STORE IT ONLINE: Gigabytes of Space for Your Stuff

E-Mail Headaches



SECURITY SUITES TOTAL PROTECTION AGAINST SPYWARE, HACKERS & SPAM

NEW! HIGH-DEF DVD First Hands-On Tests

How to Build the PERFECT PC

JULY 2006 * TECHNOLOGY ADVICE YOU CAN TRUST® * WWW.PCWORLD.COM





- >> ESSENTIAL SOFTWARE
- COOL GADGETS
- >> FREE WEB SERVICES





Remember when security meant antivirus?

(Now, you need a whole solution.)

Security solutions for your network have always been complicated. But these days, it seems every time you turn around there's a new and more complex security issue to address. CDW understands these challenges, but more importantly, we know that they will continue to evolve. Call us today and let our account managers and security specialists help you develop a multi-tiered system that covers gateway, server, client, and mobile security. So you can be ahead of your security issues rather than playing catch up with them.



Trend Micro™ InterScan™ Web Security Appliance

- Available in Standard or Enterprise Edition
- Stops spyware, worms, viruses and phishing at the Internet gateway
- Prevents spyware downloads, blocks access to malicious Web sites and detects spyware activity on clients to trigger agent-less cleanup
- High-performance scanning, granular policy administration and detailed reports increase spyware detection and awareness

Standard Edition 1-5 units, up to 2500 users Call CDW 954443



Nortel Networks Secure Router 1001

• Fast, secure and reliable WAN T1/E1 access for converged solutions

D TREND

 Features IPSec VPN services for secure voice/data transport and stateful packet inspection firewall

\$831.99 CDW 947874

Call McAfee

McAfee® Total Protection for Enterprise

- · Delivers comprehensive threat prevention and centralized management, which enables proactive blockage of known and unknown attacks to ensure business continuity
- Unified management platform drives operational efficiencies through centralized deployment, configuration and policy setting
- Strict monitoring of security posture from within the advanced graphical reporting



SonicWALL Content Security Manager 2100 CF

- · Offers a comprehensive suite of antivirus, antispyware and Internet filtering services on a standalone appliance
- · Works behind virtually any manufacturer's firewall to block threats at the gateway

\$1971 CDW 698434





Websense Web Security Suite Lockdown Edition

- Features an integrated Web security solution that blocks spyware, malicious code and other Web-based threats, including backchannel communications from infected machines
- Protects from phishing attacks and controls the sending and receiving of instant messaging (IM) clients
- Provides real-time security updates for immediate protection and includes robust reporting and analysis tools



-- WERSENSE





Cisco® ASA 5510 Security Plus Appliance

- · Delivers a wealth of advanced security and networking services for small to medium-size businesses and remote/branch offices in an easy-to-deploy, cost-effective appliance
- · Provides proactive threat defense that stops attacks before they spread through your network and controls network activity and application traffic

\$2613.99 CDW 792590

50-99 user license



CA eTrust Secure Content Manager

- · E-mail content security and antispam filtering
- · Comprehensive antivirus protection
- · Web content security and URL filtering Malicious code defense
- Data confidentiality

3Com Switch 4500

- . 24-port 10/100BASE-TX managed switch with two dual-personality gigabit ports
- Port-based Access Control Lists (ACLs) enable usage policies at each point of access to the network via the switch

\$509.99 CDW 875643





The Security Solutions You Need When You Need Them.



The Right Technology. Right Away."

CDW.com • 800.399.4CDW In Canada, call 888.898.CDWC • CDW.ca Your potential. Our passion.

Microsoft

A Global Hotel Company Analyzing 1.4 Million Records a Day. Running On Microsoft SQL Server 2005.



How does Hilton forecast demand for its 370,000 rooms and its catering services? They import data from six systems into one data warehouse requiring 7 million rows, and running on SQL Server™ 2005 with 99.98% uptime.* See how at microsoft.com/bigdata

SQL Server 2005



Toshiba recommends Windows® XP Media Center Edition. Qosmio™ G35-AV650 AV Notebook PC Enhanced with HD DVD capabilities, it's a revolution in portable AV entertainment. Intel Centrino Duo Mobile Technology Genuine Microsoft Windows XP Media Center Edition 2005 200GB using two serial ATA hard disk drives (100GB + 100GB HDD)1 HD DVD-ROM² and SuperMulti (double-layer) Drive³ Fingerprint reader to help prevent TOBNIBA unauthorized access Qosmio 17" diagonal 1080p Ultimate TruBrite WUXGA display

1. Hard drive capacity may vary. 1 Gigabyte (GB) means 10° = 1,000.000.000 bytes using powers of 10. See Hard Disk Drive Capacity Legal Footnote at www.info.toshiba.com. 2. Because HD DVD is a new format that makes use of new technologies, certain disc, digital connection and other compatibility and/or performance issues are possible. Advanced interactive and navigation features of the HD DVD Video format are not supported by this product. See HD DVD Technology Legal Footnote at www.info.toshiba.com. 3. Copy protection technology may prevent or limit recording or viewing of certain optical media (e.g., CD or DVD). 4. TV tuner will function only in the country where the computer was purchased. 5. External power required for viewing of HD DVD content. Qosmio is a trademark of Toshiba America Information Systems, Inc. and/or Toshiba Corporation. Celeron, Celeron Inside, Centrino, Centrino logo, Core Inside, Intel,



Inside you'll find HD DVD.

Outside you'll find a new world of entertainment.

INTRODUCING THE NEW QOSMIO™ AV NOTEBOOK PC FEATURING HD DVD.2 It's a multimedia powerhouse, packing a TVtuner,4 DVR, 1-bit digital amplifier and our highest-resolution screen into one sleek notebook. And it's the first notebook in the world with an integrated HD DVD-ROM drive, so you can watch movies in high definition wherever you want.5 Everything we put inside our notebooks helps you do more, see more, hear more and have more fun. What could you do with the new Qosmio™ G35? You don't have to wait to see.

What can innovation do for you? G35HD.toshiba.com 1.800.TOSHIBA

Ultra-Vivid Display

Watch movies on our highest-resolution screen ever

HD DVD Playback

Enjoy superior image quality and stunning sound in your HD entertainment

One-Touch Play

View and pause live TV and play CDs and DVDs with the touch of a button

4-in-1 Entertainment

Streamline your media with a PC, TV, DVR and stereo in one

Premium Audio System

Elevate your audio experience with ultra-rich, ultra-powerful sound

TOSHIBA Possibilities by design.

Intel logo, Intel Core, Intel Inside, Intel Inside logo, Intel Viiv, Pentium, Pentium Inside are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries. All other trademarks are the property of their respective owners. Screen images are simulated. While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice. For the most up-to-date product information about your computer, or to stay current with the various computer software or hardware options, visit Toshiba's website at posupport.toshiba.com. Reseller/Retailer pricing may vary. © 2006 Toshiba America Information Systems, Inc. All rights reserved.



WORRY LESS. ACHIEVE MORE.



Trend Micro Worry-Free Security Solutions

When you're chasing your ambitions, you can't slow down to worry about security. Get the all-in-one security designed specifically for Small and Medium Business—a breakthrough approach that provides Automatic Protection 24/7 with zero administration. Trend Micro. Far more protection, far less worry.

Get a FREE 30-day trial at www.trendmicro.com/worryfree





COVER STORY

82 The 100 Best Products of the Year

Our World Class awards for 2006 pay tribute to outstanding products and services as diverse as dual-core CPUs, image editors, wide-screen LCDs, e-mail apps, digital cameras, browsers, and (of course) PCs. Plus: We take a not-very-nostalgic look at some true technology lowlights—the 25 worst tech products of all time.

Cover photography by Marc Simon.





FEATURES

SECURITY SUITES

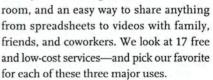
100 All-In-One Security

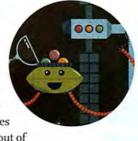
Today, threats to your PC take many forms, from simple viruses to sophisticated spyware. Though you can defend your system with separate tools by different makers, security suites promise integrated, comprehensive protection from dangers old and new. We tested ten such packages, pitting them against a rogues' gallery of malware.

ONLINE STORAGE

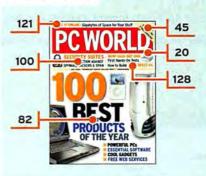
121 Store It on the Web

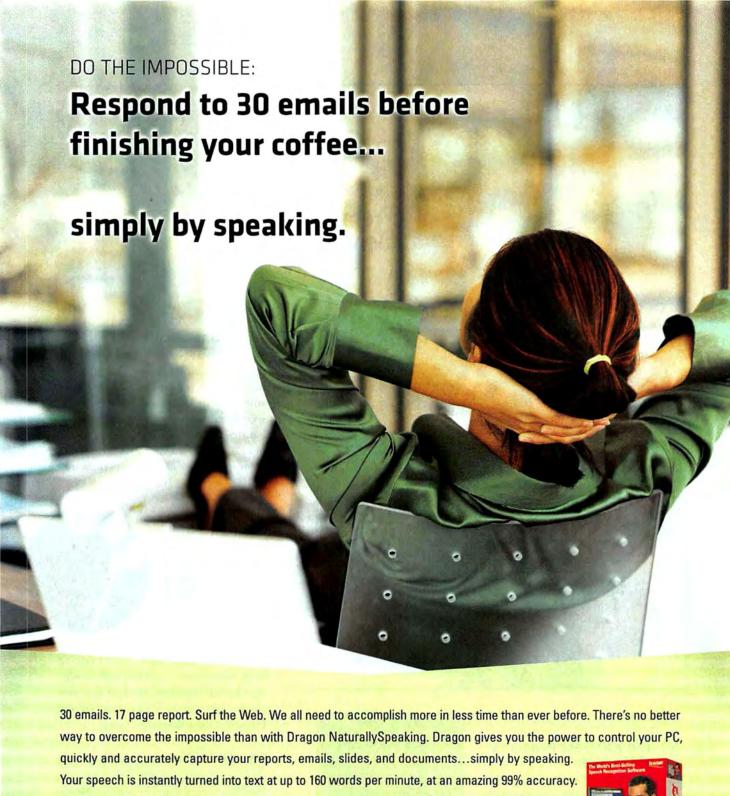
Online data storage services provide a hedge against hard disk failure with offsite backup, a convenient place to store files when you're running out of room, and an easy way to see









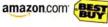


Get Dragon NaturallySpeaking now and make the impossible—possible!

Maturally Speaking

NUANCE.COM/NATURALLYSPEAKING

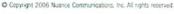
Available at











REVIEWS & RANKINGS

- 52 Audio Players Models from Apple, Creative, Dell, and SanDisk
- 57 Ultra Mobile PCs Samsung Q1, TabletKiosk EO
- 58 Top 10 Notebook PCs
- 60 DVD Software Ulead MovieFactory 5
- 60 Notebook PC Toshiba Satellite P105-S921
- 61 Plasma Displays Models from Maxent. Samsung, and Vizio
- 62 Top 10 Inkjet MFPs
- 64 Hard Drive Seagate Barracuda 7200.10 750GB
- 67 Top 5 NAS Drives
- 68 Accounting Software Peachtree Premium 2007
- 70 Video System MovieBeam Player
- 70 GPS Device Sony Nav-U NV-U70
- 72 Backup Utilities Apps from CMS Products, NTI, and Stardock
- 74 Value Desktop PC eMachines T6532
- 76 Digital Camcorder Panasonic VDR-D300
- 78 More Reviews See page 52 for a complete list of new products reviewed.

FIND-IT URLS

TO ACCESS INFORMATION about any item in PC World with an accompanying Find-It URL, enter find.pcworld.com/xxxxx (where xxxxx is the appropriate five-digit number) into your browser's location field. You'll jump to a Web page containing the information you want.

COMING UP IN AUGUST

The Top 10 Security Threats You Don't Know About: The latest on the battle for control of your PC. Affordable Dual-Core PCs: A new crop of value desktops promise high speed for around \$1500.

Internet News Wrangling: New sites and software make getting the news you need a breeze. Cheap Laptop Tweaks: Tips and

add-on hardware and software for getting more from your notebook.







74

DEPARTMENTS

- 17 Up Front A look behind this year's World Class Awards.
- 34 Letters A range of reactions to our "Fabulous Freebies."
- 41 Consumer Watch Charges for cell phone extras add up-and up.
- 45 Hassle-Free PC Refuse e-mail with huge attachments; use blindcopy addressing to protect recipients' privacy.
- 47 Gadget Freak Is the truly universal remote just a cruel mirage?
- 49 Bugs and Fixes What to do when security patches need patching.
- 152 Full Disclosure Craving a hot new product? Better cool off a bit.

NEWS & TRENDS

- 20 High-Def DVD Products Arrive They're here, but until the format war between Blu-ray and HD DVD gets resolved, consumers
- must carefully weigh their buying alternatives. 24 First Draft-N Networking Gear Disappoints Equipment based on the interim 802.11n wireless standard is slower than 802.11g products.
- 26 Microsoft Revamps Media Player In a major overhaul, the software acquires a new, Vista-style interface. We test-drive the beta.
- 28 Beware of Mailed Ads That Look Like Bills Companies are targeting domain name owners with marketing pitches disguised as invoices.
- 30 Plugged In AMD and Intel are poised to do battle yet again.

HERE'S HOW

- 128 Step-By-Step
 - Assemble your own fully equipped desktop PC.
- 132 Windows Tips
 - A safe way to run programs that you don't trust.
- 134 Internet Tips
- Identify IP addresses; create Web site shortcuts.
- 136 Answer Line
 - Transfer important data to a new drive partition.
- 138 GPS Tips
 - Use waypoints to customize your GPS device.

RESOURCES

- 12 How to Contact PC World
- 141 PC World Marketplace
- 151 Advertiser Index

THE POWER

CYBERPOWER RECOMMENDS WINDOWS® XP

FREE 1GB USB 2.0 Flash Drive

with Purchase of AMD Athlon 64 X2 Enable PC.

All Desktop systems come with 3 year Limited Waranty + lifetime toll free 24/7 techsupport.

Order Toll Free 800-707-0393

Cyber POWER Inc.

www.cyberpowerpc.com

GAMER ULTRA 9900 PRO

5000+ CPU S 1745 4400+ CPU S 1525 4200+ CPU S 1425

3800+ CPU \$ 1365 AMD Athlon™ 64

IWIDIA nforce-4 SLI Chipset MB w/ Dual 16X PCI-E Genuine Windows XP Media Center Edition 2005 w/SP2 Corsair 1024 MB-DDR2 667 Dual Channel Memory 250 GB SATA II 3.0 7200 RPM HD 8mb Cache MVIDIA Gelorce 7600 GT 256MB DORS 16X PCI-E W/TV out 19" Viewsonic 098 LCD Display LG 16X DVD-ROM & LG 16X DVD+-RW Drive nForce-4 7.1 3-D Surround Sound

AMD Athlon™ 64 X2 Creative Cambridge Inspire P78007.1 Surround Sound System Logitech Office 104 Keyboard

Microsoft" Optical intelli Explorer Mouse Aluminum CoolerMaster Praetorian 750

Middower Case 420W. Xtreme Liquid Cooling System Free 802.116 Wireless PCI Network Adaptor

GAMER ULTRA 8000 DREAM



AMD Athlon™ 64 X2

5000+ CPU \$ 1319 400+ CPU S 1099

AMD Athlon™ 64

NVIDIA nforce-4 SLI Chipset MB w/ Dual 16X PCI-E Genuine Windows® XP Media Center Edition 2005 w/SP2

Corsair 1024 MB-DDR2 667 Dual Channel Memory 250 GB SATA II 3.0 7200 RPM HD 8mb Cache NVIDIA GeForce 7600 GS 512MB DDR 16X PCI-E W/ TV out LG 16X DVD-ROM

LG 16X DVD+-RW Drive nForce-4 7.1 3-D Surround Sound

600 Watts Subwoofer Speaker System Logitech Office 104 Keyboard and Logitech Optical Wheel mouse

Raidmax Sagitta Mid Tower w/ MOD See Through Windows Free 802 116 Wireless PCI Network Adaptor





- · Smash the hourglass with the AMD Athlon™ 64 X2 dual-core processor.
- · Get powerful performance for your unique digital experience.

\$1,365

\$785

GAMER ULTRA SLI PRO



AMD Athlon™ 64 X2 5000+ CPU S2019 4600+ CPU S1885 4200+ CPU

AMD Athlon™ 64 FX-62 CPU \$2459

\$1,62**9**

NVIDIA nForce 4 StJ Chipset MB w/ Dual 16X PCI-E enuine Windows* XP Media Center Edition

Corsair 2048 MB-DDR2 667 Dual Channel Memory 300 GB SATA II 3.0 7200 RPM HD 16mb Cache

(2) NVIDIA Geforce 7900 GT 256MB DDR 30% performance gain over single video card solution

LG 16X DVD+-RW Drive & 16X DVD-ROM NVIDIA nForce-4 3D 7.1 Surround Sound Creative Cambridge Inspire P7800 7.1

Surround Sound System Logitech Office 104 Keyboard Microsoft Optical intelli Explorer Mouse Asus Vento 3600 Xtreme Gaming Case w/

500 Watt Power Supply Xtreme Liquid Cooling System Free 802.11G Wireless PCI Network Adaptor

GAMER ULTRA SLI ELITE



AMD Athlon™ 64 X2 4800+ CPU \$ 1455 4400+ CPU \$ 1279 4200+ CPU \$ 1179 4000+ CPU S 1145 3800+ CPU S 1119

AMD Athlon™ 64 3500+ CPU S 999 3200+ CPU S 965

\$965

NVIDIA nForce 4 SLI Chipset MB

with Dual 16X PCI-E Genuine Windows" XP Media Center Edition

Corsair 1024 MB-DDR2 667 Dual Channel Memory 2506B SATA II 3.0 7200 RPM HD 8mb Cache
(2) NVIDIA Geforce 7600 GS 512MB DDR3
Over 80% Performance
Gain over single video card solution

LG 16X DVD+-RW Drive & 16X DVD-ROM nForce-47.1 Surround Sound 600 Watt Subwoofer Speaker System

Logitech Office 104 Keyboard & Logitech Optical Wheel mouse Turbo X-Cruiser Case 420 Watt with See Through Windows. Xtreme Liquid Cooling System 6 Cool Custom Colors to Choose From

Free 802 11G Wireless PCI Network Adaptor

GAMER ULTRA SLI BASIC



AMD Athlon™ 64 X2 4600+ CPU S 1225 4400+ CPU S 1135 4200+ CPU \$ 1039 3800+ CPII \$ 975

FX-60 CPU \$ 1559 3500+ CPU \$ 855 3200+ CPU \$ 825

AMD Athlon™ 64

\$825

NVIDIA nForce 4 SLI Chipset MB with Dual 16X PCI-E nuine Windows® XP Media Center Edition 2005 w/ SP2 Corsair 512 MB PC3200 DDR400 Memory 250 GB SATA II 3.0 7200 RPM HD 8mb Cache (2) NVIDIA GeForce 7600GS 256N 16X PCI-E w/TV out. Over 80% Performance Gain over single video card solution LG 16X DVD+-RW Drive NVIDIA nForce-4 3D 7.1 Surround Sound

600 Watt Subwoofer Speaker System Logitech Office 104 Keyboard and Logitech Optical Wheel mouse Xtreme Liquid Cooling Syste Nzxt Nemesis Tower Case 425W w/

MOD See Through Windows

GAMER ULTRA CROSSFIRE 9000*



AMD Athlon™ 64 X2 5000+ CPU \$1519 4400+ CPU \$1295 4200+ CPU \$1195 4000+ CPU \$1159 3800+ CPU \$1129

AMD Athlon™ 64 3500+ CPU \$1015

\$1,015

Asus A8R-MVP Radeon Xpress200 CrossFire **Chipset Motherboard**

Genuine Windows® XP Media Center Edition

Corsair 1024 MB-DDR 667 Dual Channel Memory 250 G8 SATA II 3.0 7200 RPM HD 8mb Cache (2) 16X PCI-Express ATI Radeon X1600 256MB Video Card w/TV out & DVI

Powered by PowerColor Running in

LG 16X DVD-ROM & LG 16X DVD+-RW Drive NVIDIA nForce-4 3D 7.1 Surround Sound 600 Watt Subwoofer Speaker System Logitech Deluxe 104 Keyboard and Logitech Optical Wheel Mouse Aluminum CoolerMaster Praetorian 730

Midtower Case 420W. Xtreme Liquid Cooling System 6 Cool Custom Colors to Choose From Free 802.116 Wireless PCI Network Adaptor

MEDIA CENTER PC 5000



AMD Athlon™ 64 X2 4400+ CPU S 979 4200+ CPU S 879

AMD Athlon™ 64 FX-60 CPU \$1559 3500+ CPU \$695 3200+ CPU \$659

\$659

Nividia rForce 6100 Athon 64 Motherboard Genuine Windows XP Media Center Edition 2005 W/SP2

Corsair 512 MB PC400 Dual Channel Memory 250GB 7200 RPM SATA II 3.0 HD 8MB Cache 16X PCI EXPRESS NVIDIA GEForce 6100

Video Onboard LG 16X DVD+-RW Drive & 16X DVD-ROM 7.1 3D Wave Surround Sound System 600 Watts Subwoofer Speaker System 6 IN 1 Digital Media Reader Logitech Office 104 Keyboard and

Logitech Optical Wheel mouse Build In TV-Tuner w/ FM Radio + Media Center Remote Control
Turbo X-Opack Portable Case 400 Watt w/
See Through Windows

5 Cool Custom Colors to Choose From

GAMER ULTRA 7500 SE



AMD Athlon™ 64 X2 4400+ CPU \$ 1299 4200+ CPU \$ 1199 3800+ CPU \$ 1139

AMD Athlon™ 64 FX-60 CPU \$1729 3500+ CPU \$1025 3200+ CPU \$ 989

\$989

PC World Best Buy

NVIDIA nForce-4 SLI Chipset MB with 16X PCI Express Genuine Windows XP Media Center Edition

Corsair 1024 MB PC-DDR 667 Dual Channel Memory 250 GB SATA II 5.0 7200 RPM HD 8mb Cache ce 7300 LF 256MB DDR with TV out LG 16X DVD-ROM

LG 16X DVD+-RW DRIVE nForce-4 3D 7.1 Surround Sound 19" Viewsonic Q9B LCD DISPLAY Logitech X530 5.1 Subwoofer sperakers 6 IN 1 Digital Media Reader Logitech Office 104 Keyboard and

Logitech Optical Wheel mouse Turbo X-Cruiser Case 420 Watt with See Through Windows

AMD 7 Turion64



- Welcome to TRUE multi-tasking.
- Go beyond just keeping up. Set the pace.
- Multi-tasking with extreme performance.
- Outstanding 32- and 64-bit processing.

Notebooks Free Shipping!! All Notebooks come with 1 year Limited Warranty + Lifetime Toll Free 24/7 Techsupport.

GAMER XPLORER-64 9700



AMD Turion™ 64 Mobile Technology \$1389 MT-40 51259 MT-37 \$1199

AMD Turion 64 Mobile Technology -AMD PowerNow! Technology -HyperTransport Technology -Enhanced Virus Protection Genuine Windows XP Media Center Edition 2005 W/SP2 1024MB PC3200 DDR400 MEMORY 80 GB Ultra ATA100 Hard Drive Mobile ATI X700 16X PCI-Express 128MB Video 15.4" WXGA Wide-Screen TFT Display 1280x800 Pixels 8X DVD+-RW Rewriteable Drive 10/100 Network Card & 56K V.92 Modem Wireless 802.116 54Mbps Networking 3-in-1 Built-in Media Reader 1 Firewire IEEE 1394 & 4 USB 2.0 Ports Weight only 6.39 lbs 7 Custom Colors to Choose From

GAMER XPLORER-64 8700



AMD Turion™ 64 Mobile Technology ML-44 \$1329 ML-42 \$1239 \$1199 MT-37 \$1169

\$1139

AMD Terion 64 Mobile Technology



Genuine Windows® XP Media Center Edition 512MB PC3200 DDR400 MEMORY 40 GB Ultra ATA100 Hard Drive Mobile ATI X700 16X PCI-Express 128MB Video 15.4" WXGA Wide-Screen TFT Display 1280x800 Pixels 8X DVD+-RW Rewriteable Drive 10/100 Network Card & 56K V.92 Modem Wireless 802.116 54Mbps Networking 3-in-1 Built-in Media Reader 1 Firewire IEEE 1394 & 4 USB 2.0 Ports

\$1,**2**15

GAMER XPLORER-64 8500



AMD Turion™ 64 Mobile Technology MT-40 MT-37

\$1225

AMD Turion 64 Mobile Technology -AMD PowerNow! Technology -HyperTransport Technology -Enhanced Virus Protection Genuine Windows® XP Media Center Edition 2005 W/SP2 1024 PC3200 DDR400 Memory 60 GB Ultra ATA100 Hard Drive 15.4" WXGA Wide-Screen

TFT Display 1280x800 Pixels 8X DVD+-RW Rewriteable Drive 10/100 Network Card & 56K V.92 Modem Wireless 802.11G 54Mbps Networking 3-in-1 Built-in Media Reader 1 Firewire IEEE 1394 & 3 USB 2.0 Ports 1 PCMCIA Type II Slot Weight only 6.39 Lbs Free Carrying Case
5 Custom Colors to Choose From

www.cyberpowerpc.com Order Toll Free 800-707-0393

4802 Littlejohn Street, Baldwin Park, CA 91706 T. 626.813.7730 F: 626.813.3810 Technical Support: 877.876.4965 Hour: M-F 8:30am - 6:00pm Sat 9:30am - 3:00pm

Weight only 6.39 Lbs

7 Custom Colors to Choose From

* Optional Custom Paint Case is available. Picture is for display ONLY

Go to find peworld.com/53006

Cyberfower PCs use continue Microsoft Mindows . • sopra or cross someone some



PHONE: 415/243-0500

415/442-1891

E-MAIL: letters@pcworld.

www.pcworld.com

MAIL:

PC World Editorial 501 Second St. #600 San Francisco, CA 94107

STAFF E-MAIL ADDRESSES:

To contact any PC World staff member. simply format the address as follows: firstname_lastname@ pcworld.com

EDITOR IN CHIEF Harry McCracken CREATIVE DIRECTOR Robert Kanes EDITOR, PCWORLD.COM Ramon G. McLeod MANAGING EDITOR Kimberly Brinson EXECUTIVE EDITORS Edward N. Albro, Randy Ross TEST CENTER DIRECTOR Ulrike Diehlmann

DITORIAL

SENIOR EDITORS

Yardena Arar, Eric Dahl, Kalpana Ettenson, Rex Farrance, Karl Koessel, Tom Mainelli, Anush Yegyazarian SENIOR WRITER Alan Stafford

SENIOR ASSOCIATE EDITORS

Eric Butterfield, Anne B. McDonald, Dennis O'Reilly, Melissa J. Perenson Narasu Rebbapragada

SENIOR REPORTER Tom Spring

ASSOCIATE EDITORS Danny Allen, Laura Blackwell, Liane Cassavoy, Erik Larkin

SENIOR WEB PRODUCER David Lake

SENIOR COPY EDITORS

Stephen Compton, Steven Gray, Tracy Yee-Vaught, Sally Zahner EDITORIAL ASSISTANT Amber Bouman

FOUNDER David Bunnell

FOUNDING EDITOR Andrew Fluegelman ART AND DESIGN

ART DIRECTOR Barbara Adamson DEPUTY ART DIRECTOR Pierre Granier ASSOCIATE ART DIRECTORS Jeff Berlin, Beth Kamoroff, Carolyn Perot DESIGNER Chip Taylor

DIGITAL IMAGING SPECIALIST Rick Rizner

CONTRIBUTING EDITORS

Grace Aquino, Steve Bass, Andrew Brandt, Scott Dunn, Stuart J. Johnston, Stephen Manes, James A. Martin, Aoife M. McEvoy, Scott Spanbauer, Lincoln Spector, Kirk Steers, Carla Thornton, Dan Tynan

PC WORLD TEST CENTER

MANAGER OF BENCHMARK DEVELOPMENT James Motch

DATA MANAGER Jeffrey Kuta

SENIOR PERFORMANCE ANALYST

Elliott S. Kirschling

SENIOR DATA ANALYST Tony K. Leung

DEVELOPMENT ANALYST

Thomas Luong

PERFORMANCE ANALYST Chen Xing Wang

SENIOR TEST CENTER COORDINATOR Greg Adler

MAILING LISTS

Occasionally we make our subscribers' names available to other companies whose products may interest you. To have your name excluded from these mailings, send a request along with your mailing label to PC World Subscriber Services, P.O. Box 37571, Boone, IA 50037-0571 or e-mail us at pcwcustserv@cdsfulfillment.com.

BACK ISSUES

PC World issues are available in digital format starting with the July 2002 issue. Go to www.pcworld.com/singlecopy. PC World issues and article copies are avail-able on microfilm and microfiche from UMI, 300 N. Zeeb Rd., Ann Arbor, MI 48106-1346; 800/521-0600.

PCW COMMUNICATIONS

PRESIDENT, CEO Jeff Edman

VP. PUBLISHER - PC WORLD MAGAZINE Wayne Silverman

VP. PUBLISHER - PCWORLD.COM. CUSTOM PUBLISHING Michael Carroll

SENIOR VP. COO/CFO Vicki Peilen

VP. HUMAN RESOURCES Kate Coldwell

VP, CONSUMER MARKETING Shawne Burke Pecar

NEW PRODUCT ANNOUNCEMENTS

Send press releases via e-mail to newproducts@pcworld.com.

SUBSCRIPTION SERVICES

Access your subscription account online-24 hours a day, 7 days a week-at www.pcworld.com/customer. You can use online subscription services to view your account status, change your address, pay your bill, renew your subscription, report a missing or damaged issue, get the answers to frequently asked questions, and

MAIL: PC World Subscriber Services, P.O. Box 37571, Boone, IA 50037-0571 (Include a mailing label with correspondence.)

WEB: www.pcworld.com/customer

E-MAIL: pcwcustserv@cdsfulfillment.com (Send your full name and the address at you subscribe; do not send attachments.)

In the U.S. 800/234-3498 PHONE: New orders 800/825-7595

515/432-6994

QUESTIONS AND SUBMISSIONS

Send material electronically to the appropriate online address listed below, or mail it to PC World. We reserve the right to edit letters. PC World pays \$50 for published Here's How tips and questions; accepted submissions will be acknowledged by payment Editors are reserved. ment. Editors cannot guarantee personal responses to all questions.

ANSWER LINE: answer@pcworld.com

BUGS AND FIXES: bugs@pcworld.com

CONSUMER WATCH: consumerwatch@pcworld.com

FULL DISCLOSURE:

stephen_manes@pcworld.com

HARDWARE TIPS: kirk_steers@pcworld.com

HASSLE-FREE PC: hasslefreepc@pcworld.com

INTERNET TIPS: nettips@spanbauer.com

LETTERS: letters@pcworld.com

ON YOUR SIDE: onyourside@pcworld.com

PLUGGED IN: eric_dahl@pcworld.com PRIVACY WATCH:

privacywatch@pcworld.com

WINDOWS TIPS: scott_dunn@pcworld.com

REPRINTS AND PERMISSIONS

You must have permission before reproducing any material from PC World. Write to PC World, Reprints and Permissions, 501 Second St. #600, San Permissions, 301 Second St. #600, San Francisco, CA 94107, or e-mail permissions@pcworld.com; include a phone number. To order reprints of your company's editorial coverage in PC World, call 717/399-1900 ext. 135, If you think all
wireless connections
are the same, don't worry.
There are places
you can go for help.



Mental note: Certified Wireless USB is the inevitable wireless platform of the future. Like its wired predecessors, it connects up to 127 devices simultaneously. And moves huge amounts of data with speed (up to 480 Mbps),

security and simplicity. Brought to you by the minds behind original and Hi-Speed USB, this technology has been optimized for wireless connectivity. For more mind-bending facts, go to www.usb.org/LookForTheLogo.



FIRST PRODUCTS COMING SOON

ISN'T IT TIME YOU CREATED

Discover the possibilities with 1&1!

Whether you're new on the web or a seasoned professional, you'll find everything you need at 1&1. We offer hosting solutions to meet every need.



1&1 WebsiteBuilder

4 easy steps ...

 If you choose to receive the Premium Software Suite, you must commit to a one-year contract for the package you choose. \$6.99 shipping & processing fee applies.







YOUR WEBSITE?

90-DAY **MONEY BACK GUARANTEE** The only one in the Industry!

FREE DOMAINS INCLUDED	

Compare for yourself!

1&1

Y	AH	0	0!

DOMAINS INCLUDED	-	YAHOO!	Go Daddy	
.com, .net, .org, .info	BUSINESS	STANDARD	PREMIUM	
Price Per Month	\$999	\$ 19 ⁹⁵	\$ 14 99	
Included Domains	3	1	\$1.99/year with purchase	
Web Space	100 GB	10 GB	100 GB	
Monthly Transfer Volume	1,000 GB	400 GB	1,000 GB	
E-mail Accounts	2,000 IMAP or POP3	500 POP3	2,000 POP3	
Mailbox Size	2 GB	2 GB	10 MB	
Blog	✓	/	\$2.99/mo. for ad-free blogs	
Website Builder	18 Pages	/	Freeware	
Flash Site Builder	18 Pages	-	_	
Photo Gallery	/	/	/	
Geographic Map	/	/	_	
Driving Directions	✓	/	-	
Dynamic Web Content	/	/	-	
Web Statistics	✓	/	/	
E-mail Newsletter Tool	✓	\$10/month	\$9.99/year	
In2site Live Dialogue	/	_	_	
Chat Channels	/	-	/	
Form Builder	/	/	_	
Database	50 MySQL	MySQL Support	50 MySQL	
Search Engine Tools	/	Extra Charge Applies	\$29.99/year additional	
Premium Software Suite	/	-	-	
90-Day Money Back Guarantee	/	-	_	
Support	24/7 Toll-free Phone, E-mail	24/7 Toll-free Phone, E-mail	24/7 Phone, E-mail	

© 2006 1&1 Internet, Inc. All rights reserved. Prices based on a comparison of regular Linux prices effective 5/3/2006. Product and program specifications, availability, and pricing subject to change without notice. Visit 1and1.com for details. Go Daddy is a registered trademark of Go Daddy Software, Inc.; Yahool is a registered trademark of Yahool Inc.

Add pages





It's that simple.

IT'S A NOTEBOOK. IT'S A TABLET.



LifeBook® T4200 Tablet PC

or call I.800.FUJITSU.

Fujitsu recommends Microsoft® Windows® XP Tablet PC Edition

- · Configurable to only 4.3 lbs.
- · A versatile, built-in modular bay
- · Up to 8.5 hours maximum battery life
- Wide-viewing angle indoor or indoor/outdoor XGA displays





It's a notebook

that converts

into a tablet.

Why limit yourself to an ordinary tablet or notebook? The Fujitsu LifeBook T4200 Tablet PC with Intel® Centrino® Duo Mobile Technology instantly changes from one to the other with just a twist and flip of its brilliant, 12.1" screen. From the field to the back office, this no-compromise solution is the only mobile computing platform you need. With its built-in modular bay, you have the flexibility to burn CDs and DVDs, work up to 8.5 hours between charges, or trim down to a nimble 4.3 lbs. Fujitsu is the only convertible to feature a unique bi-directional hinge and the patented Bay-Lock™ feature— both designed to allow you to work the way you want to. To find out why the LifeBook T4200 Tablet PC is the one computer mobile professionals can count on, visit www.shopfujitsu.com/LifeBookT4000



THE POSSIBILITIES ARE INFINITE





How the 100 Best Products Got That Way

Eclectic. Inventive. Essential. Our World Class winners are all that and more.

IN 1983, PC World's founders had a brainstorm: Why not create an honor roll of terrific products in an array of categories? Their inaugural "World Class PC Contest" celebrated 14 very old-school items. (Hey, back in those days a monochrome dot-matrix printer could be the essence of cool.)

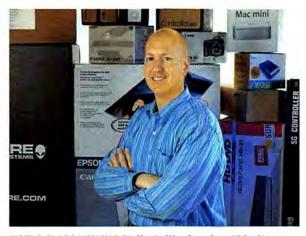
Fast-forward to 2006. The competition we now call the World Class Awards remains a popular yearly extravaganza, and not just in its traditional dead-tree form: 2005's version was by far the best-read story in the history of our Web site.

This year's edition—"The 100 Best Products of the Year"*starts on page 82. Once again, the festivities span both print and online. Head over to find. pcworld.com/53158 to see an expanded version offering extras such as online video and,

on June 6, a live chat session with Senior Writer Alan Stafford, who edited the feature and spearheaded the weeks of meetings, ballots, and impromptu hallway dialogues that determined our winners.

Perusing this year's roster, I'm struck by its sheer diversity. "The products we cover extend far beyond the PC, because technology today means so much more than simply sitting at a desk hammering away at a spreadsheet," Alan explains.

* WONDERING WHY "The Best Products of the Year" appear in our July issue? Glad you asked. For eons, we doled out trophies during the midyear PC Expo show. The show died, but the awards still flourish. Call them "The Best Products at This Particular Moment," if you prefer...



WORLD CLASS HONCHO Stafford with a few of our 100 winners.

"Traditional computing products are still important, of course, but our winners also reflect the smart technology that can now be found in everything from Web services to consumer electronics."

Does ranking such far-flung items from 1 to 100 seem quixotic? There was plenty of method to our madness: PCW editors painstakingly rated every contender on multiple measures. As always, the ultimate benchmark was whether a product or service did something worth doing, and did it well-a question that was equally applicable whether what we were judging was a laptop, a security suite, a music service, or an HDTV set.

But this year, we formally took each nominee's impact into consideration as well as its excellence. Those that were influential and widely adopted scored points here, including 2006's Product of the Year, Intel's Core Duo processor platform, which showed up both in powerful new Windows notebooks and in the first Macs that can dual-boot into Windows.

We took pains, however, to ensure that

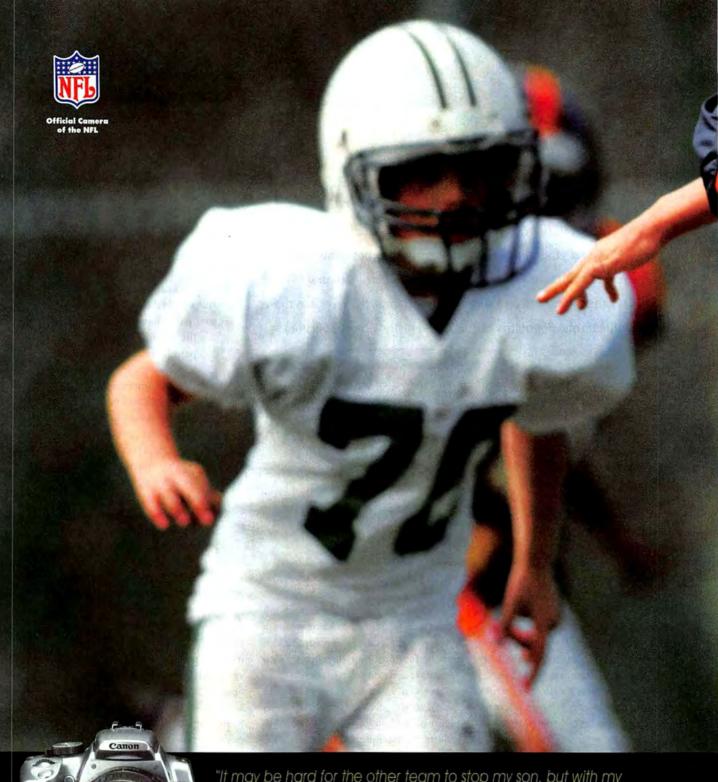
the list didn't devolve into a parade of items you already know about. In fact, I'd never heard of some of the products until a colleague made an impassioned case for them. (One example is JavaCool's EULAlyzer Personal, which gives cryptic, interminable software end-user agreements the onceover so you don't have to.)

Another methodology tweak for 2006: For the first time, we told editors to rate contenders for the list regardless of price tag. "That helped some products, like Yamaha's RX-V4600

receiver, which sells for \$1200," says Alan. We had a hunch, though, that this approach wouldn't result in big-ticket luxuries pushing out useful bargains, and it didn't. In fact, more than a quarter of the winners are free applications and services-the latest evidence that we technology users are truly living in a golden age of freebies.

If these awards are anything like last year's, they'll be read, reread, debated, and dissected until it's time for us to do our World Class thing all over again. And that's part of the fun. Let the conversation begin: Write me at mageditor@ pcworld.com with your take on our picks, and I'll report back at my Techlog blog (blogs.pcworld.com/techlog).

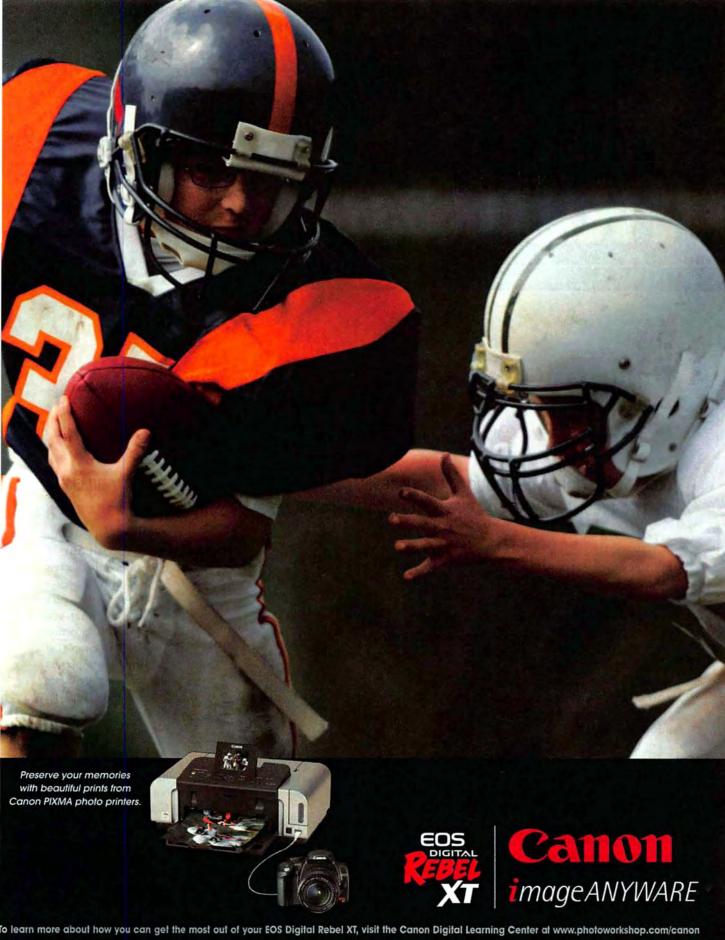
Harry McCracken is the editor in chief of PC World.



"It may be hard for the other team to stop my son, but with my Canon EOS Digital Rebel XT shooting at 3 frames-per-second, I always can."

My son is pretty unstoppable when he's on his game. And when he looks at the shots I took of him with my EOS Digital Rebel XT, so is his enthusiasm. When he sees himself in action, it makes him feel like a pro. The same way I feel using my Digital Rebel XT. Not only can I shoot at 3 frames-per-second, but with 8.0-megapixels of resolution, 0.2 second startup time and virtually

instant shutter response, I can catch all the action. Plus it's compatible with over 50 EF and EF-S lenses. I don't know what makes me more proud—my beautiful photographs, or the look on my son's face when he sees them. No wonder it's **America's favorite Digital SLR.***



©2006 Canon U.S.A., Inc. Canon, EOS, EOS Rebel and DiGIC are registered trademarks and PIXMA is a trademark of Canon inc. in the United States and may also be registered trademarks or trademarks in other countries. MAGEANYWARE is a trademark of Canon. All rights reserved. For more information, visit us at www.usa.canon.com/consumer or call 1-800-0K-CANON. The Canon EOS Digital Rebel XT is available in silver and black. All NFL-related trademarks are trademarks of the National Football League. "Source: 2005, The NPD Group." "As of April 2006, Printers sold separately. Printer output image simulated.



INSIDE

- 22 BLU-RAY AND HD DVD COMPARED
- 24 FIRST TESTS OF DRAFT-N WI-FI GEAR
- **26 HANDS-ON WITH THE NEW** WINDOWS MEDIA PLAYER
- 28 WATCH OUT FOR ADS THAT LOOK LIKE BILLS
- 30 PLUGGED IN: FASTER **DESKTOP DUAL-CORE CPUs**

DVD Goes High-Def

HIGH-DEFINITION DVD PRODUCTS ARE HERE, BUT CONSUMERS STILL FACE A THORNY DILEMMA AS TWO INCOMPATIBLE FORMATS BATTLE FOR THEIR DOLLARS, BY MELISSA J. PERENSON

AFTER MUCH BLUSTER and several false starts, high-definition DVD products for home and PC have arrived-but in two incompatible formats, Blu-ray Disc and HD DVD. That means buyers will have to carefully weigh their options as we wait to see which-if either-technology will inherit DVD's crown.

For the companies involved in developing the technologies, the stakes are high: In play is a lucrative pool of licensing fees,

not to mention bragging rights for dominating the living room. Proponents in each camp are quick to point out the advantages of their format over the other, but in reality, the specs are more alike than not. (See our chart on page 22



for a rundown of the differences between HD DVD and Blu-ray, as well as a list of released and upcoming products for each format.)

The most significant difference between the two is the number of high-definition

Hollywood movies that should become available for each format. Blu-ray Disc has the support of six major studios-all of the majors except for Universal, which is one of three studios backing HD DVD (the other two, Paramount and

Warner Brothers, are supporting both formats).

For now, early adopters have a clear choicewhich format you pick depends on what you want to do with the device. The HD DVD camp's initial living-room players and read-only drives are solely for playing HD DVD movies. The first Blu-ray Disc products are PC-centric data recorders, though they'll also play Blu-ray Disc movies due out in June. We tested the first shipping products

from each side, and found that they lived up to the hype.

