of an ISDN line ; if connected to a non-ISDN line, they will not function.

MODEMS



91-79-9191
56k Message £125
 £146.88 inc. VAT



56k Message modem

With Independent Messaging Facilities
 Integrates x2 and V.90 Technology allowing users to download from the Internet and other x2/V.90 hosts at speeds up to 56Kbps*. Its Independent Voice Messaging facility stores incoming fax and voice messages - even when your computer is switched off. The 2Mb chip can store approx. 25 faxes or approx. 35 voice messages of about 20 seconds in length, and voice messages can be retrieved through a dial-up connection. Integrated Flash memory offers capability for future features and enhancements.
 *Due to varying line conditions, the download speeds you experience may be lower.

91-79-3392
£75
 £88.13 inc. VAT



Sportster Winmodem

33.6 Internal Faxmodem for Windows™ with Personal Voice Mail
 This modem was designed exclusively for the Windows environment, providing you with Internet access at up to 33,600bps, fax, e-mail, personal voice mail and speakerphone facilities all in one compact unit.*
 The Sportster Winmodem is easy to install and use. With the Windows operating system already on your PC, all the installation chores are done for you : simply insert the Sportster Winmodem and away you go !
 * To utilise all voice features an external speaker, headset or soundcard is required.

US Robotics Courier-I Modem
 91-79-4906
£239
 £280.83 inc. VAT



BENEFITS :
 > Super-fast connection speeds
 > Flash Upgradable
 > Analogue compatible (through ISDN line)
 > Plug & Play support

The Courier-I modem has the flexibility of both high-speed analogue and ISDN connectivity in one single desktop product. Speeds of up to 128K/sec are obtainable using ISDN. Even using analogue via an ISDN line, speeds of up to 56Kb/sec can be achieved by using X2 Technology. This versatility enables the Courier-I modem to fulfil a variety of functions with high-speed connections.

MODEMS : PACE

ex VAT inc VAT

All Pace Modems include cables, manuals, software, 2-year warranty, lifetime technical support and FREE Internet trial bundles.

91-91-5662	56k Voice Modem : Internal (56k Flex technology)	£75	£88.13
91-91-5666	56k Voice Modem : External (56k Flex technology)	£99	£116.33
91-91-5664	NB56 Voice : PCMCIA K56 Flex data, 14,400 Fax	£89	£104.58
91-91-5670	Solo 56k Voice Modem using K56 Flex Message Management & Answerphone	£155	£182.13

MODEMS : 3COM/US ROBOTICS

ex VAT inc VAT

All US Robotics modems come with 5-year warranty and lifetime tech. support. These are compact, easy to use products designed to offer the fastest connection to the outside world. Based on an award-winning series, their performance, features, reliability and low price make a combination that's very hard to beat.

SPORTSTER Range

External	
91-79-6590	56k Voice Fax modem , 14,400bps fax speed, X2 and V90 compatible, flash upgradable, includes software and cables £85 £99.88
91-79-9191	56k Message modem , x2 Technology enables speeds up to 56Kbps. £125 £146.88
91-79-2225	56k Professional Message modem . Flash upgradable. Answerphone & message management with built-in speaker & microphone. X2 and V90 compatible £139 £163.33
Internal	
91-79-6090	56k Voice Fax modem , 14,400bps fax speed, X2 and V90 compatible, flash upgradable, includes software and cables £85 £99.88
91-79-2892	Sportster 33.6 Voice* , 33,600bps Data, 14,400bps Fax Speed, with Data and Fax software, X2 Compatible £96 £112.80
91-79-3392	Sportster 33.6 Winmodem , 33,600bps Data, 14,400bps Fax, with Data/Fax software, X2 Compatible. Win'95 £75 £88.13
* The Sportster 33.6 Voice modems are hardware upgradeable through US Robotics direct (may be chargeable)	
PCMCIA	
91-79-3356	Sportster Winmodem PC card , 33,600bps Data Speed, 14,400bps Fax Speed uses standard PCMCIA Type II /III slot, inc. software. Requires Windows '95 £75 £88.13

COURIER Range

The Courier Dual Standard V34+Fax uses upgradable flash memory and can run at 33,600bps (Data) and 14,400bps (Fax). Dial security is enabled via password facility and Adaptive Speed Levelling is used to cater for poor line conditions. Automatic Fax/Data selection is made via software supplied, and Universal Connect automatically detects & connects at the fastest speed. For the communications professional looking for advanced performance at an affordable price - the COURIER delivers.

91-79-3402	V34+ Internal	£195	£229.13
91-79-3406	V34+ External	£195	£229.13

ISDN
 The Courier-I (ISDN ONLY) supports X2 Technology, V34, 64Kbps, 14,400 Fax, Active Terminator, with Data/Fax software.

91-79-4902	Courier-I Internal	£239	£280.83
91-79-4906	Courier-I External	£239	£280.83

3Com MEGAHERTZ

PCMCIA
 With approval in more than 250 countries, the 3Com Megahertz Global modem gives you reliable, hassle-free connections around the world.

MODEMS : BT

ex VAT inc VAT

BT modems are supplied with software and cables.

Prologue K56EV+

91-92-3356	Data/Fax/Voice modem using 56K Flex technology and flash upgradable firmware	£72	£84.60
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Prologue x3

91-92-0333	PCMCIA modem, 33600kbps data, 14,400kbps fax Flash EPROM, upgradeable to ISDN or GSM	£139	£163.33
91-92-2110	GSM (Nokia 2110) upgrade	£159	£186.83
91-92-8110	GSM (Nokia 8110) upgrade	£119	£139.83
91-92-3128	ISDN upgrade	£94	£110.45

ISDN

91-92-5128	Prologue 128 PTA Passive adapter card. Internal	£55	£64.63
91-92-7128	Express Lane Intelligent interface card. Internal	£185	£217.38
91-92-9128	Ignition terminal adapter . External	£255	£299.63