The trickle of devices will turn into a landslide later this year. Blu-ray especially has an impressive array of announced offerings on the way-but the prices are almost twice that of comparable HD DVD devices. The first Blu-ray video players should cost \$1000 and up; you can score Toshiba's HD DVD player, the HD-A1, for \$500.

Also on the horizon: Microsoft will offer an external HD DVD drive for its Xbox 360 console, while Sony's highly anticipated PlayStation 3 will incorporate a Blu-ray drive.

HD DVD FOR HOME

THE FIRST HD DVD player to ship, Toshiba's HD-A1, both impressed and disappointed.

The HD-A1 produced video

that was eye-catchingly brilliant, as we observed with HD DVD movies such as Serenity and The Phantom of the Opera. And once you've seen the quality that a highdef movie can deliver. you'll be hooked.

We attached the HD-A1 to a Samsung 32inch plasma TV, whose

maximum resolution of 1080i matches the top output of the HD-A1. In the first 15 minutes of Phantom, the high-def advantage was clear, as compared with an upconverted standard-def Phantom DVD. Viewing the HD DVD, we observed more depth, better facial textures and skin tones on the dancers, superior handling of light, fewer artifacts, and details like the individual toes on the chickens' feet, which the comparison DVD rendered as blurry blobs.

But in design and mechanical playback, the HD-A1 falters. The unit is bulky, its buttons felt slow to respond, jumping among different parts of a disc was sluggish, and, most critically, the time the unit took to begin playing after we inserted the disc

seemed interminable. Plus. the unusually long remote is awkward to handle. These design quirks are the harder to swallow considering this is a next-generation product targeted at home theater lovers. who are used to the fast response and polished designs of today's DVD players.

We also got a sneak peek at Toshiba's \$3000 Qosmio G35-AV650, the first notebook containing a read-only HD DVD drive. This model, shipping in June, is a hefty desktop replacement unit packing

Today, which format you pick depends on what you want to do: play back video only, or record data as well.

> a 2-GHz Intel Core Duo T2500 chip, 1GB of RAM, 200GB of hard disk storage, a 17-inch, 1920-by-1200 display, nVidia GeForce Go 7600 graphics with 256MB of memory, an analog TV tuner, and HDMI output at 1080i.

BLU-RAY BURNERS

THE FIRST BLU-RAY offerings-Pioneer Electronics' BDR-101A (\$1000) and Sony's AR Premium VGN-AR19G laptop (\$3500)-are intended more for video and data burning, not home entertainment.

We tested the productionlevel BDR-101A drive using BD-R media from TDK, and close-to-final software from Sonic Solutions. The unit's appeal for data and video burning is undeniable: In PC World's tests, we were able to pack about 22GB on a single write-once disc (nearly five times the 4.7GB capacity of a single-layer DVD disc), in around 45 minutes. We achieved a throughput of 67 megabits per second, which is very close to the theoretical maximum of 72 mbps-or 9 megabytes per second-for 2X BD-R. It took just a bit longer than that to copy the same disc back to the hard drive.

The promise of so much capacity on a single disc is alluring, not only for storing video and music, but also for

> streamlining data backups. Backing up your data with the Pioneer will take a little bit longer than burning five single-layer DVD-Rs, but you'll save time compared with burning the same capacity to double-layer DVD+R. And that's not counting the time for disc swaps.

(Blu-ray movies were unavailable in time to test playback.)

However, Pioneer made some sacrifices to rush the BDR-101A to market. It does not read or write to CDs, and its write speeds to standard DVD formats are slower than with a dedicated DVD burner (8X DVD+R versus 16X for a standard DVD drive, for example). It also does not write to dual-layer 50GB BD media. The second wave of burners, due this summer. will handle CD writing and dual-layer writes, making those drives more appropriate for data pack rats who want maximum storage capacity.

Another drawback: The drive, geared for the professional authoring market, lacks any software for disc authoring and packet writing.

IN BRIEF

Product Pipeline

MICROSOFT BETAS: It's raining public betas in Redmond. Beta 2 of Microsoft Office 2007-which won't expire until the shipping product is in stores (in early 2007, Microsoft says)-is available for free download at find.pcworld.com/53618; read about it at find.pcworld. com/53620, And Beta 2 of Internet Explorer 7 for Windows XP SP2-the first IE 7 beta intended for a general audience-is also available for download (go to find. pcworld.com/53626); see our commentary at find. pcworld.com/53630.



PALM'S TREO 700P: A

Palm OS-based version of the Treo 700-the first Palm to support fast EvDO data networks-should be on sale by the time you read this. The Treo 700p is in many ways a lot like its Windows Mobile-based predecessor, the Treo 700w-but with improvements such as out-ofbox support for its use as a high-speed wireless modem (if you buy a data plan providing that functionality).

By contrast, the first laptop to boast a Blu-ray burner, Sony's VGN-AR19G, is clearly aimed at consumers. Out in June, the 8.8-pound unit had a preproduction drive, so we did not test its speed. But we had no problems playing discs we recorded in the Pioneer on the Sony, and vice versa.

For its price, you get a 2-GHz Core Duo T2500 processor, 1GB DDR2 memory, a 17-inch screen powered by nVidia GeForce Go 7600 GT graphics with 256MB of RAM, a TV tuner, and HDMI connectors, making it a wellequipped, if pricey, desktop replacement system.

CAVEATS AHEAD

CLEARLY, THESE new formats offer something beyond what today's DVDs can. As with any new format, however, change is already on the horizon-and you should be cautious before you leap.

For one thing, while the first Blu-ray Disc players for the living room, due out this summer, output at 1080p, none of the first-generation HD DVD players do so: 1080p produces smoother action sequences than 1080i. The latest HDTVs support 1080p, and Universal and Warner Brothers already encode their HD films at 1080p. Secondgeneration players will support 1080p, according to the HD DVD Promotion Group, but release dates are not set.

Another consideration: no managed content. All firstgeneration Blu-ray and HD DVD devices use an interim version of the copy-protection



scheme, which doesn't support the ability to legally copy a movie from disc to disc, or to another device, like a portable player (see find.pcworld. com/53540 for details).

Yet another gotcha: To enjoy the full-resolution HD image, you'll need a Highbandwidth Digital Content Protection connection over DVI or HDMI (go to find. pcworld.com/53542 for more on HDCP). Any HDTV with HDMI should be covered, but many PC monitors and older sets with DVI only may not. An HD copy-protection element allows Hollywood studios to degrade output over analog or non-HDCP video connections, to 960 by 540 pixels-half HD's full resolution. Most studios say they won't do this at the outset, but the capability exists-and many of those same studios made sure it was available.

And don't expect either camp to ship any living-room recorders until end of year or the beginning of 2007.

Too many factors are still up in the air to pick a winner in this format war. In terms of hardware, studio commitment, and pure specs, Blu-ray has the edge. However, HD DVD's significant price advantage may end up deciding the issue. If you don't need to be the first on your block with an HD movie player or you don't have dozens of gigabytes to archive, you may be best off waiting a bit to take the high-def DVD plunge.

FEATURES COMPARISON

SIDE BY SIDE: TWO FLAVORS OF HIGH-DEF DVD

BLU-RAY AND HD DVD specs are similar, but product types, costs, and availability vary widely.

SP	ECIFICATIONS	Blu-ray Disc (BD)	HD DVD	
Capacity Throughput		25GB single-layer BD-R/RE'/ROM; 50GB dual-layer BD-R/RE'/ROM	15GB single-layer R/ROM, 30GB dual-layer R/ROM, 20GB RW/RAM, 45GB triple-layer HD DVD-ROM	
		1X 8D = 36 mbps ²	1X HD DVD= 36,55 mbps ²	
Pri	ice of media	\$20 for BD-R, \$25 for BD-RE	Not available ³	
	nounced movie titles rough June 2006)	13	30	
	June 2006	Pioneer BDR-101A rewritable drive (\$1000); Sony AR Premium VGN-AR19G notebook with Blu-ray burner (\$3500)	Toshiba HD-A1 player (\$500), HD-XA1 player (\$800); Toshiba Oosmio G35-AV650 laptop with read-only HD DVD drive (\$3000)	
DEVICES	Summer 2006	Samsung BD-P1000 (\$999), Pioneer BDP-HDI (\$1800), and Sony BDP-\$1 (\$1000) players; Sony VGC-RC310G (\$2250) PC; PC burners from Ben0, I-O Data, LG, Lite-On, Samsung, and Sony ⁴	RCA HDY5000 player (\$500); Acer Aspire 9800 laptop with read-only HD DVD drive (\$2600)	
	Fall 2006 and later	Panasonic DMP-BD10 player (September, \$1500); Panasonic PC burner ⁴ (September); Sony PlayStation 3 console (November, \$499 and \$599); living-room recorders (Winter 2006)	Xbox 360 console external HD DVD drive '; living-room recorders (Winter 2006)	
Во	ttom line	With wider studio support, better specs, and data burning here today, Blu-ray has tons of potential. But being on the cutting edge will cost you dearly.	HD DVD devices currently deliver high-def content at a more reasonable price, but you'll find fewer hardware choices—and ultimately fewer movie choices.	

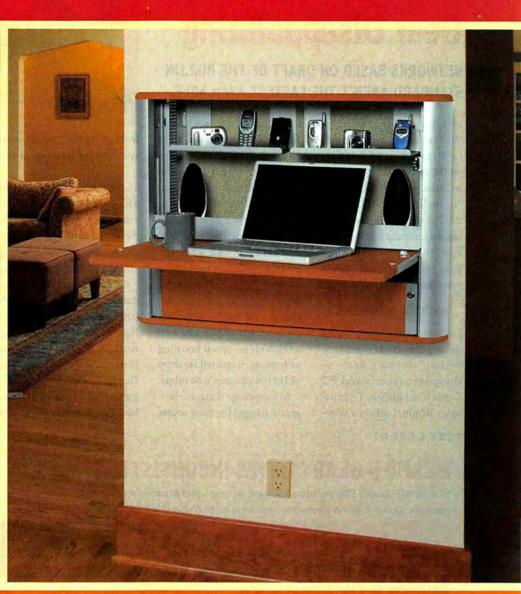
FOOTNOTES: 'RE is Blu-ray's rewritable disc format. 2CD and DVD throughput is expressed in megabytes per second (MBps); 36 megabits per second is 4.5 MBps, and 36.55 mbps is 4.57 MBps. 3 Media pricing not yet available. However, pricing is expected to be comparable to Blu-ray's. *Pricing and/or timing not yet announced. CHART NOTES: Both formats support the following video codecs: MPEG-2, MPEG-4, AVC, and VC-1. Both also support (at minimum) the Advanced Access Content System (AACS) copy-protection scheme. And both can play standard DVDs.

eNook[™]

the new Wall-Mounted Charging Workstation







a Gas Station for your Gadgets and a Work Space for you

It charges, it stores and it fits where you don't have a lot of room. It's called eNook, and it's a very multi-talented workspace. eNook has channels for you to plug in and charge all of your electronic gadgetry, like your laptop, cell phones, PDAs and digital cameras. Flip it up to store your laptop and lock it out of sight. Or flip it down and you have a handy desk. eNook's fabric covered back panel even serves as a bulletin board. Choose different color and fabric combinations to match any décor. Hey, it looks like your gear just found a home. Techn

ANTHRO
Technology Furniture
- Fast and Friendly!

Contact our friendly and knowledgeable folks at 800.325.3841 or anthro.com/pcworld.

First Draft-N Wi-Fi **Gear Disappointing**

NETWORKS BASED ON DRAFT OF THE 802.11N STANDARD AREN'T THE FASTEST AVAILABLE.

THE IMPENDING 802.11n Wi-Fi standard, which promises spectacularly fast networking, won't be final for months. But products based on the first draft of the standard are here. After conducting preliminary testing, however, we recommend that you pass on draft-n gear unless you simply must buy now.

BY THE NUMBERS

IN OUR TESTS, with WPA2 encryption turned on (see below), shipping draft-ncompliant routers and PC Cards from Buffalo Technology's Nfiniti, Linksys's Wireless-N, and Netgear's Range-Max Next lines were slower at close and medium ranges than older Linksys SRX400 products based on the Airgo Networks True MIMO Gen3 technology we looked at in February (see find.pcworld. com/53514). And while the average medium-range speed of 24 megabits per second for the draft-n products was more than double the 11-mbps rate for a standard 802.11g network with no speed-boosting technology, it still fell far short of 10/100 ethernet's 80 mbps.

At long-range distance, Netgear's RangeMax Next router



WI-FI BEFORE ITS time? Netgear's RangeMax Next (left) and Linksys's Wireless-N routers comply with an early version of 802.11n.

and PC Card did beat the SRX400 products (and all others in our test group)-but the Buffalo and Linksys could not hold a connection long enough to complete the test.

Products based on the same draft-n chips from Broadcom (the Buffalo, Linksys, and Netgear RangeMax Next lines) worked together fine. But Netgear's RangeMax Next Gigabit Edition router (with a gigabit ethernet switch and based on Marvell chips) con-

nected to the Broadcom-based products only at 802.11g speeds (Netgear says it has since fixed this with a firmware upgrade). Draft-n products using different chips also differ in how they handle interference from nearby networks (see find.pcworld.com/ 53556 for more information).

The final 802.11n standard promises theoretical throughput up to 12 times as fast as 802.11g's and interoperability certification by the Wi-Fi Alliance. Vendors hope-but don't guarantee-that you will be able to upgrade draft-n gear to the final standard.

WAIT IF YOU CAN

GIVEN THE underwhelming performance and the interoperability and interference issues of draft-n, we recommend waiting. But if you must buy right away, go with Airgo Gen3-based products for performance and stability; consider similarly priced draft-n gear (\$150 to \$180 for routers with 10/100 ethernet, \$120 to \$130 for PC Cards) if you want a chance of upgrading to the eventual standard. And if you do buy draft-n, look for firmware upgrades to enhance performance.

-Becky Waring

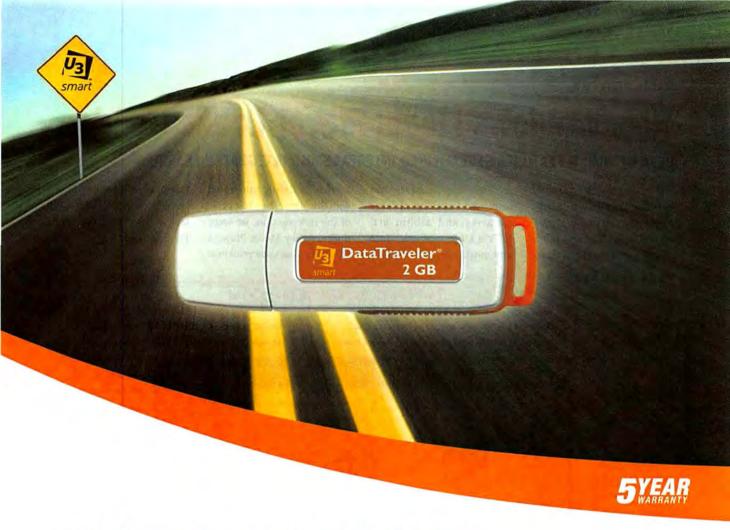
TEST REPORT

DRAFT-N GEAR PROVES INCONSISTENT

FILE TRANSFER SPEEDS on networks based on gear using Broadcom's draft-802.11n chips were generally slower than on a network employing Airgo Networks' True MIMO Gen3 technology.

	THROUGHPUT		
ROUTER/PC CARD	Close range (5 feet)	Medium range (25 feet)	Long range (50 feet)
Draft-n product lines (based on Broadcom chips)			
Buffalo AirStation Nfiniti Wireless Router & Access Point (WZR-G300N) and Notebook Adapter (WLI-CB-G300N) find.pcworld.com/53544	26.1 mbps	19.3 mbps	Failed
Linksys Wireless-N Broadband Router (WRT300N) and Notebook Adapter (WPC300N) find.pcworld.com/53546	27.5 mbps	24.3 mbps	Failed
Netgear RangeMax Next Wireless Router (WNR834B) and Adapter (WN511B) find.pcworld.com/53548	25.8 mbps	24.3 mbps	10.9 mbps
802.11g with proprietary MIMO technology (based on Airgo Networks'	True MIMO Gen3 chips)		
Linksys Wireless-G Broadband Router with SRX400 (WRT54GX4)and Notebook Adapter (WPC54GX4) find.pcworld.com/53552	42.6 mbps	30.7 mbps	2.4 mbps

HOW WE TEST: Speeds based on time required to transfer an 87MB file. Higher numbers are faster. For details, see find.pcworld.com/53554.



Life is an open road. Enjoy the drive.

Kingston's innovative U3™ DataTraveler® smart drive comes **preloaded with free U3 software** to open up a whole new world of computing. This innovative USB Flash drive gives you the freedom to easily move between PCs, storing your favorite files and applications together on one small drive.

It's ready to go with three trial software programs – Zinio digital newsstand, with magazines and textbooks in digital formats; ACDSee[™], award-winning photo management software; and Pass2Go[™], which memorizes your passwords and fills in online forms to save you time. Many more programs are available at U3.com.

U3 DataTraveler keeps your smart computing environment safe with password protection. It's backed by 24/7 tech support, a five-year warranty and legendary Kingston reliability. Learn everything you need to know about U3 at our U3 Center at kingston.com/U3pw.







buy.com.













Please note: Some of the listed capacity is used for formatting and other functions and thus is not available for data storage. For more information, please consult Kingston's Flash Memory Guide at kingston.com/Digital_Media_Guide. ©2006 Kingston Technology Company, Inc. 17600 Newhope Street, Fountain Valley, CA 92708 USA. All rights reserved. All trademarks and registered trademarks are the property of their respective owners.

Go to find.pcworld.com/53008

MEDIA PLAYERS

New Windows Media Player Looks Good

BETA OF WMP 11 FEATURES STREAMLINED INTERFACE AND INTEGRATED SEARCH.

MICROSOFT IS PUTTING a new face on Windows Media Player, the app's biggest overhaul in years. The beta of the updated client offers a cleaner, Vista-like interface and improved handling of large libraries and album art. MTV's Urge, a music store and portable-subscription service, is tightly integrated with the player. In a test drive of the new version, we were impressed by Media Player's streamlined, yet powerful new

appearance. Browse to find. pcworld.com/53594 for a full look at both Windows Media Player 11 and Urge.

-Eric Dahl



FOR ONCE, MANAGEMENT THAT MAKES THINGS SIMPLE.



The IBM eServer™ xSeries® 226 Express helps you manage your current servers from a single console. That's simple. And together with Intel® Xeon® Processors, the x226 can help meet your business needs now and as you grow. That's smart. The x226 can even alert you to potential hard drive problems up to 48 hours in advance. With IBM, innovation comes standard. It's that simple.

IBM eServer xSeries 226 Express

Great for file, print, remote office, and collaboration.

From \$919*

Up to two Intel® Xeon® Processors 3.40GHz 2MB L2 Cache

IBM Director monitors the system and provides alerts

Up to 16GB PC2-3200 DDR II memory

Up to 1.8TB Hot Swap SCSI storage

Limited warranty: up to 3 years on-site







IBM eServer xSeries 236 Express

From \$2,005°

IBM Financing Advantage only \$63/month²

Up to two Intel® Xeon® Processors 3.80GHz 2MB L2 Cache

Light Path Diagnostics pinpoints hardware problem areas

Up to 16GB PC2-3200 DDR II memory

Up to 2,7TB using 300GB Hot Swap SCSI HDDs

Redundant power capable

Limited warranty: 3 years on-site



IBM eServer xSeries 346 Express

From \$2.025

IBM Financing Advantage only \$64/month?

Up to two Intel® Xeon® Processors 3.80GHz

Two-way 2U rack server

Up to 16GB DDR II memory using 8 DIMM slots

Predictive Failure Analysis and Light Path Diagnostics help provide easy identification of hardware problems

Limited warranty: 3 years on-site

RAID Card. At no extra charge.

Purchase a select IBM eServer xSeries Express server and you can receive a RAID upgrade at no additional charge. Offer is good for a limited time only and subject to availability on the following systems: x206m Express, x226 Express, x236 Express, and x346 Express.

ibm.com/systems/innovate30

1 866-872-3902 mention 104CE20E

*All prices are IBM's estimated retail selling prices as of April 17, 2006. Prices may vary according to configuration, Reselters set their own prices, so reseller prices to end users may vary. Products are subject to availability. This document was developed for offerings in the United States IBM may not offer the products, features, or services discussed in this document in other countries. Prices subject to change without notice. Starting price may not include a hard drive, operating system or other features. Contact your IBM representative or IBM Business Partner for the most current pricing in your geography. I. IBM hardware products are manufactured from new parts, or new and serviceable used parts. Regardless, our warranty terms apply. For a copy of applicable product warranties, write to. Warranty Information, P.O. Box 12195. RTP, NC 27709. Attn: Dept. JDJA/RE203, IBM makes no representation or warranty regarding third-party products or services, including those designated as ServietProven. Telephone support may be subject to additional charges. For on-site labor, IBM will attempt to diagnose and resolve the problem remotely before sending a technician. On-site warranty is available only for selected compo may be subject to adoitional charges. For on-site labor, IBM will attempt to diagnose and resolve the problem remotely before sending a technician. On-site warranty is available only for selected components. IBM has not tested those products or being under the manufacturers of those products or help upblished announcements. IBM has not tested those products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products. 2. IBM Global Financing offerings are provided through IBM Credit LLC in the United States and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Monthly payments provided are for planning purposes only and may vary based on your credit and other factors, Lease offer provided is based on a FMV lease of 36 monthly payments. Other restrictions may apply Rates and offerings are subject to change, extension or withdrawal without notice. 3. Offer subject to the complete terms of the IBM eserver xSeries Express server and RAID promotion. IBM, the IBM logo, eServer and xSeries are trademarks or registered trademarks of International Business Machines Corporation in the United States and/or other countries. Intel, Intel Inside, the Intel Inside, the Intel Inside International States, other countries, or both. Other company, product and service names may be trademarks or service marks of others. © 2006 IBM Corporation. All rights reserved. CONSUMER ALERT

Beware of Mailed Ads That Look Like Bills

LISTING CORP. AND OTHERS SEND DOMAIN NAME OWNERS SERVICE PITCHES VIA U.S. MAIL.

THE DOCUMENT THAT arrived in the mail at the San Diego chapter of the American Society for Industrial Security looked just like a bill, complete with a perforated mail-in section and an envelope for sending payment.

"It had our domain name on it, and it looked like an invoice, so we paid it," explains Herb Thompson, chairman of ASIS San Diego.

But the document was actually a marketing pitch from a company called Listing Corp. For \$60, the company wrote. it would submit ASIS's Web site to 20 unspecified major search engines and follow up with quarterly e-mail reports. On the back of the document, in boldface capital letters, was a disclaimer: "This is not a bill. This is a solicitation. You are under no obligation to pay the amount stated above unless you accept this offer."

Thompson says ASIS never heard from Listing Corp. after sending payment, and keyword searches for ASIS a few months later produced no links to the organization's site. He feels his group was hoodwinked-and he isn't alone.

U.S. Postal Inspection Service spokesperson Paul Krenn says that following a "significant" number of complaints, the service is conducting a "review" to determine whether Listing Corp. is in violation of federal mail fraud laws. A Google search for 'Listing Corp.' turns up links to scores of complaints on blogs and

forums. And a spokesperson for MaxterHost.com, which had hosted Listing Corp.'s Web site, says it shut down the site in March because of complaints it received (the site has since reopened using another Web host).

Listing Corp. did not respond to repeated e-mail inquiries to addresses in its domain registration informa-

In researching this article, we found more than a dozen sites with similar marketing pitches. Some were defunct and could be accessed only by using Google's cached versions. The ones that were live in late April included three that have also drawn complaints for postal mailings: Internet Corporation Listing Service (www.icls.net), regis-

Website Listing ANNUAL WEBSITE SEARCH ENGINE LISTING FROM MAR 22, 2006 THRU MAR 22, 2007 \$35.00 \$35.00 TOTAL his Internet Listing offer is provided to millions of wohsites through THIS IS NOT A BILL. THIS IS A SOLICITATION. YOU ARE TED ABOVE UNLESS YOU THE RESERVED FOR

FINDING THE DISCLAIMER: You have to read the back of Listing Corp.'s invoicelike direct-mail pitch to learn that it's not a bill.

tion. The telephone number in that database, '1.3251782', is incomplete, and the postal address is for a Mail Boxes Etc. box in New York City.

NAME GAMES

LISTING CORP. IS just one of several firms that send similar mail to domain name owners. Over the past 15 months, the U.S. Postal Inspection Service Fraud Complaint System has logged 875 complaints about such mail, for losses totaling \$8161.

tered with a California address; Internet Listing Services Corp. (www.ilscorp.net), with a Netherlands address; and Internet Listing Service (or Services, depending on which page of the site you read) Corp. (www.ilscorp.co. uk), registered in Azerbaijan.

Efforts to contact these companies produced just one response, a phone call from a man who identified himself only as Zach and said he worked in Chicago for Internet Listing Services Corp.

"We take consumer complaints seriously and address any such situations immediately and cooperate fully with the appropriate governmental and consumer advocacy organizations," Zach said, adding that the firm has a "no questions asked" refund policy.

The Chicago Better Business Bureau has received 22 complaints about the company in the past 15 months, spokesperson Tom Joyce said, adding that the complainants eventually received refunds.

Zach said his company was not related to any of the lookalike services we found; but software that traces the IP addresses where sent e-mail messages are received indicated that our e-mail to both ILSCorp.net and ILSCorp. co.uk went to the same IP address, assigned to a computer somewhere in Canada.

CAREFUL READING

IF YOU RECEIVE questionable invoice-like mail, you can file a complaint with the FBI's Internet Crime Complaint Center (www.ic3.gov), the Federal Trade Commission (find.pcworld.com/53238), the U.S. Postal Service (find. pcworld.com/53240), or your local Better Business Bureau (find.pcworld.com/53242).

"I'm savvy enough to spot a scam," says New York photographer Martin Crook, who received two letters from Listing Corp. "But this thing really looked like a bill."

-Tom Spring



imagine having a better view of the big picture.

Imagine the potential you'll see in the 940T from Samsung. Thanks to its ultra-thin bezel, this 19" workhorse lets you move almost seamlessly from one monitor to another. A 1000:1 contrast ratio (1500:1 on the 17"740T) renders graphics and type crystal clear — reducing eye strain to help keep you sharp, productive, and more profitable. With award-winning displays from Samsung, it's not hard to imagine. To learn more, visit www.samsung.com/monitor



PLUGGED IN

ERIC DAHL

Faster Dual-Core Processors

PLUS: BUSINESS NOTEBOOKS GO WIDE SCREEN, AND WI-FI GETS TINY.

PROCESSOR WARS

The Buzz: Both AMD and Intel are shaking things up in the processor market as the chip titans prepare to launch new processors. AMD's transition is a simple one: By the time you read this, its desktop Athlon 64, 64-FX, X2, and Sempron lines will have moved to a new socket called AM2. The chief benefit of the socket change is support for DDR2 memory, which doesn't cost much more than standard DDR these days. That should provide a small speed increase for AMD-based PCs, but nothing like the boost expected from Intel's Core 2 Duo desktop chips, due this summer. Intel claims that its next-generation



CPU will provide a 40 percent increase in processing power and a 40 percent reduction in energy usage versus today's Pentium C 950 chips.

Bottom Line: If you need a new PC right this minute, an AMD-based AM2-socket system is a solid choice. But if you can hold off a bit, and you don't mind the double deuce references, it might pay to wait for the first benchmarks of Core 2 Duo PCs.

FUTURE TECH

BETTER CPU COOLING

IF YOU'VE EVER been concerned about all the heat your PC generates, you're probably familiar with thermal grease, a compound used to fill in the microscopic gaps between a computer's CPU and its heat sink. This type of thermal interface material helps to conduct heat away from the chip; the more efficient the TIM, the better the cooling. With processors getting faster (and hotter), researchers at Purdue University have been working to improve this interface, using carbon nanotubes. By arranging a "carpet" of heatconducting nanotubes on both surfaces, the engineers say they've created a high-tech Velcro of sorts that conducts heat dramatically more efficiently than current TIMs do.

WIDE SCREENS AT WORK

The Buzz: As the tech industry continues its push to make sure that movies look good on every conceivable device, wide-aspect notebook panels are becoming cheaper and more common. That's leading some notebook vendors to consider adding them to even plainvanilla laptops. Business notebooks from Fujitsu and HP are among the first to make the transition, but you can expect to see more businessfocused wide screens this year. Heck, even Lenovo is offering a wide-screen model in its ThinkPad line.

Bottom Line: The wide-screen look may be all the rage, but if you're primarily browsing the Web and working on office documents, you'll quickly start to miss the extra vertical resolution you get from a comparable standardaspect display. There's a reason books are taller than they are wide: Your eye can track only so far across a line.

TINY SD AND WI-FI

The Buzz: So your digital camera didn't come with built-in Wi-Fi? That's probably a good thing, since the Wi-Fi cameras we've testHERE\NOW

NAPSTER RADIO: New free offering lets you stream any track up to five times. napster.com

BLURB.COM: Beta site is attracting lots of buzz with its blog-tobook publishing option.

153 HOURS: That's the claimed battery life you'll get from a single charge with MobiBlu's B153 flash-based MP3 player. find.pcworld.com/53550

INSTANT MEDIA: Free client downloads and caches Internet video; it even delivers popular tech videoblog Rocketboom in HD, im.com

POPULAR SITES: An easy way to track new additions to del.icio.us. www.populicio.us/

ed haven't impressed. Plus, soon you'll be able to easily add Wi-Fi to any camera that uses SD Cards. A start-up called Eye-Fi is behind the technology, which packs a Wi-Fi adapter into a standard-size SD Card along with 1GB of storage. Eye-Fi's \$100

Eye-Film card can even automatically upload images to your computer or an online photo sharing service.

Bottom Line: Isn't miniaturization great?

Let's hope the Eye-Fi folks can make this work with more than just cameras. I know plenty of Treo users who'd love this card.

You can contact PC World Senior Editor Eric Dahl at eric dahl@ pcworld.com; visit find.pcworld. com/31643 to read additional Plugged In columns.

THE POWER OF TWO

Kodak Retina dual lens technology sets new standard in digital photography

Two lenses = one tiny package. That's the premise behind the new Kodak EasyShare dual lens digital cameras. Kodak Retina dual lens technology has created the world's smallest 10X optical zoom digital camera and the world's smallest ultra wide-angle digital camera—yet there is still plenty of room left for all of the powerful features you want, minus the big carrying case.

THE ULTIMATE DIGITAL CAMERA EXPERIENCE

The Kodak EasyShare V610 dual lens digital camera is the newest addition to the dual lens family. It is the world's smallest 10X optical zoom digital camera yet sports a wide range of leading edge features that combine to make a unique, enjoyable and productive digital photography experience for users. These features include a 10X optical zoom; Bluetooth® wireless technology to wirelessly share and print real Kodak pictures; one-touch picture fix and anti-blur technology insures beautifully crisp pictures; a large 7.1 cm (2.8") high resolution, indoor/outdoor display featuring a wide viewing angle; and the ability to capture image stabilized TV-quality video with audio at 30 fps (MPEG-4 compression). For a no compromise ultra wide-angle camera, the Kodak EasyShare V570 dual lens digital camera is the perfect choice.



Visit www.kodak.com/go/V610



THE INGENIOUS, 6.1 MEGAPIXEL V610

- World's smallest 10X optical zoom digital camera
- Bluetooth wireless technology
- . 2.8" LCD
- 6.1 MP prints up to 30" x 40
- Image stabilized TV-quality video with audio
- Two professional quality Schneider-Kreuznach C-Variogon lenses
- 22 scene modes including panorama stitch
- The exclusive Kodak color science chip

ALL GREAT CAMERAS DESERVE GREAT PRINTS

Printing your images from virtually any digital camera has never been easier. With the Kodak EasyShare photo printer 500, you can print waterproof, stain-resistant real Kodak pictures in seconds for as little as 29 cents each.*

THE V570 WITH KODAK EASYSHARE Photo Frame Dock 2

It's two cameras, it's one camera—the world's first dual lens digital camera—combines both ultra wide-angle (23 mm) and 5X optical zoom range. Plus, capture the bigger picture with panorama stitch mode, which stitches three shots together into one 180° view.



Always choose Kodak memory cards.

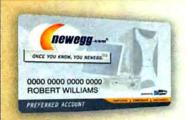




2005 BizRate Circle of Excellence Gold Honoree.



ONCE YOU KNOW, YOU NEWEGG.



No Payments for 6 months with your NEWEGG. COM PREFERRED ACCOUNT

Enjoy no payments for 6 Months and FREE rush processing with the Newegg.com Preferred account! It's the credit account customized for shopping at Newegg.com.

Never have to enter an account number again during checkout! With zero fraud liability, members-only benefits and low interest financing, it's the smart move.

AMD Athlon™ 64 3800+

Venice 2000MHz HT 512KB L2 Cache Socket 939 Processor

\$305 00



AMD Sempron[™] 64 3300+

Palermo 1600MHz HT 128KB L2 Cache Socket 754 Processor

\$125 00



"IF LOVING A CPU IS WRONG, WE





\$87 99

Trendnet TVP-SP1BK

ClearSky Bluetooth VolP Phone Kit (Skype) Bluetooth v2.0





\$349 99

Kodak V570 5.0MP Dual Lens CCD 2.5" 230K LCD 5X Optical Zoom 4X Digital Zoom





Olympus E-500 8MP 2.5" LCD

w/14-45mm & 40-150mm Dual Lens Kit 4/3" CCD Compact Flash

acer



\$349 88

Acer AST135-U-S3001 Sempron 3000+ 256MB DDR 80GB S3

UniChrome Pro Windows XP Home



\$184 99

Patriot 2GB (2 x 1GB) 184-Pin Unbuffered DDR 400 (PC 3200) Dual Channel Kit 2-3-2-5 CAS





\$289 99

Western Digital My Book 500GB 7200 RPM 16MB Cache USB 2.0/1394a External Hard Drive

Seagate



\$499 99

Seagate Barracuda 7200.10 750GB 7200 RPM 16MB Cache SATA 3.0Gb/s Hard Drive - OEM

Verbatim*



Verbatim 4.7GB 8X DVD+R

20 Pack Slim Case LightScribe Silkscreen-Quality Print

Enter Promo Code PCW20706 for a FREE T-SHIRT

AMD Athlon™ 64 4000+

San Diego 2000MHz HT 1MB L2 Cache Socket 939 Processor

\$369 00



AMD Athlon™ 64 X2 4600+

2000MHz HT 2x512KB L2 Cache Socket 939 Dual Core Processor

\$589 00





AMD

AMD Athlon™64 X2 4800+ Toledo 2000MHz HT 2 x 1MB L2 Cache Socket 939 Dual Core Processor

Dual-core technology is like having two processors, and two working together is better and faster than one working alone. Do more in less time.

s689 00

DON'T EVER WANT TO BE RIGHT."

SONY



\$1739 99

Sony Digital Living System 2.8GHz 512MB DDR2 200GB SATA NVIDIA GeForce 6200

acer



\$1999 99

ACET Ferrari4006WLMi AMD AMD Turion 64 ML-40 (2,2GHz) 15.4" Wide 100GB ATI Mobility

SONY



sggg 99

Sony VAI0 VGN-FS8900M 1.73GHz 15.4" Wide XGA 512MB 80GB 4200rpm DVD±R/RW

EPSON



\$99 99

Epson Stylus PictureMate C11C556001 5760x1440 dpi InkJet Photo Color Printer

PHILIPS

Lelt make thoses better



\$19 99

Philips 700MB 52X CD-R 100 Pack Cake Box DiscTop Speed and Quality Discs on the market

SAMSUNG



\$255 9

Samsung 920N-Black 19" LCD Monitor SXGA a-siTFT/TN 1280x1024dpi Analog RGB D-Sub

SAMSUNG



\$209 99

Samsung 740N-Black 17"
LCD Monitor 1280x1024dpi SXGA
15-Pin D-Sub Analog RGB

(IP)



\$279 99

HP Photosmart 2710 05552A 30ppm 4800x1200 InkJet MFC/All-In-One Color Printer

- 98% of orders ship within 1 business day
 40,000 customer testimonials
- 400,000 product reviews from customers
 "A" rating on ANY merchant ranking site

E-MAIL ACCOUNTS: MORE IS BETTER?

HOW CAR GPS SHAVED A TICKET SUPPORT ADVICE FROM A PRO



FREEBIES: THUMBS UP, DOWN

THANKS TO DYLAN TWENEY for "101 Fabulous Freebies" [May]! I downloaded two of the listed programs, Spybot Search & Destroy and Ad-Aware, and they solved a problem that had been vexing me for six months. ("Vexed" is a radically clean expression for what the little bug did to my computer and my attitude.) It's particularly nice that he recommended both programs, as what one misses the other gets. Many, many thanks.

Mac McCauley, Oregon City, Oregon

YOUR EXCELLENT ARTICLE missed one organizational tool that has been in constant use on my computer ever since Steve Bass recommended it in his online Tips and Tweaks column from last October [find.pcworld.com/53518].

Anyone who is attempting to keep on top of personal and professional data should give EverNote (www.evernote. com/en) a try. A paid version of the program is available, too, but I have been very happy with the freebie.

Carol Campbell, Truro, Nova Scotia

RECENTLY I NEEDED to print out my tax return, but I discovered that my printer was inoperative. Fortunately I had just installed PDF Creator (one of the freebies I found out about in your timely article). I used the utility to make a standard PDF

file, and then I e-mailed it to another location. In short, it's a good thing the May issue came out before April 15!

Also, since I have a habit of folding over a corner of the pages that I wish to return to, this is a very dog-eared issue.

> Bart Bresnik Mansfield, Massachusetts

YOUR INTRODUCTORY PARAGRAPH says, "These are the real deal-no hobbled half-products or demos that time out after 30 days." I beg to differ with regard to two downloads I checked out today.

One was Foxit Reader, which your article says includes "a 'typewriter' that lets you edit any text in the PDF." Technically correct, but it shows a message declaring that any text typed in will contain markings that can only be removed by the full paid version of the program.

The other download, the free version of eFax, allows only two free outgoing faxes, despite the article's implication that you can send and receive equally.

Wallace Cassel, Eugene, Oregon Editor's response: You zeroed in on the two items about which we've received several complaints. We could have been clearer about the tools' limitations, and we apologize for the confusion.

-Laura Blackwell

READERS' TIPS ON **EXTENDED WARRANTIES**

THANKS FOR AN excellent article ["Are Extended Warranties Worth It?" May].

I travel in my work, using PowerPoint presentations, and I bring along my own laptop and projector. To protect against theft and breakage, I obtained a rider on my house insurance for about \$50 a year that covers both devices.

Also, consider asking whether a warranty on your item could be negotiatedthe insurance company's offering, if available, likely would cost less than the vendor's, as you're already a client.

Fred Plastow, Warsaw, Indiana

ONE GOOD POTENTIAL Source of extended warranties may be the product's manufacturer, rather than the retailer. In researching a warranty for my 60-inch Sony TV, I found the best deal from Sony itself (\$229 for four years).

Gary McCready, Salisbury, Maryland

I CAN'T OVEREMPHASIZE the importance of an accidental-damage coverage policy for portable electronic items. My digital camera once slipped from my shoulder to a tile floor. Repairs, done at no charge but itemized on the invoice, came to more than three times the cost of the warranty-a bargain in my book.

Dave Samuels, Spring Hill, Florida

MANY STATES HAVE laws governing extended warranties. In my state, for instance, the law provides "automatic warranty protection [for four years] in addition to any 'express' written or verbal

TELL US WHAT YOU THINK

RATE THIS ISSUE by going to www.pcworld.com/pcwinput-you could win a \$300 gift certificate from Amazon.com. The site explains the official rules and offers an alternate method of entry into the prize drawing.

warranty provided by a manufacturer or seller." This law covers "all new and used goods purchased for family, household or personal use"-just about every kind of product except used cars.

When seeking a repair for a defective TV that was beyond the manufacturer's warranty period, I brought our state law to the manufacturer's attention, and the maker repaired the unit at no cost to me. Bill Harrington, Denmark, Maine

ONE POINT I would add to your article: Salespeople are often wrong about what is included in an extended warranty plan-the fine print may specifically exclude, say, accidental damage that the salesperson claims will be covered.

Steve Landes, Glen Ellyn, Illinois

Maybe you're

supposed to wait

years for your rebate

to come in the mail.

WHEN CARS GET TOO SMART

NOW WITH OnStar periodically sending you diagnostic stats about your car by email [find.pcworld.com/53510] and with Microsoft getting into the fray ["Cars That

Are Smarter Than You Are," Gadget Freak, Mayl, I can't wait till a hacker breaks into a car's onboard computer and gives carjacking a whole new angle. Or for the day when the idiot

"General Protection Fault" warning lights up on the dashboard. It'll almost make the jokes from years ago look prophetic.

Craig Steffler, Helena, Montana

A CLEAN E-MAIL ACCOUNT

IN THE MAY Consumer Watch ["The Ultimate Tech Consumer Guide"], you suggest creating a second e-mail account dedicated to online shopping. Good idea, though maybe not only for the reasonprivacy-you put forth. I maintain several separate e-mail accounts: personal, business, buying, and junk (for Web sites that require an e-mail address).

To my knowledge, my buying accountin contrast to the others-has never received a single piece of spam. That tells me that the shopping sites I buy from do not share my e-mail address with other parties. I can only say, Bravo for them!

Karen Brown, Loudon, Tennessee

MORE THAN JUST DIRECTIONS

THAT WAS A nice write-up on the different online map services and GPS systems ["Never Ask for Directions Again," May]. I have used both of the USB GPS systems Ireviewed online at find.pcworld.com/ 52540], and I prefer the Earthmate.

One thing not mentioned in the story is the wonderful ability to record and play back your trip. After being pulled over for speeding and charged with going 16 mph over the limit, I went to court and was able to show my route, speed, and direction. It knocked the ticket down to 6 mph over and put \$60 back where it belonged. Dan Ripley, Palmetto, Georgia

YOU GAVE HIGH marks to MapQuest for accuracy. However, for almost a year the Utah Department of Transportation has been trying to get MapQuest to up-

date information on renumbered exits for the state's major north-south highways-so far to no avail. On a map and accompanying directions that MapQuest provided me in March,

the stated exit numbers were still wrong. Walter Bornemeier, North Salt Lake, Utah

RECORD WAIT FOR A REBATE?

AS A SUBSCRIBER since the late eighties, I've seen my share of letters to the editor about rebate problems. I'm writing because I just got a check in the mail. Since I wasn't expecting it, I surmised it must be an old rebate. My current records go back only to 2004, and it wasn't among them. I didn't think it could be any older, but I dug out earlier records, and sure enough, there it was-a claim sent on August 24, 2003! So maybe the lesson is that you're supposed to wait for years, not months, for that precious rebate.

> Michael S. Comeau Canoga Park, California



THE MOST IMPORTANT **FUNCTION OF A CELL PHONE**

IN THE MARKET for a new cell phone, I was looking through your reviews ["Pick the Perfect Cell Phone," June, and other reviews at PCWorld.com].

Remarkably comprehensive! You seem to address everything from the operating system to the battery life, from the games available to how well the thing will toast a

bagel. Your reviews discuss just about everything that a person could possibly want to know about a specific phone, excepthow well does it work as a phone?

In particular, I am interested in knowing which cell phones provide the best reception in areas where the carrier's signal is weak. And how good is each device's audio reproduction? Discussions with friends suggest that I'm far from alone in wanting this kind of information.

Seems to me that your phone reviews are slanted almost exclusively toward early adopters and technology geeksthose consumers who happen to enjoy spending their time playing with built-in cameras, background images, ring tones, and 87 other features that have nothing to do with the core function of wireless voice communication.

Perhaps future phone reviews could be broken into two parts: function as a cell phone, and bells and whistles. By doing so, I think you would provide a service to a much wider audience.

Jim McCormack, San Diego

SUPPORT TIPS FROM A PRO

DESPITE THE LINE on the June cover-"Never Call Tech Support Again!"-you probably will have to call for help sometime. Will you get the support you want?

I work as a PC tech for the City of Omaha and Douglas County, supporting 3400 machines, associated users, and multiple networking technologies. I worked previously as a customer service

rep in the insurance industry for over 14 years. If I've learned anything about getting good service, and quickly, it is that it takes more than just not being rude.

Be nice and be willing to push compliments up when they are due. The tech wants to help you and will help you. That person did not cause the problem you want fixed, and doesn't have the intimate knowledge you have of your own system.

Be prepared to listen. Have a notepad

Getting good

service, quickly,

takes more than not

being rude.

handy. Ask for and write down a case or reference number for your call. The representative will often give you their name and ID number. Use their name, and be appreciative. "Jane,

thank you for helping me with my printer" will go farther than "Okay, it works now [click]," because invariably you'll call back for help with something else and you may get that same person.

Part of what grooms an okay tech toward becoming a stellar one is getting a caller who wants to tell their boss that they did a great job. That's why you keep a notepad nearby and request the representative's ID. Managers and supervisors live for escalations that begin with "No, it's not a problem. In fact, Jane was so nice and thorough that I wanted to make sure her managers knew about it." Be ready to explain exactly why you are complimenting the tech.

All of this will help keep that good tech available to you for the next call.

Michael Parkinson, Omaha, Nebraska

COREL WORDPERFECT OFFICE

KUDOS FOR ACKNOWLEDGING Corel WordPerfect Office as superior to Microsoft Office ["WordPerfect Office: A Better App Mix, for Less," Reviews and Rankings, June]. Your reviewer, Dennis O'Reilly, recognized a very powerful feature of WordPerfect-that is, its ability to give you finer control over the look of a document via the Reveal Codes option.