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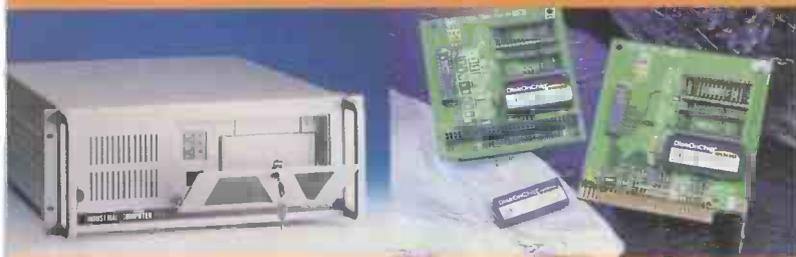
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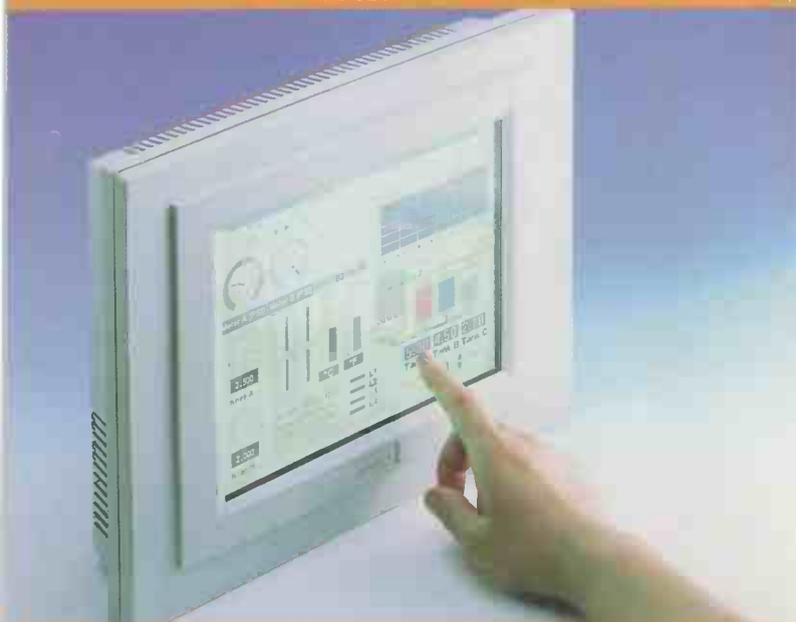


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PC/2e	DigiBoard 2-port Intelligent Card RS232	£165
PC/4e	DigiBoard 4-port Intelligent Card RS232	£385
PC/4e.422	DigiBoard 4-port Intelligent Card RS422	£445
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PC/8e.422	DigiBoard 8-port Intelligent Card RS422	£560
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PCL-745B	2-Port RS422/485 Interface Card Isolated	£ 75
PCL-746+	4-Port RS232/422/485 Interface Card	£115
PCL-747	Multi-Port RS232 Controller	£360
PCL-841	2-Port Isolated CAN-Bus Interface Card	£140
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PCL-731	48-bit Digital I/O Card	£ 65
PCL-733	32-channel Isolated Digital Input Card	£ 85
PCL-734	32-channel Isolated Digital Output Card	£ 85
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PCL-818	Full-size DAS Card 100Khz	£295
PCL-818HD	High-performance DAS Card	£280
PCL-818HG	High-gain DAS Card	£325
PCL-818L	Multifunction DAS Card	£155
PCL-818LS	Multifunction DAS Package	£169
PCL-812PG	Multilab Analog and Digital I/O Card	£199
PCL-813B	32-channel S.E Isolated A/D Card	£249

ANALOG OUTPUT CARDS

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PCL-727	12-channel D/A Output Card	£355
PCL-728	Isolated 2-channel D/A Output Card	£135

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IPC-610ATX	Rackmount IPC Chassis ATX Version	£199
IPC-620	20-slot Rackmount IPC Chassis ISA	£480
IPC-620P	20-slot Rackmount IPC Chassis ISA/PCI	£495
IPC-620D	20-slot Rackmount IPC Chassis Dual ISA	£485
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IPC-622D	20-slot Fault Resilient IPC Chassis Dual ISA	£725
IPC-622DP	20-slot Fault Resilient Chassis Dual ISA/PCI	£770
IPC-622Q	20-slot Fault Resilient IPC Chassis Quad ISA	£735



MIPC-50CT (front)

MIPC-50CT (back)

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AWS-842TP	Workstation 10.4" TFT LCD Display ISA/PCI	£1550
AWS-861	Workstation with 10" CRT Monitor ISA	£1560
AWS-861P	Workstation with 10" CRT Monitor ISA/PCI	£1560
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MIPC-50M	Mini Workstation 10.4" Mono LCD Display	£785

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PCLD-782B	24-channel Opto-isolated D/I Board	£ 79
PCLD-785	16-channel Relay Output Board	£ 79
PCLD-785B	24-channel Relay Output Board	£ 95
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PCLD-880	Industrial Wiring Terminal Board	£ 45

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PCA-6154	Half-size CPU Card P233MMX w/SVGA/LAN	£355
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PCA-6159	Full-size CPU Card Pentium 233MMX w/SCSI	£315

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PPC-102T	Panel PC 10.4" TFT, P233MMX, 64Mb, 2Gb HDD	£1560
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PPC-140T	Panel PC 13.8" TFT, P233MMX, 64Mb, 2Gb HDD	£2250
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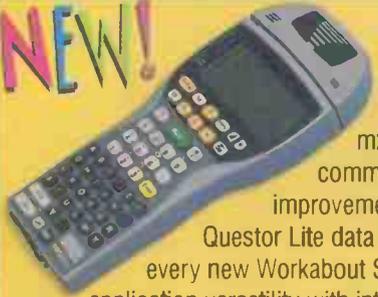
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DIRECT BUYERS WORLD

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Entry-level to high-end PCs, notebooks and PDAs.
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Inkjet, lasers, photo printers and multifunction devices.
- 664 Peripherals**
From digital cameras to modems, monitors to storage, graphics and sound cards.
- 665 Software**
The greats of software. Classic products like Adobe Photoshop, Visual dBase and MYOB.