The software's other important features should be noted, as well. One is the program's ability to open and save Microsoft Word documents in their native format. While WordPerfect will convert Word documents. Microsoft's Office does not convert WordPerfect documents. And WordPerfect's Word Compatibility Toolbar gives you the option to save your documents in any of several formats: Word, PDF, HTML, or XML. Invaluable!

Another consideration to bear in mind is that Corel will give you an unconditional 30-day free trial of the suite.

Paul Garatt, Paducah, Kentucky

KEEPING UP WITH DIGITAL PHOTOGRAPHY

DIGITAL PHOTOGRAPHY IS coming into its own now. The pace of technological advancement in this realm is truly astounding to us old-timers. Shortly, digital "film" will surpass the image quality of real film, and the end of such progress is nowhere in sight.

These technological improvements allow more people to do serious photography. I know dozens of amateurs who have high-end cameras and want highend results. And I believe that artistic expression is a deep-seated human need.

For these reasons, I would encourage you to expand your coverage of products and technologies for high-quality, highend digital photography.

Bob Hall, Nantucket, Massachusetts

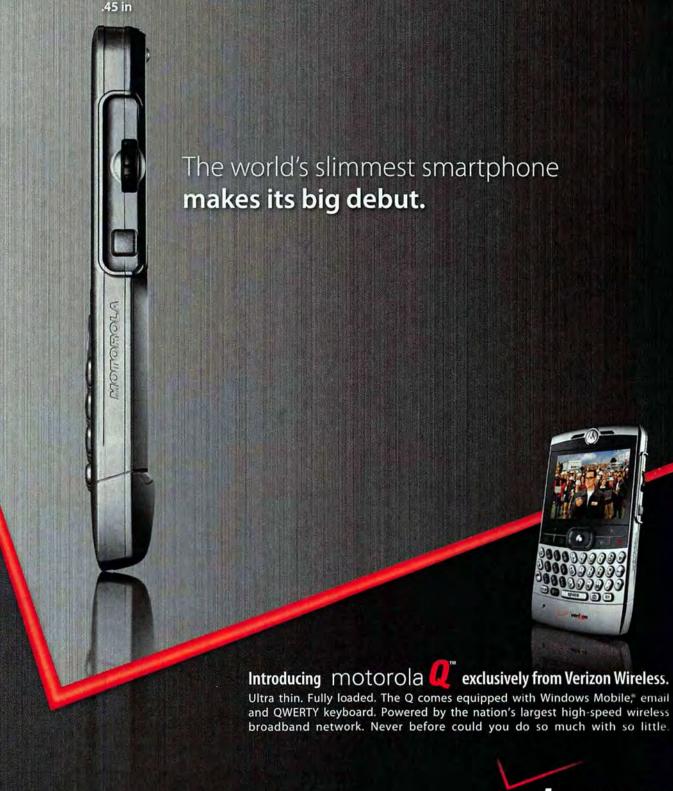
PC World welcomes letters to the editor. We reserve the right to edit for length and clarity. Send e-mail to letters@pcworld.com.

CORRECTIONS

IN THE JUNE issue's "New Devices Promise Protection in a Box" (News and Trends), one product-the Spam Cube-was, in one instance, incorrectly named.

In the May Hardware Tips, the instructions for updating your graphics board's device driver should have said to visit the vendor's Web site and search for a new driver for your card model on the site's Downloads or Support pages.

PC World regrets the errors.





Verizonwireless
www.verizonwireless.com/Q

Call our representatives at 1.800.VZW.4 BIZ

IMPORTANT CUSTOMER INFORMATION: The wireless broadband network averages 400–700 kbps based on our network tests with 5MB FTP data files, without compression. available in 181 major metropolitan areas covering over 148 million people, and is expanding coast to coast. Actual speeds and coverage vary. Coverage limitations, maps & details at verizonwireless.com. Email: Additional charges apply. Motorola, Q and their logos are trademarks of Motorola, Inc.



PRICING/AVAILABILITY: Prices, specifications, availability and terms of offers may change without notice. Taxes, fees, shipping, handling and any applicable restocking charges are extra and vary. Offers may be combined with other select offers or discounts. Valid for U.S. Dell Home Systems Co. new purchases only. Dell cannot be responsible for pricing or other errors, and reserves the right to cancel orders arising from such errors. TRADEMARKS/COPYRIGHT NOTICES: Intel, Intel logo, Intel Inside, Intel logo, Celeron, Celeron Inside, Centrino, the Centrino logo, Intel Core, Core Inside, Pentium, and Pentium Inside are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. All other registered trademarks or trademarks are property of their respective owners. Microsoft and Windows are registered trademarks of Microsoft Corporation. © 2006 Dell Inc. All rights reserved.

Shown with the crème de la crème 30" Dell" UltraSharp" Widescreen Flat Panel Display - add for \$2199.



smart. sexy. supersonic.

Introducing the fully customizable XPS™ 700. Get a 360° tour of this revolutionary new system at dell.com/fulltilt.

The new XPS 700 desktop combines brains, a bold forward-leaning design and blazing speed to deliver a truly dynamic desktop. Equipped with a burly Intel® Pentium® D Processor 930 with Dual-Core Technology, optional twin NVIDIA® graphics cards and revolutionary AGEIA™ PhysX™ technology, this workhorse is a multimedia maniac's dream machine. It's also the most configurable and expandable desktop we've ever made. Plus, all XPS products come with the support of a specially trained tech support squad. The XPS 700. It's the total package.



Want an up close and personal view of the brains and brawn?

Visit dell.com/fulltilt or call 1-800-695-5406

For hearing/speech impaired: 1-877-DELL-TTY (toll-free)



Reduce Your Passwords Astronomy To Just One

User ID Johnny_B_Easy
Password *******

LOGIN 0

CNET's Software of the Year

You Remember One Password, RoboForm Remembers the Rest - It's That Easy

- Memorizes your passwords and Logs You In automatically.
- Fills long registration and checkout forms with one click.
- Encrypts your passwords to achieve complete security.
- Stores your passwords on your computer, not on a server.
- Backs up your passwords, Copies them between computers.
- Syncs your passwords to Pocket PC, SmartPhone, and Palm.

"My favourite password manager... Easy to use, does not pop up ads in my face or grab information from me. Most importantly, it simply works well."

Financial Times

"Easy to use and without any hidden spyware... Innovative, lean, useful product." Wall Street Journal

Over 8 Million Downloads



WWW.ROBOFORM.COM/PCW

Download it for FREE today!



CONSUMER WATCH

YARDENA ARAR

AVOID UNEXPECTED CELLULAR CHARGES SAFER SURFING WITH AN ANTIPHISHING TOOLBAR

SORRY SUPPORT FOR BITDEFENDER

Cell Phone Fees That Sneak Up on You

New services are designed to add a few bucks to your monthly bill.

I USED TO think that the hardest part about owning a cell phone was settling on a rate plan: How many anytime minutes? How many prime-time minutes? National or local? Should my husband and I get a family plan? But lately I'm

thinking that the bigger challenge involves figuring out how to keep track of all the ways carriers and their partners are trying to milk me for additional dough.

Wireless carriers have jargon for this topic: ARPU (or just RPU), pronounced "ahr-pooh." The acronym stands for Average Revenue Per User (or Revenue Per User), and carriers are forever trying to raise it-that is, to squeeze more money out of us hapless users. Increasingly they're doing it through new services offered on their highspeed data networks and the sophisticated handsets built for them.

DATA IS GOLD

FOR CUSTOMERS, THE huge expansion in data services means that we'll be seeing a growing number of applications and services for everything from entertainment and companionship to shopping and GPS navigation aids. Some of these offerings will be ad supported, some will be subscription based, some will be pay-as-you-go, and some will be hybrids (some content may even be free, but with charges for premium features).

Where fees apply, they are usually indicated. (Be sure to note, however, whether it's a one-time fee or a monthly subscription.) For example, play a demo of the game Bejeweled on a Cingular phone (as

I did on my husband's Motorola handset, in the name of research), and you'll be asked whether you want to pay a few bucks to get the full version.

Fair enough, but apart from the way many small charges-for games, ring

tones, ring-back tones, music, and so on-can mount up, you might find additional charges that contribute to an unexpectedly big bill at the end of the month.

BUCKS FOR BYTES

WHATEVER YOU DO that involves sending data, the biggest hidden expense can be charges for use of the network itself, normally the amount of data you both send and receive (measured in kilobytes or megabytes). You constantly run into the disclaimer "carrier charges may apply," but you rarely see how much bandwidth you're using and what it costs if you aren't on an all-you-can-eat data plan.

Sometimes you get clues about impending charges: After I downloaded a game demo on my husband's phone, a message appeared saying that I'd used 46,000 bytes of his data plan's allotment.

> But such on-the-fly notification is atypical. Listen to a snippet of a song in the Sprint Music Store, for example, and even if you don't buy it, you'll be charged for the data if you don't have a Vision data plan.

> I should mention here that in researching this column, I was reminded of another cell phone pet peeve of mine, which is just how difficult it can be to determine cell phone service costs in general. Carriers often make you go through the motions of choosing a handset and signing up for service before they'll provide detailed information on what they'll be charging you.

MONEY FOR MESSAGES

MESSAGING-INSTANT, text, picture, you name it-can be another stealth budget buster. That's because, regardless of your data plan, most carriers charge separately for messaging.

On Verizon Wireless, for example, you pay 10 cents per message sent or received. Again, heavy users of messaging services can save money by purchasing bundles: Verizon offers a \$10-a-month messaging plan that covers unlimited messages to fellow Verizon customers, plus 500 messages to non-Verizon phone numbers; \$15 and \$20 plans cover 1000 and 2500 out-of-network messages, respectively.

The cost of text messaging may

come as a shock if you're accustomed to using AOL, MSN, or Yahoo instant messaging services on the desktop, where they're lumped in with all of your other Internet traffic and there's no economic incentive to keep conversations short.

On a cell phone, carriers typically limit text messages to a relatively terse 160 characters. But the bigger issue is that every message you send, regardless of how long or short it is, racks up a charge-typing and sending "OK" costs the same amount as transmitting a long

sentence-so it's to your advantage to keep your conversations brief and the number of messages you send to a minimum. (The exception to this rule is Sprint, which includes unlimited AIM, MSN, and Yahoo instant messages for Vision subscribers.)

Using your camera-enabled cell phone to send pictures is even more expensive: Cingular and Verizon both charge 25 cents per picture message sent or received (plus data charges if you're not on an all-you-can-eat plan). With Sprint, if you don't have a Power Vision plan, you must pay \$5 a month for access to its Picture Mail service, plus 2 cents per KB for each photo you upload. Consequently, sending a typical 50KB image would cost \$1 on top of the \$5 fee.



That's a lot more than the U.S. Postal Service charges for a picture postcard.

In fairness, your photo will get where it's going much faster, and the temptation to bombard friends with images probably isn't as strong as the urge to continue responding to text messages.

HIGH TAB FOR TEXTING

WHAT'S INSIDIOUS ABOUT text messaging is the way it's being used to power services (and more income for carriers). American Idol voting is just the tip of the iceberg: PayPal, for example, now lets you initiate payments via text messaging.

SMS.ac, a popular teen community site, invites you to sign up for a dizzying variety of message services. You can receive messages from people who want to meet you based on the profile that you create when you sign up via the Web. You can get news alerts. You can arrange for calendar reminders. You can obtain photos. You pay SMS.ac only for the messages it sends you, but they cost up to 50 cents apiece, and the charges show up on your phone bill. If you become popular on the site, you could incur big charges without realizing it until your bill comes. And you have to send text messages to stop the messages-so you pay to stop paying.

PRIVACY WATCH

Protect Yourself With an Antiphishing Toolbar



THINK YOU CAN spot a phishing site? Don't be too sure. A recent study determined that a well-constructed fake Bank of the West page fooled 90 percent of the study's participants, including some very technically sophisticated people. Fortunately, sev-

eral tools can help ensure that you don't fall for such a con.

A number of companies make free browser plug-ins that can detect phishing sites. Most give you a visual warning when you're on a site that's trying to pass itself off as something it's not. Some assemble a list of fake sites based on reports from users who've stumbled upon them. Others analyze the site's address to see if it's misleading: For instance, the URL might have "ebay" in it when it's not actually a part of ebay.com. Several toolbars use a combination of approaches.

The Netcraft toolbar (find.pcworld.com/53176) is my favorite. It shows you who the site is registered to, and provides a "risk rating" that can help you quickly decide whether you want to enter your password. A close second comes from TrustWatch (www.trustwatch.com), which makes a toolbar for Internet Explorer that validates legitimate Web sites and, like Netcraft, can provide a detailed site report. TrustWatch's reports let you know whether the site is included on any blacklists of suspect sites and whether it uses SSL technology for secure transfers. TrustWatch also makes an extension for Firefox that embeds site-report links in Google search-result pages.

Other good options abound. The EarthLink Toolbar with ScamBlocker (find.pcworld.com/53178) alerts you with a popup message when you visit a site that has hosted phishing attacks. (You don't need to be an EarthLink subscriber to use the tool.) Corestreet's SpoofStick (find.pcworld.com/53180) helps clue you in to a phishing site by putting the domain name of the site that you're visiting in huge, bold letters in IE's toolbar, Cloudmark's IE Toolbar (find.pcworld.com/53182) automatically blocks sites known to host phishing scams. And eBay offers a toolbar (find.pcworld.com/53184) equipped with an Account Guard feature that warns you if you're about to enter your eBay or PayPal password in a fake Web site's log-in page.

The phishing study cited above, however, found that a guarter of participants didn't look at phishing clues already present in browsers, like the padlock icon and address bar. These days it doesn't pay to be asleep at the wheel as you cruise the Net.

-Andrew Brandt

Sketchy Support for BitDefender Buyer

IN AUGUST 2005, I purchased the antivirus application Bit-Defender as a one-year subscription (it earned a Best Buy in your March 2006 roundup). Six months later I started receiving warnings that my subscription had expired. I called the customer service number and was told to uninstall and then reload the software. The warning still appeared. I sent two e-mail messages describing my problem but got no answers. Four more phone calls to tech support led to a recording each time. I have received neither responses to my e-mail nor any returned phone calls. Currently I have no antivirus protection on my laptop.

> William Kelly Lower Gwynedd, Pennsylvania

On Your Side responds: This wasn't the only letter we received alerting us to Bit-Defender's slow response time, which may be due in part to the fact that the vendor is based in Romania. In the United States, BitDefender has only two tech support people, but the company says that it is expanding its U.S. staff and adding an 800 number. If the U.S. lines are busy, calls will be redirected to English-speaking tech support representatives in Romania. In the meantime. BitDefender recommends accessing its live chat for technical support. Kelly did get his problem fixed over the phone, ten days after his original call; the company extended his subscription to compensate him for the delay.

-Amber Bouman

SMS.ac is clearly mindful of the potential for overenthusiastic customers to rack up big bills. Among other things, it published a Mobile Consumer Bill of Rights on its Web site, which includes a clause stating that "mobile consumers have the right to know exact costs for all products and services prior to purchase." But the fact remains that you don't always have all this information at your fingertips when you're on your handset.

SUBSCRIPTION FEES

SUBSCRIPTION SERVICES ARE another source of swollen monthly cell phone bills. Amp'd Mobile, the teen-oriented cell phone service, now offers its customers the ability to buy movie tickets from their cell phones—after they sign up for a \$2-a-month subscription. But you'll still pay the usual convenience fee for buying tickets online. Do you really want to pay \$24 a year just to use a feature that's widely available on an Internet-connected PC?

Most real-time navigation services catering to GPS-enabled cell phones will also be available exclusively via subscription, with monthly fees in the vicinity of \$10. But downloading map and routing information may result in additional charges.

Your best defense as a smart cell phone

shopper: Ask carrier sales reps for pricing details that will help you determine the true costs of any services that interest you, and ask if there's any way to track your bandwidth and message usage between monthly bills. Cingular, for instance, shows data usage as well as voice usage on customers' account pages.

Look into alternative services and workarounds. For example, on many PDAphone hybrids you can avoid instant messaging fees by using Intellisync Verichat, a universal IM client that circumvents messaging fees, at a cost of \$25 a year. And instead of downloading songs from a carrier's music service, get a phone equipped with a memory card slot so you can play tunes you've ripped on your PC.

Don't give your cell service easy access to your wallet. Say pooh to ARPU.

Yardena Arar is a senior editor, Andrew Brandt is a contributing editor, and Amber Bouman is an editorial assistant for PC World. E-mail them at consumerwatch@pcworld.com, privacywatch@pcworld.com, or onyourside@pcworld.com. To read previously published Consumer Watch, Privacy Watch, or On Your Side columns, visit find.pcworld.com/31703, find.pcworld.com/31706, or find.pcworld.com/317079, respectively.



Powerful Technology, Built for Advanced Applications

Get the power to run multiple demanding applications when you choose an Ajump Entertainment System based on the Intel® Pentium® D Processor.



Record and enjoy TV shows, listen to music and share your favorite pictures.

Entertainment System

Model # Aguila 450i

- ✓ Intel[®] 945G Chipset Motherboard
- ✓ Windows XP Media Center 2005 SP2
- ✓ Intel[®] Pentium[®] D Processor 920
- ✓ 1GB Memory & 250GB SATA-II HD
- ✓ NVIDIA GeForce 7300GS 256MB DDR PCIe x16 w/ TV-Out & DVH
- ✓ WinTV-PVR-150MCE TV Tuner
- ✓ 16X DVD-ROM and Dual Layer DVD±RW

FREE Wireless Keyboard & Mouse

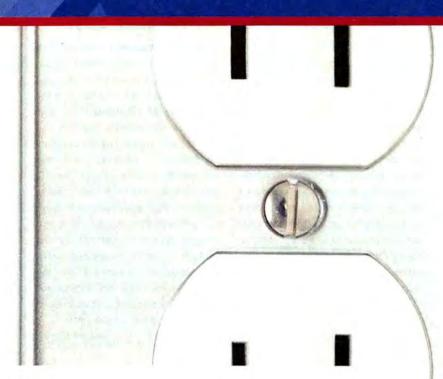
Toll Free 1-877-MY-AJUMP (877-692-5867)



Offer good from 6/15/06 to 8/15/06.

©2006 Ajump.com inc., All rights reserved, Celeron, Celeron Inside, Centrino, Centrino Logo, Core Inside, Intel, Intel Logo, Intel Core, Intel Inside, Intel Inside Logo, Intel SpeedStep, Intel Vivi, Itanium, Itanium Inside, Pentium, Pentium inside, Xeon and Xeon Inside are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

43



more than just an

OUTLET

IT'S YOUR HOME NETWORK

The ZyXEL HomePlug Turbo PL-100 allows you to setup a complete home network without hassle. Simply plug the PL-100 into an existing power outlet and it will transform your electrical power lines into a house-wide network infrastructure. The PL-100 allows users to perform a wide array of networking applications such as High Speed Internet Access, Streaming Multimedia, HDTV and DVR.





PL-100 PowerLine Ethernet Adapter:

- > Up to 85 Mbps for high performance and speed
- > Advanced security and protection
- > Desktop design that won't cover your entire outlet
- > Plug in additional units anywhere you need a network connection











For more information, please visit www.us.zyxel.com/powerline



HASSLE-FREE PC

STEVE BASS

Get Relief From Annoying E-Mail

Avoid large file attachments; protect yourself from spam and dopey messages.

DO ASSOCIATES E-MAIL you humongous attachments? Do dopey friends not know how to blind-copy e-mail to protect your privacy? I have a few ways for you to be less annoyed-and less annoying.

The Hassle: Don't laugh, but I'm still on dial-up (I live out in the sticks and can't get broadband). I've asked my friends not to send file attachments the size of the Poseidon, but they often forget. Other than getting new friends, do you have a solution?

The Fix: When I travel and stay in motels that offer only dial-up (my wife calls me cheap; I think I'm thrifty), I skip gargantuan downloads. It takes just a few minutes to change the settings in your e-mail program. In Outlook Express, create a rule: Select Tools. Message Rules. Mail. Modify, and then scroll through the conditions and check Where the message size is more than size. In the 'Select actions for your rule' menu, scroll to and check Do not Download it from the server. (Unfortunately, you'll never know that the person sent you an e-mail.) In the Rule Descrip-

In Outlook 2003, choose Tools. Options, select the Mail Setup tab, click Send/Receive. Edit, and check Download complete item including attachments and Download only headers for items larger than xx KB (where xx is a number you pick from a drop-down menu). Be sure to check the box next to Receive mail items.

The Hassle: I e-mail a message to a bunch of friends, and they complain that the list of addresses is longer than the actual note. What's the deal with my e-mail messages?

The Fix: I'll bet you're adding e-mail addresses to the To: field-and broadcasting everyone's address in your e-mail. Instead, maintain everyone's anonymity by using your e-mail's blind-copy feature. Finding it can be tricky, however. In Outlook Express, select View and check All Headers. In Outlook, choose View and

check Bcc Field. In Netscape, click the To field and scroll to Bcc. In Yahoo Mail, click BCC. The easiest are AOL.com, Eudora, and MSN Hotmail-

> just fill the 'bcc' field. The classic AOL online service is more work: In the Copy To box, enter each recipient's e-mail ad-

dress in parentheses.

There's a downside to blind-copied addresses: Some ISPs matter-offactly bounce them. But I have a workaround. Instead of using e-mail, I send batches of messages (as many

as 2400 at a time) on one or the other of two free Web services-Yahoo Groups (find.pcworld.com/52854) or Topica (find.pcworld.com/52856).

Quick tip: You can make it easier for friends and family to filter your e-mail messages by including a phrase like "Geeky Buddies" or "Today's Joke" in the To: field. It's easy to do and it may work with your e-mail program. Experiment by typing (Special Friends) in the To: field. Then fill in the blind-copy fields using the steps outlined above in the discussion about sending smart with BCCs. For a blank To: line, enter an open parenthesis, a space, and a close parenthesis (in some e-mail programs, such as AOL and Hotmail, use just a space).

Contributing Editor Steve Bass writes the Bass Blog (find.pcworld.com/50264). To read his previous columns and newsletters, go to find.pcworld.com/50268. Contact him at hasslefreepc@pcworld.com.

tion box, click the size link, set the maximum allowed message size, and click OK twice. I set mine at 1000KB (about 1MB).

TOOL OF THE MONTH

Welcome-Screen, Incoming E-Mail Fixes

WINDOWS XP'S WELCOME screen may insist that you have unread messages even when you don't. That's because the screen is updated if you use Hotmail, Outlook, or Outlook Express (even if you use another e-mail app). To stop this alert from appearing, use TweakUI (find.pcworld.com/52726): Expand Logon, and uncheck Show unread mail on Welcome screen. This won't work if your PC is connected to a network domain.

Want to screen your incoming messages? If you have a Gmail account or use EarthLink, try adding a plus symbol and a few characters after your name when filling out Web forms. I might type stevebass+XYZ@gmail.com and then have my e-mail program filter the replies; you can also see whether a Web company is reselling your e-mail address.

HP recommends Windows XP Professional



GO FAR. KEEP YOUR SECRETS CLOSE. ERSONAL AGAIN

Vault-like security, wherever the road takes you.

The HP Compaq nc2400 Business Notebook with Intel® Centrino® Mobile Technology. Starting at 2.8 pounds, this ultralight notebook helps secure your work three ways: with a fingerprint sensor, Smart Card reader and embedded security chip.

And it's all backed by our unrivaled HP Total Care services, for every stage of your computer's life.

Visit hp.com/personal, call 1-800-799-MYHP or visit your local reseller. Starting at \$1,649.



HP.COM / PERSONAL

© Copyright 2006 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. Prices may vary. Simulated images. Wireless access point and Internet service sold separately. Intel, the Intel logo, the Centrino logo, and Centrino, are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation.



GADGET FREAK

DAN TYNAN

One Remote to Rule Them All

Can one gizmo control every device in the house? The possibilities are remote.

SOME MEN DREAM of winning the lottery or running off to Fiji with Keira Knightley. I dream of having a single remote to control every TV set, DVD player, and stereo system in my house. I'd wear it in a holster on my hip and sleep with it under my pillow. Best of all, I'd take the

cluster of remotes occupying my coffee table and toss them into the largest landfill I could find.

There are two kinds of universal remotes: the ones included with custom-installed home theaters that somebody else programs for you, and the programmable ones that you can buy at Electronics R Us for a couple hundred dollars. Since I haven't won the lottery (yet), I looked at low-end to midrange controllers from Philips, Logitech, and Universal Remote.

Besides controlling each device, these babies allow you to create macros so you can press one button to turn on your television,

launch your DVD player, and switch your A/V receiver over to surround-sound mode. Sounds dreamy, doesn't it? Unfortunately, my dreams started to crumble when I put the remotes to the test.

POLISHED PHILIPS

CERTAINLY THE SLICKEST looking of the three, Philips's SRU9600 (\$150, www. philipsusa.com) has a 1.5-by-3-inch touch-screen LCD that changes depending on the device you control. To program it, you pick the type of device, use a click-dial to scroll through a looong list of manufacturers, and hold down OK while the remote finds the codes. Programming it to automatically perform all of the functions to, say, play a DVD or a CD is as easy as

recording a keyboard macro on a PC.

In most cases the SRU9600 worked fine, but I had to manually train it to work with my Magnavox DVD/VCR player by putting it nose-to-nose with my old remote and alternately pressing buttons on each device. Finding the up, down, and

side directional buttons essential to navigating TiVo also took me a while. Even so, the SRU9600 was easily my favorite.

IMPERFECT HARMONY

TO PROGRAM LOGITECH'S Harmony 550 (\$150, www.logitech.com), you connect it to your PC's USB port. Logitech's Web-based software prompts you for type of device, maker, and model, and then downloads the right codes to the remote.

The 550 controlled most of my devices without a hassle but seemed totally flummoxed by my Sony CD Jukebox. Worse, the remote's LCD is only about an inch square, so you have to scroll through multiple screens (22 of them for my Pioneer A/V receiver) and puzzle out cryptic

commands like 'MoveSur+' (though you can use the software on the PC to change the names of the commands).

The software has its own problems. For example, when you're programming activities like 'Watch a DVD', it's easy to get stuck in an endless loop. And if you aren't

careful, the Harmony CD installs nagware that pops up plugs for other Logitech products. To its credit, Logitech offers free phone support, with native English speakers and minimal hold times. The bad news is, you'll probably need it.

UNIVERSAL LIFE

ANY GIZMO THAT comes with a nearly 1-hour instructional DVD doesn't inspire much confidence. And while the disc for Universal's R7 (www.universalremote.com) does a good job of explaining the remote's intricacies, you'll need a number 2 pencil, a notepad, and more patience than I could muster

to get things working. The R7 has cool features the others don't—like the ability to control sound for all devices without switching between them, and the ability to turn everything off with one button—and at \$50 it's certainly priced right. But be prepared for a lot of trial and error, and multiple training-DVD viewings.

Of the three, the Philips offers the greatest control with the least amount of hassle. But I would keep the other remotes in a drawer nearby, just in case. And, Keira? I'm ready to leave whenever you are.

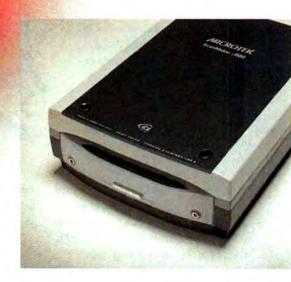
Contributing Editor Dan Tynan is the author of Computer Privacy Annoyances (O'Reilly Media, 2005). You can send him e-mail at gadgetfreak@pcworld.com.



KEEPS FILM FLAT.

ScanMaker i800 Pro Takes film scanning to the next level.

The i800 Pro scanner from Microtek offers a lot of great features that make it a class leader, but what really makes it stand out from the pack is its new EZ-Lock film carriers featuring spring-actuated tension grips. This carrier design keeps your film flat, for scans that are sharp from edge to edge. A full set of bundled software including SilverFast Ai and Digital ICE technology for photos and film makes the i800 Pro hard to overlook.



ScanMaker i800 Pro Includes EZ-Lock™ Film Templates Medium Format













Critical Microsoft Patches Cause Havoc

Also: Take charge of Automatic Updates, and get critical Firefox fixes.

HEALER, HEALTHYSELF: This month three Microsoft security fixes ended up causing a lot of folks serious problems with Internet Explorer, Office, and Outlook Express.

A recent patch for Windows Explorer, distributed via Windows Update, essentially rendered Office unusable for many people, preventing them from opening or saving files. For others, IE's address bar refused to accept manually entered URLs.

The trouble mainly affected users who have the HP Shareto-Web program, which is no longer distributed. It came with HP PhotoSmart software. any HP DeskJet printer with a card reader, and HP scanners; some HP cameras and optical drives also bundled the soft-



Three fixes create serious problems.

ware. And certain PCs running older nVidia graphics cards had problems as well.

Microsoft has issued a new

patch via Windows Update (find.pcworld.com/53462). If you have Automatic Updates enabled, it will automatically determine if you need the "patched" patch. (See the tips below for more on configuring Automatic Updates.)

Meanwhile, a patch for IE plugged eight critical holes in the browser but also altered IE's behavior in response to an ongoing patent lawsuit brought by a California university. The update adjusts the way IE handles commonly used ActiveX controls, particularly for plug-ins such as the Macromedia Flash Player.

For the browser change to work correctly, Web sites have to make corresponding changes. Otherwise, every ActiveX control on a site requires an extra click to activate.

Microsoft has been trying to get the word out to Web site managers, but of course many of the millions of sites out there didn't get updated. And users, who received little notice about the change, were caught off guard when many sites suddenly seemed broken.

Microsoft released a temporary workaround that undoes the ActiveX control patch while leaving the security update intact. The fix is due to be phased out soon because of the continuing patent battle, but for now you can get it at find.pcworld.com/53464.

IN BRIEF

Firefox Plugs Holes

MOZILLA.ORG has patched a half dozen critical security flaws in its Firefox browser. Versions 1.5.0.2 and newer or 1.0.8 and newer will protect you. You can download the latest version of Firefox at www.getfirefox.com. For more info on the bugs, go to find.pcworld.com/53472.

As if those bugs weren't enough, users have reported that their Outlook Express 6 address book vanished after they installed a Microsoft security patch (find.pcworld. com/53466) for that program.

Microsoft has said only that it is looking into the problem. Users on the company's forum say they were able to retrieve their address books by uninstalling the patch. Luckily, the bug it fixes isn't critical, so removing the patch seems to be an acceptable way to get OE's address book working again.

Stuart J. Johnston is a contributing editor for PC World. Visit find.pcworld.com/31580 to see more Bugs and Fixes columns.

BUGGED?

FOUND A HARDWARE or software bug? Send us an e-mail on it to bugs@pcworld.com.

AVOID PATCH CRASH: TIPS FOR STAYING SAFE

DON'T LET BUGGY patches goad you into disabling Automatic Updates. Instead, take charge with these steps.

INSTALL AT YOUR COMMAND Set Windows Update to automatically download patches, but to install them only when you say so. Open the Control Panel, choose System, and then click the Automatic Updates tab. Select Download updates for me, but let me choose when to install them, and click OK.

CHECK FOR PROBLEMS When you're prompted to install patches, select Custom Install (Advanced) to see a short description of each patch, as well as its Microsoft Knowledge Base (KB) number. Use that KB number to search for any reported problems at Microsoft's Security Response Center Blog (find.pcworld.com/53474) or the company's Windows Update security newsgroup (find.pcworld.com/53468).

PREP A ROLLBACK Set a restore point before installing patches so you can always revert to a working configuration. You can also remove most patches via the Windows Add/ Remove Programs utility, which lists the date and KB number for each installed patch as long as you check the Show Updates box up top. Remove critical patches only as a last resort.

Low-Cost, High-Performance Peace of Mind | Grisoft's AVG Anti-Virus solution delivers what users want

hether it is a small business or an enterprise-class organization, customers want the same things from their anti-virus solution. With damage due to viruses, worms, and other pests topping \$50 billion per year by some estimates, users want the solution to work with lethal precision. And they want the solution to be easy to install, easy to update, and easy on the wallet.

Customers in business of all sizes get that and more with AVG Anti-Virus from Grisoft (www.grisoft.com). "I get a lot of infected emails, but this software has caught it all," says David Inman, Technology Committee, AARP Tax-Aide. "No viruses have gotten through since I've been using AVG Anti-Virus. I really like it."

AVG Anti-Virus is available in versions tailored to support personal computers, SOHO environments of up to five computers, and networks of any size; the network edition includes a tool for central administration. But no matter what version is needed, all users get the same value-laden package of benefits with AVG Anti-Virus, which has received numerous independent awards. These benefits and features include:

- · Small update file size
- Little drain on system resources so you don't sacrifice performance for protection
- Highly competitive pricing, as low as \$109 to protect five computers for two years
- Free 24/7/365 technical support
- An extended two-year license instead of the usual one-year deal
- Industry-leading rapid response to new viruses to stay a step ahead of the villains



The AVG Anti-Virus product line supports all major operating systems and platforms.

- The peace of mind knowing your antivirus solution has been developed by a company that has been a leader in PC security for 15 years
- To learn more about AVG Anti-Virus as well as the company's other security solutions, or to discover how to become an AVG reseller, go to www.grisoft.com.

SPONSORED BY:
Grisoft, Inc.
www.grisoft.com
Go to find.pcworld.com/53292

Data Recovery Made Easier

R-Studio 3.0 from R-Tools raises the bar on information restoration.

Proving that a good thing can get even better, R-Tools Technology Inc. has released version 3.0 of R-Studio, its family of robust and economical undelete and data recovery software.

Already renowned for its ability to recover mission-critical data lost

studio

to viruses, malicious attacks, hardware failures, or operating system crashes, R-Studio 3.0 has a new file recovery algorithm allowing users to increase the quality of file recovery and recover files not recognized in file system metadata. In addition, R-Studio

3.0 now supports UFS1 and UFS2 file systems as well as enhanced remote host scanning procedures that analyze data on the remote host rather than the local host, speeding up

data recovery time. R-Studio 3.0 also includes R-Studio Emergency version free of charge, allowing users to recover data on a computer on which Windows cannot be booted due to system file corruption or deletion. And to make things even more user-friendly, R-Studio and R-Studio Emergency demo versions can be registered on-the-fly.

R-Studio 3.0 joins the growing list of business continuity solutions from R-Tools that includes R-Drive Image 3.0, a powerful utility that effortlessly creates disk image files for backup and duplication. These files are exact copies of a drive partition and are created without interrupting normal business operations.

R-Tools Technology Inc. www.r-tt.com R-Drive Image 3.0 can also be utilized for mass system deployments when

configuring multiple computers identically.

In addition, R-Tools offers R-Word to recover damaged Microsoft Word files; R-Excel to reconstruct precious Excel files that have been corrupted or attacked; R-Mail to reconstitute email messages accidentally deleted or damaged .dbx files; and R-Wipe & Clean that automatically keeps disks free and clear of data clutter.

For information on the exciting new features in R-Studio 3.0 or to learn more about how the family of R-Tools solutions can keep your business up

and running, visit www.r-tt.com.



GRISOFT

AVG Anti-Virus

The best testimonial from 30 million users: They barely realize they use us!

With more than 30 million loyal users worldwide, Grisoft is the best choice for people and companies seeking maximum virus protection. With its easy and intuitive interface, Grisoft AVG Anti-Virus software doesn't bog down system resources; instead, it works quickly and seamlessly. Our singular focus on your protection lets YOU work—not worry. Stop worrying and start downloading your

www.grisoft.com/doc/pcworld





Go to find.pcworld.com/53026

FREE 30-DAY TRIAL...www.grisoft.com/doc/pcworld

Protect your privacy against hackers

AVG Anti-Virus plus Firewall delivers comprehensive antivirus protection and prevents unauthorized access to your computer from internal and external networks.



EDITED BY DANNY ALLEN AND LAURA BLACKWELI

REVIEWS

- 57 SAMSUNG Q1. TABLETKIOSK EO
- **60 ULEAD DVD MOVIEFACTORY 5**
- **60 TOSHIBA SATELLITE** P105-S921
- 61 MAXENT MX-50X3, SAMSUNG HP-S5053, VIZIO P50 HDM
- **64 SEAGATE BARRACUDA** 7200.10 750GB

Small Players, Big Sound

We test the audio quality and evaluate the usability of flash players, and pick a Best Buy.

AUDIO PLAYERS

PORTABLE AUDIO Center players may offer eyecatching features, such as the ability to display photos and video clips, but ultimately the devices must be judged by one thing: How good does the music sound?

For the first time, the PC World Test Center has conducted sound-quality tests on audio players to determine which produce the finest sound. For details about these tests, see the audio players section of "How We Test" at find.pcworld.com/53160.

Lightweight audio players with flash-based memory are the best choice for listening to music while at the gym or on the go. Their lack of moving parts makes them less vulnerable to drops than hard-drivebased devices are. And if you don't require that your audio player hold your entire music collection (or if you already have a bulky player that stores it all), one of these small flash players makes the perfect traveling companion. In addition, though their capacities are dwarfed by 60GB harddrive models, flash players have increased their storage space. A 4GB flash player will hold about 1000 MP3s encoded at 128 kilobits per second.

If you want an armband for listening on the move, however, note that Creative's Zen Nano Plus has one, but the iPod Nano's costs \$29 extra.

Flash players come in a mix of shapes and sizes-variables that can impact their usability. There is such a thing as too small. Some of the players we



CREATIVE'S LOW-PRICED ZEN Nano Plus matches the high audio quality of the pricier IPod Nano. Dell's DJ Ditty costs just \$89.

evaluated are about the size of a cigarette lighter (too small and narrow to include a thumb wheel). On the other hand, some rectangular models have room for a larger screen, making navigating their menus easier. The lightest player we tested is the 2GB MobiBlu DAH-1500i (also known as the "Cube"). The unit weighs less than an

ounce and is so small you could pop it in your mouth. Despite this novelty, it missed the chart due to its lack of features and mediocre usability.

NEW AUDIO TESTS

BEGINNING WITH THIS issue, the PC World Test Center will evaluate the sound quality of audio players using an ATS-2 analyzer provided

RANKINGS

58 TOP 10 NOTEBOOK PCs

62 TOP 10 MULTIFUNCTION INKJETS

67 TOP 5 NETWORK-ATTACHED DRIVES

- **68 SAGE PEACHTREE PREMIUM 2007**
- 70 MOVIEBEAM PLAYER
- 70 SONY NAV-U NV-U70
- 72 CMS BOUNCEBACK PROFESSIONAL 7.0.

NTI SHADOW 3. STARDOCK KEEPSAFE

- 74 EMACHINES T6532
- 76 PANASONIC VDR-D300
- **78 MORE REVIEWS** AT PCWORLD.COM





by Audio Precision, a maker of audio testing equipment. We conducted several tests on each player. For example, we measured the output level each device could attain before reaching 1 percent distortion, generally regarded as the highest acceptable amount.

We also measured each de-

ensure that the player could reproduce very high and very low frequencies. All of the players we evaluated earned high scores on this test. We also measured the signal-tonoise ratio and the harmonic distortion of each player's audio output; obviously, noise or distortion will make your

Our tests measure the audio output from each player's headphone jack, rather than from the included earbuds. To get the best possible sound quality, you'll want to upgrade from the basic earbuds that come with these players. We outline some of your headphone options in

Earbuds" on page 54. We were particularly unimpressed with the Creative Zen Nano Plus's earbuds, which is a shame because the player's audio quality is top-notch.

Only the Zen Nano Plus and the iPod Nano received a score of Superior for overall audio quality. That and a low price earned the Zen Nano Plus our Best Buy. However, no other player tops the elegant design of the iPod Nano.

Of the players on the chart, the SanDisk Sansa c150 added the most distortion to audio. and the SanDisk Sansa e260 posted the highest signal-tonoise ratio. Two players, the Creative Zen Nano Plus and the Dell DJ Ditty, tied for creating the least distortion.

If you like to crank up the tunes, the iPod Nano is your best bet: In our tests it generated the loudest signal before reaching 1 percent distortion. It also showed the best frequency response, re-creating frequencies across the spectrum with less variance than the other players did. The iPod Nano's sole shortcoming was its average showing in our measurement of cross talk-the blending of the left and right audio channels,

	FLASH-BASED PLAYER	PCW Rating	Performance	Features and specifications		
1	Creative Zen Nano Plus Best \$109 Find.pcworld.com/53170	83 Very Good	Overall audio quality: Superior Signal-to-noise ratio: -81db Overall design: Good	IGB Windows Media Player software FM tuner, voice recording 1.2 ounces		
	▶ Bottom line: Top-of-the-line player offers audio quality for a low price. Includes an armband and so-so earbuds. Uses one AAA battery.					
2	Apple iPod Nano \$249 find.pcworld.com/53174	76 Good	Overall audio quality: Superior Signal-to-noise ratio: -82db Overall design: Very Good	4GB 1Tunes software Photo 1.6 ounces		
	Bottom line: This elegant model has high audio quality and native photo support, but it's pricey and limits you to the iTunes Music Store.					
3	Dell DJ Ditty \$89 find.pcworld.com/53168	76 Good	Overall audio quality: Very Good Signal-to-noise ratio: -79db Overall design: Fair	S12MB Musicmatch software FM tuner 1.3 ounces		
	▶ Bottom line: inexpensive, low-capacity player has an FM tuner, but doesn't record broadcasts or have a built-in microphone.					
4	SanDisk Sansa c150 \$149 find.pcworld.com/53164	75 Good	Overall audio quality: Very Good Signal-to-noise ratio: -80db Overall design: Fair	Rhapsody, Sansa Media Converter softwar FM tuner, voice recording, photo 1.6 ounces		
	Bottom line: Button use and menus are a bit clunky on the inexpensive c150. Photos require software conversion. Uses one AAA battery.					
5	SanDisk Sansa e260 \$229 find.pcworld.com/53188	72	Overall audio quality: Good Signal-to-noise ratio: -74db Overall design: Fair	AGB Rhapsody, Sansa Media Converter software FM tuner, voice recording, photo, video 2.7 cunces		

CHART NOTE: Ratings are as of 5/5/06. Lower signal-to-noise ratios are better (the iPod Nano scored the best on this test). For details on how we test audio players, see find.pcworld.com/53160.

▶ Bottom line: Unit has a thumb wheel and a big 1.8-inch screen, but navigation can be unintuitive. Rechargeable battery is replaceable.

2.7 ounces

which degrades the stereo image. The Creative Zen Nano Plus got the best score on this test.

FM AND RECORDING

ALL THE PLAYERS WE tested, except the iPod Nano, include an FM tuner. Three-the Creative Zen Nano Plus, as well as the SanDisk c150

and e260 players—can record FM broadcasts. Don't expect the tuners in these small players to get the crisp reception you get from your car stereo or to make pristine recordings of radio shows, however; recordings we made with the SanDisk e260 had more static than the original broadcast.

Most players typically store 20 radio station presets. The Creative Zen Nano Plus can store 32 presets, while the Dell DJ Ditty allows you to store just 10. As for equalizer settings, the iPod Nano offers the most, with 22 EQ presets.

EARPHONES



SANDISK'S SANSA E260 (left) earned the lowest audio quality score; the c150 fared better.

Aside from the Dell DJ Ditty, which has no EQ presets, the other players we looked at offer between 4 and 8 settings. In our experience, however, using an audio player's EQ lowers the output level and distorts the signal.

A built-in microphone is handy for recording voice memos. Among the models we tested, only the iPod Nano and Dell DJ Ditty lacked a mike. One convenient feature

of the Creative Zen Nano Plus is that in addition to its built-in mike, it has a line-in jack you can use to record from, say, a portable CD player.

BATTERIES

SOME FLASH PLAYERS use batteries that you can replace yourself. The Zen Nano Plus and SanDisk Sansa c150 use one AAA

battery. Both the SanDisk Sansa e260 and iPod Nano run on a rechargeable lithium ion battery; you can change the Sansa e260's battery yourself, but not the iPod Nano's, nor the lithium polymer battery in the Dell DJ Ditty.

All of the players on the chart are rated to last at least 14 hours on one charge.

SHOPPING FOR TUNES

THE IPOD NANO is the only player here that doesn't allow you to drag and drop music files onto it using Windows Explorer—you're required to use Apple's iTunes software.

Most of the players on the chart support the Rhapsody, Napster, and Yahoo online music stores. With the iPod Nano, you have to shop at Apple's iTunes Music Store.

Support for music subscription services is a slightly different story. All of the players except the iPod Nano carry Microsoft's PlaysForSure logo. But be aware that the Creative Zen Nano Plus supports only downloads under the system, and not subscription services as the other three players do. A list of compatible devices is available at www.playsforsure.com.

PHOTOS, TOO

A FEW OF the players can display photos on their color screen. The iPod Nano's 1.5inch screen and the SanDisk e260's 1.8-inch screen are big enough to make photo viewing fun (in theory anyway).

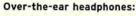
However, you can't drag and drop photos onto either player. To view photos on the iPod Nano you have to use iTunes, and with the Sansa e260 you must use its Media Converter software: the same goes for playing video (the Sansa e260 is the only player here that does so). In practice, the e260's large screen is wasted real estate: Photos we loaded left about half of the screen blank, and the PDF manual offered no help. On the Sansa c150's 1.2-inch color screen, photos displayed smaller than a postage stamp.

Such multimedia features are merely extras on flashbased players, though. What these devices do best is play music. So choose one, and get out and enjoy yourself!

-Eric Butterfield

First Things First: Ditch the Earbuds

THE EARPHONES THAT come packed with audio players don't do the music justice. To hear the high-quality sound of a Creative Zen Nano Plus or an iPod Nano, you need better headphones. Here are a few options-one for as low as \$8.



Bulky headphones aren't as portable as earbuds. But on the plus side, a set of cans tends to block out noisy disruptions. Those with closed cups that surround the ears will shut out more noise than those with smaller cups or only foam earpieces. One good pick is a former PC World Best Buy, the \$150 Bose Tri-Port headphones (find.pcworld.com/48020).



If you prefer something smaller, try the \$150 Sennheiser PXC250 set (find.pcworld. com/48024), which includes a noise-cancelling feature.

In-the-ear headphones: Standard earbuds are lousy at blocking out sound. However, the \$249 Super.fi 5 Pro ear-

phones from Ultimate Ears (find.pcworld. com/53560) have tips designed to fit snugly, as do the \$500 Shure E500 Push to Hear earbuds (find.pcworld.com/53562), which at press time were expected to ship in mid-June. If these are too pricey, don't despair. We've also been impressed by the \$8 Sennheiser MX 300 earbuds (find.pcworld.com/53498).

BUFFALD

Test Your Limits



Buffalo's AirStation Nfiniti™ wireless solutions deliver ultimate connectivity across your wireless world for the broadest coverage at blazing fast speeds. Designed to stream high-definition (HD) video, music, media and gaming, Nfiniti gives you infinite possibilities to test the limits of your wireless network. Combine 2-in-1 Nfiniti Wireless Router & Access Point WZR-G300N with Nfiniti Wireless Notebook Adapter WLI-CB-G300N or Nfiniti Wireless Desktop PCI Adapter WLI-PCI-G300N and get the ultimate bandwidth, range and reliability for your wireless world!

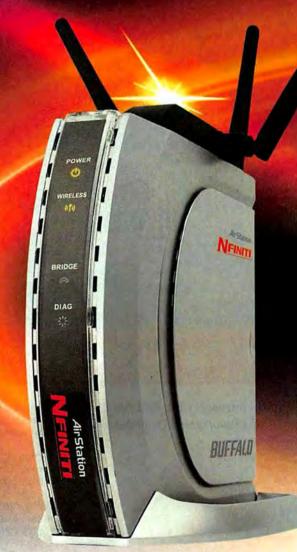
Best of Both Worlds - Ultimate Range at Blazing Speeds

Built for High-Definition Media Streaming - Wirelessly!

Easy and Secure Setup with AOSS™

Designed to IEEE802.11n Draft Standard Specifications

DRAFT-N



WZR-G300N

To learn more about Buffalo Nfiniti™ products, go to www.buffalotech.com/pcworld-nfiniti



















Now the whole world is your conference room.

Hitachi introduces the first full line of networkable LCD projectors.

If you want to sell an idea, project confidence. When you have a network of Hitachi projectors, you can be confident that every presentation will run smoothly and reliably anywhere in your organization, from the largest auditorium to the smallest conference room.

Hitachi Projector Networking Tools allow you to integrate any Hitachi 3LCD projector into your network via embedded Ethernet LAN port or external network module. AV/IT administrators can control, diagnose and schedule events for an individual or a group of Hitachi 3LCD projectors.

Hitachi Projector Networking Tools can even send e-mail notifications for routine maintenance and critical situations. So if the projector in Conference Room 15 A is about to need a new lamp, it can be replaced before it fails.

Turn your conference rooms into confidence rooms — with Hitachi's brilliant line of networkable projectors.











Head-to-Head: First Ultra Mobile PCs Arrive

MOBILE COMPUTING

THE FIRST SYSTEMS based on the Microsoft/Intel Ultra Mobile PC specification-Samsung's Q1 and Tablet-Kiosk's E0-prove you can cram an awful lot into a small package. Both devices condense the best features of a tablet PC into a package that's less than half the size and weight of a typical laptop.

Notably missing, however, is the \$500 to \$1000 price that Microsoft and Intel had promised for UMPCs. My 512MB configuration of the shipping Q1 sells for \$1099, and the shipping 1GB EO system I tested sells for \$1164 (Tablet-Kiosk also sells an \$899 model with only 256MB of memory). Those prices don't include critical options like an external optical drive, a keyboard, or an extra battery pack.

NOTEBOOK REPLACEMENT?

EVEN AT THOSE steep prices, I think that people who prefer writing by hand to keying, and anybody who likes using a stylus instead of a mouse, may find these products a viable alternative. Of the two systems, I give the edge to the Q1, which offers more connectivity options and support for portrait view.

Previously called Origami,



LCD, a 40GB hard drive, and Microsoft's Windows XP Tablet Edition operating system.

the UMPC spec combines a touch screen with a tablet's pen input. The two devices I looked at are about the same size and weight: 9 by 5.5 by 1.25 inches deep, and just under 2 pounds. If the units were red, you would think they were Etch-A-Sketches with a few extra buttons.

Each tablet has two powered USB ports, and each has a 7-inch LCD and a 1.8-inch 40GB hard drive. Both systems run Windows XP Tablet PC Edition with Touch Pack (designed specifically for the UMPC's touch screen).

Other common features: built-in 802.11b/g and Bluetooth for connecting to wireless networks, plus screen resolutions of 800 by 480 (the default on both), 800 by 600, and 1024 by 600. In addition,

you can connect to a second monitor with either machine, which lets you extend your desktop, use the external display alone, or show the same screen content on both displays (for presentations).

Unfortunately, each device's cramped screen real estate makes navigation difficult. At the default 800-by-480 resolution, many open windows were truncated, and dialog boxes often opened outside of the viewable area, requiring some "guess" clicks. At higher resolutions, the problem was even more noticeable.

Neither system includes a standard attachable optical disk drive-which I found ironic, since both ship with restore CDs. Another early upgrade will likely be an additional battery pack. Using each unit's standard battery, the Q1 ran for only 1.75 hours on a single charge and the EO lasted about 2.25 hours. Of the two models, the Q1 packs in more useful features than the EO, such as an ethernet port and a VGA connection for linking to an external monitor. The Q1 also comes

with a microphone and two speakers built into its case (the EO includes a set of earbud headphones with a handy built-in microphone).

NOTES INTO TYPE

BOTH MACHINES PROVIDE the Windows Journal app, for taking handwritten notes and converting them into type. The program did a surprisingly good job translating my cursive and printed scribbles into something approximating English (the TabletKiosk also includes Windows Journal). For a longtime note-taker like me, this is the feature that will make or break a UMPC.

Though these devices are usually oriented in landscape mode, the Q1 also has a portrait mode, which I found more natural when taking notes with Windows Journal and the included stylus.

If these devices were to cost less, either one could be the portable PC I've longed for. Both can replace a laptop, if you can live with an overcrowded screen and a few costly but necessary add-ons.

-Dennis O'Reilly

EO

TabletKiosk

PCW Rating 65 Fair

The EO demonstrates the promise of the UMPC design but lacks necessary features such as an optical drive and a keyboard. Street: \$1164

find.pcworld.com/53566

01

Samsung

PCW Rating 70 Good

This promising UMPC packs plenty of features and excels as a notetaking device, but the necessary extras push up the price.

Street: \$1099

find.pcworld.com/53564

TOP 10 NOTEBOOK PCs

Dell, Lenovo Laptops Take Over Top Spots

TEST BOTH SECTIONS OF enter this month's notebook chart have new number ones. Among all-purpose laptops, Dell's spiffy Inspiron E1505 displaces the long-time leader, Lenovo's ThinkPad R52. The Lenovo ThinkPad X60s debuts in first place among our ultraportables, supplanting the venerable ThinkPad X41.

Dell's Inspiron E1505, a superb entertainment laptop, has a fine keyboard. The machine's MediaDirect button



DELL'S INSPIRON E1505 takes your entertainment on the road.

offers fast access to your music, pictures, movies, and videos.

Toshiba's Tecra A6-S513 arrives on the all-purpose chart with both a fingerprint reader and a TPM (Trusted Platform Module) for security.

Lenovo's speedy ThinkPad X60s includes a tiptop keyboard. Its key-illuminating ThinkLight is one example of the X60s's great design.

-Dan Sommer

find.pcworld.com/52024

ONLINE

FOR MORE INFORMATION about the notebook PCs reviewed in this chart, including details about how we tested them, go to find. pcworld.com/53522.

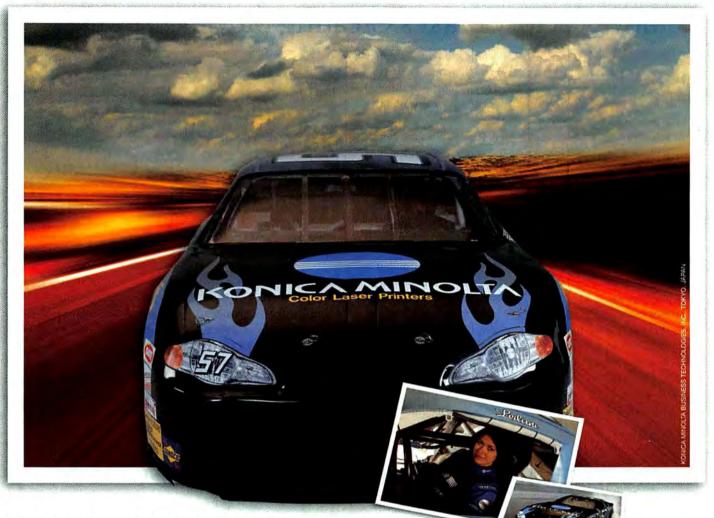


► Bottom line: This business-oriented laptop has no optical drive, but it successfully marries portability and a great keyboard.

CHART NOTES: Prices and ratings are as of 5/5/06. For each model, weight listed does not include the AC adapter, power cord, or optical drive.



Win a Race Weekend from KONICA MINOLTA



Here's your ticket to high-performance color laser printing from KONICA MINOLTA

Get your business on track with high-speed, quality color laser printing from KONICA MINOLTA. These high-performance printers are fast—up to 27 ppm in color and black & white. And they produce excellent color that leaves the competition in the dust. Take one for a test drive today.

Win a race weekend

Watch performance printing hit the road. Register to win a trip to the races and see #57 KONICA MINOLTA race car driver Leilani Münter take the track. Go to www.buymagicolor.com/race to qualify.









5-year, toll-free US-based support

magicolor® 5440 DL

- 27 ppm color and b&w
- 2400 x 600 dpi
- Fast Ethernet® & USB 2.0
- Windows*, Mac*, & Linux* compatible

magicolor 5450

- 27 ppm color and b&w
- 9600 x 600 dpi-class quality
- Gigabit Ethernet*, USB 2.0, & parallel
- Windows, Mac, & Linux compatible
- PostScript® 3 & PCL® 6 emulations

Buyers Laboratory Pick of the Year



800-523-2696

buymagicolor.com

New

Low Price

Low Price

PHOTOGRAPHS: MARC SIMON

MovieFactory Makes Creating Movie Discs Easy

DVD SOFTWARE

RATHER THAN ATTEMPTING to be everything to everyone, Ulead's \$50 DVD MovieFactory 5 instead focuses on just one job-burning video and movies to disc-and tries to make it as painless as possible.

Getting started is easy. The launcher's interface is blissfully uncluttered and clean, offering quick access to features that handily cover most

DVD MovieFactory 5

Ulead Systems

PCW Rating 80 Very Good

Useful, relatively easy-to-use software for creating movie DVDs could offer a bit more creative flexibility. Street: \$50

find.pcworld.com/53200

video-related burning chores you might want to perform.

For the most part, I found the software convenient to navigate and use for the different tasks. Creating a basic DVD videodisc was a simple and pleasant experience: You just choose the files, and, if they aren't already MPEG-2 encoded, the software will do the necessary transcoding. It works with a variety of formats and is ready to output to high-definition optical as well. Among the other improvements: Ulead has bolstered the video editing tools and introduced an Ad-Zapper feature for removing commercials from TV content.

This application's biggest drawback is its limited flexi-



MOVIEFACTORY'S INTERFACE makes performing burning tasks easy.

bility. When I was creating a videodisc, for example, I was often frustrated by the suite's inability to undo an action. Also, I couldn't rotate a background image, nor could I find any way to change the image-quality settings.

Though I found much to

like about MovieFactory, I suspect this package will become merely one component of my disc-burning arsenala supplement to, but not a replacement for, suites from Nero or Roxio, which each cost about twice the price.

-Melissa J. Perenson

Big, Beautiful Gaming Notebook From Toshiba

NOTEBOOK

TEST A TERRIFIC SCREEN. Center rich sound, and superior performance make the Satellite P105-S921 gaming notebook from Toshiba really stand out. The system's \$1999 price-quite reasonable considering what you get for itonly sweetens the deal.

The P105-S921 is a hefty beast-there's no getting around that. The unit weighs 9.2 pounds ready for travel, and measures 15.5 by 10.8 by nearly 2 inches. But that hulking package comes fully loaded. The laptop has a beautiful 17-inch, glossy,

format rewritable DVD drive, 160GB of storage, gigabit ethernet, 802.11 a/b/g Wi-Fi, 1GB of DDR2 SDRAM, and an Intel 1.83-GHz Core Duo T2400 processor for some high-performance kick.

TOSHIBA'S SATELLITE P105-S921 has a gorgeous screen.

The Satellite soundly delivered that kick on our World-Bench 5 tests, earning a score of 95-which shows that it's plenty fast for most purposes. You also get good graphics performance from the unit's nVidia GeForce Go 7900 GS graphics with 256MB of dedicated GDDR3 memory. This isn't nVidia's top-of-the-line chip (that's the 7900 GTX). and the 7900 GS doesn't quite match the power of the 7900 GTX, but you should still get excellent game play out of it. And movie playback looked smooth, with great colors.

> The pair of Harman/Kardon speakers with subwoofer provide full, rich sound

for music, video, or games.

The P105-S921 has a good keyboard and a full numeric keypad next to it. One gripe: Because the <Backspace> key is next to the numeric keypad, I accidentally bumped into the keypad several times while getting used to the layout.

The Satellite P105-S921 packs a lot of power and does so at a price that makes it worth a very close look.

-Anush Yegyazarian

Satellite P105-S921

Toshiba

PCW Rating 83 Very Good

This full-featured gaming system offers a great screen and very good speakers, at a fair price. Street: \$1999

find.pcworld.com/53212

wide-screen (1440-by-900pixel) LCD, a built-in multi-60 WWW.PCWORLD.COM / JULY 2006

Monitor or HDTV? Pick Your Perfect Plasma

PLASMA DISPLAYS

TEST FOR MANY FOLKS, a center big plasma HDTV is more mouthwatering than a fresh funnel cake; but the prices are much harder to swallow. It's tempting to try to save money where you can, perhaps by buying a tunerless highdefinition monitor instead of an actual HDTV. We tested Samsung's \$4000 HP-\$5053, an HDTV, and compared it with the \$2500 Maxent MX-50X3 and Vizio P50 HDM HD monitors. All three are 50-inch plasmas, but what those plasma screens can do, and what you need in order to get a good picture, varies with the model.

With its gleaming black cabinet, brushed-metal accent, and blue-lit power button, the Samsung HP-S5053 cuts a figure worthy of its \$4000 asking price. A tour through the set's features reveals many HDTV checklist items: an NTSC tuner for analog TV programming, an ATSC tuner for digital TV content, two HDMI inputs, and both RCA and digital audio outputs.

In PC World's jury testing, the Samsung HDTV pleased viewers by displaying naturallooking skin tones and saturated colors on both standarddefinition and high-definition TV content, as well as on DVD content. The unit's brightness



MAXENT'S MX-50X3 50-INCH plasma monitor offers an appealing combination of good image quality and a reasonable price.

and contrast remained strong even in our bright-lights test and in our challenging DVD tests. Many TVs have trouble displaying the contrast in a dimly lit scene on our *The Lord of the Rings: The Return of the King* DVD test, but the HP-S5053 set ably handled such challenging tasks as capturing the highlights on a black velvet cloak.

Image quality, however, doesn't have to cost you several grand: The \$2500 Maxent MX-50X3 HD plasma monitor's test scores nearly equaled the Samsung's marks on both standard- and high-def TV

content. We particularly liked its strong colors on both types of TV shows. This plasma monitor gave its weakest performance on DVD playback, losing details in the shadowy Lord of the Rings scene and balking at the mix of vivid colors and natural skin tones in the movie Seabiscuit.

TUNER REQUIRED

AN HD MONITOR has neither an NTSC nor an ATSC tuner. That means you'll need to add an HD-ready tuner in order to use the Maxent or the Vizio as a television. If you don't care for your set-top tuner provider's remote control, though, you might want to look into a universal remote. For example, the Maxent's is full of buttons that teasingly call out unavailable functions, including Channel Up and Channel Down. But if you already have a setup that works with the MX-50X3, the TV picture could be as appealing as the monetary savings.

The other HD monitor we evaluated, the 50-inch, \$2500 Vizio P50 HDM, fared poorly with our test jury. The display's picture appeared dark and lacking in detail on all TV and DVD content tests. Despite what the inclusion of two HDMI inputs implies, the unit's quality seemed a better fit for showing Power-Point slides in a conferenceroom presentation than for watching TV and DVDs in the living room. On the plus side, Vizio's clear commitment to easy setup-thorough documentation, great on-screen menus, and clearly labeled inputs-is one of the P50 HDM's best selling points.

An HDTV—or an HD monitor—is only part of the recipe for high-def. Before you buy, make sure you know which ingredients you'll need.

You'll pay more for (and get more from) a full-featured HDTV like the Samsung set. Its price of \$4000 lowered its score compared with the two monitors here, but it isn't out of line with the cost of comparable HDTVs. That said, you may be satisfied with the price/performance balance of an HD monitor like the Maxent. Its value is hard to beat.

-Laura Blackwell

MX-50X3

Maxent

PCW Rating 81 Very Good

With nice image quality and a low price, this HD monitor is a good buy for people who already have a decent HD tuner.

Street: \$2500

find.pcworld.com/53076

HP-S5053

Samsung

PCW Rating 79 Good

A good picture, plenty of connections, and appealing extras come together in this HDTV plasma-but it will cost you. List: \$4000

find.pcworld.com/53074

PSO HDM

Vizio

PCW Rating 79 Good

Easy setup (and so-so TV picture quality) make this HD monitor an acceptable choice for budgetaware businesses.

Street: \$2500

find.pcworld.com/53072

Latest All-in

TEST A COUPLE OF versa-Center tile multifunction inkjet printers ideal for a small business or home office debut in this month's chart.

In second place, Canon's \$300 Pixma MP830 includes a 2.5-inch LCD, fax functionality, and a 35-page automatic document feeder with duplexing that saves you from having to flip two-sided sheets over manually. It broke print and scan speed records in most of our lab tests and produced rich color photos.

Priced at \$200, Brother's compact MFC-640CW is loaded with nice features such as



CANON'S NEW PIXMA MP830 is speedy and full featured.

a ten-page ADF, color faxing, a speakerphone (with a handset), and a digital answering machine. The device, ranked seventh, also provides built-in Wi-Fi and ethernet interfaces. and it can print or fax fromor scan to-a networked PC.

-Danny Allen

ONLINE

FOR MORE INFORMATION about the multifunction printers reviewed in this chart, including testing details, go to find.pcworld. com/53496.

۹	MULTIFUNCTION INKJET	PCW Rating	Performance	Features and specifications		
1	Canon Pixma MP500 Best \$200 Billy find.pcworld.com/51040	82 Very Good	Text quality: Very Good Graphics quality: Good Tested speed (ppm): 6.4 text/2.4 graphics	29 ppm text 19 ppm graphics 9600-by-2400-dpi maximum true color resolution		
4	► Bottom line: Dual paper trays, a built-in duplexer, and strong text and photos make the Pixma MP500 a good value even without fax capability					
2	Canon Pixma MP830 \$300 NEW find.pcworld.com/53194	81 Very Good	Text quality: Very Good Graphics quality: Good Tested speed (ppm): 8.2 text/2.9 graphics	30 ppm text 24 ppm graphics 9600-by-2400-dpi maximum true color resolution		
	Bottom line: The fast-performing Pixma MP830 includes fax and duplex ADF capabilities, and it produces top-notch prints, copies, and scans.					
3	HP Officejet 7410 All-in-One \$500 find.pcworld.com/51046	77 Good	Text quality: Very Good Graphics quality: Good Tested speed (ppm): 6.9 text/2.1 graphics	30 ppm text 20 ppm graphics 4800-by-1200-dpi maximum true color resolution		
	▶ Bottom line: Wi-Fi and excellent paper handling justify this unit's price. It's well equipped with an ADF, fax, and a 2.5-inch LCD.					
4	HP Officejet 7210 All-in-One \$300 find.pcworld.com/47608	77 Good	Text quality: Very Good Graphics quality: Good Tested speed (ppm): 6.8 text/2.2 graphics	9.8 ppm text 5.7 ppm graphics 4800-by-1200-dpi maximum true color resolution		
1	Bottom line: This model provides ethernet networking and high print quality, in addition to offering fast copying and photo printing.					
5	Canon Pixma MP950 \$400 find.pcworld.com/51042	77	Text quality: Very Good Graphics quality: Very Good Tested speed (ppm): 8.4 text/2.4 graphics	29 ppm text 22 ppm graphics 9600-by-2400-dpi maximum true color resolution		
. 1	Bottom line: The Pixma MP950 has a 3.6-inch LCD and great paper handling, and yields high-quality text and photos. Scan results were mixed.					
6	Epson Stylus CX7800 \$180 find.pcworld.com/51044	77	Text quality: Good Graphics quality: Good Tested speed (ppm): 1.7 text/1.4 graphics	20 ppm text 19 ppm graphics 5760-by-1440-dpi maximum true color resolution		
	> Bottom line: This affordable unit has good-quality scans and photo output, but suffers from a small LCD, slow printing, and basic paper handling					
7	Brother MFC-640CW \$200 NEW find.pcworld.com/53192	76 Good	Text quality: Fair Graphics quality: Fair Tested speed (ppm): 3.4 text/1.1 graphics	20 ppm text 15 ppm graphics 6000-by-1200-dpi maximum true color resolution		
	▶ Bottom line: Feature-packed and appealingly priced, the MFC-640CW boasts fax capabilities, an ADF, and ethernet and Wi-Fi networking.					
0	HP PSC 1610 All-in-One \$130 find.pcworld.com/47610	75	Text quality: Very Good Graphics quality: Good Tested speed (ppm): 4.9	• 7.4 ppm text • 5 ppm graphics • 4800-by-1200-dpi maximum true color		

- Bottom line: This model has a low price for high print quality overall. It's fast at printing photos but slow at copying.
- Lexmark P4350 \$130 find.pcworld.com/51048



- · Text quality: Fair · Graphics quality: Poor • Tested speed (ppm): 7.3
- 22 ppm text • 15 ppm graphics
- 4800-by-1200-dpi maximum true color
- Bottom line: The P4350 is affordably priced and has good text print speeds, but comes with a tiny screen and limited paper handling.

Brother MFC-5840CN \$180 find.pcworld.com/47552



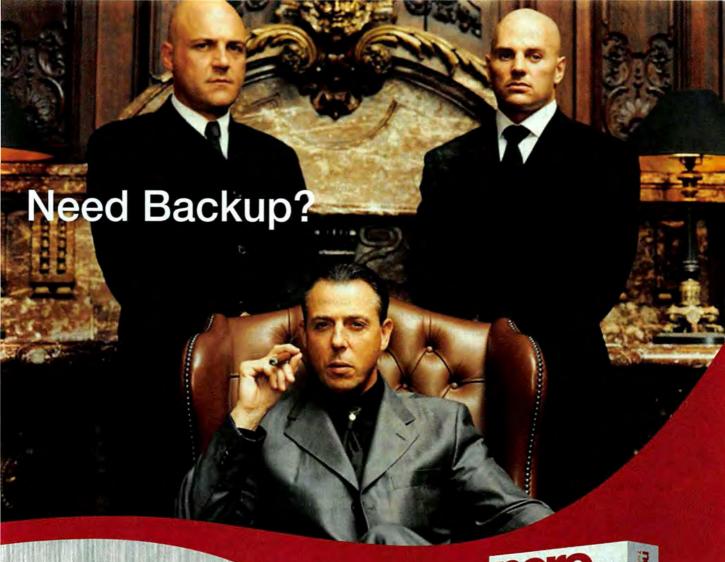
 Text quality: Fair · Graphics quality: Poor

text/1.3 graphics

- Tested speed (ppm): 3.4 text/1.1 graphics
- 20 ppm text 15 ppm graphics
- 6000-by-1200-dpi maximum true color resolution

CHART NOTE: Prices and ratings are as of 5/5/06.

Bottom line: This MFP offers networking, but text printing and scan speeds are slow, and copy speed is below average.



The most complete and secure backup software... and more!

Nero 7 Ultra Edition – Features 18 unique applications in ONE powerful solution including Nero BackltUp, the most complete application to protect and backup all your valuable digital media files. With this All-in-one Audio, Video, Photo, Data and Home Entertainment Solution, you can capture, create, edit, author, burn, backup and share your digital media.

In addition, create audio playlists of your MP3s, make your own professional movies of photos and videos (including menus), backup non-copy protected DVDs, transcode your audio & video files into MPEG-4 (Nero DigitalTM), share files on consumer electronic devices, or manage all your digital media files with the click of your remote control. Nero 7 Ultra Edition is truly the only partner you need for today's digital home.



CREATE





BURN



www.nero.com







ENJOY

Available at participating retailers, including:











amazon.com

Seagate's New Giant Drive Spins to the Top

HARD DRIVES

TEST THE NEW SEAGATE enter Barracuda 7200.10

750GB drive sets records for capacity and performance at a surprisingly low price. This big, fast, and affordable drive should satisfy even the most demanding digital pack rat.

The Barracuda drive we tested has 16MB of cache and supports SATA-150 by default. We evaluated it using SATA-300, which required resetting a single jumper.

In our performance tests, the drive excelled across the spectrum. It rates as the fastest 7200-rpm hard drive we've tested; and overall, it was bested only by the 150GB Western

Digital Raptor X, which runs at 10,000 rpm. On our write tests, the Barracuda took only 2 minutes, 16 seconds to write a 3.06GB file of folders (finishing just 2 seconds behind the Raptor X), and 1 minute, 39 seconds to write a 3.06GB .zip file (3 seconds ahead of the Raptor X, and 52 seconds faster than another Barracuda drive, the 7200.8 400GB). The 7200.10's performance was also strong on other World-Bench 5 tests. It took 6 minutes. 37 seconds to complete our ISO image-file test script in Nero's Nero Express 6.0.0.3 (in which we create a 538MB set of files, and burn eight ISO images from that set); and it completed a script that creates a 538MB compressed file in 5 minutes, 20 seconds (beating the speedy Raptor WD740GD, the next-fastest drive, by 14 seconds).

The Barracuda manages its breakthrough capacity-a 50 percent increase over the previous industry high-water mark of 500GB-using perpendicular magnetic recording (or PMR), which increases the drive's areal density by changing the way the drive records data on

its disks. With PMR, bits of data-which are represented by magnetized particles whose north and south poles are typically oriented in either direction-are arranged perpendicularly to the surface of the disk, so that the bits are closer together than with traditional, longitudinal recording, where the particles are arranged parallel to the disk surface. With this arrangement, drive manufacturers can either squeeze more data onto a drive using the same number of platters and heads as in a traditional, longitudinal drive, or they can achieve the same overall capacity as in a traditional drive using fewer components and less power.

On a cost-per-gigabyte basis, your wallet won't take a huge hit, either. The SATA version of the Barracuda 7200.10 750GB will debut at \$590, or \$0.79 per gigabyte—higher than the \$0.62 average cost of 7200-rpm drives, but less than



THE SEAGATE BARRACUDA 7200.10 uses perpendicular recording to

achieve 750GB of storage.

the usual \$1-per-gigabyte pricing model we have seen with previous new drives. By the time you read this, Seagate will also be shipping its external 750GB Pushbutton Backup Hard Drive (the expected price at launch is \$560).

Seagate's Barracuda 7200.10 750GB combines voluminous storage and high-end performance in a single hard drive. If you're in the market for high-capacity storage, this model is your best bet.

-Melissa J. Perenson

ASK OUR EXPERTS

Memory: Seeing Double

I HAVE A motherboard that supports PC2100 DDR RAM. Should I use two memory slots for optimum bandwidth instead of a single slot? Will two 256MB memory modules perform better than a single 512MB module?

Hong Ng, Singapore



Associate Editor Liane Cassavoy responds: In short, yes to both. If your motherboard supports dual-channel memory, installing two identical modules should improve computer performance by 10 to 15 percent,

according to Mike Sanor, technical support manager at memory manufacturer Crucial Technology. While systems also work with a single memory module, installing modules in identical pairs boosts performance, because it gives each module its own pathway to the memory controller, doubling the peak data bandwidth. (Consult your computer's manual to determine which two sockets on your motherboard support dual-channel memory.) Sanor also says that manufacturers are phasing out PC2100 DDR, but the more widely available PC2700 DDR is backward-compatible.

Need information or advice about a buying decision? Drop us a line at askourexperts@pcworld.com.

Barracuda 7200.10 750GB

Seagate

PCW Rating 86 Very Good

Gargantuan drive offers recordhigh storage capacity and classleading performance.

Street: \$590

find.pcworld.com/53196





CARRIED BY THOSE WHO CARRY COMPANIES.

The new Lenovo ThinkPad® X60 notebook with Intel® Centrino® Duo Mobile Technology. It's the smallest, lightest ThinkPad you can buy. Because you already have enough weight on your shoulders.

New Thinking. New Thinkpad.™

lenovo.

Lenovo recommends Windows® XP Professional

CARRY YOUR BUSINESS FURTHER.

The new ultraportable ThinkPad® X60 has features no business leader should do without. Select models feature integrated Verizon Wireless WAN1 - your own portable wireless Internet, anywhere within the Verizon Wireless BroadbandAccess Coverage Area, a fullsized keyboard,2 and 7.8-hour battery life.3 Take the pressure off your back and put it on your competition with the ThinkPad X60 and the Lenovo PC lineup.



ThinkPad X60

distinctive innovations

Strong ThinkVantage Client Security security as a standard feature

system features
Intel® Centrino® Duo Mobile Technology Intel Core Duo Processor T2300 Intel Pro Wireless 3495ABG

Genuine Windows® XP Professional®

12.1" XGA TFT (1024x768)

Travel Weight 3.15 lbs

512MB memory, 60GB Hard Drive

Integrated Fingerprint Reader

TopSeller Model

\$14<u>99</u>*

PN 170947U

Option

ThinkPad Leather Carrying Case

\$99 PN 10K0209

Upgrade to 2 yrs Onsite Repair

\$299 PN 2529R8U

ThinkPad Z60m Widescreen

distinctive innovations

ThinkPad Productivity Center – ThinkPad help at your fingertips

Intel® Centrino® Mobile Technology Intel® Pentum M Processor 740 (1.70 Ghz) Intel® Pro/Wireless 2915ABG

Genuine Windows XP Professional

15.4" WXGA Widescreen (1280x800)

512MB memory, 60GB Hard Drive, 3 USB

4-1 Media Reader

DVD-R Drive

TopSeller Model

\$1349 PN 2529E6U

Option

ThinkPad T60/Z60m 9 Cell Li-lon Battery

\$179 PN 40Y6797

Upgrade to 3 yr Onsite Repair 9X5

\$132 PN 41C9257



ThinkPad X60 notebook available with Intel® Centrino® Duo Mobile Technology

ThinkPad T60

distinctive innovations

ThinkVantage Client Security - Strong security as a standard feature

system features

Centrino Duo Mobile Technology Intel® Core® Duo Processor T2300 Intel® Pro/Wireless 3495ABG

Genuine Windows XP Professional

14.1° XGA Display (1024x768)

512MB memory, D-RW/DVD Drive

60GB Hard Drive, 2 USB

Travel Weight 4.5 lbs and only 1" thin

TopSeller Model

\$1349 PN 1953D6U

Option Maxtor One Touch II 200 GB USB 2.0

\$175 PN 41A4274

Hard Drive

ThinkPad T60

distinctive innovations

ThinkPad Productivity Center - ThinkPad help at your fingertips

system features

Intel® Centrino® Duo Mobile Technology Intel® Care "Dua Processor T2.400 Intel® Pro Wireless 3.495ABG

Genuine Windows XP Professional

15" XGA Display (1024x768)

512MB memory, D-RW/DVD Drive

80GB Hard Drive, ATI x1300 Graphics

Travel Weight 4.5 lbs and only 1" thin

TopSeller Model

\$1599 PN 2623DAU

ad Advanced Mini Dock

\$219 PN 250410U

ThinkCentre A52 Tower

distinctive innovations Rescue and Recovery™ – Or recovery and restore solution One-button

system features Celeron® D Processor 331 (2.66 GHz)

Genuine Windows® XP Professional

256MB memory

40GB Hard Drive, CD-ROM

6 USB 2.0 ports (2 Frontside)

ThinkCentre A52 Tower

distinctive innovations Rescue and Recovery™ – Or recovery and restore solution One-button

system features

Pentium 4 Processor 521 (2.80 GHz)

Genuine Windows XP Professional

512MB memory

80GB Hard Drive, CD-RW/DVD Drive

6 USB 2.0 Ports (2 Frontside)

TopSeller Model

\$479 PN 8288A2U

Option L171 ThinkVision Flat Panel Monitor

\$279 with System Purchase Regular Price

\$299 PN 9417AB1

TopSeller Model

\$649 PN 828841U

Lexmark Z735 Ink.let USB 2.0 with cable

\$50 PN 40Y8446

To shop or locate your local reseller

Call 1 866 426-6384

Go to lenovo.com/newthinkpad/m550

Availability: All offers subject to availability. Lenovo reserves the right to after product offerings and specifications at any time without notice. Lenovo is not responsible for photographic or typographic errors. "Pricing: prices do not include tax, shipping and handling, or any recycling fees and are subject to change without notice. [Price includes applicable discounts.] Reseive prices may vary. Warranty Information. P.O. Box 12:195, RTP, NC 27709, Attr. Dept. ZPYA/B676. Lenovo makes no representation or warranty regarding third-party products or services. Footnotes (1) Activating Verizon Wireless Service: Lenovo customers will be contacted after purchase to activate service; requires separate agreement with Verizon Wireless and is subject to the Customer Agreement, Calling Plan and credit approval. Service and airtime charges will apply; \$175 early termination fee. Verizon Wireless, not Lenovo, is solely responsible for service. Service not available in all areas; purchaser is responsible for vertifying that service is available. The intended location before purchasing a computer equipped with WAN card. Network defails, coverage limitations and maps all http://www.verizonwireless.com/b2c/mobileoptions/broadband/serviceavariability/jsp?opener-b2b. (2) Full-size keyboard. Service and services are services of the testing is available at lenovo.com/pc/wwithinkpa/battertylife. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences. (4) Mobile Processors: Power management reduces processor speed when in battery mode. (5) Wholiele Processors: Power management and the processor speed when in battery mode. (5) Wholiele Processors: Power management and processors and options. (by card when in battery mode. (5) Wholiele Processors: Power management processors and options. (by card in the processor speed when in battery mode. (5) Wholiele Processors: Power management processors and opt Visit www.lenovo.com/safecomputing periodically for the latest information on safe and effective computing.

Slim Ximeta NAS Drive Delivers Top Speed

TEST NETWORK-ATTACHED Center storage lets you keep data in a single location that's accessible to any computer on the same network. We tested three new models for this month's chart, which includes both multidrive-array models and single-drive units.

The slender Ximeta Net-Disk ND10 debuts at number one after turning in a stellar performance in our benchmarks. While other NAS units typically appear as networked drives on connected PCs, the Ximeta product uses a proprietary Network Direct Attached Storage (NDAS) chip and its own networking protocol to enable direct communication between the device and the computers. Special software that you install on each computer allows the device to appear as a local drive for each networked machine, instead of as a network drive shared among them.

The end result: Faster performance when you're transferring files to and from the device. For example, the Ximeta took just 317 seconds to copy a 3.06GB folder of files, while the second-place Infrant Technologies ReadyNAS NV (a multidrive array with its own special software) took 372 seconds, and the remaining units each took more than 500 seconds. In addition, the Ximeta NetDisk outran all comers in the file copying test, where we copy a single large .zip file.

Another notable aspect of

XIMETA CRUISES AHEAD of the pack with its compact NetDisk ND10 hard drive.

the Ximeta drive: Besides having a custom version of Acronis TrueImage 9 backup software preinstalled, the product includes a USB 2.0 port (a rare find in NAS drives); this feature allows you to use the NetDisk as a boot drive if your system's BIOS supports booting from a USB drive.

Debuting at number four this month is Maxtor's Shared Storage Plus drive. At 500GB, the model is the largest single-

drive NAS device we have tested; unfortunately, it is also among the slowest. Maxtor's utilities, which include backup and drive management. are more full-featured than most, and very easy to use. Especially noteworthy is the software's Drag and Sort component; this feature lets you automatically sort files by type (for example, movies, photos, software, documents).

Our last new drive tested this month finished out of the Top 5 despite solid performance numbers and a good price. The Plextor PX-EH40L's greatest weakness is its omission of utilities for drive management and backup, features that are common among NAS devices. To install the drive, you have to manually seek it out in Windows Explorer, and then map a drive letter to it.

The unit did well in testsit bested all but the Ximeta among our single-drive NAS boxes-and we liked its sleek design, matching network cable, and easy-view status lights. But the lack of software kept the drive off the chart.

-Melissa J. Perenson

ONLINE

FOR MORE INFORMATION on the network-attached storage drives reviewed here, including testing details, go to find.pcworld. com/53508.

	NETWORK-ATTACHED STORAGE	PCW Rating	Performance	Features and specifications		
1	Ximeta NetDisk ND10 Best \$480 NEW Find.pcworld.com/53216	80 Very Good	Overall performance; Superior Copy files: 317 seconds File search: 42 seconds	- 400GB - 7200 rpm - 10/100 ethernet - Cost per gigabyte: \$1.20		
_	Bottom line: Stellar performer shoots past competitors thanks to its NDAS technology, but you'll need to install an applet on each PC.					
2	Infrant Technologies ReadyNAS NV \$1199 find.pcworld.com/52074	77	Overall performance: Very Good Copy files: 372 seconds File search: 100 seconds	1000GB 7200 rpm Gigabit ethernet Cost per gigabyte: \$1.20		
	▶ Bottom line: Superfast multidrive terabyte NAS box is loaded with features, but it ships with a usable capacity of only 660GB.					
3	Buffalo Technology LinkStation 250GB Network Storage Center \$230 find.pcworld.com/45888	77	Overall performance: Poor Copy files: 597 seconds File search: 105 seconds	250GB 5400 rpm 10/100 ethernet Cost per gigabyte: \$0.92		
	► Bottom line: A great, inexpensive pick for the home user who doesn't need massive capacity or high performance.					
4	Maxtor Shared Storage Plus \$500 NEW Find.pcworld.com/53198	76 Good	Overall performance: Poor Copy files: 586 seconds File search: 111 seconds	- 500GB - 7200 rpm - 10/100 ethernet - Cost per gigabyte: \$1.00		
	 Bottom line: Hefty drive packs plenty of storage, but is slow. Includes useful file-sorting and backup software. 					
5	Buffalo Technology TeraStation Home Server \$850 find.pcworld.com/52082	75 Good	Overall performance: Good Copy files: 645 seconds File search: 88 seconds	1000GB 7200 rpm Gigabit ethernet Cost per gigabyte: \$0.85		

Peachtree 2007 Improves MS Office Integration

ACCOUNTING SOFTWARE

THE SMALL-BUSINESS accounting market is hotly competitive, and Sage Software has kept close tabs on what its rivals are up to. With Peachtree Premium 2007, Sage strengthens its product in response to the tougher competition.

For starters. Peachtree has bolstered the software's integration with Microsoft Office. thereby countering the threat from Microsoft's Office Small Business Accounting (find. pcworld.com/53226). Other improvements include a new and more powerful back-end database that's similar to Intuit's upgrade in QuickBooks 2006 (find.pcworld.com/ 53228). The late beta version of Peachtree Premium 2007 that I reviewed also enhances

the user interface by adding a Business Status Center and by making it easier for you to view account lists.

Users of recent versions (2000 or later) of Excel and Outlook will welcome Peachtree's closer links to Office. You can export data from Peachtree into Excel with a new option that retains the layout and the format of the Peachtree report, along with the accounting numbers. Your export retains formulas, too, and you can keep report headers and frozen panes for easier scrolling of on-screen financial reports.

Creating a budget within Peachtree is easier, too. The software now operates more like a spreadsheet. Once you've set up synchronization, your Outlook and Peachtree con-



PEACHTREE'S INTERFACE NOW includes a Business Status displaya screen providing a graphic snapshot of your company's finances.

tact information for customers, vendors, and employees will automatically be kept up-

to-date in both apps.

Sage replaces the Btrieve database it used in Peachtree 2006 with the more robust Pervasive 9.1 database. Singleuser businesses with relatively few transactions likely won't notice much performance improvement with the upgrade, but companies with many transactions or with multiple users should experience a nice performance boost-and fewer multiuser lockups.

The app simplifies organizing and looking up information by including 25 lists for sorting by customer, vendor, inventory, employee, and so on. You can quickly sort each list in several different ways just by clicking on a column. which makes it easier to find the information you want.

Even the main Peachtree screen has a new streamlined look. The new Business Status display, which replaces the Peachtree Today screen, packs more usable information onto

the screen in a format that's easier to understand.

As usual, Peachtree comes in several editions. I reviewed the \$500 Peachtree Premium. a five-user-ready application for businesses that require such advanced accounting features as departmentalized financial statements, serialized inventory, progress billings, and company consolidation. If you don't need these Premium frills, the single-user Peachtree Complete (priced at \$270) may be a better match for your company's needs.

Peachtree Premium 2007's improved user interface and tighter integration with Office make it a worthwhile upgrade for all current Peachtree users.

-Richard Morochove

TECH TREND

No-Box Security Software

YOUR SECURITY SOFTWARE may have arrived in a box, but it must download regular program updates and virus definitions from the Internet to recognize and guard against the latest threats. Very soon, however, boxed security software will begin facing new competition from online applications.



For example, as of June Microsoft is launching its Windows Live OneCare, offering PC security and utilities services for \$50 a year; and Symantec's comparable service, code-named Genesis, will become available in September. But don't expect retail boxes to disappear. As long as shoppers drive to stores, security companies will continue to sell software in boxes. Even

Microsoft and Symantec plan to offer their new services via retail. Still, that box may be more a way for security companies to reach you than a way for you to reach their software.

-Narasu Rebbapragada

Peachtree Premium 2007

Sage Software

PCW Rating 81 Very Good

Good small-business accounting app now offers better Microsoft Office integration.

List: \$500 for one user (Peachtree Complete 2007 costs \$270)

find.pcworld.com/53230

IT ALERT:

IT For The Way You Work™

Insight.

Color improves brand recognition by 80%.

Ready to make your mark?



YOU CAN MAKE IT HAPPEN WITH INSIGHT
Reliable * Easy to Use * Cost Effective



HP Color LaserJet 2600n

Q6455AABAG

- Prints up to 8ppm B/W and color
- 600 x 600 dpi max resolution
- Ethernet, Fast Ethernet and high-speed USB interfaces
- 1-year warranty

\$399.00



HP LaserJet 1320n

Q5928AABAG

- Prints up to 22ppm B/W
- 1200 x 1200 dpi max resolution
- Ethernet, Fast Ethernet and high-speed USB interfaces
- 1-year warranty

\$499.00

Black Toner Cartridge — High Yield 05949X130.99

DARE TO COMPARE!

- HP invests millions in R&D for reliability and ease of use
- 30 years of industry leadership make HP the gold standard
- Experience on your side with 14 years of award-winning support

insight.com/pcworldhp • 800.249-9927



VIDEO SYSTEM

THE PROSPECT OF on-demand access to movies will attract many people to the Movie-Beam service. But despite its long-term promise, this first iteration needs fine tuning before I'll count on it as a regular entertainment option.

A bit slimmer than a typical

MovieBeam Player

MovieBeam

PCW Rating 77 Good

Service delivers on-demand movie rentals, but it suffers from middling image quality and a limited selection of titles. List: \$200 for box, plus \$2 to \$4 per movie rental

find.pcworld.com/53490

cable box, the \$200 MovieBeam

Player gives you a changing group of 100 titles that it stores on a 160GB hard drive (the service sends 10 new titles over the air every week, while arbitrarily deleting others; you can't specify titles that you might want to keep longer). Each time you access a movie, it costs \$2 to \$4; and you can view your new "rental" as often as you like during the next 24 hours.

The player is exceptionally easy to set up, thanks to a handy step-by-step guide included in the box, well-labeled ports, and an attractive TiVoesque on-screen menu.

The menu system is fast



GET UP TO 100 movies with MovieBeam (with antenna and remote).

and convenient, which makes scrolling through movie titles a pleasure. And the nicely balanced remote is easy to use.

My gripes with the player are practical ones. You never know exactly when a movie is going to disappear, you can't search the offerings by type, and the unit sometimes exhibits quirky behavior (such as a delay when you move between movie and menu). The player's image quality is iffy, too

(it reminds me of the pixelation that I see with TiVo's 2hour mode). Finally, although having 100 titles to choose from sounds like a lot, it isn't really, and far too many of the titles offered are mediocre.

For now, MovieBeam is too much a work in progress for me to recommend, but I see enough potential here to look forward to what the service has coming up next.

-Melissa J. Perenson

Sony's First GPS Comes Up Short

GPS DEVICE

SONY'S FIRST GPS model for the U.S. market, the compact Nav-U NV-U70 is designed for in-car use and has a bright, clear 3.5-inch LCD screen. But compared to other GPS devices I've tested, it supplied second-rate routes and imperfect driving instructions.

The Nav-U's touch-screen display and built-in maps of the 48 contiguous states (the included CD offers additional U.S. maps) made initial setup easy. Sony says its database contains 1.6 million points of interest, but it's far from complete: When I searched for a Whole Foods grocery store, the device directed me to one some 15 miles away from my location, even though another

store branch was miles closer.

Time and again while I was testing the Nav-U, the routes the device suggested frustrated me. Typically the instructions would get me where I needed to go, but they necessitated more driving time than was necessary. In one in-

SONY'S NAV-U NV-U70S offers less-than-perfect directions.



stance the device directed me to continue for several miles along a surface street running parallel to a faster-moving freeway that was just 50 yards away. The feature that I missed the most-and one that other GPS devices have-is an ability to designate roads and intersections to avoid entirely. If you specify a road as blocked, the Nav-U automatically unblocks it for the next route you plan in the same driving area.