All the best buys are here

Sometimes you just want to know the names of the best products, when they were reviewed, how much they cost and where you can get them. That's where our new, no-nonsense buyer's guide comes in. Over the following four pages we've picked out the outstanding PCs, peripherals and software packages that we can recommend without hesitation. To make it even easier, we've included the current manufacturer's contact number and price (inc VAT), as well as details about when and where we reviewed the product. For the full review, why not check out *PCW* on CD-ROM? Updated quarterly on a rolling basis, *PCW* on CD-ROM contains the full editorial from the past 24 issues, in searchable Adobe Acrobat format — it even comes with a copy of Acrobat for viewing, searching and printing. Each CD costs just £9.95 including postage and packing, or £8.96 for subscribers. Call **01795 414870** to order your copy, or turn to the *PCW* Reader Offers on pages 306 and 307 for further details.

GORDON LAING, Editor

CREDIT CARD PROTECTION

If ordering goods over £100, we recommend you use your credit card. A credit card not only provides similar protection as that guaranteed under the "Buyers Charter" but, more importantly, it offers the additional advantage of reimbursement to your account of all monies paid for goods not received — usually within 28 days — when a company ceases to trade.

Personal Computer World Buyer's Charter

If things go wrong

Mail order protection scheme

Anthony George, our Customer Services Manager, is here to help you if things go wrong or if you have a complaint about advertisements that have appeared in *Personal Computer World*. Write to him with details of the complaint and he will contact you.

Anthony George
Customer Relations Department
VNU Business Publications
VNU House, 32 - 34 Broadwick Street
London W1A 2HG

Buyers Charter



When you order goods as a private individual reader from a UK supplier's advertisement in *Personal Computer World* and pay by post in advance of delivery to that Mail Order Advertiser who subsequently ceases to trade and goes into Liquidation or Bankruptcy prior to delivery of such goods, you may, under the "Buyers Charter", qualify for compensation, providing:

1. You have not received the goods or had your money returned.
2. You have followed the "Personal Computer World" guidelines when placing your order.
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4. You have retained proof of purchase, for verification purposes:
 - a) A copy of the original advertisement from which the goods were ordered.
 - b) A copy of *Personal Computer World's* "Details of Transaction Form" (on opposite page).
 - c) Comprehensive proof of payment.

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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 for any one advertiser so affected.
- 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.

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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.

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The protection of the "Buyers Charter" only applies to display advertisements carried in this publication. It is not designed for, nor will it protect the consumer, in circumstances whereby goods have been subsequently ordered and paid for as a direct result of any advertisements appearing on the Internet. While limited protection still exists when Internet purchases are made from companies based in the UK, no such protection exists — other than that afforded by certain major credit card companies — relative to goods ordered from overseas organisations' web sites. We would strongly urge all readers to consider the following before purchasing via the Internet: Advertised prices invariably exclude transportation charges, do not account for currency fluctuations, Customs & Excise duties, VAT, documentation and/or importation restrictions. Statutory rights are virtually non-existent, guarantees — if any — impossible to enforce, replacement of faulty goods and/or refunds difficult to obtain, no official regulatory organisation to call upon for assistance when things go wrong, and no protection under the "Buyers Charter".

ENTRY-LEVEL PC

Mesh K6 3D 300A

Sporting AMD's K6-2 processor, this system from Mesh has everything you could want: 1Mb of L2 cache, a 40X CD-ROM drive, a superb set of six speakers with an AWE64 sound card and a lovely ADI 5GT monitor. But it's the blistering speed that will have you reaching for your credit card.

► PCW October '98, p187



Price £1,198.50, Contact Mesh 0181 452 1111 Also Recommended: Mertec Home Media Price £1,173.83 Contact Mertec 01792 473700 • Panrix Nitro 3D, Price £1,173.83 Contact Panrix 01132 444958 (both PCW Oct '98)

MID-RANGE PC:

Dotlink Power Tower-400SE

If you want a PII 400 for under a grand ex VAT, you could do a lot worse than this Dotlink. It has 64Mb of RAM and a 5Gb hard drive, as well as a 56K modem and SmartSuite 97. And with a BX board there is plenty of room for later expansion.

► PCW October '98, p89



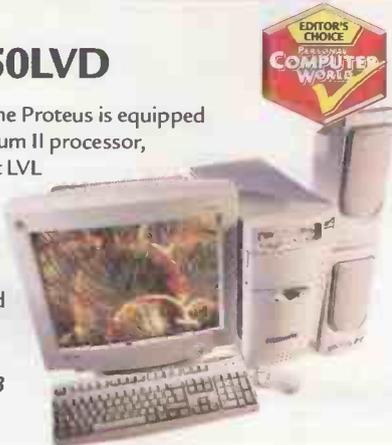
Price £1,174 Contact Dotlink 0181 903 6508 Also Recommended: Mesh Elite Professional PII Price £1,145, Contact Mesh 0181 452 1111 • Dan Dantium II/W5 Price £1,175 Contact Dan 0181 830 1100 (both PCW July '98)

HIGH-END PC

Atlantic Proteus 450LVD

A true high-end PC, the Proteus is equipped with a 450MHz Pentium II processor, plus the lightning-fast LVL SCSI Cheetah hard drive from Seagate. It's also stuffed with extra peripherals including CD-RW and DVD-ROM drives. A real dream machine.

► PCW Nov '98, p163



Price £2,499 Contact Atlantic 0990 134725 Also Recommended: Armari MB-450 Workstation Price £2,899 Contact Armari 0181 810 7441 • Dell Precision Work'stn 410 Price £3,390 Contact Dell 0870 9073335 (both in this issue)

HIGH-END NOTEBOOK

IBM ThinkPad 600

Built for the road warrior, this thin, light, notebook excels in its build quality. Based around a variety of processors, ranging from a Pentium 233MMX and going right up to a Mobile PII 266, it also has a huge 4Gb hard drive, 32Mb RAM and a 13.3in TFT screen.