A bigger problem for me, especially considering that the Nav-U is primarily an in-car navigation device, was the lack of detail in the directions. For example, the device's clear voice would instruct me to exit a freeway, but it wouldn't specify whether I should use

the eastbound or the westbound off-ramp. I did like the way the device recalculated my directions when I veered off-course, and I also appreciated the Nav-U's blocked-road feature, which helps you navigate around traffic jams.

Nonetheless, the Nav-U's incomplete directions and questionable route choices put it behind less-expensive and better-navigating products from competitors Garmin and TomTom.

-Dennis O'Reilly

Nav-U NV-U70

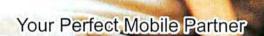
Sony

PCW Rating 78 Good

The device's small size, bright screen, and clear sound don't fully compensate for its dubious routes and ambiguous directions. Street: \$550

find.pcworld.com/53232







150X SD™ Card



Transcend - Performance speaks for itself.

Transcend 150X SD™ card gives you the benefit to take more shots in less time with your camera; do more in less time on your PDA; and it is fully compatible with your portable devices. Performance worthy to be by your side!





microSD"



MMCmobile[™]



MMCplus"



Transcend Information, Inc.

www.transcendusa.com

ILLUSTRATION: MARRY CAMPBELL

New Applications Make Backup Chores Easier

BACKUP UTILITIES

IF BACKUP ISN'T easy, it just doesn't get done. Three new products-NTI's Shadow 3, Stardock's KeepSafe, and CMS Products' BounceBack Professional 7-promise easy backups, but only two deliver.

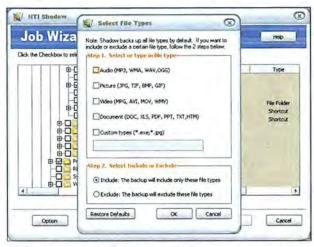
Happily, the automatic, continuous native backup promised by the intuitive Shadow 3 now works as advertised. Set the \$30 program to watch important folders, and it copies new and revised files to a safe location as changes occur. Unlike the finicky Shadow 2 (reviewed at find.pcworld.com/ 53524), version 3 performed perfectly during my tests.

The only enigma I encountered was a mysterious dialog box that popped up to tell me that an operation was successfully completed. After this happened a couple of times, I realized that the program was creating a baseline backup of the folders I was watching (copying the originals for safekeeping). NTI has since fixed this problem; early adopters should download the update.

Meanwhile, Stardock's take on real-time backup is Keep-Safe. I liked the \$30 program's utilitarian approach to the job; it performed flawlessly, and it even offers a system restore function, something that Shadow 3 lacks.

Alas, the software does not include an option for creating a baseline backup, so you have to copy your existing files to the backup location manually or to a folder that KeepSafe is already watching.

While Shadow 3 and Keep-Safe work in real time, CMS's



NTI SHADOW 3 offers a list of filters that let you easily select the types of files you want to monitor for regular backups.

revamped BounceBack Professional 7.0 takes the traditional, scheduled approach to backups. In my informal tests, the \$70 program performed backups without error, but I still can't recommend it.

BounceBack's ability to copy your entire system to an auxiliary hard drive and make that drive bootable can be extremely handy. Unfortunately, it's one of the only things the program does particularly well.

BounceBack's redesigned interface is singularly counterintuitive. And I discovered that the interface permitted me to define a single location as both the backup source and the destination-a huge nono. The program also defaults to giving every backup job the same name, and I could not figure out any way to delete a previously defined job.

Finally, the app lacks support for many media formatssuch as optical discs and tape-that other schedulebased programs can handle.

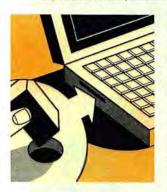
Among these three applications, Shadow 3 wins the nod over KeepSafe for its ease of use. Current users of Bounce-Back Professional are well advised to stick with version 6 until CMS gets its application's interface sorted out.

-Jon L. Jacobi

GOTCHA!

Where's My PC Card Slot?

TECHNOLOGY IS ALWAYS on the move-and sometimes it moves faster than we'd like. Recently, with the arrival of the ExpressCard slot, some unsuspecting notebook buyers have experienced that phenomenon first-hand. Based on a stan-



dard announced in 2003, the ExpressCard slot replaces today's PC Card slot, improving performance and using thinner, lighter cards. Unfortunately, it can't support today's PC Cards.

What does that fact mean to you? If your new notebook has only an ExpressCard slot, you'll have to replace all of your existing PC Card-based hardwaresuch as Wi-Fi cards, memory

card readers, and port adapters. Otherwise, if you're in the market for a new notebook and need a standard PC Card slot, you can still find a unit that offers both slot types.

-Tom Mainelli

Shadow 3

PCW Rating 85 Very Good

Automatic background file backup doesn't get any easier, but it won't let you restore files. List: \$30

find.pcworld.com/53204

KeepSafe

Stardock

PCW Rating 83 Very Good

No baseline backup, but in other respects this is a helpful background utility.

List: \$30

find.pcworld.com/53206

BounceBack Professional 7.0

CMS Products

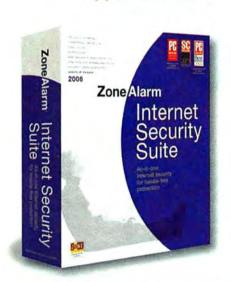
PCW Rating 67 Fair

Pricey product works, but its poor interface and limited media support are real drawbacks.

find.pcworld.com/53208



Protect your PC with the award-winning ZoneAlarm® Internet Security Suite, and you could win one of two Dell™ XPS™ 600 Multimedia Desktops, three 30 Gb Apple® iPod®s or the GRAND PRIZE - a 42″ LG Plasma HDTV.







No purchase necessary, U.S. residents only. Void in Puerto Rico. Void where prohibited. Sweepstakes ends July 31, 2006. Terms and Conditions apply. See the Official Rules. *Image used by permission of LG Electronics Inc



www.zonelabs.com/sweet

eMachines Offers Bare-Bones Media Center PC

VALUE DESKTOP

THE NEW EMACHINES T6532 Media Center PC is a no-frills system designed to handle everyday tasks. Although the \$900 T6532 has Windows XP Media Center Edition 2005 installed, it's not a home theater system: It lacks a remote control, a TV tuner, and digital audio and video ports.

T6532

eMachines

PCW Rating 83 Very Good

Inexpensive and expandable PC offers adequate performance for routine tasks, but its Media Center features are lacking. List: \$900

find.pcworld.com/53186

Our shipping test unit's components included a 2.2-GHz AMD Athlon 64 3500+ CPU, 1GB of Samsung's DDR400 memory, a Toshiba multiformat doublelayer DVD writer, and a fairly sizable 200GB 7200-rpm Western Digital hard drive. The system received a WorldBench 5 score of 91, putting it on a par with other desktops with similar prices. Advanced gaming is not its forte, though. For rendering graphics, it relies on an integrated GeForce 6100 graphics chip that siphons off up to 128MB of the PC's main memory. Thankfully, an available PCI Express slot will let



THE EMACHINES T6532 PC with the optional 17-inch LCD.

you install your own graphics card as your needs grow.

The minimalist MSI 7207 motherboard comes with two open PCI slots (a third slot is occupied by a 56-kbps modem) and provides both a parallel and a 10/100 ethernet port, as well as four USB 2.0 ports. A fifth USB 2.0 port is located up front, along with a five-in-one media-card reader. The system comes bundled

> with a multimedia keyboard, a rudimentary mouse, and stereo speakers. The accompanying software

package includes Microsoft Works 8 and Money 2006.

If you already own a monitor or want to purchase one elsewhere, you can buy the midtower for \$580 sans its 17inch, 1280-by-1024 LCD display with 12ms response time. Either way, you'll get a very serviceable entry-level PC.

-Danny Allen



IOGEAR INC.

Go to find.pcworld.com/53276

Toll Free: 866-946-4327 • www.iogear.com • sales@iogear.com



A PLATFORM DESIGNED FOR



Get ready for a new kind of consumer entertainment PC that will change the way you enjoy entertainment at home. AOpen Viiv-ready system, based on Intel Viiv technology, delivers the multi-tasking power of a dual-core processor-based PC and sleek new designs that fit your life style. Digital media enthusiasts can usher in the next generation of digital media software for amazing high-definition video and photo editing, content creation, and audio mixing.





Smallest Viiv Ready PC in the World, supports Intel
Core Duo Processor. Measures just 6" x 6" x 1.97"
Ultra quiet 29dBA operation, Component & Composite
Connectors, slot loading optical drive. HD audio support
Visit: http://minipc.oopen.com/US

EPC945-m8



Slim Viiv Ready Entertainment PC
for the living room. Supports Intel Dual Core
Pentium D processor, ultra quiet 29dBA operation, Microsoft Windows XP
Media Center Edition support and includes MCE remote control.

Visit: http://usa.aopen.com/products/epc/epc945-m8.htm

For Product Distribution:







Where to buy miniPC: http://minipc.aopen.com/US/wheretobuy

Where to buy EPC:

http://epc.aopen.com/US/wheretobuy
Go to find.pcworld.com/53272

All logos are trademarks of their respective companies



1911 Lundy Ave, San Jose, CA 95131, 1-888-97-AOPEN

DVD Camcorder Takes High-Quality Video

CAMCORDER

INSTEAD OF RELYING on a single CCD sensor, as most DVD camcorders do. Panasonic's \$800 VDR-D300 carries three—one for each primary color. As a result, this featurepacked camcorder captures video with strong, accurate colors and-thanks to its well-

Panasonic VDR-D300

Panasonic

PCW Rating 81 Very Good

The VDR-D300 captures highquality video and is comfortable to use, though it is rather pricey. Street: \$800

find.pcworld.com/53224

matched optics-fine detail.

The VDR-D300 uses 3-inch DVD minidiscs for recording, and it can store between 30 and 70 minutes of video on each. You can capture still images, too, and store them on an SD Card at a resolution of up to 3.1 megapixels.

The 21-ounce camcorder fit comfortably in my hand, with the record and zoom buttons falling under my thumb and index finger. The joystick for navigating the menus and playing back content is conveniently located next to the record button, but the menu button is awkwardly situated



PANASONIC'S VDR-D300 USES three color-specific CCD sensors to capture top-notch video.

below the record button. The camera has extensive manual controls and an external microphone input-features rarely seen on DVD camcorders.

With its three CCD sensors the VDR-D300 excelled in my informal video tests, outperforming most DVD camcorders I've seen. But in low light the video's digital noise level

became somewhat distracting, and colors were pale.

The VDR-D300 is one of the first DVD camcorders to include optical image stabilization, and Panasonic's implementation provided a fairly effective buffer against my wavering hands.

The VDR-D300 is a bit pricey for a standard-definition camcorder, but its significant edge in image quality makes it a worthwhile investment.

-Richard Baguley



Find quality information quickly and browse more efficiently with PC World's innovative Find-It service.

HOW IT WORKS

Enter a Find-IT URL (for example, find.pcworld.com/46300) in your browser or click the USE FIND.PCWORLD.COM button on any PCWorld.com page and enter the five-digit Find-It number.

PRODUCT INFORMATION

Find-It URLs are also specific to each ad, for a fast and easy way to get to the product information you want.



Don't waste your valuable time searching for the information you want. Use PC World's Find-It service.

perfect little addition to yo

The new Maxtor Shared Storage Drive is simply the easi usic and work files across your small office or home netwo too. Our easy-to-use software automates setup and lets yo folders private. And our exclusive Drag and Sort * tech Meet the ideal playmate for your sma

> Go to find.pcworld.com/46843 ev CompUSA Fry's Micro



Provides the flexibility and scalability for demanding enterprise-class applications. The AMD Opteron™ processor's forward-thinking technology provides flexibility with a 1-8P scalable design (up to 16 cores), delivering the headroom needed for current high-end computing needs or future applications and technologies.



Industry-Leading Performance

- Best Dual-Core architecture for x86 computing
- Best performance for multi-threading and multi-tasking needs
- Positioned and priced based on relative performance to single core



ZT Opteron Server A8127



teron

Dual-Core AMD Opteron™ 265 Processors (1.80GHz, 2x1MB L2 Cache) (Upgradeable to 2 X Dual-Core AMD Opteron™ 200 Series Processors

- . Microsoft Windows Small Business Edition 2003 STD(add \$375)
- AMD® 8132 + 8111 Chipset Server Board
- 2GB ECC Registered DDR 400MHz SDRAM(Up to 16GB)
- . 2 x 80GB SATA Hard Drive (RAID 1 for OS)
- . 6x 250GB SATA 16MB Cache Enterprise Hard Drive (RAID 5 for Data)
- 8x 1" Hot-Swappable SATA Drive Bays
- . 8-Channel 64Bit SATA RAID Controller (RAID 0, 1, 5, 10, JBOD Support)
- . DVD-ROM and Floppy Drive
- 2x Broadcom® 5704 Gigabit Ethernet
- 4U Rackmount/Tower Convertible Chassis w/ 650W Redundant-Cooling Power Supply
- 8x Fan Support with Speed Control
- · Super Doctor III Server Management Software
- · 3-Year Limited Warranty + 1-Year On-site Service

\$2,799

Find out how ZT can help maximize your business solutions

Go to

ztgroup.com/go/pcworld

Call

866-ZTGROUP (984-7687)

Promote Code # pcw0706



Purchaser is responsible for all freight costs on all return of returns of merchandise. Full credit will not be given for incomplete or changed returns. Absolutely no refunds for merchandise returned after 30 days. All prices and configurations are subject to change without notice and obligation. Opened software is non-refundable. All returns have to be accompanied with an RMA number and must be in re-setlable condition including all original packaging. System's picture may include some equipment and/or accessories, Which are not standard refused and original packaging. System's picture may recognize and to recognize and to the property of the respective companies AMD, the AMD Arrow logo, AMD Athlori, Coolin Quiet and combinations thereof, are trademarks or deviations. However, the property of the prope

More Reviews at PCWorld.com

SHORT LIST: GREEN PC

Eco-Friendly Tech Gear



GIVEN THE RISING cost of energy, going green for your wallet's sake makes sense, and it could help the environment. Check out the ecologically friendly offerings below.

-Anush Yegyazarian, Senior Editor



Apple Take-Back Service, free

find.pcworld.com/53482

In the market for a new Mac? Apple will accept your old system into its recycling program, and will pay for the shipping.



PORTABLE POWER Voltaic Solar Bags, \$239 list find.pcworld.com/53484

These bags have three solar panels and a lithium ion battery pack to give your small portables juice when you need it.



Toshiba Satellite A105 series, prices vary find.pcworld.com/53486

This line of Toshiba laptops complies with an environmental directive aimed at limiting the use of hazardous substances.

SHORT LIST: CELL PHONES

Phones and Accessories

TODAY'S CELL PHONES handle more than just voice calls. They let you stay in contact with friends and colleagues wherever, whenever. These tools make staying in touch effortless.



-Liane Cassavoy, Associate Editor



PDA-PHONE HYBRID

RIM BlackBerry 8700g, \$300 with a two-year contract from T-Mobile; find.pcworld.com/53478

Stay constantly connected to your e-mail with RIM's speedy device, which offers support for T-Mobile's fast EDGE network.



MOBILE SERVICE

Yahoo Go for Mobile, free find.pcworld.com/53476

This no-cost service for Nokia Series 60 phones automatically syncs Yahoo contacts and allows mobile access to e-mail.



Backup Pal, price varies by phone find.pcworld.com/53480

Lost your cell phone? You haven't lost your address book. The Backup Pal transfers your contacts to your new phone.

Notebooks and More

POINT YOUR BROWSER toward PC World's Web site for the latest reviews, including looks at these notable products.



find.pcworld.com/53244

This Web browser includes widgets and other handy features, and allows you to set site-specific viewing and security preferences.



BEHIND THE RATINGS

ONLINE REVIEWS REINVENTED: Our online product reviews now feature dynamic PCW Ratings that re-Superior flect technology changes, features, and price up-

dates. If a product is still under consideration for review, its rating and ranking may move up or down. We've also added deeper Test Reports and powerful new tools that allow you to customize our charts to your tastes. And try out our newest feature: Complete Product Listings. Unlike our Ranked Charts, which are a snapshot of today's best products, our Complete Product Listings contain all the products we've recently reviewed. Even better, you can now use robust sorting and filtering tools to create the chart you want. Check out our revamped reviews at find.pcworld.com/50858.

Best BEST BUY AWARDS go to hardware, software, and services in our ranked charts and other product comparisons that deliver outstanding quality and value.

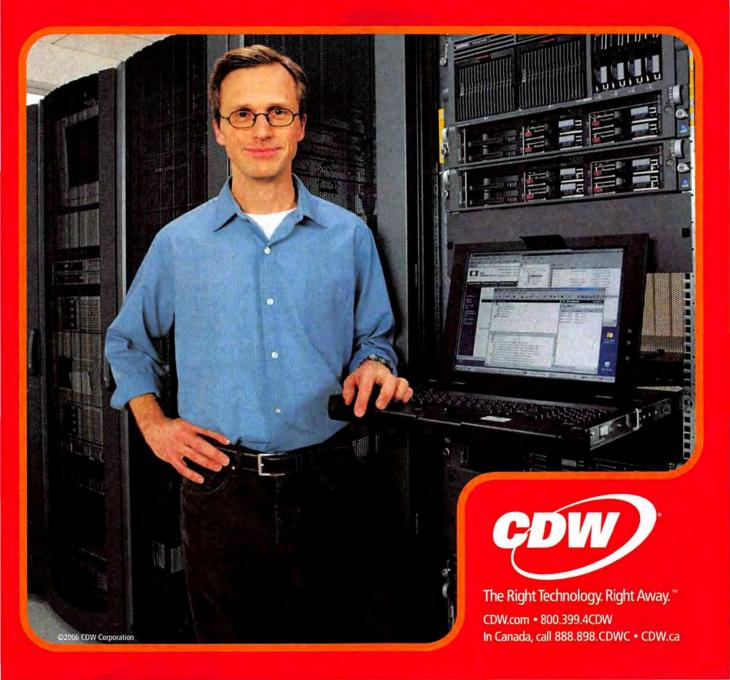
TEST THE PC WORLD Test Center formally tests all products designated with this icon. For more on how we

test specific products, visit find.pcworld.com/49974.

How can you protect your network and your peace of mind?

(We've got the answer.)

Confidence. When it comes to security information or anything else in technology, CDW delivers just that. That's why we give you a trained, dedicated account manager who knows your technology setup and the products we carry. So when you call you get faster, more insightful answers. That's also why we have industry-certified technology experts available. As well as technical support anytime you need it. Add in access to the industry's largest in-stock inventories and fast delivery, and you've got a technology resource that's a little different. It's one you can count on.



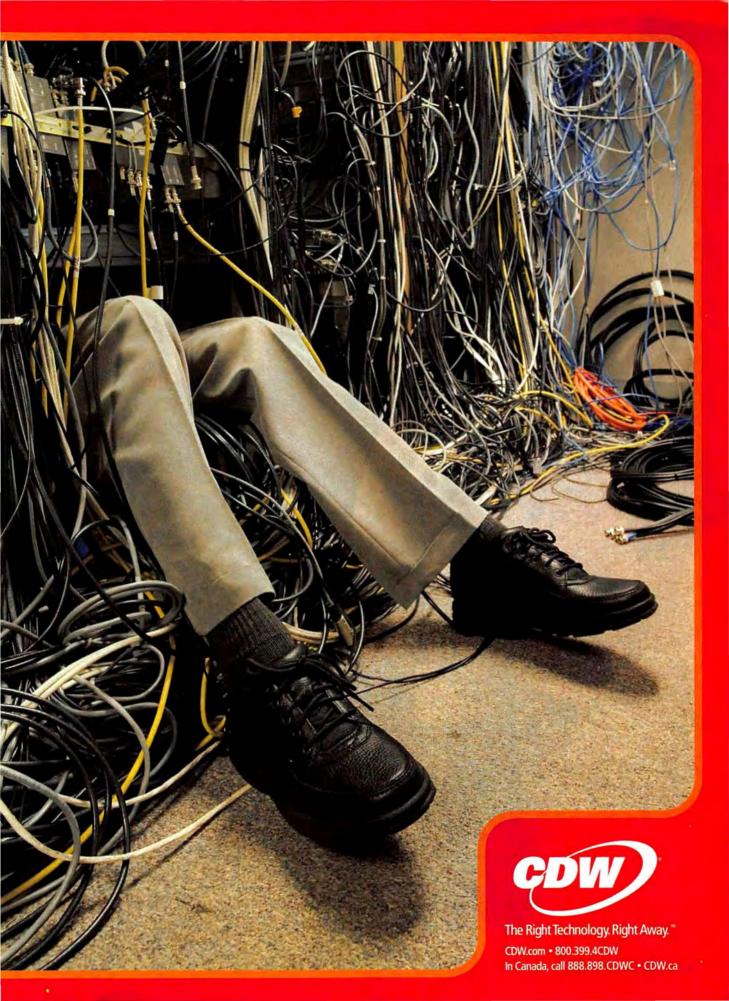
Optimization can make your servers more manageable.

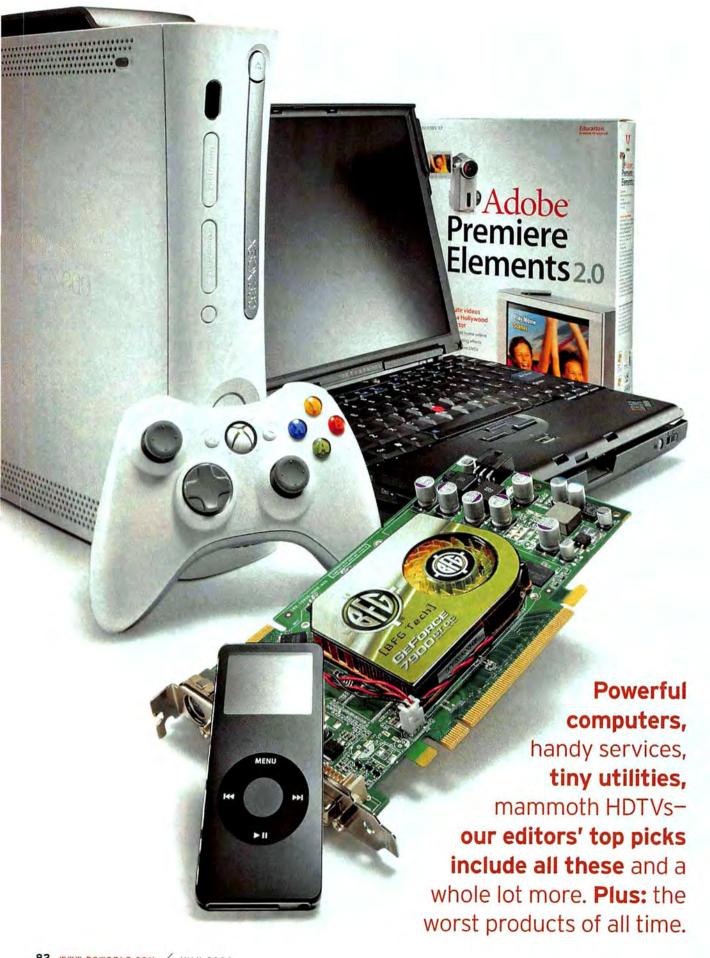
(And not a moment too soon.)



The Server Solutions You Need When You Need Them.

Is managing your growing number of servers and your growing storage needs getting to be too much? Then server optimization maybe just the answer. From server consolidation to storage management, networking to virtualization, CDW can answer your questions and get you the solutions you need. Then we will configure your servers to your exact specifications. So call CDW today. It's time you ran your network, not the other way around.





YOU KNOW HOW many new-product pitches we get every year? Thousands, each declaring that the item is the best in its category. Though many of the companies making these claims are clearly

formers in their field-and you'll find all of them right here in our roster of the 100 best products of the year.

We rated each candidate on its design, performance, and specifications. We generally did not consider price in our evaluations; instead, we looked for products that represent the cream of the

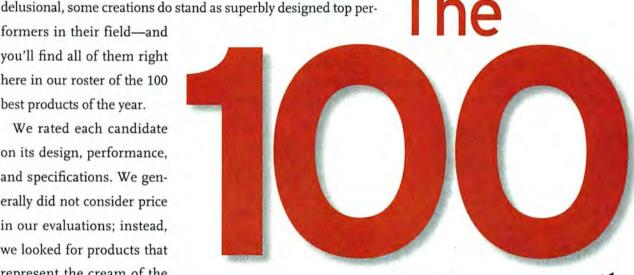
crop. But in compiling our list, some products were such great bargains that we couldn't ignore them. Of course, ranking laptops and Linux distributions in one place is tricky, but we used the same scoring system for each candidate and assessed them as

consistently as we could. This year we have also assigned each candidate an "impact" score, to recognize significant products that changed the tech-

nology landscape. And last, we ranked every World Class award winner by its final score, creating our list of the year's top 100 products.

We've also identified a few of the year's

most noteworthy companies, including our pick for the loser of the year. And we've named the 25 worst products of all time read about them on page 86. For more information on our list of World Class products, visit find.pcworld.com/53158.



roducts of the Yea

> EDITED BY ALAN STAFFORD PHOTOGRAPHS BY MARC SIMON

PRODUCT OF THE YEAR

INTEL CORE DUO Notebook/Desktop CPU (\$450 and up) Intel's Core Duo provides multitasking power never before possible on a portable PC, and yet it supports astounding battery life for mobile devices. The Core Duo processor is so good that it's the CPU of choice not only for Windows laptops but also for Apple's Windows-capable laptop and for desktop Macs.

In today's mobile world, Core Duo gives Intel a leg up. AMD's Athlon 64 X2 Dual-Core (#2) is astoundingly good, but AMD hasn't yet captured that power in a mobile version; and its notebook processors aren't nearly as potent or as battery-efficient as Intel's.

memphis

AMD ATHLON 64 X2 DUAL-CORE L Desktop CPU (\$300 and up) The most powerful desktop CPU ever made had a dual-core design first. If you need full power for increasingly demanding applications and you're tied to a desk, X2 is for you.

3 CRAIGSLIST.ORG Web Classifieds (mostly free) Now established in over 200 cities around the globe, this community classified-ad service puts the hurt on newspapers' overpriced classifieds. Sell a used piano or find a soul mate-gratis.

APPLE IPOD NANO Digital Audio Player (\$149 to \$249) You get up to 4GB of capacity in a tiny device that nevertheless has room for a crisp color display. It's scratch-prone, but it's still cool.

SEAGATE 160GB PORTABLE HARD DRIVE Portable Hard Drive (\$380) This hard drive was one of the first to use perpendicular magnetic recording (PMR) technology to pack more data into the same space. Another PMR-based Seagate hard drive, the Barracuda 7200.10, is the first desktop model to reach 750GB.

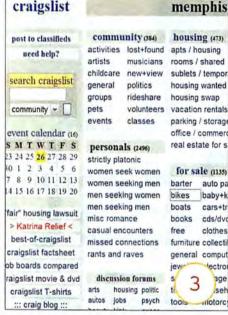
6 GOOGLE EARTH Satellite Imagery (free) News channels use Google Earth to zoom in on Iraq; you can use it to focus on neighboring houses, or to explore the rest of the world from your desktop.

ADOBE PREMIERE ELEMENTS 2 Video Editor (\$100) This strong, stable video editing application costs about one-eighth as much as Premiere Pro, Adobe's professional video editor. And it's so good you may not notice the difference.

CANON EOS 30D Digital SLR Camera (\$1499) An 8.2-megapixel shooter, the EOS 30D makes many of the pro-level features from Canon's EOS 5D available at a friendlier price. It also earned extremely high marks in our image-quality tests.

TOP COMPANY WEB Company of the Year AHOO! * YAHOO has progressed far beyond

being a mere search engine; it has emerged as the number-one online developer, on the strength of great revamps of Yahoo Mail (#30) and Yahoo Maps (#56), smart acquisitions of Web stars such as Del.icio.us (#93) and Flickr (#78), and development of the Yahoo 360 personalized Web spaces and of the Yahoo Music Engine (#73). Google may get a lot more attention, but Yahoo has been getting more things accomplished.





YOUTUBE.COM Video-Sharing Site (free) Enjoy watching videos of every kind at this massive community of amateur videographers, and upload your own productions-at no cost.

APPLE BOOT CAMP Mac Dual-Booter (free) Astonishingly, Apple has finally given its blessing to running Windows on a Mac, with this utility. Next up: running the Mac OS on a Windows box-or pigs flying through the sky.

ADOBE PHOTOSHOP ELEMENTS 4 Image Editor (\$100) The latest version of Elements is the most elegant and powerful image-editing and -organizing application available for under \$600 (the price of Adobe's pro-level Photoshop CS2).

MOZILLA FIREFOX 1.5 Web Browser (free) The 2005 product of the year continues to improve, with a better set of features and stronger security than Microsoft's Internet Explorer offers.

3 ENGADGET.COM Gadget
Blog (free) Even if Engadget decided to devote itself to game shows and golf, we'd probably still read it, just because the blog's writing is so snarky and entertaining.

TOSHIBA HD-A1 HD DVD Player (\$500) The first high-definition optical disc player on the market, the HD-A1 will probably be the least expensive one for some time, too. Say good-bye to your \$40 DVD player and say hello to gorgeous high-definition movies on disc.

TOSHIBA QOSMIO G35-AV600 Power Notebook Computer (\$2548) The jazzy Qosmio notebook line got even better this year. In fact, the G35-AV600 is the best Media Center desktop replacement we've ever seen. Toshiba recently released a version that comes with an HD DVD-ROM drive.



Graphics Card Chip Set (\$200) Our list doesn't focus on outstanding values, but how could we overlook this powerful chip set? At \$200, it's a steal.

GOOGLE Search Engine (free) Google's clean, fast-loading interface helps it remain the most-used and best-loved search engine on the Internet. Have you googled anything today?

Audio Streamer (\$349) The Zone-Player offers the most elegant way to play digital audio throughout your home; this version omits its predecessor's amplifier, thereby reducing the price significantly.

18

YAMAHA RX-V4600

Home-Theater Receiver (\$1200) The RX-V4600 is the first receiver to deliver highdefinition radio, which sounds better and comes in more clearly than regular old AM and FM signals. Too costly? Consider Boston Acoustics' tabletop Receptor Radio HD, which lists at just \$299.

14

Online extras: find.pcworld.com/53158.

VIDEO GAME I love RedOctane's **Guitar Hero because it lets** me indulge in the air-guitar fantasies that began for me when I first heard "Crossroads." This Sony PlayStation 2 game (\$70) is completely addictive, and I've never run into a title with such wide appeal across age and gender lines. Everybody wants to go all Clapton with the included guitar once they see it in action. Well, okay, a few arhythmic types don't care, but they probably weren't airguitaring "Infected" in the dorm back in the day, either. -Ramon G. McLeod

PIONEER BDR-101A Bluray Drive (\$1000) The first Blu-ray drive comes not as a set-top player for highdefinition movies, but as an internal PC drive for backing up massive amounts of data.

ADOBE PHOTOSHOP CS2 Image Editor

(\$600) Anything that you want to do with a digital image, you can do with Photoshop CS2.

Not a pro? Avoid CS2's expense by opting for Adobe's Photoshop Elements (#11).

CITRIX GOTOMYPC 5 Remote Ac-Cess (\$20 per month) Turn any Web-connected computer into a clone of your distant desktop, so you can gain access to programs, files, and networks. Go-ToMyPC is a bit pricey, but its speedy, secure, hassle-free approach is unbeatable.

DEALNEWS.COM Online Bargain Tracker (free) Many sites keep track of bargains for you, but Dealnews

does more than just provide you with a link. It'll even let you know whether today's deal is better than last week's.

PALM GPS NAVIGATOR GPS (\$250) A clear interface and reliable directions make this device a great add-on to your Palm PDA. Don't leave home without it; don't get lost with it.

MIONET Remote Access (\$7 per month) Two-way remote access permits you to tunnel into your work computer from home and vice versa-or to securely share resources with others-without having to spend time worrying about firewalls.

UBUNTU Linux Distribution (free) The Breezy Badger release of Ubuntu has a desktop interface that Windows users may find reassuringly familiar. The new Dapper Drake version should be out as you read this.

MOZILLA THUNDERBIRD 1.5 E-Mail Application (free) Excellent junk-mail filtering and efficient address gathering make Thunderbird the best e-mail application for your electronic correspondence, regardless of price. Look for a beta of version 2 this summer.

CANON PIXMA MP950 Multifunction Printer (\$400) The MP950's magnificent 3.6-inch color LCD screen and whoa-Nelly resolution of 3200 by 6400 dots per inch are among the most impressive photo MFP specs available.

HALL OF SHAME

The 25 Worst Tech Products of All Time

SOME PRODUCTS ARE truly awful-born of bad ideas, victimized by comically bad implementation, or produced by companies trying to make a buck with scant regard for customers. We can laugh now, but when the products first appeared, we wanted to hunt down the responsible parties. In fact, we're still ticked; hence our list of the 25 Worst Tech Products of All Time.



AMERICA ONLINE (#1; 1989 to present) tops our list due to its infamously slow service, especially when it adopted an all-you-can-eat plan in the late 1990s.

You can also blame kludgy software, the "1000 hours free" CDs, and hardball tactics intended to discourage cancellations.

We also had problems with Real Networks' RealPlayer (#2, 1999); though we're happier with the most recent versions, its legacy of privacy intrusions and annoying pop-ups made it a clear pick. Syncronys sold hundreds of thousands of copies of its SoftRAM (#3, 1995) memory-doubling software before it was forced to admit that the product did nothing. Windows Millennium Edition (#4, 2000) was supposed to tide people over until Windows XP arrived-it did, by giving the users who had to work around its bugs something to do. And Sony's rootkitinfested CDs (#5, 2005) crashed PCs and exposed them to security risks, all in a ham-handed attempt at copy protection.

THE REST OF OUR LIST:

- 6 Disney The Lion King CD-ROM
- 7 Microsoft Bob
- Microsoft Internet Explorer 6
- 9 Pressplay and MusicNet
- 10 DBase IV
- 11 Priceline Groceries & Gas
- 12 PointCast
- 13 IBM PCjr
- 14 Gateway Anniversary PC

- 15 Iomega Zip Drive
- 16 Comet Cursor
- 17 Apple Macintosh Portable
- 18 IBM Deskstar 75GXP
- 19 000 Model 1
- 20 CueCat
- 21 Eyetop Wearable DVD Player
- 22 Apple Pippin
- 23 Free PCs
- 24 DigiScent
- 25 Sharp Actius RD3D

For the stories behind all of these products, plus a list of additional dishonorable mentions, visit find.pcworld.com/53460.



YAHOO MAIL (BETA) Web-Based E-Mail (free) This limited beta offering rates as the best Web mail client we've seen. Its Ajax-based interface convincingly imitates Outlook Express, without carrying over that program's clutter.

TIVO Digital Video Recorder (\$17 per month service and hardware) The company recently added neat new services such as weather and traffic updates, and podcasts. But we're still waiting for more capacity, faster networking, and widespread support for high definition.

AVVENU Remote File Access - (free) Use this utility to set up your desktop PC as a simple file server that friends and family can access securely over the Internet. Avvenu is great for sharing digital photographs without going to the trouble of e-mailing them.

blogging tool around, but it is free and

easy to use. It works with Google's Hello to support no-cost photo hosting and posting, and you can upload pictures from your camera phone to your Blogger blog.

SONY CYBER-SHOT DSC-R1 Advanced Digital Camera (\$900) This 10.3-megapixel camera is hardly a digital single-lens reflex model, but for many users it's as close to one as they'll ever need. And unlike most digital SLRs, the DSC-R1 has an LCD monitor that provides a live preview of your subject.

APPLE MAC MINI Value Desktop Computer (\$599 to \$799) Talk about dual personalities: This tiny, inexpensive, dual-core Apple box has the heart of an Intel machine and the soul of a Mac. It runs the Mac OS natively, and with Boot Camp it can run Windows XP, too.

APPLE IPOD Digital Audio/Video Player (\$299 to \$399) The videoenabled iPod is the only device equipped

BLOGGER Blogging Service (free) It's not the most sophisticated with a 2.5-inch screen that we would con-35

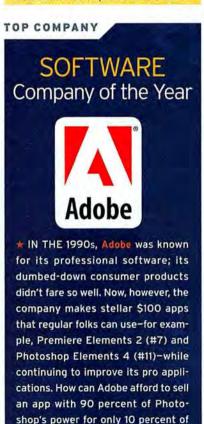
sider watching Desperate Housewives episodes on. Not that we would actually watch Desperate Housewives, of course.

LENOVO THINKPAD X60S Ultralight Notebook (\$1299 and up) Though this rock-solid 3-pound laptop doesn't carry a built-in optical drive, it has the best keyboard you'll find on an ultralight; and with the latest in Core Duo processors, it's a great performer, too.

SIDESTEP.COM Travel Site (free) Shopping for bargain flights can be a hassle. But SideStep.com collects air fares from multiple sources; you simply check off boxes to sift the results. It works for rental cars and hotel rooms, too.

WINDOWS LIVE LOCAL Online Mapping (free) Offering attractive maps, with bird's-eye views of

Online extras: find.pcworld.com/53158.



its price? Volume, volume, volume.

some locations, Microsoft's service comes across as almost a hybrid of Google Earth and Yahoo Maps (that's a good thing).

CREATIVE SOUND BLASTER X-FI Sound Card (\$129 to \$400) Creative deserves credit for introducing high-end audio-including multichannel DVD-Audio playback-to desktop PCs. The X-Fi has 7.1-channel output and dedicated RAM for storing sound samples, thus boosting game performance when heavy sound processing is needed.

ALIENWARE AURORA 7500 Power Desktop Computer (\$1799 and up) You can configure this flashy PC with the best of everything, including AMD Athlon 64 X2, nVidia SLI graphics, and the Ageia PhysX processor. You'll pay dearly for it, all right, but this gaming rig

3 APPLE ITUNES
Digital Audio Software (free) Not just a conduit for files between Apple's Music Store and an iPod, iTunes is great even if just for your desktop. It's compatible with both Macs and Windows PCs.

OLYMPUS EVOLT E-330 Digital SLR Camera (\$1100) The E-330 shows you a live preview on its LCD-a first for a digital SLR-and it has a useful dust-removal feature (addressing a common bugaboo that afflicts such cameras).

ULTIMATE EARS SUPER.FI 5 PRO Earphones (\$250) Comparable in sound quality to Shure's highend E5C earphones, this set costs far less. And it does a nice job of sound isolation.



CREATIVE ZEN VISION:M Digital Audio/Video Player (\$300) Exceptional screen quality, a responsive interface, and great battery life make this portable player a worthy alternative to an iPod, if you like to run wide of the herd.

GOOGLE DESKTOP Desktop Search (free) Where did you put that file? To find it you could spend 10 minutes using Windows' search utilityor 10 seconds using Google Desktop.

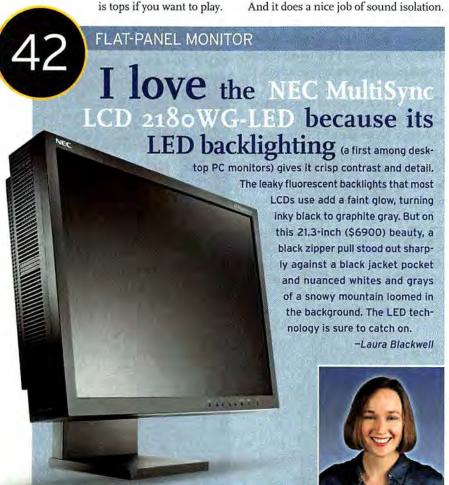
Opera deserves more exposure than it usually gets. Opera 9 is loaded with polished out-of-the-box features, such as useful ad and graphics blocking.

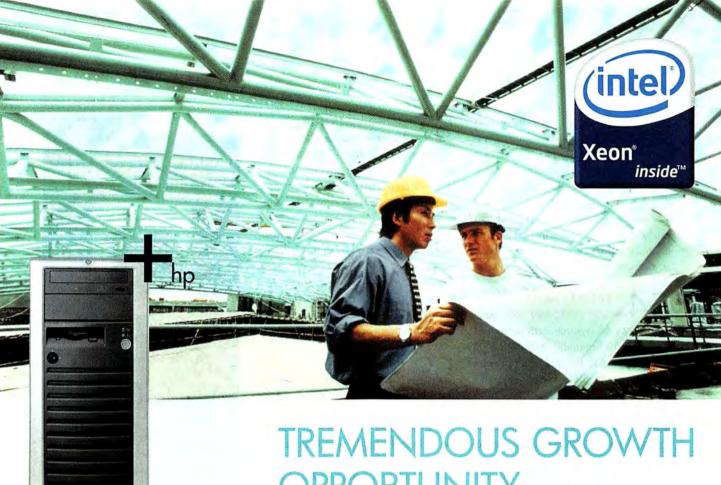
49 MITSUBISHI XD460U Projector (\$2100) The XD460U ranked high for overall image quality in our tests, making it a great choice as a crossover projector for both conference-room and living-room use. It relies on a five-segment color wheel to achieve better imaging.

VONAGE VolP Service (\$15 and up) Its Internet phone packages aren't the cheapest, but Vonage has useful features such as call-forwarding during an outage and quality controls.

STUMBLEUPON Browser Add-On (free) When you click a toolbar button in Firefox, it will transport you to a random site that fits your preferences. >

Online extras: find.pcworld.com/53158.





HP PROLIANT ML150 G2 SERVER



\$977

- · Intel® Xeon® Processor 3GHz/800MHz/2MB L2 cache
- · Dual processor capability
- · 1GB Total ECC SDRAM (expandable to 8GB)1
- · One 80GB SATA Hard Drive
- Optional Lights-Out 100 Remote Management Card delivers essential remote management functionality at a cost-effective price²
- · 1-year, next-business-day on-site support'
- New: Free Data Protector Express ProLiant Edition Software for secure backup

OPPORTUNITY.

HP ProLiant servers offer expandability to better adapt to your business needs. Whether you're just starting out or already on the way, the HP ProLiant ML150 G2 Server, featuring the Intel[®] Xeon[®] Processor, is designed to keep pace with the fluctuating demands of your business. With features that give employees simultaneous access to your network, as well as the ability to share and store files effortlessly, productivity gets priority. Plus, with expansion capabilities like room for an additional processor, extra I/O cards and memory slots, ProLiant servers are ready for whatever your business requires. Add the DAT 72 and securely back up your company's important data, affordably. Giving you more reasons than ever to consider HP.

Right now, buy the HP ProLiant ML150 G2 Server and get \$200 off.

[2] N3 E ---

SMART ADVICE > SMART TECHNOLOGY > SMART SERVICES

\$699

HP STORAGEWORKS DAT 72 USB INTERNAL TAPE DRIVE

- · Easily connects to the ML150 Internal USB port
- · No more SCSI Interface costs or complications
- · Same performance, capacity and reliability as DAT 72 SCSI
- Includes HP's exclusive One-Button Disaster Recovery for quick data recovery

Call 1-866-625-3577
Click hp.com/go/ML150mag9
Contact your local reseller



Prices shown are HP Direct prices; reseller and retail prices may vary. Prices shown are subject to change and do not include applicable state and local taxes or shipping to recipient's address. Offers cannot be combined with any other offer or discount, are good while supplies last and are available from HP Direct and participating HP resellers. All featured offers available in U.S. only. Savings based on HP published list price of configure-to-order equivalent (\$1177 - \$100 instant savings = SmartBuy price \$977). Certain warranty restrictions and exclusions may apply. For complete warranty details, call 1-800-345-1516 (U.S.). 1. For hard tin-kinds of the Care Packs may vary depending on your geographic location. Restrictions and limitants apply. For entails, visit www.hp.com/go/carepack. Intel, the Intel Logo, Xeon and Xeon Inside are trademarks of Intel Corporation or its subsidiaries in the United States and other countries. © 2000 Hewlett-Packsrd Development Company, L.P.

NOSCRIPT 1.1.4 Browser Add-On (free) Block hazardous Java-Scripts site-by-site in Firefox (the browser itself blocks either all JavaScripts or none).

WEBROOT SPY SWEEPER 4.5 Antispyware (\$30) Spy Sweeper catches more stuff than its competitors do, and it provides sound advice on which adware and spyware pieces to remove.

MICROSOFT NATURAL ERGO-NOMIC KEYBOARD 4000 Keyboard (\$60) An ergonomically optimized keyboard, the Ergonomic Keyboard 4000 swells upward in the middle so you can position your hands and wrists naturally.

WESTERN DIGITAL RAPTOR X Hard Drive (\$400) Though the Raptor X has just 150GB of storage space. it's the fastest hard drive we've tested. Its see-through window lets you watch it work (if your PC's case has a window, too).

YAHOO MAPS (BETA) Online Mapping (free) Yahoo Maps-the version still in beta-provides great directions, and allows you to determine the route you want to use by setting waypoints.

INTUIT QUICKEN PREMIER 2006 Personal Finance (\$80) Quicken has its annoyances-particularly its shameless marketing pitches-but the latest version lets you attach electronic images of canceled checks or statements.

ATI RADEON X1900 XTX Graph-O ics Board (\$600) Cards based on ATI's X1900 XTX chip and on nVidia's GeForce 7900 GTX chip (#92) compete for the fastest gaming performance. We think the ATI board delivers slightly better image quality, hence its higher ranking.

JAVACOOL EULALYZER PER-SONAL 1.1 License Analyzer (free) We're always urging you to read the end-user license agreements that pop up when you install software-but who has the time or the legal background to read and understand end-user license agreements? Just copy and paste EULAs into EULAlyzer, and it will tell you whether you're getting into something dubious.

EIZO FLEXSCAN S2410W 24-Inch Wide-Screen LCD Monitor (\$1700) This is the first 24-inch display to take color as seriously as a graphics professional does. Its flat, touch-sensitive

HARDWARE Company of the Year

TOP COMPANY



* WITH A HUGE R&D budget and a single-minded taskmaster running the show, Apple once again introduced products that made everyone else look bad, iPods (#36) that play video have created a new market for reruns. Core Duo-based Macs (#35) have expanded the market for Intel chips. and Boot Camp software (#10) has opened the door to running Windows on the Mac hardware. We continue to hope that some of the Cupertino crowd's design ideas will trickle down to the rest of the tech industry.

KOSMIX.COM Search Engine (free) Kosmix categorizes search results into major content areas of health, travel, and politics-a valuable feature, though you'll obtain fewer results from Kosmix than you would from Google or Yahoo.

T-MOBILE SDA Cellular Phone 62 (\$300) This Windows Mobilebased handset supports cellular, Wi-Fi, and Bluetooth wireless technologies (but you can't use it as a phone over Wi-Fi). Thanks to its impressive battery life, you can browse the Web with it all day long.

ASUS A8N32-SLI DELUXE Motherboard (\$200) This motherboard packs every feature you could want, including nVidia SLI graphics support, RAID support, six SATA ports, and plenty of options for overclocking.

Online extras: find.pcworld.com/53158.





MAKING FREE CALLS OVER THE INTERNET JUST GOT EASIER! IT'S AS SIMPLE AS 1-2-3!

- Load Skype software.
- Install either the USR9601 USB Internet Phone, the USR9610 USB Internet Speakerphone or the USR9620
 USB Telephone Adapter (which allows you to use your regular phone for making free Skype phone calls).
- 3. Dial and talk as long as you want anywhere in the world for free!

Find out how we do it at www.usr.com/talknow

No fees are required for making Skype to Skype phone calls. Phone/adapter must be purchased.

Free Skype to Skype phone calling requires a PC with high-speed Internet access.

Skype is a registered trademark of Skype.



MEEBO (ALPHA) Instant Messaging (free) When you're away from your own PC, you can still connect. Use this utility (still in alpha) in an Internet café to access AIM, GTalk, ICQ, Jabber, MSN, or Yahoo buddies by browser.

ing a corner and walking into a billboard.

COREL PAINTER IX.5 Graphics Software (\$375) Corel's painting program does a fine job of mimicking real paint and canvas, watercolor and paper, and charcoal and paper. Paint runs and bleeds just like the real stuff does. A recent upgrade introduces a rubber stamp and new photo painting capabilities.

67 SAMSUNG LN-S3251D LCD TV (\$1799) Among 32-inch television sets that we tested recently, the LN-S3251D won by a significant margin. It's very bright, so colors really pop from the screen, and it has a well-designed stand that swivels fluidly. It's one of the best televisions we've seen, regardless of type.

INSTANT MESSAGING CLIENT I love Actions Trillian because Video From Mile MAI to 111 12 11 it means I don't 39 PM Nar it ships at the end of the month. have to decide [05-08, 14:39 PM] FueCount: I'll let you get back to which IM client [05-08, 14:39 PM] Nar. OK, nice talking to you. A 🔼 A+ A A* B / U 🍙 🔟 😀 to adopt. Cerulean Studios Same to you. Trillian 3.1 (free) works with nearly all Last message received on 5/8/2006 at 2:3... of them. Its interface is beautiful, especially compared with AIM-hoo boy, that thing's ugly. I have Trillian set up to log my conversations, so when I forget something I said, I can look it up easily. I also like being able to set up alerts for when people are online, and to issue a command from my laptop that shuts down the program on my desktop. A new version, called Astra, should be released later this year. -Alan Stafford

RHAPSODY Online Music (free to \$10 per month) After experiencing a rocky relaunch, the new Rhapsody service looks good. Now you can access it without desktop software (though you may want to use the client, since it works as your streaming service and plays songs from your MP3 library).

IN2M MVELOPES PERSONAL 3 Online Budgeting (\$8 per month with two-year plan) When you put Mvelopes on the case, you may be surprised to learn how much you spend on Diet Coke and Doritos (you aren't under any ob-

Online extras: find.pcworld.com/53158.



Send

CAN YOU EASILY BACKUP AND RECOVER DATA FROM ANY POINT IN TIME?





TAKE A DEEPER LOOK.

SonicWALL® Continuous Data Protection (CDP) solutions let you easily and continuously backup all your data – so you can turn back the clock and instantly recover previous versions. Unlike fixed-schedule tape systems, disk-based SonicWALL CDP provides automatic, real-time local and offsite backup of all productivity files. With SonicWALL CDP, servers, laptops and PCs are protected without the hassle and unreliability of tape, and without the risk of slowing network performance. SonicWALL CDP also provides backup for most popular small business applications and with the Bare Metal Recovery service, you can easily restore operating system files, programs, databases, and settings. It's time to give your data a deeper level of protection. Go to www.sonicwall.com/clock or call 1.888.557.6642













© 2006 SonicWALL, Inc. SonicWALL and the SonicWALL logo are registered trademarks of SonicWALL, Inc.

ligation to change your habits, of course, but it's still nice to know). Recent updates make Myelopes easier to use than ever.

CANON PIXMA IP6600D Photo Printer (\$180) Who needs a photo mart when you can get prints this good at home? For best results you have to use Canon's special (and expensive) paper.

EMC RETROSPECT PROFES-2 SIONAL 7.5 Backup Software (\$100) This watch-your-back application carries two unique client apps so you can back up as many as three PCs; competing programs make you buy extra licenses.

YAHOO MUSIC ENGINE 1.1 Digital Audio Site/Software (free to \$10 per month) Subscribe to Yahoo Music Engine and you can listen to anything in the service's library. We like how it integrates with Yahoo Messenger so that you and your friends can share playlists; you can share music over a local network, too.

LOSER COMPANY

WORST

Company of the Year

SONY

* WE GET THE FEELING that Sony doesn't trust people. Many of its ills over the past year involve copy protection: First was the flasco with its music CDs, which installed rootkits on PCs to hide digital rights management spyware, thereby exposing the computers to viruses. Then came delays in the delivery of Blu-ray drives due to difficulties implementing a second copy protection scheme. And as a result of the Blu-ray problems, Sony had to push back its PlayStation 3 console to November. All this from the company that virtually pioneered copying with the Betamax.



data, edit high-def video, encode 7.1-channel audio, play with a dance-music synthesizer, and lots more.

NUANCE DRAG-ON NATURALLY-SPEAKING 8 Voice Recognition (\$175) The latest Dragon is probably the best voice-recognition software ever, though it won't make keyboards obsolete. It works best for dictating text (especially if you haven't completed your Mavis Beacon Teaches Typing lessons).

NERO 7 ULTRA EDITION

CD/DVD Burning (\$100)

seems to have been set up correctly, there's invariably a baf-

fling snag. Network Magic helps you configure your network with minimal hassle.

75 Z-WAVE Home Automation (\$130 for starter kit) Of the leading home-automation technologies, Z-Wave combines performance, reliability, and product selection most effectively.

76 BITDEFENDER 9 STANDARD Antivirus (\$30) The Best Buy winner from our most recent roundup of antivirus software, BitDefender 9 provides top-of-the-line protection against a rogues' gallery of electronic miscreants.

SAGE SOFTWARE SIMPLY **ACCOUNTING BASIC 13 Small-**Business Finance (\$50) If you're still trying to manage your business finances in Excel or Quicken, you owe it to yourself to invest \$50 in this entry-level smallbusiness accounting package instead.

FLICKR Photo-Sharing Site (free to \$25 per year) Yet another Yahoo property, Flickr wins out as the best community-based photo-sharing site. Neatest feature: You can tag photosyours or others'-with keywords and then browse pictures based on those keywords.

81 RODAK EASYSHARE GALLED Photo Printing Service (\$0.15 for each 4-by-6 print) Though its prices are among the highest of the online printers, Kodak made the best prints in our tests.

TEVDO Wireless Broadband (\$45) to \$80 per month) What's better than Wi-Fi? Wi-Fi speed without the need to be near an access point. Evolution-Data Optimized service, from Verizon Wireless or Sprint, still has some performance issues, but it's a sign of things to come.

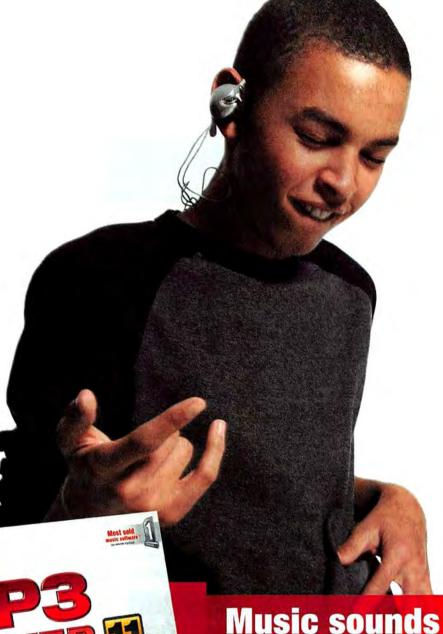
3 LACIE D2 HARD DRIVE SERIAL ATA External Hard Drive (\$400) In our tests, this 400GB drive with an External SATA-150 interface and a 7200rpm mechanism outperformed every USB 2.0 or FireWire 400 drive we evaluated.

HP MD5880N DLP TV (\$4000) A 58-inch Digital Light Projection set, the well-designed Md5880n was the highest-scoring television in our tests.

QNEXT 2 P-to-P Communications (free) Not just for instant messaging, this Java-based suite sup-

Online extras: find.pcworld.com/53158.

(MAGIX)



Click **Music sounds** function better with MAGIX

MAGIX MP3 Maker 11 deluxe is not only the most-sold music software in the world*, it's also the most intelligent: Thanks to MAGIX AudioID you can now find out the names and details of individual songs as well as complete folders in no time - no more wrong or incomplete track information.

Further enhancements: professional high-end effects, spectacular room sound even when you're on the move with MAGIX Headphone Surround. Listen to, download and burn Internet radio shows and podcasts, take advantage of optimized synchronization with mobile devices, and much more. Regardless what you listen to: it all sounds better with MAGIX.

\$29.99



MITS NH 1996

Computer Buyer, 07/2005 (UK) Computer Buyer, 07/2005 (UK)

BEST BUY

This award refers to the country-specific previous version.

(MAGIX) the multimedia community

Includes

The perfect music manager

ports IM, videoconferencing, VoIP, file sharing, music and photo sharing, and remote PC access (it won't wash your car or make you dinner, though).

SALLING CLICKER 3 Pre-Sentation Remote (\$24) Use this inexpensive utility to turn a Bluetooth-enabled mobile phone into a remote control for changing presentation slides or switching songs on a media player.

EPSON PERFECTION V700 PHOTO Scanner

(\$550) The flatbed V700 has a maximum optical resolution of 6400 dpi, a significant advance over the 4800-dpi competition.

MINDJET MINDMANAGER PRO O 6 Data-Organizing Software (\$349) For people who swear by "mind mapping"-using software to organize and manage information through flow charting-this app is the best we've seen.

MICROSOFT XBOX 360 Game Console (\$400 and up) With a pair of 3.2-GHz CPUs, half a gig of RAM, and built-in wireless, the Xbox 360 can run games in high def.

ERSON

FUJIFILM FINEPIX E900 Pointand-Shoot Digital Camera (\$410) Fujifilm's 9-megapixel point-and-shoot captured very sharp images with low distortion, earning top scores in our tests.

NVIDIA GEFORCE 7900 GTX 92 GPU (\$549) Graphics cards that use this power-hungry processor are so expensive that you'll need to sign on for a second paper route to pay for it. But the payoff is excellent gaming performance.

(free) Both an excellent way to store and categorize bookmarks and an

impressive social experiment, Del.icio.us invites you to share your favorite links with friends and larger communities.

> SERIOUS MAGIC OVATION PowerPoint Add-On (\$100) Import PowerPoint slides into this tool and add fancy video effects to make your otherwise boring sales presentations the talk of the office.

WORDPRESS Blogging Tool (free) Two practical controls make this product stand out: Photos and art are resizable on the fly inside the editing space, and dividing a blog entry into two parts is simple.

AMAZON A9 TOOLBAR Search Toolbar (free) Share bookmarks among multiple computers, and store notes about sites (if you have opened an Amazon.com account). Take that, Google.

THINKFREE OFFICE ONLINE Online Office Suite (free) Think-Free gives you Office-compatible word processing, spreadsheet, and presentation applications in a browser window.

O GREASEMONKEY Firefox O Extension (free) Now here's a mechanic you can trust. Greasemonkey allows you to add community-built scripts to the Firefox browser. Hundreds of useful scripts are downloadable for free.

NEWSGATOR FEEDDEMON 2 RSS Reader (\$30) With Feed-Demon's options, you're just a step shy of having news injected intravenously.

> SYSINTERNALS ROOTKIT REVEALER 1.7 Antispyware (free) This free

tool can't fix your rootkitinfested Sony CDs, but it can determine whether your PC has been compromised by them.

Online extras: find.pcworld.com/53158.

DIGITAL AUDIO/VIDEO PLAYER

I love the iRiver Clix, a

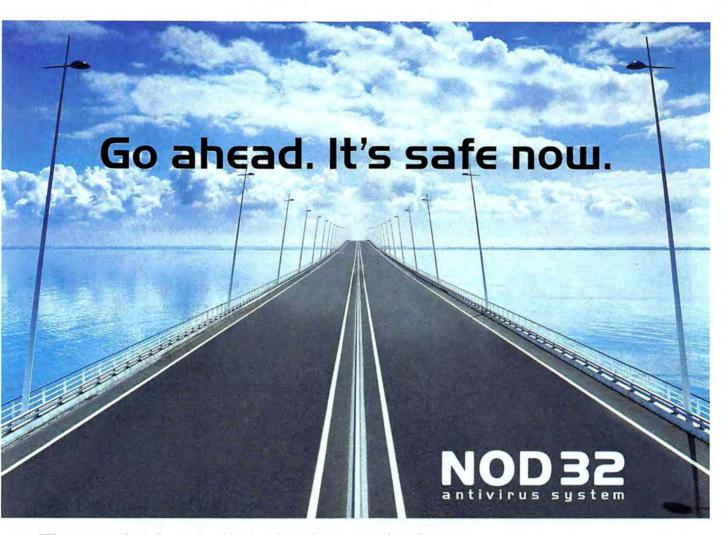
2GB successor to the 1GB U10,

because it's smaller and cuter than the video-enabled iPod despite packing a similar-size (2.2-



inch, 320-by-240pixel) display. I simply transcode files from the television shows I've recorded, for free. The Clix (\$199) has FM radio and Flash games, and it holds about 28 hours of audio files or 4.5 hours of video files.

-Danny Allen



The most advanced protection against

viruses, worms, trojans, spyware, adware, phishing and other malware - all in one product.

ESET NOD32 Antivirus offers safe passage on the road ahead by providing comprehensive, proactive protection from current and evolving threats - in real time. NOD32 is powered by a single, optimized engine utilizing our ThreatSense® technology.

ThreatSense uses advanced heuristics to protect against evolving threats without the need for additional spyware and adware solutions. And the small footprint doesn't mean you sacrifice memory, performance or detection.

ESET NOD32 Antivirus has a proven track record of best detection, fastest performance and lowest system resource utilization. And it's optimized to support 64-bit Windows XP. Get the most advanced threat protection available - switch to NOD32 today.







Level 2





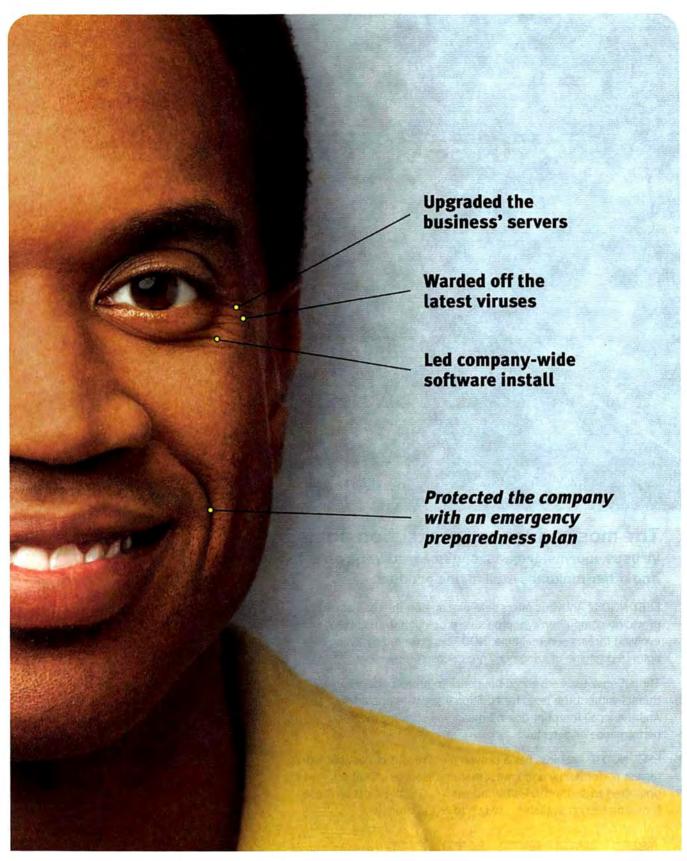
Record holder of the VB 100% Award for superior virus protection.

Take a Free 30-Day Test-Drive. Contact ESET today!

Call 866.343.ESET or visit www.eset.com/pcw0706



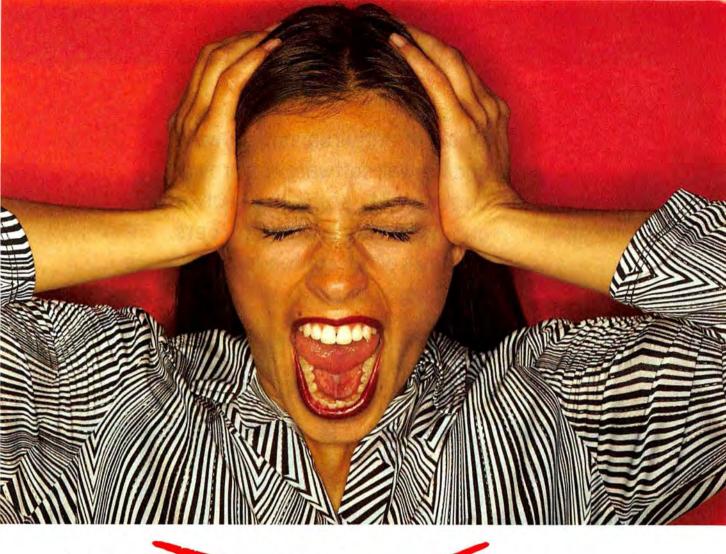
Essential Security against Evolving Threats™





With ready.gov, the IT infrastructure you've worked so hard to build can be as prepared as possible should a disaster strike. Download free, easy-to-use checklists, templates and other resources to help you develop an affordable plan. Protect your networks and data—start or update your plan today.





I CAN'T GET MY DATA OUT OF OUR CRM SYSTEM.

CUSTOMIZING OUR CRM SYSTEM IS OFF-LIMITS.

OUR CRM SYSTEM IS SO INFLEXIBLE.

SugarCRM gives you control over your CRM implementation that proprietary, closed source CRM restricts. Now you can fully manage your business critical data.

Download Sugar Open Source 4.5 today and start using the most powerful commercial open source CRM solution to manage sales, marketing, support and group collaboration.

Install SugarCRM's complete CRM solution in under 15 minutes and take back control.

Visit: www.sugarcrm.com/pcworld or call +1 408.454.6941.

Commercial Open Source Customer Relationship Management



Suites of antivirus, antispyware, and firewall software can provide convenient, solid protection against today's worst threats. Our tests of ten contenders show who's got your back.

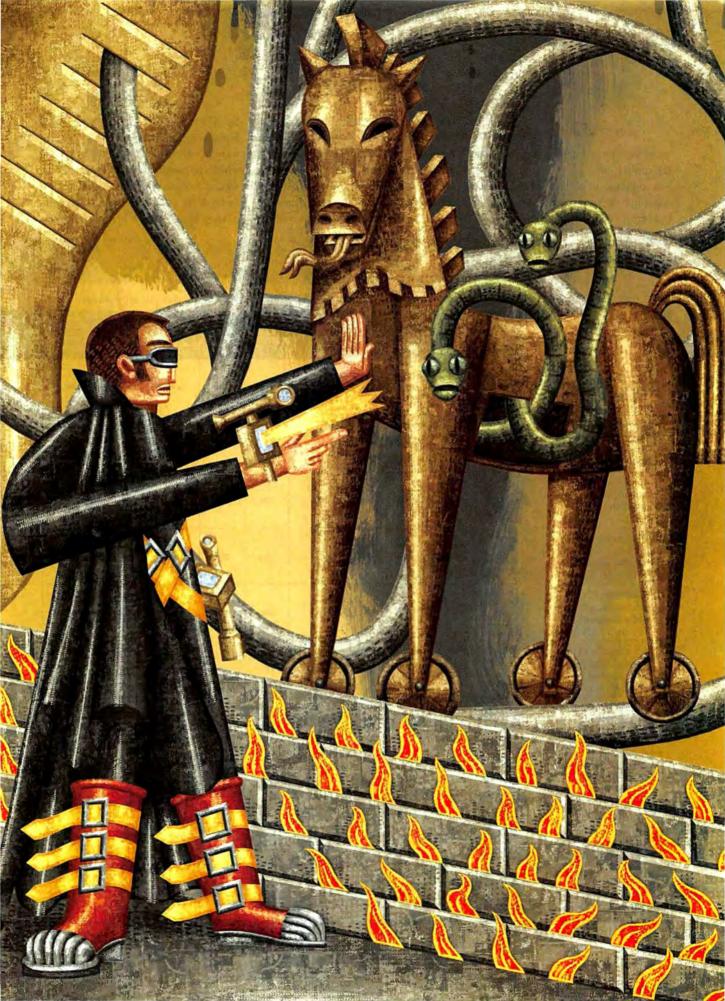
All-in-One SECURITY

BY NARASU REBBAPRAGADA

IT TAKES A multifaceted strategy to fight today's complex range of security threats, which can no longer be neatly separated into distinct categories. Worms may ride in with spam, and spyware apps may unleash Trojan horses, so your PC requires multiple kinds of security software to stay safe.

You can build your system's defenses with stand-alone antivirus, antispyware, and fire-wall products, or you can get everything in an all-in-one suite. Opting for three or more separate security apps lets you pick the best of breed in each category, but running them

can be a complicated—and expensive—task. Security suites offer convenience and affordability; their individual components, configurable from one interface, are designed to interoperate smoothly. That said, suites require a certain degree of trust in that you're depending on one company to protect your computer and data completely. Since running multiple antivirus engines and firewalls can invite major system problems, people who want a suite should buy one and stick to it. (Turn to "Ten Tips for Running Security Suites" on page 110 for more.)



SUITE CONTENDERS

TO FIND OUT if today's suites are worth the commitment, we chose ten products -a combination of new and established offerings-to run through a gauntlet of performance and usability tests (more details appear at find.pcworld.com/53488).

We looked at four factors: performance (malware detection and speed), features, design (ease of use), and price. The packages ranged from \$40 to \$80 for first-time software purchases with a year of updates; subsequently you'll have to pay a renewal

fee (\$25 to \$60 per year). In regard to performance, remember that security software is only as good as its last update, which can contain tweaks to its engine as well as new malware signatures. As for features, the products were relatively consistent, though some had useful add-ons.

TEST REPORT

TEST

TOP SUITES ARE WELL ROUNDED AND FEATURE RICH

THOUGH IT WASN'T the top performer, Symantec's suite put together the best blend of features in an easy-to-use package.

	SECURITY SUITE	PCW Rating	Performance score	ANTIVIRUS AND ANTISPYWARE DETECTION					FIREWALL		SPEED	
				WildList viruses	AV-Test threats	Unidentified malware (via heuristics)	Adware detection	Malware cleanup	Inside attacks blocked ²	Outside attacks blocked ²	Drag on system performance ³	
1	Symantec Norton Internet Security 2006 Best \$70 (\$35 renewal) find.pcworld.com/53146	84 Very Good	Very Good	100%	98%	65%	82%	54%	100%	100%	13%	
2	McAfee Internet Security Suite 2006 \$70 (\$35 renewal) find.pcworld.com/53144	83 Very Good	Superior	100%	97%	74%	96%	88%	90%	100%	6%	
3	Panda Platinum 2006 Internet Security \$80 (\$60 renewal) find.pcworld.com/53150	81 Very Good	Very Good	100%	94%	91%	77%	38%	90%	100%	14%	
4	F-Secure Internet Security 2006 \$60 (\$42 renewal) find.pcworld.com/53142	79 Good	Good	100%	99%	76%	50%	31%	80%	100%	3%	
5	Trend Micro PC-cillin Internet Security 2006 \$50 (\$25 renewal) find.pcworld.com/53152	79 Good	Good	100%	67%	67%	60%	58%	80%	50%	4%	
6	Zone Labs ZoneAlarm Internet Security Suite \$70 (\$25 renewal) find.pcworld.com/53154	77	Good	100%	35%	48%	46%	79%	100%	100%	3%	
7	Microsoft Windows Live OneCare \$50 (\$50 renewal) find.pcworld.com/53148	76 Good	Good	99%	69%	41%	64%	88%	100%	50%	196	
8	CA eTrust Internet Security Suite 2006 \$70 (\$40 renewal) find.pcworld.com/53140	75 Good	Good	100%	46%	59%	65%	88%	100%	100%	3%	
9	BitDefender 9 Internet Security \$65 (\$49 renewal) find.pcworld.com/53138	73 Good	Good	100%	96%	74%	60%	42%	60%	75%	11%	
10	Aluria Security Center \$40 (\$28 renewal) find.pcworld.com/53136	68 Fair	Fair	100%	72%	52%	89%	33%	30%	75%	160%	

FOOTNOTES: Prices as of 4/15/06. Test conducted at default settings. Percentage slowdown of WorldBench 5 Microsoft Windows Media Encoder application script caused by suite. CHART NOTE: For

To assess design, we looked at how simple the suites were to install, how easy their features were to find, and how well the software explained its options. We also evaluated malware warning alerts to determine whether the dialog boxes provided enough information to let you

Design Bottom line Symantec's suite produced top-tier malware detection and cleanup test scores, but it Good would benefit from a more streamlined interface and fewer pop-up alerts. The excellent malware detection and cleanup Fair scores of McAfee's full-featured suite make up for its terrible installation routine. Panda has superior heuristics, a top-notch Good firewall, and speedy on-demand scanning. but its interface needs better organization. F-Secure's five scanning engines-including Very Good one for rootkits-produced excellent malware detection scores but the slowest scan speed. Trend Micro's interface, speed, and features Very Good (including an antiphishing toolbar) were better than its malware detection scores. Zone Labs' feature-rich suite bundles a superior firewall with an older version of CA's **Very Good** antivirus scanner, which unfortunately did not perform well in our tests. Microsoft's new subscription-based PC tuneup and security package performed well in Good tests but isn't as full featured or as highly configurable as other suites. The least integrated security suite we tested. CA's product combines Zone Labs' excellent Good firewall with lackluster antivirus and antispyware protection. Despite strong antivirus protection, Bit-Defender has an underperforming adware Good scanner and cryptic firewall alerts. Scan speed was slow The slow Aluria suite handled adware well, but it failed to catch boot viruses, which-Good while negligible in number-should have been easy to detect.

testing details, see find.pcworld.com/53488.

make an educated decision about what to do next. Above all, we looked at performance, determined by how well each suite detected and blocked incoming threats as well as by how effectively it cleaned up malware already on a system.

We contracted with German research company AV-Test.org (find.pcworld. com/51168), which threw more than 174,000 worms, viruses, back-door programs, bots (aka zombies), spyware components, Trojan horses, and adware samples at each suite. In addition, AV-Test.org analyzed each suite's heuristics (its ability to detect as-yetunidentified malware), as well as each firewall. We

also checked how fast each could perform a full security sweep of our test system and how much running it slowed down our apps in our WorldBench 5 tests.

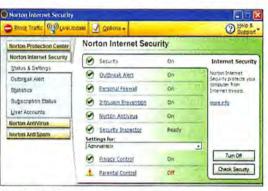
Though our testing was extensive, we didn't fully evaluate behavior-based detection. The Microsoft, Panda, and Zone Labs suites offer this technology, which can identify a new threat by the actions it takes (for example, if a program tries to make suspicious Registry changes). This feature can

offer a viable supplement to signaturebased detection, but testing it thoroughly proved too unwieldy for this review.

BEST PROTECTORS

ALL OF THE suites we tested proved good at something, but none excelled at everything. Our Best Buy, Symantec's suite, performed consistently across our tests. Highlights include a second-place ranking in detecting AV-Test.org's collection of back doors, bots, and Trojan horses, and a perfect firewall score. It provides instant-messaging protection, parental controls, and a data-privacy feature. Its interface could be more streamlined, though, and its telephone tech support charges a whopping \$30 per incident.

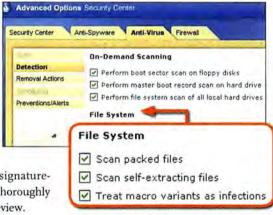
The top performer in our malware tests was McAfee's suite, which also has extra features such as instant-messaging protection and an antiphishing plug-in for



SYMANTEC'S SUITE, OUR Best Buy, performs well, Best 1 has a lot of features, and is easy to use.

> Internet Explorer. However, the suite suffers from a bad installation routine and pricey phone support (\$3 per minute).

Zone Labs' suite, which integrates an



ALURIA'S SUITE CAN scan packed files but not compressed executable programs.

older version of CA's lackluster eTrust antivirus engine, ranked seventh in our performance tests, despite its great firewall. Zone Labs plans to update its CA engine in June. Regardless, the suite still managed sixth place overall, as it's packed with features and easy to use.

The poor performance of the BitDefender suite surprised us. Slow speed, a mediocre adware scanner, and a less-

McAfee and F-Secure did the best job of finding viruses and spyware.

than-impressive firewall contributed to the suite's ninth-place overall ranking.

Newcomer Aluria's inexpensive but bare-bones suite placed last. The software can scan your whole drive, but it lacks the ability to scan a user-defined set of files and folders. It also can't look for malware embedded within packed executable files such as ASPack or UPX. (Worm authors hide malware within packed executables, and sometimes, to avoid detection by security software, they take existing malware and repackage it.) In addition, at its default settings Aluria's firewall is too permeable, and it's a resource hog.

VIRUSES, SPYWARE, AND ADWARE

MCAFEE AND F-SECURE'S packages did the best job of finding what's loosely classified as viruses and spyware, each scoring among the top three in relevant tests. Panda's package was the best in heuristics tests. The McAfee and Aluria suites surpassed the group in detecting adware.

A note: Spyware has become the catchall term for keyloggers, adware, back doors, and other Web-borne predatorsmany of which are not new and not classified as spyware by researchers. In our tests, we differentiate between spyware and adware. The really nasty spyware is

included in AV-Test.org's collection of bots, Trojan horses, and back doors; a suite's detection rate for the last of these is a good indicator of how well it works against spyware. Detection of adware-

software that can bring unwanted ads and collect data on your Web surfing habits-is a separate test.

Most of the suites were 100 percent successful at detecting the 1822 components of boot, file, macro, and script malware from the January 2006 WildList, a public list of

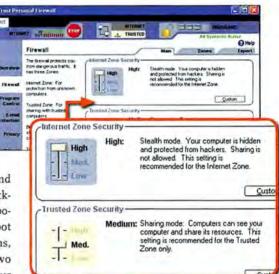
widespread viruses, worms, and bots. Surprisingly, Aluria's package missed all boot-virus components, Microsoft's failed to spot 14 components of seven worms, and Trend Micro's missed two components of one worm. In our

WildList tests, boot-virus components were statistically insignificant, which explains Aluria's 100 percent score in our chart. Nevertheless, your security software should detect all WildList threats.

On AV-Test.org's collection of 168,523 back doors, bots, and Trojan horses, results were mixed. CA's suite detected only 37 percent of back doors, 72 percent

of bots, and 39 percent of Trojan horses. Zone Labs' suite scored worse, spotting 30 percent of back doors, 49 percent of bots, and 31 percent of Trojan horses. F-Secure's suite was the strongest, catching more than 98 percent of these threats.

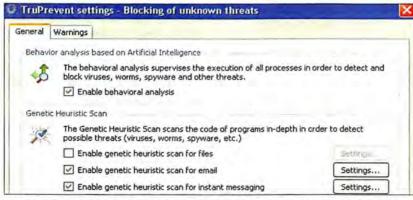
In adware tests McAfee's suite scored best, catching 96 percent of 713 actively running components. Aluria, with its background in fighting adware and spyware, ranked second with an 89 percent



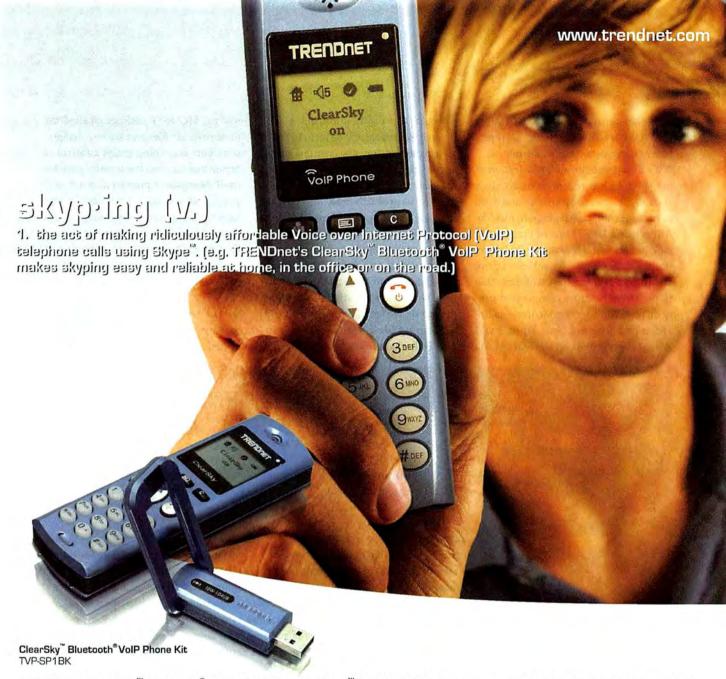
THE CA ETRUST security suite integrates Zone Labs' sophisticated firewall.

detection rate. Once again, though, the Zone Labs package performed worst, detecting only 46 percent of adware.

To assess heuristics, AV-Test.org evaluated how well the suites could proactively spot January 2006 WildList malware without the benefit of January (and newer) signature updates. Panda's suite dominated, detecting 91 percent of the files. F-Secure's was a distant second, catching 76 percent. At 41 percent, the Microsoft app's heuristics were the worst; Zone Labs' suite was second from the bottom. We should note, however, that the behaviorbased features of these suites (also present in Panda's product) might make up for their poor showing, thereby improving their overall results. For example, AV-Test.org found that Panda TruPrevent will block up to 90 percent of net-



PANDA SUPPLEMENTS ITS top-notch heuristics with behavior-based malware detection.



TRENDnet's ClearSky™ Bluetooth® VoIP Phone Kit for Skype™ (TVP-SP1BK) allows you to talk to friends, family or co-workers around the world at a fraction of the cost of traditional phone service. The included Skype™ software allows you to make FREE PC to PC calls to other Skype™ users and allows you to dial out (SkypeOut™) and receive (SkypeIn™) calls from regular telephones and mobile phones. Best of all, with the long-range Bluetooth® adapter you can talk and roam anywhere you feel comfortable in your home or office without being chained to your computer.

Bluetooth* Handset supports popular Skype functions such as Contacts, History, Skype In, Skype Out, Conference Call, etc.

High Power USB Class 1 Bluetooth® Adapter supports Enhanced Data Rate (EDR) technology for long range communication up to 100 meters (328ft.).

Compliant with MSN Messenger, Yahoo Messenger and more

Supports up to 60+ hours of standby and 6+ hours talk time

Handset includes Rechargeable Lithium-ion Battery

Includes Skype Software

2-Year Warranty

For Pre-Sales advice, please call 1-888-326-6061.













work and e-mail worms and that Zone Labs' OSFirewall will stop up to 70 percent of network and e-mail worms.

We also tested the suites' detection of malware within compressed archives such as .zip, .rar, and .cab files, and within runtime compressed program files like ASPack and UPX. Most of them could look in files that were compressed once. multiple times, or as a self-extracting archive, but they were less uniformly able to penetrate runtime compressed program files. The F-Secure, McAfee, and Bit-Defender suites did best; Aluria's and Zone Labs' brought up the rear. Aluria

says that the ability to unpack a compressed executable will be included in its suite's next version, due later this year as a free upgrade for current users. Zone Labs says that it is working with CA to improve its product's detection of packed malware and that its OSFirewall detects and blocks both known and unknown malware as soon as the packed file opens.

In a perfect world, security software would detect and block all threats at first sight. In reality, bad stuff slips through the cracks. We tested the packages' ability to clean up files, Registry entries, and Hosts-file changes made by ten WildList

worms. McAfee's package cleaned the most malware files and system changes, scrubbing everything except a variant of Mytob that targeted the security software itself. Microsoft's product also did well, purging all worms and remnants except Registry changes made by Netsky.BA and Mytob.AR. F-Secure's suite proved better at finding malware than at removing it, cleaning only five of the ten worm files.

FIREWALLS THAT FIGHT

WHILE THE LINE between antivirus and antispyware protection has blurred recently, software firewalls are still dis-



AOL'S DE FACTO SUITE

a combination of homegrown tools and off-the-shelf apps, some

of which are included in the suites we tested for this story.

FOR EXAMPLE, AOL'S Safety and Security Center bundles the company's own spam-protection, parental-control, pop-upblocking, and antiphishing tools together with the firewall, antivirus, and antispyware components of McAfee's suite.

AOL's package, a 28MB download, consists of numerous different applications, but to users the bundle should appear as a single, seamless program, according to Andrew Weinstein, a company spokesperson. "We made the Internet easy; now we want to make security easy, too," he says.

One of the ways AOL tries to make life easier for its customers is by blocking many Internet threats at its servers, before they ever reach users' computers. Weinstein says that each day the company blocks about 8 million phishing attempts and nearly 1.5 million pieces of spam from reaching its customers.

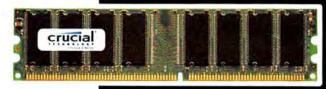
EARTHLINK FIGHTS SPYWARE

EARTHLINK TOOK ITS efforts to create an all-in-one security package so seriously that it purchased the antispyware software company Aluria in 2005. Now EarthLink's Protection Control Center-a 16MB download free to dial-up and broadband customers and available to non-EarthLink customers for a \$5 monthly fee-includes apps created by both companies, as well as antivirus and firewall features from partner Authentium.

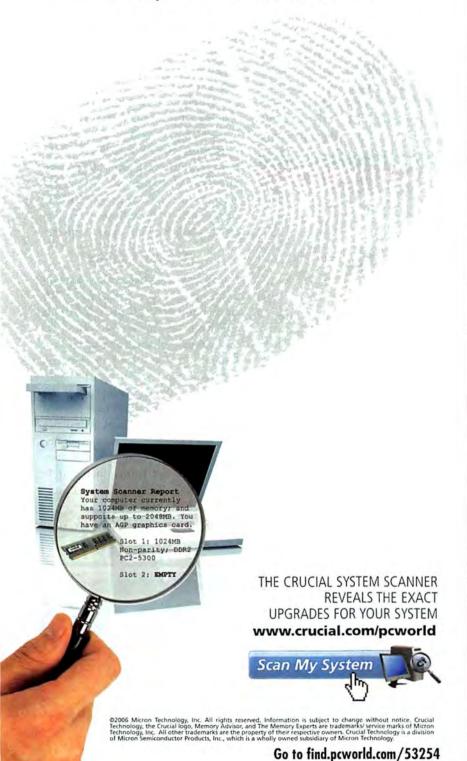
One of the reasons EarthLink chose Aluria as a partner early on was that its technology is very adaptable, says Ben Kaplan, EarthLink's product manager of security applications. "We could apply their technologies to our own and control how it looks." The result is a simple, consolidated interface that EarthLink users understand, he says. The company estimates that about 1.4 million people currently use the software.

PeoplePC, an EarthLink subsidiary that provides budget dial-up Internet access, recently launched its own Aluria-based Internet Security Pack. The software is similar to the Earth-Link suite but sports its own look. The company's Security Plus members can download the program for free, and standard members can purchase the product for \$2 per month.

So why are ISPs going to all the trouble and expense of offering these comprehensive security services? It's simple-they want to keep their customers happy. As Kaplan puts it, "We're heavily invested in protecting our consumers and bringing great value to their staying with EarthLink." -Tom Mainelli



MEMORY MYSTERY SOLVED, CASE CLOSED.



Finding a memory upgrade for your computer doesn't have to involve a lot of detective work. With just one click, the Crucial System Scanner takes the mystery out of finding the right RAM.

You know that you're ready for better performance by upgrading your system memory, but you're not sure WHICH memory is right for your computer. You might not even know your computer's manufacturer and model, much less anything about the mind-boggling mix of memory shapes, sizes, speeds, and capacities.

So how are you supposed to know which upgrade to buy? Don't spend hours tracking down the right memory — let the Crucial System Scanner take the guesswork out of upgrading! In just one click, our System Scanner tool analyzes your PC's configuration, then automatically recommends the exact upgrades for your system.

CLUELESS ABOUT MEMORY UPGRADES?

Just click the Scan My System button at Crucial.com, then sit back and get your report on the upgrade that's right for you!

- Limited lifetime warranty
- Free technical support
- Free shipping on qualified orders
 For a limited time, on orders of \$40 or more
 shipped within the contiguous U.S.



The Memory Experts™

McAfee and Panda packed in the most security extras.

tinct animals, monitoring inbound and outbound network traffic and flagging suspicious behavior. The firewalls of the ten suites we tried all let you set some sort of general security level, whitelist and blacklist individual applications, and enable specific ports and network protocols.

Great firewalls can differentiate between good and bad traffic, alert you to serious trouble, and provide enough detail about

detected activity for you to make an educated decision about whether to allow it. Subpar firewalls pipe up so frequently with undecipherable information that you may end up blocking traffic you need-or worse. turning the firewall off.

We tested the suites' firewalls for their ability at default settings to block attacks from outside sources, as well as from malware

apps already on the PC. The CA, Microsoft, Symantec, and Zone Labs products each scored 100 percent in our insideattack tests: Malware was unable to deactivate the firewall in memory, delete it from the hard drive, or steal the rights of legitimate programs (some malware, for example, will be dressed up to look like Internet Explorer and will try to grab all the rights that you have granted IE). And back-door applications placed on our test computers both before and after we installed each of these four suites weren't able to access the Internet.

At its default settings Aluria's firewall failed all of our inside-attack tests, but at its high setting it passed both the stolenapplication-rights test and the back-door test. Aluria says that the suite's default security level, which leaves open network ports 80 and 443, is purposely set to minimize the number of initial firewall alerts a user will receive. "We want our customers to be able to configure the product the way they want to," says Jack Dunston, product manager for Aluria Software.

We also tested the firewalls to see whether they could spot malware attempting to smuggle data out of the PC. Zone Labs' firewall was again 100 percent successful, passing all 17 leak tests, with Microsoft's in second place, passing 7



THE WEB SITE Filter acts as Trend Micro's parental controls.

tests. The other products earned very low scores, and Panda's passed none of the leak tests. Keep in mind that AV-Test.org runs standardized leak-test utilities available to security vendors. Zone Labs, for one, builds its products to pass all leak tests; Panda, on the other hand, says that it doesn't optimize its software for

leak tests, instead relying on its Tru-

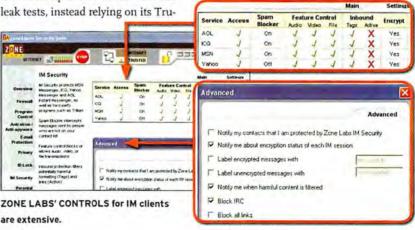
Prevent behavior-based technology to decide whether a piece of code is malicious.

In our tests to evaluate the products' response to outside attacks, the packages from CA, F-Secure, McAfee, Panda, Symantec, and Zone Labs received scores of 100 percent. These suites blocked all standard and stealth port scans. They halted Internet traffic trying to enter the PC through ports opened for SMB-based file sharing, which suggests that they can differentiate between good and bad traffic on your home network. They also did not reveal data about our test PCs' operating systems. Once again, however, Aluria's firewall failed two of the four tests at default settings, though it would have scored 100 percent at its high setting. Both Trend Micro's and BitDefender's firewalls did not block open SMB shares-and neither did the Microsoft firewall, which also rendered the OS guessable to port sniffers.

EXTRAS, EXTRAS

ALL OF THE suites have antispam protection; beyond that, they offer slightly different feature sets. The McAfee and Panda products packed in the most security extras, while the Microsoft one had the least (although OneCare does include backup software and disk tune-up tools).

Except for the Aluria and Microsoft products, all of the suites have parental controls where you can block undesirable Web site categories such as sex, drugs, and gambling. Trend Micro's suite offers equivalent URL filtering, though it



BUILDING THE NEW PC EXPERIENCE

IT'S ABOUT PERFORMANCE, VALUE, AND SUPPORT

You deserve a better PC experience. At least that's what Velocity Micro thinks. That's why we build all our systems by hand with the best components available. It's why we spend days tweaking and tuning your system for optimal performance.

And it's why we offer you the best tech support in the industry – 24/7, US based expert support. And that's why we keep winning awards. Get the PC experience you deserve with Velocity Micro.