► PCW July '98, p79



Price £4266.43, Contact IBM 0870 601 0136 Also Recommended: Gateway Solo 9100 Price £3876.33 Contact Gateway 0800 282000 (PCW June 1998)

MID-RANGE NOTEBOOK:

Gateway Solo 2500-S6266SE

With a fantastic spec for an incredibly low price, the Gateway Solo 2500 is enough to keep any mobile professional happy. It comes with a Mobile PII 266MHz processor, a whopping 64Mb RAM as standard and a huge 4Gb hard drive. Add in a glorious 13.3in TFT screen supported by 2Mb of graphics RAM and you have yourself a perfect system.

► PCW October '98, p94



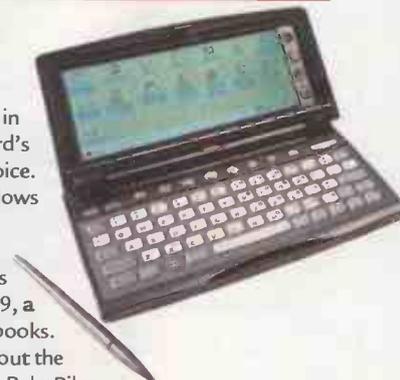
Price £2,500 Contact Gateway 0800 55200 Also Recommended: Viglen Dossier M Price £2,466.33 Contact Viglen 0181 758 7000 (PCW August '98)

PDA

Hewlett-Packard 620LX

For cutting-edge technology in your pocket, Hewlett-Packard's 620LX has to be the only choice. It's based on the latest Windows CE2 operating system and is the first PDA we've seen with a colour screen. It's utterly gorgeous and, at £799, a serious threat to many notebooks. PDA fans should also check out the Psion Series 5 and the 3Com PalmPilot.

► PCW May '98 p262.



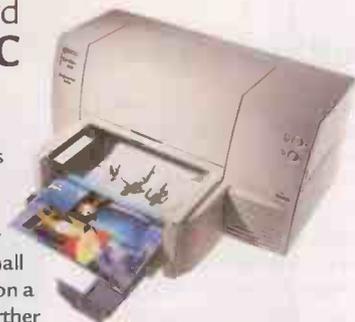
Price £799 Contact HP 0990 474747. Also Recommended: Psion Series 5 Price £429.9 Contact Psion 0990 143050 • 3Com PalmPilot Pro Price £229 Contact 3Com 0800 225252 (Both PCW May 1998)

COLOUR INKJET:

Hewlett-Packard DeskJet 890C

As all-round colour inkjet printers go, Hewlett-Packard's DeskJet 890C is hard to fault. Equally happy with photos or business graphics, it's our choice for the home or small office. Meanwhile, those on a budget should look no further than Canon's BJC-250, but those wanting the bigger picture will not be disappointed with HP's DeskJet 1120C A3.

➡ PCW September '98, p186.



Price £317.25 Contact HP 0990 474747 Also Recommended: Canon BJC-250 Price £116.33 Contact Canon 0121 680 8062 • HP DeskJet 1120c Price £446.50 Contact HP 0990 474747 (both PCW Sept '98)

COLOUR PHOTO PRINTER:

Epson Stylus Photo 700

Colour inkjets have split into two categories, with this type clearly designed to reproduce the most realistic colour photographic prints. Epson has for a long time been the undisputed leader and its Stylus Photo 700 is our choice for inkjet photo printing. However, Lexmark comes very close behind with its 5700.

➡ PCW September '98, p188.



Price £273 Contact Epson 01442 261144 Also Recommended: Lexmark 5700 Price £229 Contact Lexmark 01628 481500 (PCW September 1998)

BUDGET LASER PRINTER

Panasonic KX-P6300

A decent laser printer at under £200 excluding VAT? That's Panasonic's KX-P6300, which not only turns out great results in fast time but also boasts one of the smallest footprints of any printer. Its unusual vertical design, along with being a great-value all-rounder, made it our Editor's Choice in our entry-level laser group test.

➡ PCW February '98, p194



Price £217.38 Contact Panasonic 0500 404041 Also Recommended: Kyocera FS-600 Price £280.83 Contact Kyocera 01734 311500 • Minolta PagePro 6 Price £351.33 Contact Minolta 01908 200400 (both PCW Feb '98)

BUSINESS LASER PRINTER

Hewlett-Packard LaserJet 4000TN

King of the laser printers, Hewlett-Packard has impressed us yet again with its latest office machine. Being 25 percent faster than the LaserJet 5, with 10,000-page toner cartridge, two 250-sheet input trays, network interfaces as standard and boasting superb output, the 4000TN should be the first choice as an office workhorse.

➡ PCW February '98 p77



Price £1662.63 Contact HP 0990 474747 Also Recommended: QMS DeskLaser 1400P Price £938.83 Contact QMS 01784 442255 (PCW March 1998)

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 1998)

FLATBED SCANNER

Umax Astra 610P

Once again, the Umax Astra 610P parallel-port scanner has won our budget flatbed scanner group test, boasting an unbeatable combination of performance and value. Note that our three recommended scanners require enhanced parallel ports found only on modern PCs, so older systems, or users wanting top performance, should stick to SCSI.

➡ PCW September '98, p229.



Price £69.33 Contact Umax 01344 871329 Also Recommended: Agfa SnapScan 310P Price £116.50 Contact Agfa 0181 231 4200 • Microtek Phantom 330CX Price £75.95 Contact Microtek 01908 317797 (PCW Sept '98)

DIGITAL CAMERA

Kodak DC260

Once again Kodak has produced the best digital camera for under £1,000. Not only does it have a high resolution, producing excellent images at 1,536x1,024 pixels but 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 1998)

MODEM

BT Prologue K56EV Plus Modem

This smart little K56Flex modem features a headset, allowing it to be used as a hands-free telephone. Add a pair of speakers and you've got a full duplex speakerphone. The K56EV also supports AudioSpan (SVD) operation, enabling voice and data to be transmitted simultaneously.

► PCW July '98 p80



Price £119.95 **Contact** Direct Source 0118 981 9960 **Also Recommended:** Pace 56 Voice **Price** £139 **Contact** PMC 0990 561001 (PCW November 1997)

SOUND CARD

Terratec EWS64 S

A cut-down version of the heavyweight EWS64XL, Terratec's S model still boasts much of the same sampling and processing capabilities and is also a great games card with accelerated DirectSound and positional 3D audio. There's a digital I/O option, upgradeable sample memory and the decent software bundle includes Cubasis AV.