GAMERS' EDGE™ DUALX™

- » AMD® Athlon™ 64 X2 3800+ Processor
- >> 2x512MB Mushkin™ DDR400 PC3200 memory
- >> 256MB eVGA™ NVIDIA® GeForce™ 7900 GT Video
- >> 200GB Western Digital™ 7200rpm Hard Drive

\$1795



FIND OUR ULTIMATE GAMING MACHINES AT BEST BUY STORES AND BESTBUY.COM





OBSESSED WITH BUILDING THE PERFECT COMPUTER EXPERIENCE





Call 800-303-7866



VISIT BEST BUY STORES

BUY DIRECT FROM VELOCITY MICRO >> GAMING • DIGITAL MEDIA • HOME OFFICE

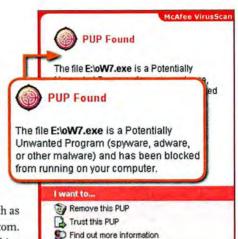


doesn't call the feature parental controls. While CA's suite doesn't provide its own parental controls, it does include a separate CD that offers the service through BlueCoat's K9 Web Protection. Zone Labs' package supplies Smart Filtering Dynamic Real-Time Rating for categorizing Web sites that aren't currently on a user- or software-defined whitelist or blacklist. The BitDefender, McAfee, and F-Secure suites go the extra mile, permitting parents to specify times when their kids can and can't surf the Web.

The CA, McAfee, Symantec, Panda, Trend Micro, and Zone Labs suites offer privacy controls that prevent sensitive data, such as credit card information, from leaving your PC-however, the suites' high-privacy settings are aggressive. For example, the maximum privacy setting in Symantec's suite invoked a high-risk cookie alert every time a site dropped a cookie onto our test system, even

when it was from a reputable site such as the New York Times' site or PCWorld.com. At the suite's default settings, cookies like these are not considered high risk.

Other cool features: The McAfee, Panda, Symantec, and Zone Labs suites



MCAFEE DOESN'T DIFFERENTIATE between adware and spyware, calling either one a PUP.

Continue what I was doing

MAINTENANCE

10 Tips for **RUNNING SECURITY SUITES**



ATTEMPTING TO install and run a full-featured security suite can be a complex and daunting proposition, especially if the task involves replacing one vendor's product with another company's pack-

age. We asked several security companies to contribute advice on properly installing and maintaining security software.

- 1 Trash your old security software: You should run just one antivirus engine at a time. Completely uninstall one antivirus product and reboot your PC before installing another one. Also, turn Windows' firewall off when using another company's firewall; some products will offer to turn it off for you.
- 2 Check your hard drive's health: It's wise to run Windows' Chkdsk utility several times before installation to rule out or repair problems with your system's hard drive. Go to Start, Run and type chkdsk in the dialog box. Click OK.
- 3 Freshen up Windows: Run Windows Update to make sure that your system is completely up-to-date before you install security software, which you should also be certain to update.
- 4 Make an ID card: In case you need to call tech support, make a record of the install date, the serial number, and the support phone number of your security suite. You will need this information, and some tech support calls are charged by the minute.
- 5 Run an extra antispyware app, if you wish: You can run a

separate antispyware utility alongside your security suite, but you should be careful to coordinate the two products' schedules to ensure that you have only one application's scanner and update engine running at a time.

- 6 Stay networked: PCs connected to a network, particularly via VPN, may have custom network settings. If after installing a security suite your system hangs during the reboot, disconnect from the network. When you've rebooted successfully, reconnect to the network and let the security suite configure your firewall's settings. (Most products have a wizard to do this.)
- 7 Handle printing and file sharing: Your firewall should have predefined profiles that enable you to conduct file and print sharing; if it doesn't, you will have to create manual rules in your firewall that permit outbound TCP traffic to port 1023 and inbound traffic to port 139.
- 8 Document your woes: If a product gives you any indication of a problem-such as an error message or a malware warningwrite down the exact wording of the entire message. Even better, take a screen shot of the information.
- 9 Send away your bad stuff: If you encounter suspicious files or e-mail messages, don't open and investigate them yourself. Send them to your security provider, making sure to follow the proper procedure. Most vendors have adopted an automated method for users to submit suspicious files.
- 10 Keep your subscription current: We can't overemphasize this point. Security products are only as effective as their latest update, and updates are typically not provided after your annual subscription expires. Once your year of coverage is up, don't forget to renew or replace your security software.

-Narasu Rebbapragada



Turn Lifeless PowerPoint Slides into an

Amazing Visual Experience

Ovation™ automatically turns lifeless PowerPoint® slides into an amazing, world-class presentation and then helps you deliver that presentation more effectively.

Breathtaking Visuals

At the click of a button, Ovation transforms boring slides into dynamic presentations so professional they look like they cost thousands of dollars to produce. These high-voltage visuals include better-looking text, smooth motion, subtle lighting effects and eye-catching animated backgrounds. Ovation takes presentations so far beyond plain PowerPoint, you can't appreciate the impact until you see it yourself.

FREE DOWNLOAD
30-day trial at www.pcovation.com

New Tools for Better Delivery

Ovation also helps you deliver your material more effectively with a suite of innovative tools. The scrolling teleprompter helps you stay confident and on point while reminding you of key facts, figures and dates. The TimeKeeper™ keeps you on time during your presentation, and the powerful Go Deeper feature leaves you ready to respond to audience questions with expanded information.

With Ovation, your audience will be impressed – and other presenters will be dying to know your secret!



\$9995_{MSRP}

44 Ovation makes me look great!
I can't imagine giving another
presentation without it. 33

David D.
 Educator















scan several instant-messaging clients for infected attachments. (Microsoft's scans only MSN Messenger.) The Panda, Trend Micro, and Zone Labs packages warn you when interlopers are mooching off your Wi-Fi connection. (McAfee's \$80 Wireless Home Network Security Suite also offers protection for your Wi-Fi network.)

While some extra features are handy, others only bulk up a suite's interface. A prime example is Symantec's Norton

Protection Center, an additional window that monitors the functions of the suite's components. Adding another icon to your already crowded system tray, it pops up regularly to tell you the status of your security

protection. It also presents marketing for other, related products; the Data Recovery portion will show a status of "no coverage" until you buy and install Symantec's \$50 SystemWorks utility suite.

INSTALLATION AND USABILITY

SUITES ARE SIMPLE to use when they install cleanly, organize your configuration op-

tions well, run quickly, and alert you clearly to potential malware. Microsoft's and Trend Micro's suites fit those criteria the best, but for different reasons. Microsoft's product is easy to configure because there just isn't a lot to configure—a setup that many PC users might find limiting. On the other hand, Trend Micro's suite does an excellent job of cramming a multitude of options into a well-structured and aesthetically pleasing interface.

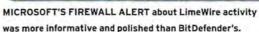
All the suites installed properly, and all configured our test PC's network settings correctly. (Right now, Microsoft's Windows Defender antispyware app is a separate software install.) Our few gripes were with McAfee's suite: Its painful installation required five restarts and the creation of a user name and password. A

subsequent dialog box makes you opt out of receiving newsletters about virus threats, McAfee promotions, and McAfee partner promotions. Also, initially we couldn't download software updates via Firefox; we had to use Internet Explorer and temporarily allow pop-up windows.

CA's suite was the worst integrated, depositing four icons in our system tray. Plus, the main interface doesn't link to Blue Coat's parental controls.

BitDefender Firewall Alert

BitDefender Firewall Alert



Symantec's suite seemed to talk the most, regularly popping up software status alerts and cookie warnings. Some people may want this level of explanation; those who don't may prefer F-Secure's suite, which has a lot of deep settings but little instruction about managing them.

Speed also differentiated the products. Panda's suite performed the fastest ondemand virus scan, taking 6 minutes, 39 seconds to speed through 14.7GB worth of files and folders on our test PC. Trend Micro's was second-fastest with a scan time of 7 minutes, 37 seconds. F-Secure's was the slowest, completing the scan at a glacial pace of 28 minutes, 46 seconds.

F-Secure says that its real-time protection and its five scan engines—two for viruses and one each for spyware, rootkits, and heuristics—slow down scan speed.

We measured the suites' drag on system resources by installing them with default settings and then running World-Bench 5. Microsoft's product imposed the lightest load, increasing the execution time of each of our nine WorldBench 5 application tests by 4 percent or less. (An

increase of 15 percent would be noticeable.) The Aluria suite was the hungriest re-

> source hog, more than doubling the execution time of our ACDSee PowerPack and Microsoft Windows Media Encoder tests. BitDe-

fender's package also bogged down our system, causing a 25 percent time increase in our Microsoft Office 2002 test and a 69 percent time increase in the Mozilla test.

As for malware alerts, Microsoft's firewall warnings

gave complete program and path information for apps trying to access the Internet. BitDefender's package had clearer virus alerts than firewall warnings. The McAfee suite refused to classify a threat

as adware or spyware, instead using the vague term PUP—potentially unwanted program—to describe both. For a closer look at the alerts, see each suite's online review at find.pcworld.com/53488.

Overall, even the highest-rated suites, from Symantec and McAfee, weren't the best at all tasks, so power users may still want to mix and match best-of-breed security components. Many other people, though, will find it hard to beat the convenience of one-stop security shopping.

Senior Associate Editor Narasu Rebbapragada covers security topics for PC World; Tom Mainelli is a senior editor.



Ferrari 4000 ECHNOLOGY

acer

June/July**2006**



The philosophy of Acer, as Ferrari, is to drive the technology of tomorrow. Both produce desirable, eye-catching and devastatingly fast products that embody the passion, spirit and years of experience leading the competition. The magnificent carbon fiber casing of the Ferrari 4000 conceals the very latest 64Bit technology, full wireless connectivity and widescreen monitor. Powerful, dark and purposeful, the has the presence of a true champion.

- AMD Turion™ 64 Mobile Technology ML-40
 - AMD PowerNow!™ Technology
 - HyperTransport™ Technology
 - Enhanced Virus Protection Technology'
- Genuine Windows® XP Professional x64 Edition
- 1GB DDR333 SDRAM
- 120GB² hard drive
- Integrated Super-Multi drive (DVD+R, DVD-R, DVD-RAM)

- 5-in-1 card reader for optional MultiMediaCard", Secure Digital card, Memory Stick®, Memory Stick PRO™ or xD-Picture Card™
- 15.4" WSXGA+ (1680 x 1050) TFT display
- ATI® MOBILITY™ RADEON® X700 graphics. **128MB DDR**
- 802.11b/g WLAN, Bluetooth®, gigabit LAN, V.92 modem
- One-year limited warranty³

Ferrari 4006WLMi

S/LX FR40M 027

terrari OFFICIAL LICENSED PRODUCT

Produced under license of Ferrari Spa. FERRARI, the PRANCING HORSE device, all associated logos and distinctive designs are trademarks of Ferrari Spa.

acer

Acer F-20"

- 20" wide-screen TFT LCD, Acer CrystalBrite Technology
- 1680 x 1050 native resolution
- 800:1 contrast ratio
- 176° horizontal viewing angle
- 176° vertical viewing angle
- Two 5.0W integrated speakers
- VGA, DVI-D signal connectors
- 300 cd/m2 brightness
- 8ms gray-to-gray response time
- External power adapter
- Gloss black/red color



terrari OFFICIAL LICENSED PRODUCT

Produced under license of Ferrari Spa. FERRARI, the PRANCING HORSE device, all associated logos and distinctive designs are trademarks of Ferrari Spa.

Acer® Flat Panels: Displaying Quality & Value





Acer AL2416Wd

- 24" wide-screen TFT LCD
- 1920 x 1200 native resolution
- 1000:1 contrast ratio
- 178° horizontal viewing angle
- 178° vertical viewing angle
- VGA, DVI-D signal connectors
- 500 cd/m² brightness
- · 6ms gray-to-gray response time
- Internal power adapter
- Silver color

Acer AL2416Wd \$759 (ET.L6102.018)



Acer® TravelMate[™] 4400 Powerful Business Asset

AMD Turion 64
MOBILE TECHNOLOGY

The Acer TravelMate 4400 features everything you need to perform at your best in today's business environment, including advanced graphics capabilities, wide-screen display and wireless connectivity. Moreover, because this notebook is powered by AMD Turion™ 64 Mobile Technology, you'll experience leading-edge 32-bit performance and seamless 32- to 64-bit migration. For added convenience get the ezDock Docking Station, your one-step connection to desktop peripherals.

- AMD Turion™ 64 Mobile Technology ML-34
 - AMD PowerNow!™ Technology
 - HyperTransport™ Technology
 - Enhanced Virus Protection Technology¹
- Genuine Windows® XP Professional
- 1GB DDR333 SDRAM
- 120GB2 hard drive
- Integrated Super-Multi drive (DVD+R, DVD-R, DVD-RAM)
- 6-in-1 card reader for optional SmartMedia™ card, MultiMediaCard™, Secure Digital card, Memory Stick®, Memory Stick PRO™ or xD Picture Card™
- 15.4" WXGA (1280 x 800) TFT display
- ATI® MOBILITY™ RADEON® X700 graphics, 64MB DDR
- 802.11b/g WLAN, gigabit LAN, V.92 modem
- · One-year limited warranty3



Acer TravelMate 4404WLMi

\$1,199

AMD Turion 64 Mobile Technology ML-34 Genuine Windows XP Professional (LX.T7806.091) 15.4" WIDE-SCREEN

Prices shown are estimated street prices and do not include tax or shipping. Retailer or reseller prices may vary.

Acer® ezDock

Manage and organize peripheral connections with ease. Add or remove devices instantly, without turning off your notebook. The one-plug **Acer ezDock** features 21 interface ports and two card slots for desktop-like expansion possibilities, as well as PCI Express™ technology and a Kensington® lock slot.



Acer ezDock Docking Station

\$299

(LC.D0103.004)

Compatible with the TravelMate 8200, 8100, 4670, 4650, 4400, 3010, 3000, C310, C200; Ferrari 4000





Compare LCD Prices/Features & You'll Choose Acer®



Acer AL2051 W \$409 (ET.L7008.006)

Acer AL2051 W

- 20" wide-screen TFT LCD. Acer CrystalBrite Technology
- 1680 x 1050 native resolution
- 800:1 contrast ratio
- 176° horizontal viewing angle
- · 176° vertical viewing angle
- Two 1.5W integrated speakers
- VGA, DVI-D signal connectors
- 300 cd/m² brightness
- 8ms gray-to-gray response time
- External power adapter
- Silver/black color

20" WIDE-SCREEN



Acer AL1951C \$299

(ET.L4108.068)

Acer AL1951C

- 19" TFT LCD
- 1280 x 1024 native resolution
- 700:1 contrast ratio
- 150° horizontal viewing angle
- · 135° vertical viewing angle
- Two 1.5W integrated speakers
- VGA, DVI-D signal connectors
- 400 cd/m² brightness
- · 4ms response time
- · External power adapter
- Silver/black color



Acer AL1916W

- 19" wide-screen TFT LCD
- 1440 x 900 native resolution
- 500:1 contrast ratio
- 150° horizontal viewing angle
- 130° vertical viewing angle
- VGA signal connector
- 300 cd/m² brightness
- 8ms response time
- Internal power adapter
- Black color

\$20 PRICE CUT!



Acer AL1916 Ab

- 19" TFT LCD
- 1280 x 1024 native resolution
- 700:1 contrast ratio
- 140° horizontal viewing angle
- · 140° vertical viewing angle
- VGA signal connector
- · 300 cd/m² brightness
- 8ms response time
- Internal power adapter
- Black color



Acer AL1717 Bbmd

- 17" TFT LCD
- 1280 x 1024 native resolution
- 700:1 contrast ratio
- 150° horizontal viewing angle
- · 135° vertical viewing angle
- Two 1.0W integrated speakers
- VGA, DVI-D signal connectors
- 300 cd/m² brightness
- 8ms response time
- · Black color

\$24 PRICE CUT!



(ET.1916B.008)

acer

\$20 PRICE CUT!



\$205

(ET.1717B.MD8)

Acer AL1916W

\$229

(ET.L5209.005)

- · Internal power adapter

Acer AL1716 Bb (ET.1716B.00B)

Acer AL1716 Bb

- 17" TFT LCD
- 1280 x 1024 native resolution
- 700:1 contrast ratio
- 150° horizontal viewing angle
- · 135° vertical viewing angle
- VGA signal connector
- 300 cd/m² brightness
- · 8ms response time
- Internal power adapter
- · Black color

\$40 PRICE CUT!

Acer® Aspire™ T135 Exceptional Desktop Value



Value takes on a whole new meaning with the Acer Aspire T135 minitower desktop. That's because it provides savvy consumers with a complete desktop solution, packed with performance, expandability and functionality. Whether managing personal finances, surfing the net, playing games or working on school projects, your entire family will reap the benefits—including the fun—of owning this versatile performer engineered around the solid dependability of an AMD Sempron™ Processor.



- AMD Sempron™ 3100+ Processor
 - AMD PowerNow!™ Technology
 - HyperTransport™ Technology
 - Enhanced Virus Protection'
- · Genuine Windows® XP Home Edition
- 512MB DDR SDRAM
- 160GB2 SATA hard drive
- DVD-Dual drive (DVD+/-RW)
- 9-in-1 card reader for optional MultiMediaCard™, Secure Digital card, SmartMedia™ card, Memory Stick®, Memory Stick PRO™, CompactFlash® I/II card, Microdrive® or xD-Picture Card™
- Integrated UniChrome™ Pro graphics
- 10/100 LAN, V.92 modem
- One-year limited warranty³





Acer Aspire T135-U-S3104

\$399

AMD Sempron™ 3100+ Processor Genuine Windows® XP Home Edition

Prices shown are estimated street prices and do not include tax or shipping. Retailer or reseller prices may vary.



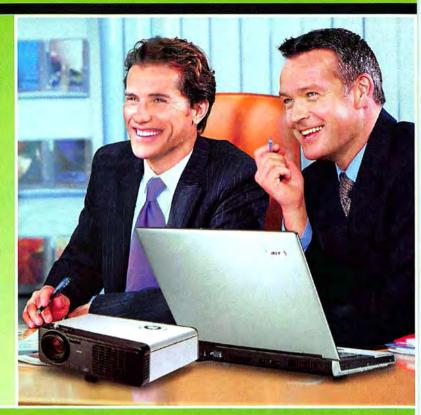


Acer® Projectors with DLP™ Technology

Digital Light Processing™ from Texas Instruments is an all-digital display technology for projectors and other products that delivers the best picture in terms of clarity, brilliance and color.







- 2000 ANSI lumens
- XGA (1024 x 768) native resolution
- 2000:1 contrast ratio
- 16.7 million displayable colors
- · PC and Mac compatible

Acer PD120D

(EY.J2201.012)

PD120D





- 2000 ANSI lumens
- SVGA (800 x 600) native resolution
- . 2000:1 contrast ratio
- 16.7 million displayable colors
- · PC and Mac compatible

Acer PD100

(EY.J2101.006)

PD100





Projector Accessories

Acer projectors come with these accessories: remote control (batteries included) with laser pointer; carrying case; lens cap; CD-ROM user's guide; quick-start instructions; AC power cord; VGA (D-sub) to component/HDTV adapter; VGA (15-pin D-sub), composite video (RCA), S-video, USB and audio (mini-to-mini phone jack) cables.

For permanent placement of a projector in a conference room or classroom, you'll want an easy-to-install Ceiling Mount. Also, consider keeping a Replacement Lamp on hand for your Acer projector.

Replacement Lamp

- Expected life in hours: 2,000 standard mode, 3,000 economy mode
- Designed for Acer PD120D and PD100

Ceiling Mount

- Designed for Acer PD525, PD120D, PD116P and PD100

Acer[®] Aspire[™] 5000 Power for Productivity

AMD Turion 64
MOBILE TECHNOLOGY

For your home or for your office the full-featured Acer Aspire 5000 notebook provides the must-have computing features, including a versatile DVD-Dual drive (DVD+/-RW) and wireless connectivity. You can also expect desktop-caliber performance from this multimedia powerhouse thanks to AMD Turion™ 64 Mobile Technology.

- AMD Turion™ 64 Mobile Technology
 - AMD PowerNow!™ Technology
 - HyperTransport™ Technology
 - Enhanced Virus Protection Technology'
- Genuine Windows® XP Professional
- 512MB DDR333 SDRAM
- · 80GB2 hard drive
- Integrated DVD-Dual drive (DVD+/-RW)
- 15.4" WXGA (1280 x 800) TFT display, Acer CrystalBrite Technology
- SiSM760GX chipset with integrated Mirage™ 2 graphics
- 802.11b/g WLAN, 10/100 LAN, V.92 modem
- One-year limited warranty³





Made for mobility with AMD64 performance





\$849

AMD Turion 4 Mobile Technology ML-32 Genuine Windows XP Professional (LX.A5106.020)

Acer Notebook Service Upgrades Protect Your Valuable Investment

Quality is built into every notebook Acer makes, and each comes with a one-year standard limited warranty. It includes hardware technical support via toll-free phone plus a concurrent International Traveler's Warranty for travel outside the U.S. and Canada. Extra protection is available with one of these upgrades:

2-Year Extension of Limited Warranty (146.AB820.EX2)

\$99

Prepays freight to and from Acer repair depot. Excludes extension of International Traveler's Warranty. It's a tough world out there, and accidents do happen—sticky spills, dangerous drops, nasty knocks—which is why you should consider the Total Protection Upgrade. It runs concurrently with the limited warranty' and limited warranty extension and covers the cost of a replacement unit if your covered notebook cannot be repaired.

2-Year Extension of Limited Warranty + 3-Year Total Protection Upgrade (146.AD077.002)

\$199

Prepays freight to and from Acer repair depot. Excludes extension of International Traveler's Warranty.

Prices shown are estimated street prices and do not include tax or shipping. Retailer or reseller prices may vary.





Acer® Aspire™ 3000 Entertainment Starts Here



The Acer Aspire 3000 Series of notebooks is based on the latest Mobile AMD Sempron™ processors with AMD PowerNow!™ Technology and designed for home users and professionals from small businesses in search of excellent mobile performance and high entertainment value. These slim, space-saving systems come with multimedia capabilities and full industry-standard connectivity. Energize your work and leisure time with the Acer Aspire 3000.



- Mobile AMD Sempron™ Processor 3300+
 - AMD PowerNow!™ Technology
 - HyperTransport™ Technology
 - Enhanced Virus Protection Technology'
- Genuine Windows® XP Professional
- 512MB DDR333 SDRAM
- 80GB2 hard drive
- Integrated CD-RW/DVD-ROM combo drive
- 15.4" WXGA (1280 x 800) TFT display, Acer CrystalBrite Technology
- SiSM760GX chipset with integrated Mirage™2 graphics
- 802.11b/g WLAN, 10/100 LAN, V.92 modem
- · One-year limited warranty3



Acer Aspire 3005WLCI

\$749

Mobile AMD Sempron™ Processor 3300+ Genuine Windows® XP Professional (IX.A5506.028)



Prices shown are estimated street prices and do not include tax or shipping. Retailer or reseller prices may vary.

© 2006 Acer America Corporation. Information and prices are subject to change without notice. Pricing is effective from June 1, 2006 through July 15, 2006. Product images are representations of some of the models available and may vary from the model you purchase. Acer, the Acer logo and TravelMate are registered trademarks of Acer Inc. Aspire is a trademark of Acer America Corporation. Microsoft and Windows are either registered trademarks of Microsoft Corporation in the United States and/or other countries. AMD, the AMD Arrow logo, AMD Athlon, AMD Athlon Logo, AMD PowerNow!, AMD Sempron, AMD Sempron Logo, HyperTransport, and combinations thereof, are trademarks of Advanced Micro Devices, Inc. The DLP logo and DLP medallion are trademarks of Texas Instruments.



Enhanced Virus Protection (EVP) is enabled by Microsoft® Windows® XP Service Pack 2. By default, EVP will protect the user's Windows operating system only. Users must enable the protection of their applications and associated files to be protected from memory buffer overrun attacks. AMD and Microsoft strongly recommend that users use third-party anti-virus software as part of their security strategy.

² When referring to storage capacity, GB stands for one billion bytes and MB stands for one million bytes. Some utilities may indicate varying storage capacities. Total user-accessible capacity may vary depending on operating environments.

For a free copy of the standard limited warranty end-users should see a reseller where Acer products are sold or write to Acer America Corporation, Warranty Department, P.O. Box 6137, Temple, TX 76503.

These 17 free and low-cost services make it easier than ever to back up and share your files online.

STORE ON THE >>>



ALL YOUR IMPORTANT files-text documents, spreadsheets, music and videos, you name it-may start out sitting safe and snug on your PC's hard drive. But what if the drive goes belly up, or runs out of room? And what if you'd like an easy way to share those files with coworkers or friends? Web-based storage services let you back up your data, store your files on a Web server, or share them quickly and simply with anyone, often at no cost. Of the 17 services we tried, our favorite backup service is IBackup, while the GoDaddy Online File Folder is our pick of the storage sites. And for sharing files, we like the free 4shared.com service.

JON L. JACOBI, ERIK LARKIN, AND STEVE BASS

Back Up to the Web



OFFSITE BACKUPS ARE the safest way to protect data. These six services-IBackup, XDrive, First-

Backup, Acpana's Data Deposit Box, ElephantDrive, and Mozy-are free or offer no-cost trials. However, you must provide credit card information to access the trial versions, so be sure to cancel if you drop them. Most of the services cancel automatically at the end of the trial, but XDrive rolls over to the pay plan without asking for your permission first.

Though IBackup is the best all-around backup service I tested, the beta version of Mozy has much to recommend it, despite some rough edges, so it's a service to keep an eye on. Of course, not the least of its virtues is that it's free.

IBACKUP

BOTH IBACKUP AND XDrive cost the same, and the features of the two services are almost identical: multimedia streaming, browser-based file management, and file sharing. However, unlike XDrive, IBackup doesn't require that your friends open an IBackup account to view the files you want to share with them.

The service's client software isn't as easy to use as the XDrive Desktop client. IBackup, though, didn't misfire during backups as XDrive did in my tests. IBackup's IDrive feature, like XDrive Desktop, maps your IBackup files to a network drive, which lets you drag and drop files between the two.

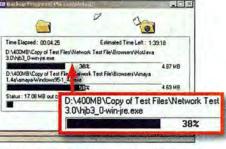
XDRIVE

THIS SERVICE SUPPORTS file sharing and streaming of media files to cell phones. You can manage your files via the XDrive Desktop client, or in a browser via the service's Web interface. Unfortunately, despite its features, the XDrive Desktop client stumbled too many times: I encountered C++ runtime errors and several failed backups. None of the other client programs I tried even hiccupped.

FIRSTBACKUP

THE CLIENT SOFTWARE it uses is well designed, but FirstBackup can't back up automatically when the PC is idle.

FirstBackup provides just one simple pricing plan: \$4 per month (three months minimum) for up to 50MB, \$8 per month for up to 300MB, \$12 per month for up to 1GB, and \$2.75 for each additional gigabyte. Those costs are affordable as long as you're backing up only limited amounts of data, but by the time you reach 5GB, the charges come to a total of \$23 per month, more than twice what you would pay for the same amount of storage on either IBackup or XDrive.



KEEP A CLOSE eye on the progress of your backup in the IBackup client software.

ONLINE BACKUP

Keep Your Data at a Safe Distance

THESE SERVICES ENSURE that your important files are secure on their Web servers no matter what calamity may befall the PC situated in your home or office.

I	SERVICE	PCW Rating	Pricing	Free trial	Browser- based access	Map as network drive			
1	IBackup www.ibackup.com	78 Good	\$10 per month or \$100 per year for up to 56B; \$50 per month or \$500 per year for 50GB; Enhanced and Workgroup plans also available	15 days	Yes	Yes			
	Not quite as friendly as XDrive, but has the same low price and features as well as a more reliable backup client.								
2	XDrive www.xdrive.com	77 Good	\$10 per month or \$100 per year for up to 56B; \$300 per year for 50GB	15 days	Yes	Yes			
	AmberWave	service gets. I	The state of the s	SULT Wale C	an be buggy				
3	Communications FirstBackup www.firstbackup.com	77	\$4 per month (3-month minimum) or \$39 per year for up to 50MB; \$12 per month or \$110 per year for IGB; additional gigabytes cost \$2.75 per month or \$25 per year	15 days	No	No			
	Superclean client and reliable, secure service. A good choice for businesses that want to avoid Web security hassles.								
4	Acpana Data Deposit Box www.datadepositbox. com	76 Good	\$0.01 per megabyte to IGB; \$3 per gigabyte per month above IGB	30 days	Yes	No			
	A penny per MB is great	for small amour	nts of storage. Client backs up during PC idle ti	me. Excelle	nt Web inter	tace.			
BETA, NOT RATED	ElephantDrive www.elephantdrive.com	n/a	Free (500MB)	n/a	No	Not in			
	► Promising beta with free storage, but it isn't ready for prime time. Currently requires Microsoft's .Net Framework.								
	Mozy www.mozy.com	n/a	Free for up to 2GB; \$20 per year for 5GB	n/a	Beta offers restore	No			

CHART NOTES: Pricing and ratings are as of 5/10/06; n/a = not applicable.



YOU GET A clear view of your backed-up files in XDrive's Explorer-like browser-based management application.

ACPANA DATA DEPOSIT BOX

THIS IS ONE of the priciest of the backup services I tested, although its penny-permegabyte-per-month plan has no minimum charge: Store nothing, pay nothing, or store only a few megabytes and pay only a few pennies per month-a boon for anyone who backs up only relatively small amounts of data.

Data Deposit Box features a desktop client software that is both reliable and easy to use. Unfortunately, the service lacks a "do backup now" option. You do get several nice bonus features with the service, including the ability to share folders by e-mail, and a file-management interface that's clean and practical.

ELEPHANTDRIVE

CURRENTLY IN BETA, this site offers 500MB of free Web storage. Its pay plan costs more than Mozy's, but at \$10 per month or \$100 per year for up to 10GB of storage, its pergigabyte rate is half that of either IBackup or XDrive. Without a fast upstream

connection, however, it could take days to upload gigabytes of data to this service.

ElephantDrive supplies client software only for Windows. ElephantDrive says it will switch from Microsoft's .Net Framework to the open Java platform to add support for Mac and Linux users.

In my tests, file transfers were stable and reliable, but the ElephantDrive client did drop some connections. Nevertheless, any service whose marketing uses elephant puns bears watching.

MOZY

MOZY'S CLIENT SOFTWARE for uploading and restoring files was in beta when I tested it, but the service performed well,

even though it lacks any visual feedback while a backup restore is in progress (this should be fixed by launch time).

Mozy's for-pay service is downright cheap compared with the other backup services I looked at: it costs \$20 to store up to 5GB, \$30 for 10GB, and \$40 for 20GB-per annum. You can perform only five free restore operations per month, but that should be more than enough for most users. - Jon L. Jacobi

SAFETY TIP

ONLINE PERILS

A WORD OF CAUTION to anyone using online storage: Servers crash, and companies go out of business, both without warning. Never trust an online storage service with the only copy of your vital data. Also, while all of these services take measures to lock down your data, the privacy and security of your files is ultimately up to you. Be sure to encrypt all files holding personal data, and plan for the day your online files disappear.

Find Ample Storage Online



ANYONE WHO OWNS a digital camera or an MP3 music collection knows it doesn't take very long at all

to fill up a hard drive. If you have a broadband Internet connection, you could save some of the cost of a new hard drive by using one of the many services offering free or dirt-cheap online storage.

My favorite for music and video playback is Streamload, while Online File Folder is the choice for integrating online storage with day-to-day work.

ONLINE FILE FOLDER

GODADDY'S ONLINE STORAGE Service is decidedly businesslike. Its clean, Explorer-style Web interface makes file management a breeze. But you don't even have to fire up your browser if you map the service as a network place in Windows, which then permits you to transfer files and folders by dragging and dropping them from within Explorer.

This is the only one of the storagefocused services I looked at that lets you zip and encrypt your files and folders via the Web interface. Oddly enough, there's no search feature, although you can use Windows' search function to find files on the mapped network place.

A small downloadable program allows you to sync an online folder with a folder on your desktop, so updating one automatically updates the other.

You have no free option, and you must

pay by the year rather than monthly. Still, \$10 a year per gigabyte (up to 10GB) isn't bad, considering all the extras you get.

STREAMLOAD MEDIAMAX

HOW DOES UP to 25GB of free storage space sound? The gratis storage alone makes Mediamax worth a look.

As befitting the name, Mediamax emphasizes storing your music, video, and photos. When you upload files, the



STREAM AUDIO AND video files for free, but Streamload limits downloads and sharing.

service automatically sorts them under such tabs as "Photoshare" and "Music Locker." With Streamload's easy streaming options, the service acts as a readyaccess library for all your media files. You just select a few songs or whole folders, choose Play, and listen via your favorite media player.

Unfortunately, you can quickly use up the free service's monthly 500MB download maximum. The limit leaps to 25GB (and a whopping 250GB of storage) for the cheapest paid plan (\$15 a month).

Streamload Mediamax is a new service, and it has rough edges aplenty. The fileupload features are clunky, particularly if you upload many files at once, since you can't choose the destination folder. And while a new Web interface affords good options for organizing your music, it sometimes balks

with strange errors. A stand-alone software program is expected to arrive soon.

BOX.NET

YOU GET 1GB of free space and a clean, lean Web 2.0 interface with this service. File management, including the ability to



BOX.NET OFFERS A clean Web 2.0 interface for managing files, but storing more than 1GB will cost you.

tag your files and folders, is also simple.

Yet Box.net offers little in the way of extras. A stand-alone program that will synchronize with your desktop folders is still in the works. And while you can stream music, you can play just one song at a time, and only through Box.net's own little desktop player applet.

The free version has some limits: You can't upload files larger than 10MB, and you can download only one file at a time. The paid options-\$5 a month for 5GB, and \$10 a month for 15GB-do away with these limits and offer both mobile access and support for additional users.

SIMDESK

THIS SERVICE PROVIDES a number of nice features, especially for business collaboration. For example, you can map the service as a network drive, and you can sync online files with those in a desktop folder. It also lets you send online files to a shared printer via its browser-based interface. You can even get to that interface using a Web-enabled mobile device.

However, the Simdesk Web interface is inelegant, and file navigation is slow: To move a file, you have to use the program's buttons to cut and paste it rather than simply dragging and dropping it.

Simdesk's pricing isn't so hot, either: It costs \$3.50 a month for up to 1GB of storage and \$6.50 per month for 2GB, which doesn't compare to GoDaddy's low-cost offerings. In addition, Simdesk imposes a 5GB-per-month transfer limit.

FLIPDRIVE

COMPARED WITH THE other online storage services I looked at, FlipDrive feels spartan. The site's free service offers only 25MB of storage, so it's a teaser. The Flip-Drive Web interface is utilitarian, and

ONLINE STORAGE

Extend Your Hard Disk to the Web

IF YOUR HARD drive is running low on free space, you can avoid a costly storage upgrade by stowing your files with one of these online storage services.

	SERVICE	PCW Rating	Pricing	Free trial	Browser- based access	Map as network drive			
	GoDaddy Online File Folder find.pcworld.com/53132	83 Very Good	\$5 per year for up to 50MB; \$10 per year for IGB; \$20 per year for 2GB n storage is 10GB. Many excellent features	No	Yes	Network place, but not a drive letter			
	Streamload Streamload	ce, but maximum	Free for up to 25GB (limited downloads,	, a great bi	ly if you nee	d little space			
2	Mediamax mediamax.streamload. com	81 Good	sharing, and maximum file size); \$15 per month or \$120 per year for 250GB; \$40 per month or \$360 per year for ITB	n/a	Yes	No			
	► Lots of storage and exc	ellent media str	eaming; downloads, sharing, and maximum	file size a	re limited in	the free pla			
3	Box.net www.box.net	80 Very Good	Free for up to 1GB; \$5 per month or \$50 per year for 5GB; \$10 per month or \$100 per year for 15GB	n/a	Yes	No			
	A nice interface makes the service fast and simple to use; lacks such extras as client software and network mapping.								
4	Simdesk simdesk.com	78 Good	\$3.50 per month for up to 168; \$3 for each additional gigabyte to 10GB	30 days	Yes	Yes			
×	► Has printer sharing and	mobile access,	but it uses a clunky Web interface and offe	ers less sto	Yes orage than ri Yes interface is	rals do.			
5	FlipDrive flipdrive.com	76 Good	Free for up to 25MB; \$5 per month or \$50 per year for up to 5GB; \$10 per month or \$100 per year for 15GB; \$20 per month or \$199 per year for 30GB	30 days	Yes	No			
	Offers simple file downloads and lets you make photo albums, but has no other extras; Web interface is lackluster.								
6	Online Storage Solutions find.pcworld. com/53578	70	\$5 per month for up to 10GB; other plans range from \$10 per month for 20GB to \$35 per month for 100GB	None	Yes, but limited	Yes			

CHART NOTES: Pricing and ratings are as of 5/10/06; n/a = not applicable.

there's no client program to use instead.

The service's Web download feature stands out: Choose several folders and files, and FlipDrive automatically zips them to speed your downloads and preserve file names and directory structures. Still, dragging and dropping files to and from a mapped drive is probably faster.

You can make as many sharable photo albums as you like and order prints of pictures in the album from FlipDrive. However, you can't download full-size, full-resolution images. FlipDrive costs about the same as Box.net—\$5 a month for 5GB, \$10 a month for 15GB—but its top level costs \$20 a month for 30GB.



FLIPDRIVE'S ZIPPED-UP DOWNLOADS are great, but its features are otherwise lacking compared with other services.

ONLINE STORAGE SOLUTIONS

THIS SERVICE SLAPS a bare-bones interface around a large File Transport Protocol account. It lacks such features as online file management, media streaming, file synchronizing, and other extras. However, as with any FTP account, you can use Novell's free Netdrive utility to map a network drive.

The upside: You get more space for your money: up to 10GB for only \$5 per month, and up to 100GB for \$35 per month. For FTP users

looking for a lot of storage space with few restrictions, and who don't require such niceties as a functional Web interface, Online Storage Solutions might be a good storage choice. Otherwise, another storage service in this roundup will serve you much better.

—Erik Larkin

Share the Web Way



SURE, YOU CAN attach umpteen files to an e-mail and blast it to three or four dozen of your nearest and

dearest, but, oh, the hassle—adding each address, selecting and attaching the files one by one, and then choking the pipes of your ISP and those of each recipient. A better way is to post the files on the Web and send everybody a single URL so they can retrieve and open the files on their own, at their convenience. For me, the icing on the Web-sharing cake is that many of the services are completely free of charge (and we all love a bargain).

Of the five sharing services I looked at, my favorites are YouSendIt for its simplicity, and 4shared.com for its winning interface. Now let me share with you my opinion of these Web-sharing sites.

4SHARED.COM

THIS FREE SERVICE provides 500MB of storage and lets you upload an unlimited number of files (though no single file can exceed 25MB in size). All of the folders you place on 4shared.com's servers are permission-based, so you can easily make some folders available to anybody while restricting access to others. You can also password-protect your folders, which adds another layer of security. Visitors

access the folders through an e-mail link.

In less than 10 minutes, I created a dozen folders and subfolders, each with specific rights. You can track how many files are downloaded, but unfortunately you can't find out who did the downloading. One quibble with the free account: You have to upload and download the files one at a time. You get more storage, multiple file transfers, and the ability to store files larger than 25MB for fees ranging from \$48 to \$84 per year.

GROOVE VIRTUAL OFFICE

ACQUIRED LAST YEAR by Microsoft, this collaboration service-and WebEx Web-Office Workgroup (see below)-differ from the other sharing sites I tested in their business-ready robustness, which makes them ideal for sharing data with work associates. However, Groove is also great for sharing with friends and family. The service provides you with a private, shared workspace and offers all the critical collaborative functions; file sharing, instant communications, and shared calendars. You can use Groove's desktop application to collaborate on projects and documents by storing and sharing files in various folders; edit and sync Word documents and other text files; view Power-Point presentations; and enter meeting

and other dates on a shared calendar.

Besides sending e-mail within Groove, you can also conduct real-time, online meetings using the service's built-in instant messaging tool. If you have a microphone connected to your PC, you can use Groove's cool audio-chatting feature. The service even lets you do multiple tasks simultaneously—say, participate in an online meeting while uploading



WITH 4SHARED.COM, CONTROLLING access to shared files and folders is a breeze.

files and collaborating on a document.

The 60-day trial version has document review and other features disabled; you can continue using the app after 60 days (the service is free for personal use), but the meetings tool and other functions won't work, and the connection speed is a poky 56 kbps, which makes the free version impractical for most PC users.

WEBEX WEBOFFICE WORKGROUP

WEBEX'S COLLABORATION TOOL, which it acquired along with Intranets.com last year, provides a variety of ways to share files. You can allow authorized users to access, download, and modify the folders you create. Unlike Groove, however, WebOffice doesn't let people work together on the online files. The basic plan limits storage to 250MB combined for up to five users. You can allow non-WebOffice users to view and download files.

The WebOffice calendar features a group scheduling capability similar to the scheduler in Microsoft Outlook. You can attach documents and agendas, manage projects, and sync calendars and other data with your Palm (but not Windows

COLLABORATION

Mobile or BlackBerry) PDA.

Unlike Groove, in WebOffice all of your group's activity is done through a browser. WebOffice costs \$60 a month for up to five users and \$100 a month for ten users. WebEx Meetings costs an extra \$50 per user per month. The fully-functional, 30-day trial includes WebEx Meetings.

RAPIDSHARE

THIS SIMPLE, NO-FRILLS, free site lets you upload as

many files as you want, each as large as 100MB, and send the download link to any number of recipients. The files can be downloaded an unlimited number of

Guys, This is that 89MB video I promised to send. It's me and Judy in a Zodiac cruising through some of the bays in and yousendit around Homer in Alaska Recipient email address(es) Dennis@poworld.com, Robe Send a File and files up to 100 MI (select contacts) Folders This is that 69MS video I promised to send. It's me and Aidy in a Zodiac crusing through some of the bays in and around Homer in Alaska. ts you provide a lect file to send (up to 100 MB) 3 Send it fly clicking on the 'Send it' button, you agree to YouSendit's Ten

SHARE FILES AS large as 100MB for free-and up to 1GB per file for a small fee-with the YouSendIt service.

times, and they remain on the server as long as they're downloaded at least once every 30 days. To avoid the annoying 23second wait before you can download a file, sign up for a premium account that costs 10 euros-about \$12 per month.

YOUSENDIT

THIS FREE SERVICE lets you upload files to its Web servers for temporary storage. You can include a personal note along with the upload; YouSendIt then sends an e-mail to the person you're sharing with that explains how to pick up the file. You're notified when the file is sent and when it's picked up. The recipient's name is automatically added to your YouSendIt Contacts, too. While you can send your file to several people at once, the "Send To" field won't hold more than 128 characters; the service says it imposed this limit to prevent spammers from using it.

The free version limits the file size to 100MB. The files you upload are stored for seven days or for a total of 25 downloads per file. That is probably more downloads than most people will need (it's plenty for me). But \$5 per month raises the size limit to 1GB, the per-file storage period to 14 days, and the downloads to 100. -Steve Bass ■

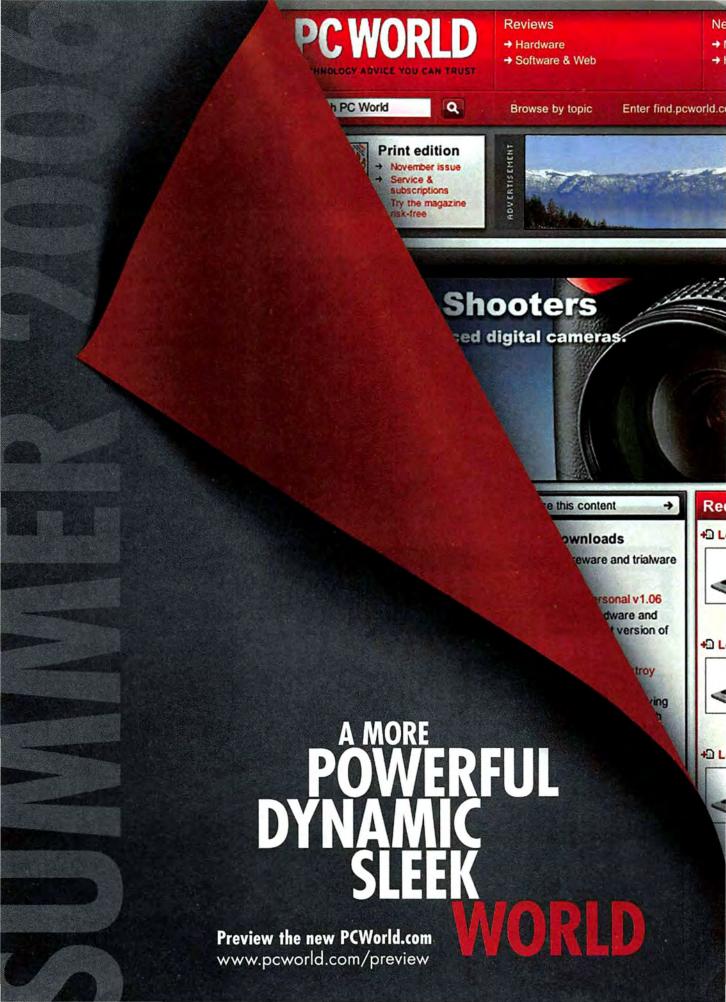
Jon L. Jacobi is a contributing editor, and Erik Larkin is an associate editor for PC World, Contributing Editor Steve Bass writes the Bass Blog and is the author of PC Annovances, published by O'Reilly.

The Best Sites for Sharing

RATHER THAN WRESTLE with e-mail attachments, let these services distribute your digital images, documents, and other files to family, friends, and coworkers.