► PCW July '98 p210



Price £149.23 **Contact** Terratec 01600 772111 **Also Recommended:** Creative Labs AWE 64 Gold **Price** £129.25 **Contact** Creative Labs 01245 265265 (PCW July 1998)

MONITOR

Nokia Multigraph 447Za

No matter what you do, it's vital to get a good monitor with a clean, flicker-free display. In April 1998's group test we looked at 17in models and found Nokia's Multigraph 447Za to be the best in our entry-level category. Those with more to spend should check out the Mitsubishi, (see panel, below) which was our Editor's Choice in the high-end section.

► PCW April '98 p204.



Price £440.63 **Contact** Nokia 01793 512809 **Also Recommended:** Mitsubishi DiamondPro 700 **Price** £569.88 **Contact** Mitsubishi 01707 276100 (PCW April 1998)

REMOVABLE STORAGE

SyQuest SparQ

With such differing capacities, interfaces and prices, there's no one removable storage device to satisfy all needs. As an overflow for your existing hard disk, the SyQuest SparQ is a clear winner, boasting excellent performance and low price. The external Omega Zip Plus offers a good combination of ease of use and portability.

► PCW May '98 p196



Price £169.99 **Contact** SyQuest 01189 880207 **Also Recommended:** Iomega Zip Plus **Price** £143.83 **Contact** Iomega 07000 466342 • Iomega Jaz 2Gb **Price** £441.71 **Contact** Iomega 07000 466342 (both PCW August 1998)

GRAPHICS CARD

Diamond Viper V550

Sporting Riva's latest TNT chipset, the Viper V550 gives absolutely storming 3D performance, with a full 3D feature set and good image quality to boot. Its 16Mb of RAM also spells ultra-high 2D desktop resolutions for standard Windows apps.

► PCW November '98, p198



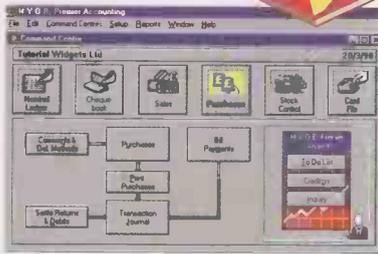
Price Approx £150 **Contact** Diamond Multimedia 0118 944 4400 **Also Recommended:** MetaByte Wicked 3D **Price** £211.50 **Contact** Watford Electronics 01582 745555 (PCW November 1998)

ACCOUNTING

Tas Books MYOB

Ideal for the owner-manager and good for bookkeepers too, Mind Your Own Business (MYOB) is our choice for accountancy software. We also recommend TAS Books which offers good bookkeeping and very powerful analysis.

PCW June '98 p198



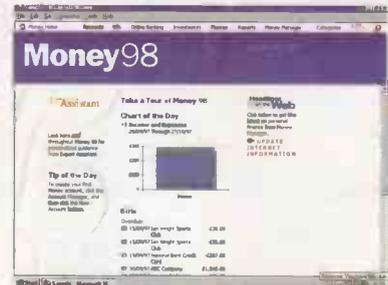
Price £229.13 Contact Bestware 01752 201901
 Also Recommended: TAS Books Price £116.33 Contact Megatech 01372 727274 (PCW June 1998)

PERSONAL FINANCE

Microsoft Money Financial Suite 98

Microsoft Money Financial Suite 98 is our choice for personal finance. It offers online banking and updating facilities, plus Sage compatibility, all at a bargain price.

PCW May '98 p196



Price £49.99 Contact Microsoft 0345 002000
 Also Recommended: Quicken 98 Price £39.99 Contact Intuit 0181 990 5500 (PCW June 1998)

DATABASE

Microsoft Access 97

The industry-standard database application is also the best. With its wizards, infamous Office Assistants and standard Windows interface, Access 97 is relatively easy for the novice. And its powerful relational features and VBA integration make it suitable for developers, too.

PCW November '98 p220



Price £299 Contact Microsoft 0345 002000
 Also Recommended: FileMaker Pro 4 Price £169 Contact FileMaker 0845 603 9100 (PCW November 1998)

DTP

Serif PagePlus 5

Inexpensive, easy to use and surprisingly well equipped. PagePlus 5 offers extremely capable desktop publishing. Those wanting the choice of professional publishers will have to fork out more for Quark XPress 4.0.

PCW June '98 p132



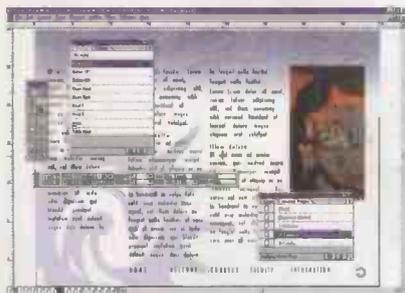
Price £99.95 Contact Serif 0800 376 7070
 Also Recommended: Quark XPress 4 Price £1,169 Contact Quark 01483 454397 (PCW June 1998)

IMAGE EDITING

Adobe Photoshop 5

With version 5, Photoshop is better than ever, although some web designers will want a little more. The legendary Paint Shop Pro and fun PhotoDeluxe cater at entry level.

PCW June '98 p88



Price £763.75. Contact Adobe 0181 606 4001 Also Recommended: Adobe PhotoDeluxe 2 Price £57.58 Contact Adobe 0181 606 4001 • PaintShop Pro 4 Price £58.69 Contact Digital Workshop 01295 258335 (both PCW Dec '97)

DRAWING

Corel CorelDraw 8

Not one of Corel's classic years but this is still the Windows drawing package to own. Version 8 of the giant suite boasts better drawing and new interactive tools. Budget drawers should check out the 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 October 1998)

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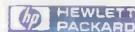
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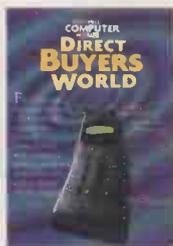
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The place in PCW where you can compare prices on a wide range of hardware and software. The card insert at page 324 marks the start of the section.

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PRECISECASH KEYBOARD

The POS keyboard with QWERTY keys, 77 programmable keys, full QWERTY typing area, magnetic card reader and barcode port. The complete POS keyboard.

8001 KEYBOARD

Our most compact POS keyboard, the 8001 packs 105 programmable keys into the smallest footprint. Magnetic card reader option and serial interface option.

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Our range includes the latest scanners and laser guns, all with built-in decoder and interface options. Choose from PC keyboard wedge, serial and DEC keyboard wedge.

NEW Product — CF-3CD portable data capture and CCD scanner in one unit!

CASH DRAWER

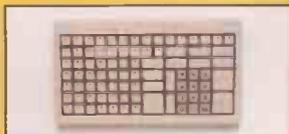
Our intelligent cash drawer includes as standard serial and parallel interfaces, each with pass-through option with choice of activation codes. The drawer also features a security keylock and front slot for non-cash transactions.

RECEIPT PRINTERS

The compact, stylish receipt and ticket printers offer a choice of 24, 40 and 42 column printing with impact or thermal print mechanisms. All models have built-in power supply option and interface choice.

CUSTOMER DISPLAYS

Our pole display range includes backlit LCD panels with 2 lines of 20 characters and 1 line of 16 characters. Models feature choice of pole height, tilt and swivel display units and serial or parallel interface.



Because we specialise in input and associated devices our expertise is unrivalled — and, if we don't stock exactly what you need, we'll supply a custom product quickly and at a low cost you'll find hard to believe.

ELECTRONE

General

9001 KEYBOARD

The 9001 squeezes 86 keys into the smallest footprint with full travel tactile keys, 17mm key spacing and embedded numeric pad. They don't come much smaller than this!

MINIKB

Occupying less space than an A4 sheet, the MINIKB has 85 full size tactile click keyswitches. Full typing area, function key row and cursor controls. Optional number pad available.

MCK142 PRO

All the keys you'll ever need! Two sets of function keys, enhanced style 102 layout and 24 user-programmable function keys. A great keyboard for terminal emulation.

MICROPADS

Keypads for all applications: numeric pads for notebooks, keyboard replacements, function keypads — we can customise the standard models or make complete custom designs to match your needs exactly.

TRACKBALLS

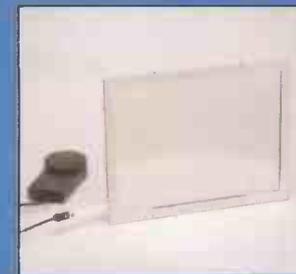
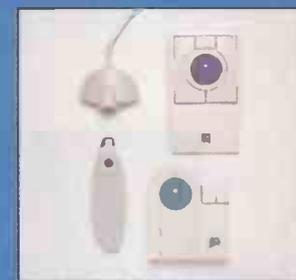
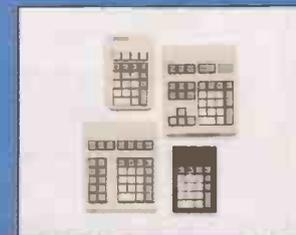
Our new trackball range features the new infrared Star Track for remote control of presentation, demonstration and any other mouse applications. Two desktop models offer the choice of thumb or finger operations with two enclosure styles. All trackballs can directly replace a serial mouse.

TOUCH SCREENS

Our new touch screen panel clips directly to your existing monitor and, through the supplied serial interface and software, can emulate a mouse for instant touch control of your applications — or use it as a development tool for your own touch screen programmes. Fits 14" and 15" screens. Bonded touch monitors also available.

KEYPORT

The latest Keyports now include a full PC keyboard wedge interface — just plug into the keyboard port, with or without your keyboard attached, and you're ready to programme your own layout. Software to download programme and design overlay included.



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ChipChat goes to church



For those whose grades didn't quite get them into priest school, the internet, as ever, comes to the rescue. The Universal Life Church at www.ulc.org/ulc/ is offering instant online ordinations. By supplying little more than your name, you can append Reverend to the front of your name and the site will produce a certificate to prove it, as well as permit you to perform baptisms and marriages. Those willing to part with a little cash can go one better – instant canonisation, and a slip of paper that will declare you to be a living saint. Not up for that? How about a Doctorate – a snip at \$20!

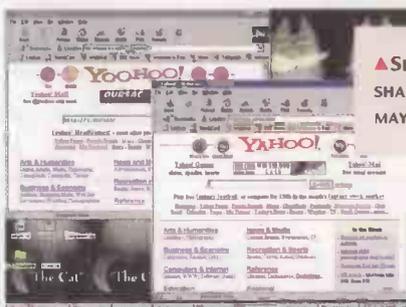
▲ INSTANT ORDINATION FROM THE UNIVERSAL LIFE CHURCH

Better than the real thing

Two sites that took our fancy this month imitate well-known internet home pages. Yooahoo www.e-z.net/

Caption Competition

The open-mouthed gape of our Editorial Assistant, Etelka, provoked a record number of entries to the September caption competition, and so it was she who had the honour of selecting Linda Van Heerden of Hove as the winner of our £20 book token. Linda's entry, "Turn it off – it's a picture of Bill Clinton naked in the White House", was one of the small number received that didn't mention Viagra. There's no caption competition this month, so instead send lots of pictures of yourselves to brighten up the PCW office, to ChipChat at the usual address (p10) or email them to captions@pcw.co.uk.



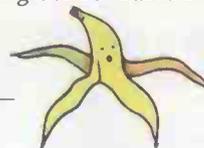
▲ SEARCH AND YE SHALL FIND... OR MAYBE NOT

~ed1/yooahoo/ plays on the design of well-known search engine, Yahoo. Some great links from here should have you chuckling for the rest of the month, but if you exhaust them you might like to try the Microsoft parody, Winblows www.winblows.com. So real, you could believe it came straight from MS HQ in

Redmond. It's also a great place for grabbing screensavers or cards for your PC, while the Yooahoo site has a cheeky link back

to Yahoo, claiming it to be "based on Yooahoo"!

Oops



➤ Last month's Reliability Survey attributed a letter to U-net when it should, of course, have read Uunet.

➤ Page 313 of the October issue used a shot of Unreal's packaging to illustrate what was, clearly, a review of Gex3D.

next month

UNDERCOVER PC GROUP TEST

Choosing the best vendor when buying a PC is as difficult as deciding what components you want. We buy undercover from 10 vendors and give you the full SP on their sales, delivery, build quality and support.

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DECEMBER '98 ISSUE

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"Utterly stunning.... quite simply jaw dropping" - *Platinum Award*, Dossier M, PC Answers, August 1998

"Very, very fast with huge storage capabilities.... if you want your apps to fly, look no further" - *Editor's Choice*, Viglen C2 Plus 400, Personal Computer World, September 1998

"Great Performance. Stacked full of quality components. An excellent machine." - *Highly Commended*, Viglen Contender 2, Personal Computer World, July 1998

"Super-fast. Loads of features. Great build quality. The fastest notebook we've seen at a low price we can scarcely believe" - *Recommended*, Dossier M, Personal Computer World, August 1998

"The top slot...goes to Viglen's Home C300..." *Best Buy*, Home C300, What PC, September 1998

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Viglen systems are exclusively distributed in EIRE by Lendac Data Systems, Unit 6 IDA Enterprise Centre, Pearse St, Dublin 2, Ireland. Tel No: Dublin 6776133 Fax No: Dublin 6710135. Prices in Eire differ from those quoted in this advertisement.

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So, you need speed and power. You're looking for the fastest PC, but you also want ground-breaking multimedia performance. Well, look no further than the Viglen HomePro 450MS. Just look at the level of specification you'll get.

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Demanding business demands Viglen. Whether you want one PC or a total network solution Viglen can build it to suit your individual needs, including design & implementation of networking and Back Office applications. We provide the essential tools for business by combining performance and value in an easy to use package. We also offer a wide range of processors to meet your budget. All BizPro S systems now come supplied as standard with Microsoft® Office 97 SBE to cover all your business software needs and an LS-120 Superdisk which allows you to save 120Mb of data onto the supplied disk. On our server products, we also provide the network operating system of your choice and Microsoft® Back Office applications.

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PLEASE RING FOR DETAILS

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Monitor Viewing Area
15"=14" viewable
17"=15.3" viewable
19"=18" viewable.



MONITOR UPGRADE

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Upgrade from 15" to 19" monitor £230 exc VAT. (£270.25 inc VAT).
Upgrade from 17" to 19" monitor £150 exc VAT. (£176.25 inc VAT).

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- 4Mb AGP 1x Graphics Card
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- Microsoft® Windows® 98
- Microsoft® Office 97 SBE

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- 8Mb AGP 2x Graphics Card
- 3D Wavetable Sound
- 56Kbps modem
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- 2 serial, 1 parallel and 2 PS/2 ports
- 15" SuperVGA Monitor with stereo speakers
- Keyboard
- Microsoft® Intellimouse
- Microsoft® Windows® 98
- Microsoft® Office 97 SBE

			Exc Del. & VAT	Inc Del. & VAT	Order Code	Easy2Own
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Intel® Pentium® II Processor	300MHz		£949.00	£1144.45	SYZU3025	£36.54
Intel® Pentium® II Processor	333MHz		£979.00	£1179.70	SYZU3325	£37.67

Ⓒ BizPro S Power



- 100MHz FSB
- Medium Tower Case
- 64Mb PC100 SDRAM
- 512Kb cache on CPU
- 8.2Gb Hard Drive
- 32X Speed CD ROM
- 8Mb AGP 2X Graphics Card
- 3D Wavetable Sound
- 56Kbps modem
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- Keyboard
- Microsoft® Intellimouse
- Microsoft® Windows® 98
- Microsoft® Office 97 SBE

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Intel® Pentium® II Processor	400MHz		£1279.00	£1532.20	SYZP4025	£48.92
Intel® Pentium® II Processor	450MHz		£1409.00	£1684.95	SYZP4525	£53.80

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			Exc Del. & VAT	Inc Del. & VAT	Order Code	Easy2Lease
Intel® Pentium® II Processor	350MHz		£1649.00	£1961.08	SLSRD04S	£14.33
Intel® Pentium® II Processor	400MHz		£1779.00	£2113.82	SLSDD04S	£15.46
Intel® Pentium® II Processor	450MHz		£1909.00	£2266.58	SLSDD04S	£16.59

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APR 17.9%

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- Desktop Case
- 32Mb SDRAM
- 3.2Gb Hard Drive
- 32x Speed CD ROM
- 4Mb AGP 2x Graphics Card
- 3D Wavetable Sound
- 33.6Kbps modem
- 3.5" floppy drive
- 2 serial, 1 parallel, 1 games, 2 PS/2 ports
- 15" SuperVGA Monitor with stereo speakers
- Keyboard
- Microsoft® Intellimouse
- Internal Photocopier
- Programmable infra-red remote control
- Microsoft® Windows® 98
- Microsoft® Home Essentials

	Exc Del. & VAT	Inc Del. & VAT	Order Code	Easy2Own
Intel® Celeron™ Processor 300MHz 0Kb	£709.00	£862.45	SYHV30C5	£27.54
Intel® Celeron™ Processor 300MHz 128Kb	£749.00	£909.45	SYHV3AC5	£29.04
Intel® Celeron™ Processor 333MHz 128Kb	£779.00	£944.70	SYHV33C5	£30.16

Ⓑ HomePro Ultimate

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- Desktop Case
- 64Mb SDRAM
- 512Kb cache on CPU
- 6.4Gb Hard Drive
- 32x Speed CD ROM
- 8Mb AGP 2x Graphics Card
- 3D Wavetable Sound
- 56Kbps modem
- 3.5" floppy drive
- 2 serial, 1 parallel, 1 games and 2 PS/2 ports
- 17" SuperVGA Monitor with stereo speakers
- Keyboard
- Microsoft® Intellimouse
- Internal Photocopier
- Programmable Infra-red remote control
- Microsoft® Windows® 98
- Microsoft® Home Essentials
- 5 MMX enhanced titles

	Exc Del. & VAT	Inc Del. & VAT	Order Code	Easy2Own
Intel® Pentium® II Processor 266MHz	£949.00	£1144.45	SYHW2625	£36.54
Intel® Pentium® II Processor 300MHz	£969.00	£1167.95	SYHW3025	£37.29
Intel® Pentium® II Processor 333MHz	£999.00	£1203.20	SYHW3325	£38.42



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Personal PCs & Notebooks

In the field of personal systems Viglen PCs and notebooks cater for every need. All HomePro systems now come shipped as standard with Internal Photocopier. Viglen HomePro's are also all pre-installed with Microsoft's acclaimed Home Essentials software package. A wide range of processor options is available, from the Intel® Celeron™ processor 300MHz through to the latest Intel® Pentium® II processor running at 450MHz. So, whether you need an entry level family PC, the very latest in multimedia power or state of the art portable computing technology, Viglen has the solution.

Software Packages

MICROSOFT® OFFICE '97 SBE

Microsoft® Word '97 / Microsoft® Excel '97 / Microsoft® Publisher '97 / Microsoft® Outlook™ '97 / Microsoft® Financial Manager '97 / Microsoft® AutoRoute Express™ - Great Britain and More!

MICROSOFT® HOME ESSENTIALS '98

Microsoft® Word® '97 The world-famous power word processing package.
Microsoft® Works® 4.5 Five essential tools for easier everyday computing. Word processor, spreadsheet, database, graphics and communications tools.
Microsoft® Money '98 Complete set of financial management tools for managing your personal finances, budgets and investments.
Encarta World Atlas 3.0 Superb interactive and multimedia enhanced atlas. Ideal for both reference and education.
Microsoft Windows Puzzle Collection Exciting puzzle and game compendium, providing hours of fun and intrigue.

FIVE MMX TECHNOLOGY ENHANCED TITLES

Ultimate Human Body II, Timetable of Technology, The Third Dimension, International Space, PDD.

UPGRADE PRO GAMES PACKAGE

If you need the absolute best in 3D game technology, the 3DFX card is the one for you. This bundle includes 3DFX card along with Ft Racing and MDX Combat both optimised for the 3DFX card as well as a Microsoft Sidewinder joystick and games pad. £139 exc. Vat (£163.33 inc. VAT).

Ⓒ HomePro Awesome

Featuring the very latest in technology with 100MHz FSB (front side bus) combined with Intel® Pentium® II processor speeds of up to 450MHz, the HomePro Awesome is the most advanced multimedia system of its kind. AGP2x graphics with 8Mb of memory delivers video performance for the new generation of 3D games. With a 17" monitor, stereo speakers (including sub-woofer), and a host of software titles, there is nothing more you could want from a multimedia system.

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- 100MHz Front Side Bus
- Medium Tower Case
- 64Mb PC100 SDRAM
- 512Kb cache on CPU
- 8.4Gb Hard Drive
- 32x Speed CD ROM
- 8Mb AGP 2x Graphics Card
- 3D Wavetable Sound
- 56Kbps modem
- 3.5" floppy drive
- 2 serial, 1 parallel, 1 games, 2 PS/2 ports
- 17" SuperVGA Monitor
- Yamaha stereo speakers with sub-woofer
- Keyboard
- Microsoft® Intellimouse
- Microsoft® Sidewinder Joystick
- Internal Photocopier
- Programmable infra-red remote control
- Microsoft® Windows® 98
- Microsoft® Home Essentials
- 5 MMX enhanced titles

	Exc Del. & VAT	Inc Del. & VAT	Order Code	Easy2Own
Intel® Pentium® II Processor 350MHz	£1139.00	£1367.70	SYHA3525	£43.67
Intel® Pentium® II Processor 400MHz	£1269.00	£1520.45	SYHA4025	£48.55
Intel® Pentium® II Processor 450MHz	£1399.00	£1673.20	SYHA4525	£53.43

Ⓓ Dossier V

The newest member of Viglen's award-winning notebook range, the Dossier V offers an outstanding level of specification and value. Built around a 12.1" Dual Scan Colour LCD, and fully multimedia enabled, the Dossier V sets a new cost-effective entry point to the portable computer market.

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per month*
APR 17.9%

- Multimedia Sound
- Two Type II or one Type III PC Card Slots
- 1 Serial, 1 Parallel, 1 PS/2, 1 IRDA, 1 External Monitor and 1 USB Ports
- 12.1" Super VGA Dual Scan Colour LCD
- Inbuilt stereo speakers & Microphone
- Keyboard
- Trackpad Pointing Device
- NiMH Battery
- Microsoft® Windows® 98
- Lotus Organizer
- Deluxe Carry Case & AC Adapter

	Exc Del. & VAT	Inc Del. & VAT	Order Code	Easy2Own
Intel® Pentium® Processor with MMX™ Technology 233MHz	£949.00	£1144.45	SYDV26M5	£36.54

UPGRADE TO INTEL® PENTIUM® PROCESSOR WITH MMX™ TECHNOLOGY 266MHz, 64Mb RAM AND 4Gb HARD DRIVE ADD £150 EXC. VAT

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several people.**



The Kyocera ECOSYS FS-800 may be small, but it's a hot little printer to have around. Its impressive features make it ideal for small workgroups who need more power without the associated bulk and cost.

Not only do you get a speedy 8ppm, but an ultra fast processor means there's also a much quicker time to first page and a swifter return to application. Plus 4MB of memory means rapid printing of the most complex documents.

There's even more flexibility when it comes to network integration. With Postscript as standard, it can be used in mixed operating

environments. And with Kyocera's KPM software you can manage all your network printers, regardless of manufacturer, from one desktop.

Better still, it costs over 40% less to print using the FS-800 than it does with its HP equivalent. We've re-invented the printer engine so there's no need to replace expensive print cartridges. You simply add more toner. With this kind of saving, it isn't long before the FS-800 pays for itself.

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