	SERVICE	ICE PCW Rating Pricing		Free trial	Browser- based access	Map as network drive				
1	4shared.com 4shared.com Superior		Free for up to 500MB (25MB maximum file); \$5 per month or \$48 per year for IGB (100MB maximum file); \$6 per month or \$60 per year for IGB (no file-size limit)	n/a	Yes					
	► Has an easy-to-use into	Has an easy-to-use interface; provides multiple permission-based folders, but you can't upload multiple files at once.								
2	Groove Virtual Office www.groove.net	90 Superior	\$69 for the file-sharing edition; \$174 for the professional edition	60 days	No	No				
	Real-time file sharing; collaboration on Word docs, and more. Works only with PC-based app (no browser access).									
3	WebEx WebOffice Workgroup find.pcworld.com/53580	84 Very Good	\$60 per month for up to five users and 250MB; \$100 per month for ten users and 400MB (additional users are \$20 per month each)	30 days	Yes	Yes				
	Ideal for large files; has a simple interface and Contacts list for storing recipient e-mail, but storage is time-limited.									
4	RapidShare www.rapidshare.de/	77 Very Good	Free for unlimited storage (file size limit of 100MB)	n/a	Yes	Yes				
	Feature-rich Web-based storage for files, contacts, calendar, tasks, and databases, but no real-time interaction.									
BETA, NOT RATED	YouSendIt beta.yousendit.com	n/a	Free for up to 100MB (25 downloads, stored 7 days); \$5 per month for 1GB (100 down- loads, stored 14 days); \$30 per month for 2GB (200 downloads, stored 14 days)	n/a	Yes	Yes				

CHART NOTES: Pricing and ratings are as of 5/10/06; n/a = not applicable.



EDITED BY ERIC DAHL AND DENNIS O'REILLY



STEP BY STEP

SCOTT MUELLER

To Get Just the PC You Want, Build It Yourself

"DOLLAR FOR DOLLAR you'll get more power and features in a PC assembled by a big company than in one you build yourself." That's the conventional wisdom. But new standards and improved component integration that packs more functions into fewer parts now allow you to build a modern system for the same cost as a similarly equipped retail PC.

Follow these steps to assemble an upto-date machine whose system components should total only about \$800, plus

something like \$400 for a flat-panel LCD, amplified speakers, and Windows XP (all other software is either bundled with hardware or available for free). See our invoice on page 130 for the details.

To keep things simple, we bought all of our items except the OpenOffice application suite (which is a free download) from a single supplier, NewEgg.com. Limiting the number of sources for your components may reduce your shipping costs and save you time.

- 1. Get ready: To protect the components from damage, keep them in their antistatic packaging until you're ready to put them in place. Wear an antistatic wrist strap clipped to a bare metal spot on the chassis, or touch the chassis frequently to equalize your charge relative to it. Handle the motherboard, processor, memory modules, and other sensitive parts by their edges only, and don't touch any socket or connector pins. Finally, make sure the system is unplugged until you're ready to start it for the first time.
- 2. Prepare the chassis: Take the cover off the chassis and remove any instructions, assembly hardware, or loose cables inside the case. If the chassis has a removable motherboard tray, take it out. Remove the I/O shield from the connector area by pressing inward on the shield until it pops into the case (see FIGURE 1). Locate the I/O shield that came with the motherboard and snap it into the connector area in the chassis from the inside out.
- 3. Add the motherboard: As you place the board into the chassis, align the rear-



FIGURE 1: REMOVE the motherboard tray and I/O shield prior to installing components.

STEP BY STEP 128

You can build a PC with the components you want for about the same price as an off-the-shelf model.

132 WINDOWS TIPS

Use the Run As option to open suspicious programs safely; stay secure with the Cryptainer LE freebie.

INTERNET TIPS

Uncover information about any Web address; create shortcuts to specific sites; clean out your Google cookie.

136 ANSWER LINE

Keep important data safe by storing it on a separate partition; automate e-mail text entry with boilerplates.

the holes, and in-

stall the screws to

tighten the board.

4. Place the pro-

cessor: If you are

using an Intel pro-

cessor, install it in

the LGA (land grid

array) socket on

the motherboard

(see FIGURE 2).

Conventional CPU

GPS TIPS

Add waypoints to your GPS device to pinpoint any location; get maps and route info for GPS-less cell phones and PDAs.







FIGURE 2: PLACE the processor in the motherboard's LGA socket and secure it by lowering the load lever over the top of the CPU.

facing connectors with the holes in the I/O shield. If your case uses a motherboard tray, install the processor and memory onto the motherboard first (see below), and then slide the board and tray securely into the chassis.

With the tray removed from the case, set the motherboard atop the mushroomshaped standoffs at a slight angle from the front of the board to the back, and then press down until the standoffs protrude through the holes in the board. If your chassis uses conventional screws to hold the motherboard, you may have to move or install brass standoffs to match the pattern of holes in your motherboard. Once that's done, set the board down over the standoffs until they line up with



FIGURE 3: LINE up the four heat-sink fasteners with holes in the motherboard and press down.

designs put the pins on the processor, but LGA has them in the socket instead. In either case, don't touch the pins or contacts: They are very delicate and prone to physical and electrostatic damage.

LGA775 sockets, such as the one on our motherboard, use a lever to clamp a load plate over the top of the CPU. Disengage the lever from the latch, raise the plate, and remove its plastic cover.

Remove the plastic cover from the processor to expose the contacts on the bottom. Hold the processor by the edges and locate the pin-1 indicator and orientation notches on its sides. Line up the notches in the chip with the orientation keys in the socket. Close the load plate over the top of the processor, and clamp it down.

5. Keep it cool: To attach the heat sink to the motherboard, align the four fasteners with the holes in the motherboard and press each fastener down until it clicks (see FIGURE 3). AMD heat sinks have four clips that click into place before you lock their levers. Make sure the fasteners are fully seated and the heat sink's base is flush against the motherboard.

Connect the CPU fan to the proper head on the motherboard. LGA775 processors use a new four-wire fan

connector with an extra signal that allows the motherboard to control the fan speed. Plug this connector from the heat sink into the four-wire "CPU FAN" connector on the motherboard; normally this connector is next to the processor socket.

6. Don't forget the memory: Our system uses two 512MB modules for a total of 1GB of RAM. To operate in dual-channel mode on our motherboard, we installed this pair of modules in the blue sockets.

To install DDR2 modules, open the locking tabs to the side and then insert the module into the socket so that the notch aligns with the tab. Press the module firmly straight into the socket until the tabs lock the module into place.

7. Insert the add-in cards: Next, install your video card and any other add-in boards by removing the slot cover, inserting the card firmly in the appropriate slot, and securing it using either the screw from the slot cover or the appropriate card retention mechanism in your case.



FIGURE 4: SLIDE the hard drive into one of the 3.5-inch bays until it clicks into place.

8. Park the drives: Pull the locking levers on each side of one of the lower 3.5-inch bays forward (away from the chassis). Slide the drive into the bay with the connectors facing back (see FIGURE 4). With the drive in place, press the locking



FIGURE 5: CONNECT the LEDs on the front of the case to their motherboard switches.



FIGURE 6: ATTACH the Serial ATA cable from the motherboard to the hard drive.

levers inward. Don't install the cables yet. With some cases, you use four screws to secure the drive. Accessing these screws in the tight quarters of a case is a major cause of scraped knuckles, which explains manufacturers' shift to levers.

PARTS LIST

Build a PC: Invoice

WE CONSTRUCTED A midrange PC with the following components for a total of just under \$1200.

PRODUCT	Price
Foxconn TPS544 black/silver tool-less ATX chassis	\$70
Intel D945GTPLR Media Series microATX motherboard	\$115
Intel Pentium 4 631 3-GHz/800-MHz 65nm processor	\$177
Two Gigaram 512MB (1GB) DDR2 667 (PC2-5300) DIMMs	\$72
EVGA GeForce 6600 GT graphics board	\$139
Western Digital 250GB 7200-rpm SATA hard drive	\$90
Lite-On ATAPI DVD±R/RW burner	\$40
Encore 56-kbps Intel 537 chip set fax modem	\$8
ViewSonic VA902b 19-inch LCD monitor	\$236
Creative Inspire T3000 29-watt 2.1 speakers	\$41
Logitech PS/2 keyboard and optical wheel mouse	\$18
Microsoft Windows XP Home with SP2	\$90
OpenOffice.org 2.0.1 office suite	Free
Subtotal:	\$1096
Shipping:	\$64
Total:	\$1160

CHART NOTES: Listed prices are street prices as of the time of publication. Shipping charges are for standard delivery (three to five business days). Some online vendors may charge sales tax, which is not included here since sales taxes vary by state. For a more detailed breakdown of the parts we used to assemble our computer, see find.pcworld.com/53568.

9. Add a DVD burner: Slide the locking lever of a 5.25-inch bay to the unlock position, place your DVD or other optical drive into the bay, and, once it's fully seated, relock the lever. As with the hard drive, don't connect the cables yet. Note that some cases hold the drive with external locking clips.

10. Adjust your cables: On the front of the chassis are a power switch, reset switch, power LED, and hard-drive LED. Find the cable for each and plug it into the appropriate front-panel switch/LED connector on the moth-

erboard (see FIGURE 5). Look to your motherboard's manual or the legend printed on the motherboard for guidance.

Next, locate the internal USB, FireWire, audio, and other I/O connectors on the motherboard and attach their cables to the appropriate ports. The assorted cables and connectors should be keyed to prevent improper installation, but consult the diagrams in your motherboard's manual to be sure that you have all of the cables and connectors matched.

> Now connect the data cables to the disk drives. The 80-conductor ribbon cable attaches the parallel ATA port on your motherboard to the DVD drive, and the thin Serial ATA cable links the first SATA port on your motherboard to the hard drive (see FIG-URE 6). SATA cables plug in only one way. If the ribbon cables aren't keyed, note the odd-colored pin-1 wire, which matches up to the small triangle or pin-1 indicator marked on the motherboard and drive connectors. Once you have the cables attached, route them so they are out of the way and do not interfere with airflow through the case.

11. Add the juice: Plug the large 24-pin main power connector and the 4-pin 12V connector into the



FIGURE 7: KEEP the air flowing through your case by tying off cables away from components.

motherboard. The DVD drive uses a single 4-pin peripheral power connector, while the hard drive uses either a 4-pin peripheral power connector or a 15pin SATA power connector. Route the cables out of the way inside the case, and neatly bundle or tie off any remaining unused power connectors to keep the airflow unobstructed (see FIGURE 7).

The chassis we used in our PC has a large, 120mm rear-mounted fan for added cooling. Plug the three-wire connector from your fan into the matching "REAR FAN" connector on the motherboard. Some case fans also take a standard 4-pin peripheral power connector.

12. Link outside the box: Attach your display, keyboard, mouse, and speakers to the appropriate color-coded connectors on the back of the system.

13. Turn it on: Attach the power cord and press the power button (don't forget to power up your display too). Insert the Windows XP CD-ROM and allow the system to boot from it. Once you've applied the network settings you received from your ISP, browse to openoffice.org to download your free applications. If you have problems loading Windows or other software, visit find.pcworld.com/52582 to read Lincoln Spector's tips on troubleshooting a Windows installation. When you are satisfied that everything works, close the case by reattaching the chassis front and side panels.

Scott Mueller is the author of Upgrading and Repairing PCs, 14th Edition, published by Que Publishing. You can send him e-mail at scottmueller@compuserve.com.





Wireless-N The Freedom to Do It All!

Internet. Voice. Entertainment - All at Once. Anywhere.





WRT300N Wireless-N Broadband Router

Surf the web, enjoy high definition video, listen to your digital music collection, and make Internet phone calls - all at the same time. With wholehome coverage that virtually eliminates dead spots, Wireless-N delivers the freedom to work and play everywhere, without the hassle of running new wires.

- Up to 4X the range for whole-home coverage that virtually eliminates dead spots.
- · Up to 12X the speed of the older Wireless-G standard.
- · Compatible with existing Wireless-G and -B products.
- · Easy to install and easy to use. Set it and forget it.

Linksys. Nobody makes networking easier!

For more information on the new Linksys Wireless-N products, visit www.Linksys.com, or call 1-800-737-7201.





Office Max





WINDOWS TIPS SCOTT DUNN

The Safest Way to Run Suspicious Programs

YOU DON'T NEED to be reminded yet again to keep your virus protection up-todate or to be cautious about the software you download. But what if you're not sure about the safety of a program you want to run or install? You can attempt a limited installation of any piece of suspect soft-



FIGURE 1: RIGHT-CLICK an app or shortcut and choose Run As to launch it securely.

ware by using a helpful feature of Windows XP. To safely launch a suspicious program or shortcut, right-click it and choose Run As (see FIGURE 1). Note that in some cases, such as with a mysterious new Control Panel (.cpl) icon, you may need to hold the (Shift) key to see the right-click menu's Run As option.

In the Run As dialog box, select Current user and make sure that the option Protect my computer and data from unauthorized program activity is checked (see FIGURE 2). Then click OK.

When running in the 'Protect my computer' mode, the program is able to read Registry settings, but it cannot change them. In addition, if your hard disk is formatted with NTFS, the program won't be able to alter any files associated with the current profile, including cookies, temporary Internet files, the desktop, and My Documents. Be aware, though, that while this option protects against a potentially harmful program running on your system, it also brings grief to many perfectly healthy applications that need to store settings or files in one of these locations. Consequently, you might want to reserve this trick for dubious applications or those

whose origins are iffy or unknown.

Blogger Aaron Margosis (find.pcworld. com/52606) has discovered yet another good use for the 'Protect my computer' option: If you need to prevent a particular Web site from leaving data on your hard drive, launch Internet Explorer through this method prior to visiting the site. Note that when IE is running in this protected mode, you won't be able to access any secured sites whose URLs begin with 'https://'. Also, some commands (such as 'Open Link in New Window' on the context menu) may not work.

WINDOWS TOOLBOX

ANOTHER DESKTOP TRIP TIP



Windows IN THE MARCH column, I described two keyboard 98 ME shortcuts to the desktop

(find.pcworld.com/52608): <Windows>-D ("D" for "desktop") to toggle showing and hiding all windows; and <Windows>-M ("M" for "minimize") to hide windows

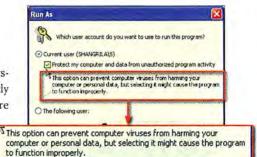


FIGURE 2: 'PROTECT my computer' stops programs from changing Windows' Registry.

but not dialog boxes. I said the latter minimizes, but doesn't restore the windows. Warren Slack of Lakeland, Florida, points out that pressing <Windows>-<Shift>-M brings back the minimized windows.

Send your Windows-related questions and tips to scott dunn@pcworld.com. We pay \$50 for published items. Visit find.pcworld. com/31607 for more Windows Tips. Scott Dunn is a contributing editor for PC World.

Put a Lockbox on Your System With Cryptainer LE



IF YOU WANT to store your data or applications secure-98 ME ly, give Cypherix's Cryptain-

er LE a try. The free program sets up a virtual vault on your computer. Once you make a password-protected Cryptainer file, it appears in Windows Explorer, Work with that secure container as you would any disk, creating folders, dragging and dropping files, even installing applications on it. When you unload the drive or exit Cryptainer, the virtual disk is visible only as a file protected by 128-bit encryption. You can back up or delete the file, but only your password can unlock its contents.

You can put secure containers on rewritable CDs and DVDs, as well as on other removable media. Cryptainer LE's encrypted files can be sent as attachments, and you can make the files self-extracting so the recipient needs only the password (no additional products) to open it. Cryptainer LE limits containers to 25MB; as a workaround, you can create multiple secure volumes on your PC. Alternatively, you could upgrade to one of the paid versions, which permit larger containers (2.5GB for \$30, 25GB for \$45, 250GB for \$90). Visit find.pcworld.com/52610 to download your copy of the free Cryptainer.

CASH REGISTER EXPRESS

More Profit! . More Sales! . More Customers!

Save Time, Reduce Theft, Speed Checkout, Increase Accuracy, Reduce Costs, Make Better Business Decisions by Computerizing your Retail Store

The World's Fastest Cash Register

- RATED #1
- · Single or Multi-User
- . One Store or Multiple Store
- · Credit Card Authorization in 2-3 Seconds
- . Gift Cards & Loyalty Cards
- . Track Your Inventory and Customers
- · Detailed Sales Reports
- . FAST and EASY Checkout
- · Convenience Stores & Grocery Stores
- · Gift Shops
- · Apparel / Clothing
- . Liquor & Tobacco Stores
- · Cellular & Electonics
- · Restaurants, Delis
- Any Store Requiring a Cash Register



Bar Code Scanners \$295 Metrologic, Symbol, HHP, PSC



Receipt Printers \$299 Epson, Star, Ithaca, Citizen



Portable Invoicing, Inventory/Asset Tracking & Data collecton - \$499 Symbol, HP Palm



Cash Drawers \$189
MMF, Indiana, APG, Logic Controls



Pole Displays \$289
Logic Controls



Touch Screen Monitors \$499 ELO Flat Panel, CRT



Bar Code Printers \$499 Cognitive Solutions, Fixed & Portable



Credit & Debit Card Processing \$349
PC Charge

Credit Card Readers, Pin Pads, Signature Pads \$179
Unitech, MagTek, Verifone, Topaz, HHP



Cash Register Express software for Windows \$495

Replace your Cash Register with Cash Register Express in any type of retail store. With over 1,000 of the most desired point of sale features, Cash Register Express will help you compete in a difficult retail environment by controlling your costs, reducing errors, increasing efficiency, increasing your profits and increasing your sales.

Specializing in Point of Sale since 1985

DEALERS WANTED!

Join our dealer program. It's FREE. It's the fastest way to make money...AND we make it EASY.

For More Info Call Toll Free! 1-800-722-6374

FREE DEMO!!

1-800-PC-AMERICA WWW.PCAMERICA.COM



CALL TOLL FREE: 1-800-722-6374 • PH: 845-920-0800 • FX: 845-920-0880 PC AMERICA, 1 Blue Hill Plaza, Second Floor, Box 1546, Pearl River, NY 10965

INTERNET TIPS

SCOTT SPANBAUER

Find the Name Behind a Malicious IP Address

I LEARN A lot from PC World readers, and I don't acknowledge often enough how the column is steered by your questions and gentle corrections. This month, your fellow readers share tips on identifying who is trying to connect to your computer, creating a shortcut to a Web site, and speeding searches on PCWorld.com.

WHO'S CALLING, PLEASE?

IN MANY CASES when your firewall blocks access to a remote system, or your spam or phishing filter traps a potential e-mail attack, the only information it reports about the source is an IP address. To learn more about the individual or outfit behind the address, reader Rick Tschernjawski of Syracuse, New York, recommends using the command-line program nslookup in the TCP/IP networking protocol in Windows 2000 and XP.

To find the more-descriptive domain name associated with a cryptic IP address such as '65.220.224.30', click Start. Run,

ZAP YOUR GOOGLE COOKIE

IF YOU'RE LIKE me, you worry that Google is compiling a complex psychological profile based on your accumulated search requests. ("Mr. Spanbauer, you display inordinate interest in Chuck Norris, potato guns, and selfhypnosis. We have alerted the authorities.") Luckily for all of us, Ksoft's free G-Zapper utility cleans the information that identifies you uniquely out of the Google cookie, thereby protecting your privacy. So take off that tinfoil hat and download G-Zapper from find.pcworld.com/52614.

type command in the Open field (cmd in Windows 2000), and press (Enter). At the command prompt, enter nslookup followed by a space and the IP address.

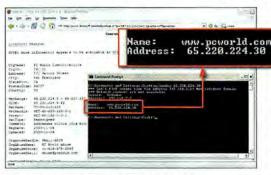


FIGURE 1: CONVERT an IP address into a domain name and server address using nslookup in Windows XP.

Press (Enter), and after a short delay. nslookup will report first the name of the domain name system (DNS) server used for the lookup, followed by the IP address and domain name that you want to know about (see FIGURE 1). Type exit to close the command-prompt window. The program will also do forward lookups, providing the IP address linked to a domain name.

If you use a router or wireless hub, nslookup may complain that "default servers are not available," but nevertheless it will still provide the lookup information. For a more in-depth explanation of the nslookup command in Windows, browse to Microsoft's documentation page at find.pcworld.com/52612.

Sometimes, just knowing the domain name can help you identify the frauds. For example, you can report spam to the sending ISP by firing off a message to 'abuse@domain', where 'domain' is the domain name that you looked up. Other times, you need more than a name. For finding the phone numbers, e-mail addresses, and other contact information related to a domain name or an IP address, Tschernjawski recommends the Whois lookup tools at www.dnsstuff. com. The site also offers a handy geolocation tool that tells you where in the world a particular IP address is located.

SHORTCUTS TO WEB SITES

WHEN YOU LAUNCH your browser, it automatically loads whatever site you've selected as your home page. But there are probably many times when you want to open your browser to a site other than your home page. For those occasions,

Pensacola, Florida, reader

Donald Darden offers a time-saver: Rightclick the desktop (or inside any folder) and choose New-Shortcut.

Enter the site's URL (for example, www.pcworld.com), click Next, give the shortcut a name (maybe the name of the site), and click Finish. Then double-click the shortcut to go directly to your local movie guide or sports scores, without

having to pass through your home page.

FASTER PCWORLD.COM FINDS

BEN HYMAN OF Champaign, Illinois, who uses PCWorld.com's find.pcworld. com service religiously, has a Firefox shortcut. Begin by choosing Bookmarks. Manage Bookmarks, clicking New Bookmark, and entering a name in the Name field and http://find.pcworld.com/%s in the Location field. Type pcw (or whatever you want) in the Keyword field, and click OK. Close the bookmark manager. To browse to a link printed in PC World, just type pcw (or the text you entered) followed by a space and then the link number in Firefox's address field, and press (Enter).

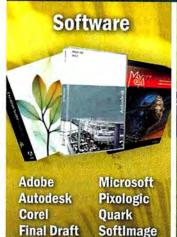
Send your questions and tips to nettips@ spanbauer.com. We pay \$50 for published items. Go to find.pcworld.com/31523 for more Internet Tips. Scott Spanbauer is a contributing editor for PC World.



www.studica.com

(888) 561-7521

For the Lowest Prices for Students, Educators & Schools, visit www.studica.com



...and many more!

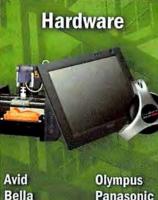
nies listed are trademarks of their respective

Toon Boom

Virtools

Intuit

LightWave



Panasonic Canon **Pantone** Canopus Roland 3-D Fischertechnik Wacom Nikon Worldtech

...and many more! lies listed are trademarks of their respective o



AKG M-Audio **Arkaos** Mackie Behringer **Propellerhead** CakeWalk Sony

...and many more! Companies listed are trademarks of their respective owners





Universal Flat Panel Display Mount



BRETFORD



•Fits displays from 30"-60"

•Positions your display 5"-16" from the wall

·Swivels 45° side to side

Screen pitch easily adjusts 20°

·Other sizes and styles available

Furnishing great places to learn:

For volume discounts, call toll-free: 866.619.5321



Order Online at www.schooloutfitters.com/mtpw

ANSWER LINE

LINCOLN SPECTOR

Move All of Your Valuable Data to a New Partition

I FOLLOWED Jon L. Jacobi's advice for creating a new hard drive partition and moving My Documents there (see last February's Backup Tips, find.pcworld.com/52668). But not all of my important files are in My Documents. How do I move the others over?

[Name withheld]

SEPARATING YOUR DATA isn't as easy as relocating My Documents. By default, Windows XP or 2000 put your files in the Documents and Settings folder, but some files in this folder should not be moved.

First back up your Registry; for instructions on how to proceed, review April's "Windows Hacks" feature (find.pcworld. com/52670). Next, if you haven't already, use a program such as Symantec's \$70 PartitionMagic (find.pcworld.com/52672) or Acronis's \$50 Disk Director Suite (find.pcworld.com/52674) to adjust your hard-drive partitions. When the drive is repartitioned and you're ready to make the move, close all apps except Windows Explorer. Confirm that your PC shows hidden files and folders: In Windows Explorer, select Tools. Folder Options. View.

Verify that Show hidden files and folders is checked, and click OK. You can change this back when you're done, if you wish.

Navigate in Windows Explorer to the data partition you just created (I'll refer to it as 'X:'). Make folders for each user with a log-on: Select File New-Folder and enter the user name. Repeat the steps below for every user on the machine.

Your C:\Documents and Settings\log-on folder (where log-on is your log-on name) has four folders that likely hold important data: My Documents, Application Data, Local Settings\Application Data, and-if you use Internet Explorer-Favorites.

If you haven't moved My Documents yet, right-click the My Documents folder in Windows Explorer and select Properties. Enter X:\log-on\My Documents as the new path (where 'X' is your new partition's drive letter, and log-on is your user name). After asking permission, Windows will change the location of My Documents and move the actual files.

Moving Application Data is trickier. Log in to each account and drag its Application Data folder in Explorer from C:\

> Documents and Settings\log-on to X:\log-on (again, where 'X' is the partition's drive letter and log-on is the user name). Now select Start-Run, type regedit, and press (Enter). In the left pane, navigate to and select HKEY_ CURRENT_USER\Software\ Microsoft\Windows\CurrentVersion\Explorer\User Shell Folders. Double-click the AppData value, change the 'Value data' field to X:\log-on\Application Data, and press <Enter> (see FIG-

URE 1). Log off and then log in to the same account again. Now delete the Application Data folder in the old location.

Next, change the Favorites value in the Registry Editor just as you did the App-Data value. If you have Microsoft's Tweak UI (part of the free PowerToys for Windows XP; find.pcworld.com/52676), use that program's My Computer-Special Folders option, which makes changing various folder locations a breeze. You still have to move the files and subfolders.

Browse to find.pcworld.com/53516 for instructions on relocating data in the Local Settings\Application Data folder.

Finally, move the shared data. In Windows Explorer, create a folder named X:\ All Users. Use the technique above for Application Data to move both Shared Documents and Application Data (they are inside C:\Documents and Settings\All Users) to this new location. Open the Registry Editor and navigate to HKEY_ LOCAL_MACHINE\Software\Microsoft\ Windows\CurrentVersion\Explorer\User Shell Folders. Add the new location in the 'Value data' field of Common AppData and Common Documents.

Send your questions to answer@pcworld. com. Answer Line pays \$50 for published items. See find.pcworld.com/31577 for past Answer Line columns. You'll find Contributing Editor Lincoln Spector's humorous and other writings at www.thelinkinspector.com.

EASY E-MAIL BOILERPLATE

MOST E-MAIL PROGRAMS let you automate entry of your snail-mail address and other common text. Simply create multiple signatures, which you can place anywhere in the message-not just at the end. To create boilerplate in Outlook, select Tools Options Mail Format Signatures New, and follow the instructions. Then put the cursor where you want the text to appear in the message, select Insert. Signature, and make your choice. Or if you use Word as your Outlook editor, use that program's AutoText and AutoCorrect (browse to find.pcworld.com/52684 for more on these options).

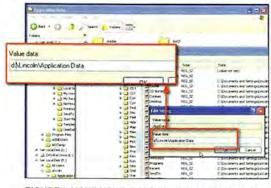
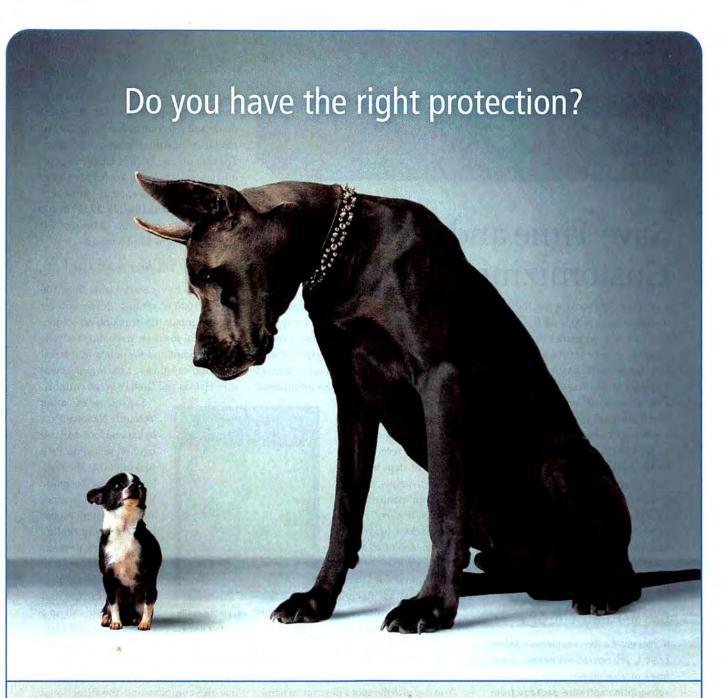


FIGURE 1: MOVE YOUR data folder by copying the folder in Windows Explorer and changing a Registry setting.



When it comes to your protection against spyware, choose the solution that has as much bite as it has bark!



Best of the Year 2005

PC Magazine Best Anti-Spyware Software

Editors' Choice Award

PC Magazine February 21, 2006 PC Answers April 2006 PC Advisor December 2005

Free scan using multi award-winning Spyware Doctor at www.pctools.com











GPS TIPS

MICHAEL S. LASKY

Save Time and Money by **Customizing Your GPS**

GPS RECEIVERS ARE great for avoiding unscheduled detours on the road. But they can be even more helpful for planning a trip, whether it's a cross-country trek or a hopscotch tour of your routine Saturday stops. You can cut your travel time, and save money on gas, by creating custom waypoints for your GPS.

A waypoint—sometimes called simply a "mark" or "landmark"-identifies your home, a hiking trailhead, a highway rest stop, or any location you store in a GPS receiver. The waypoint might appear as an icon on a map page, but your GPS software can maintain much more information about it, such as its latitude, longitude, and elevation, and the time and date when it was created. You can even

GPS MAPS WITH NO GPS

IF YOU HAVE a Web-enabled cell phone or PDA, you can receive instant street maps of your current location with a subscription software package from Handmark (express.handmark.com). This service for people who don't have GPS receivers returns precise maps based on street and city queries that you send wirelessly. You can also get up-to-the-minute news, weather (with live radar maps), sports, stock prices, directories, and movie times and ticket purchases. The street maps can help you avoid having to ask for directions; but aside from that, the service's unlimited directory assistance (with reverse directories as well) more than justifies the \$70 yearly subscription. For \$30 a year, you can obtain just mapping and directory assistance.

use a descriptive icon of your choice.

Most receivers let you enter a waypoint from a previously saved coordinate record or import one from a collection of waypoints, many of which you can download from Web sites offering GPS information

(visit find.pcworld.com/ 53134 to find out more about GPS Web sites). Each GPS receiver uses different steps to establish waypoints, so consult your manual for the details. If your GPS device lacks a 'waypoint' option, don't fret. Some units, such as the Garmin StreetPilot 5, save waypoints as 'Recent Finds' or 'favorites'.

Most GPS systems have a button or menu

selection for setting the current location as a waypoint so it's easier to return to. You can give the spot a descriptive name, and you can choose an icon for it on the waypoint information page, which usually pops up after you mark a location. (On some receivers, to open the waypoint information window, you must manually select the waypoint that you just created.) Even on GPS-enabled BlackBerries and other devices that do not use icons, you can give each point a unique name, such as 'Parking lot' (see FIGURE 1).

Setting a waypoint for a known localewhether it be the cursor point on a map, latitude and longitude coordinates, or even a locale previously saved as a waypoint and imported from another GPS receiver-takes a few more steps. Most current devices let you designate a waypoint by opening their Create Waypoint menu and selecting Create From Current Pos (or Position—the exact name varies). To enter precise latitude-longitude coordinates, select Create From Entered Pos (or Position). Then enter the numbers manually; 37.78328N/122.39359W, for example, sets the street address of PC World's offices in San Francisco.

ON THE ROAD AGAIN

MOST GPS DEVICES can store from 100 to over 1000 waypoints. Before you set out on a motor trip or hiking expedition, it's helpful to create waypoints for your starting point and for points of interest along the way (they're a big improvement over Hansel and Gretel's bread crumbs).

> Say you are exploring Yosemite National Park by car and foot, and you have set waypoints for a parking lot at the trailhead and for Yosemite Village. As you wander along a twisting mountain trail, you realize that you aren't exactly on the trail anymore; in fact, you're lost. Fortunately, you can use your GPS device to call up a waypoint that will identify the distance between



FIGURE 1: FIND waypoints easily by giving them distinctive names.

your current position and the parking lot. You won't have street maps, but you can use the compass and the directional arrows to set yourself on the right path back to the trail, your car, or the village. As you get closer to the waypoint, its icon will appear larger on your GPS screen.

When using street maps, most GPS receivers let you track and save your route as you move. By using PC mapping programs in advance of a trip, you can prebuild routes that will automatically create a trip log. You can even preset waypoints along the route, and import the fully routed trips to your GPS device.

Former PC World Senior Editor Michael S. Lasky is now a freelance writer and PC consultant in San Francisco.



XTREME GEAR RECOMMENDS WINDOWS XP







- Smash the hourglass with the AMD Athlon[™] 64 X2 dual-core processor.
- Welcome to TRUE multi-tasking.
- Go beyond just keeping up. Set the pace.
- Outstanding 32- and 64-bit processing.
- Performance you can see.

XG Xion 9000

AMD Athlon 64 X2 5000+

CoolerMaster Mini Aquagate Liquid Cooling System
Genuine Windows* XP Home Edition W/SP2
N/IDIA* nForce** 4 SLI Dual X16 PCI-E Mainboard
Corsair 2048 MB-DDR2 667 Dual Channel Memory
300GB 7200 RPM SATA-II 16MB Cache Hard Drive
Dual (2) N/IDIA* 7900GTX 512MB 16X PCI-Express Video
16X DVD+-RW w/Lightscribe Technology
Sony 16X DVD ROM Drive
7.1 nForce 3D Audio
Logitech X530 5.1 Subwoofer Speakers
Gigabit Network Card
PCI 802.11G 54 Mbps Wirless Network Card
XG Discovery Case 500 Watt Power
1 year limited warranty + lifetime toll free 24/7 techsupport

\$2,159

Build your own system at Xtreme Gear today!



\$899

XG Xion 7000

AMD Athlon 64 X2 4000+

CoolerMaster Mini Aquagate Liquid Cooling System Genuine Windows* XP Home Edition W/SP2
Corsair 1024 MB-DDR2 667 Dual Channel Memory
250GB 7200 RPM SATA-II 8MB Cache Hard Drive
NVIDLA* 7600SS 255MB 16X PCI-Express Video
Sony 16X DVD+/-RW Drive
7.1 nForce 3D Audio
Logitech S100 Stereo Speakers
Gigabit Network Card
PCI 802.11G 54 Mbps Wirless Network Card
XG Xion II Case 420 Watt Power

1 year limited warranty + lifetime toll free

24/7 techsupport



\$1,199

XG Action 6000

AMD Turion 64 MT -34

AMD Turion 64 Mobile Technology -AMD PowerNow! Technology

-HyperTransport Technology

-Enhanced Virus Protection Technology

Genuine Windows* XP Home Edition W/SP2 15.4" WXGA Wide-Screen TFT Display

1280x800 Pixels

Corsair 1024 MB Dual Channel DDR 400 80GB 5400 RPM SuperSlim Notebook Drive Mobile ATI X1600 x16 PCI-E 128Mb Video Build in 1.3 Mega Pixel Webcam 8X DVD+-RW Drive

802.11G 54 Mbps Wireless Network,

10/100 NIC and 56k V.92 Modem

1 year limited warranty + lifetime toll free 24/7 techsupport

Toll Free 1-888-937-5580 www.buyxg.com

MD®, the AMD® flogo, AMD® Athion™ and combinations thereof are trademarks of Advanced Micro Devices, Inc. All prices are subject to change without notice or obligation. Xtreme Gear is not responsible for any hypographical and photographic errors. Copyright ©2006 Xtreme Gear. All rights reserved

Toolbar Review

There has never been a better time to use a toolbar with your Internet browser. Toolbars can provide users with numerous features such as Pop-up Blocking, Driving Directions, Adult Content Filtering, Security Features, Spyware Detection, Games and more. Toolbars are a convenient and powerful addition to your browser, making it easier than ever to navigate the Internet.

The comparison chart below will help you decide which toolbar is right for you.

	Toolbar Com	parison Chart		
Toolbar Features:	Advanced Toolbar	Google	YAHOO!	msn
Search Engines	100+	1	1	1
Search Tabs	1			
Blocks Pop-Up Ads	1	1	1	1
Calendar Application	1			(
RSS News Reader w/Ticker	1			
Auto Form Filler	1	1		1
Adult Content Blocker	1			
Spyware Remover	1		1	
Homepage Protector	1			
Browser Tracks Eraser/Cleaner	1			
File Shredder	1			
Add Buttons for Software	1			
Add Buttons for Webpages	1	1	1	
Screensaver Launcher	1			
Games Links	70	0	10	10
E-mail Provider Links	52	0	1	1
News Provider Links	88	0	1	0

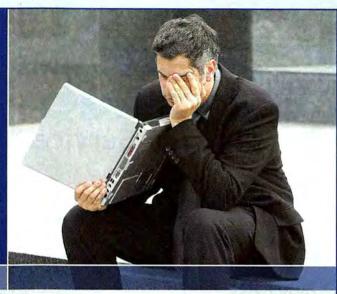
With its vast array of features and incredible ease of use, the Advanced Toolbar stands out from the competition. It's a powerful web tool that allows you to choose from over 100 search engines, 80 plus news sources, 50 plus email providers and can be completely customized to meet your needs. The Advanced Toolbar does not record any user data, has a very straight forward privacy policy and is totally spyware and adware free. You can get a free copy of the Advanced Toolbar at http://www.advancedtoolbar.com and take advantage of everything this incredible toolbar has to offer.



You can get a free copy of the Advanced Toolbar at:

http://www.advancedtoolbar.com





Don't Wait for a Digital Tsunami to Cripple Your Business

Safeguard your business and insure your future with IBackup, the leading online storage and backup service provider.

Regular Automated Backups

Backup for Windows provides wizards for automatic selection of files for most commonly backed up data such as Outlook, Office files, My Documents. With just a few clicks, you are protected!

Secure Backups

Data is encrypted on transmission, and encrypted on storage (optional) with world class security methodologies implemented at all levels.

Easy to use Advanced Features

You can customize your backups to your liking, provides advanced logging and reporting, supports hot MS SQL Server and Exchange Server backups.

Performance

With wire compression and patching technologies, optimizes your data transfers to fully utilize your available internet pipe.

Sharing and Collaboration

IBackup provides Network Drive access to your data using IDrive, so that you can do an easy drag-n-drop or direct editing. You can share large amounts of data with others with the click on a button, and collaborate with others by creating multiple sub accounts within your main account. You can even use WebFolders to directly edit data or drag-n-drop within a browser.

Mobile Connectivity

Access and share your data stored in IBackup accounts while on the move using handheld devices such as Blackberry, Pocket PC and Treo devices.

FREE TRIAL 15 Day Trial at www.ibackup.com

PLANS START AT \$9.95 PER MONTH FOR 5GB **OF STORAGE**

Please Contact Backup Sales at -800-949-3555 ext. 114

IBackup® is a registered trademark of Pro-Softnet Corp. IDriveTM and ILiteTM are trademarks of Pro-Softnet Corp.

You can hope to avoid DESA or you can be prepared for it.

Syncweb Data Backup Service

www.syncweb.net

Off-site data backup service for the small business, home and mobile user.

Secure

Data is encrypted using Department of Defense standards.

 Automated Schedule daily, weekly or monthly backups.

 Easy to Setup Create an account and begin backing up in 5 minutes!

www.syncweb.net 800-718-5681 sales@syncweb.net







Perform daily backups with 20gb of data over standard DSL lines!

FIND.PCWORLD.COM/53322

PC WORL

TECHNOLOGY ADVICE YOU CAN TRUST

Supercharge Your Search: Use PC World's Find-It-Service

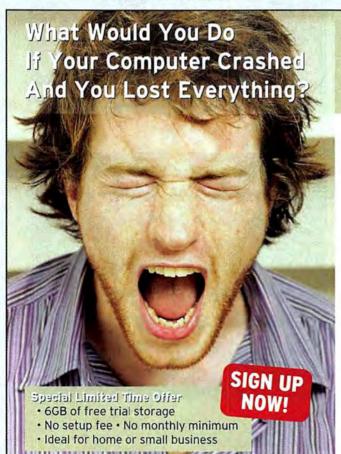
Don't waste your valuable time searching for the information you want. Use PC World's Find-It service. Find quality information quickly and browse more efficiently with PCWorld's innovative Find-It service.

HOW IT WORKS

Enter a Find-IT URL (for example, find.pcworld.com/ 46300) in your browser or click the button on any USE FIND.PCWORLD.COM PCWorld.com page and enter the five-digit Find-It number.

PRODUCT INFORMATION

Find-It URLs are also specific to each ad, for a fast and easy way to get to the product information you want.



Now there is a simple and affordable way to ensure that your computer backups are always up to date.

Secure Online Data Backup

Data Deposit Box™ makes instant online backups whenever your files change.

Easy to Use

- · Installs in minutes
- · Completely automatic
- · Recover lost files instantly

Affordable

- Just a penny per megabyte
- · Pay only for what you use
- · Multiple PCs share storage

Great Features

- · Bank grade security
- · Remote web access to your files
- · Web file sharing

Our secure internet backup system is the best way to protect your PC from disaster.





SPECIAL OFFER

FREE TRIAL

www.datadepositbox.com Use Special Offer Code 'PCWORLD6GB'

Athlon FX









WHEN IT COMES TO POWERFUL SYSTEM SOLUTIONS.

That's why we configure our notebook systems with the AMD Athlon™ 64 FX-60 dual-core processor. The AMD Athlon™ 64 FX-60 dual-core processor features an integrated memory controller, dual-core technology, and fast HyperTransport™ technology. Break the limits of performance. Your intense applications demand the most out of your processor. And AMD Athlon™ 64 FX-60 dual-core processors fulfill that demand with leading-edge performance and enable you to discover the true potential of your personal computer.

BOLData notebooks built with the AMD Athlon™ 64 FX-60 dual-core processor let you run the software you need without compromising performance. With a 2000MHz double-data clock rate, HyperTransport™ technology provides a fast and low-latency connection throughout your computer system and run the latest multi-threaded applications at jaw-dropping speed. With free flowing data, you can feel confident your applications are operating at their maximum potential.

So if you're looking for a solution provider that's as serious about mobile performance as you are, then call BOLData today at 1-800-923-BOLD.

MAIN FEATURES:

- AMD Athlon™ 64 FX-60 Dual-Core Processor
- 17" WUXGA Screen
- Dual RAIDed Hard Drives
- NVIDIA GeForce 7800GTX or Quadro 1400 with OpenGL
- This is a Full-Mobile Workstation!

Custom configure and buy on-line at

www.boldata.com

1-800-923-BOLD





Notebooks built with AMD Athlon™ 64 FX-60 **Dual-Core Processors**



Rackmount and Blade Server systems built with AMD Opteron™ **Dual-Core Processors**



All-in-One systems built with AMD Turion™ 64 Mobile Technology

Fremont Blvd. • Fremont •

Copyright © 2006, BOLData Systems Inc. BOLData and the BOLData logo are registered trademarks of BOLData Systems, Inc. AMD, the AMD Arrow logo, AMD Athlon™, AMD Turion™, AMD Opteron™ and combinations thereof are trademarks of Advanced Micro Devices, Inc. All other product and company names are the trademarks or registered trademarks of their respective owners. See AMD website at http://www.amd.com for details and independently audited benchmark results.

Software Savings for Students, Teachers, and Schools!

Get up to 85% off retail software prices on the brands you know and use...



Adobe® Creative Suite 2 Save! 67% Order Today! Get the Best for Less!



Macromedia® Studio 8 Save! \$710 Only! \$289.95 Brand New Version!



Quark® QuarkXpress 6.5 Save! \$756 Only! \$189.95 The Industry-Standard



Microsoft® Office 2003 Pro Save! 66% Order Today! 4 Programs - 1 Price!

We carry thousands of industry-leading software and hardware products at huge discounts for students, teachers and schools. These special prices are ONLY for the academic community. And our prices are typically \$10-\$20 lower than most college bookstores! Visit us today and start saving!

Adobe®

Acrobat Pro 7Save	69%
Photoshop CS 2Save	53%
Video CollectionSave	55%

Alias®

Maya 7 Complete Student	\$289
SketchBook Pro 2 Student	\$89

Corel®

Painter	IX	\$89

Macromedia®

Dreamweaver 8	\$189
Flash Professional	8\$239

Microsoft®

Windows XP Pro Upg Save 58%

Sony Media Software®

ACID Pro 5	\$149
SoundForge 8	.\$149
Vegas+DVD	.\$299

Hev Parents!

You are eligible to buy for your students at home or away at college!

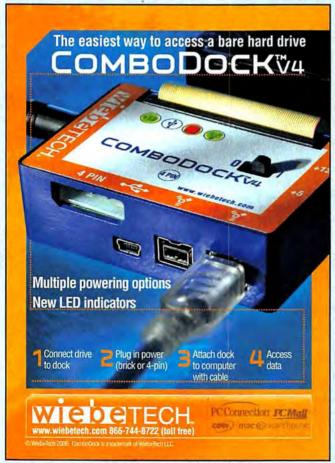
FREE SHIPPING! when you order online

Prices subject to change at any time.

Give us a call anytime! 1-800-580-9237

PW.AcademicSuperstore.com

FIND.PCWORLD.COM/52968



FIND.PCWORLD.COM/52998

Disc Makers' Pico DVD and CD duplicator just Now includes automated MP3ripping upgrade - a \$99 value - FREE! Free software offer ends 7/31/06. FREE CATALOG! Call 1-866-318-6292 or visit www.discmakers.com/pcworld DISC MAKERS™

FIND.PCWORLD.COM/52980



FIND.PCWORLD.COM/52986

Big Screen Center

...smoother, faster, smarter



Panasonic 42" (th42px60)

- *42" Diagonal Plasma HDTV with Built-In Tuners and SD Memory Card Slot
- ·This plasma can display an incredible 29 billion colors for a superior picture
- ·This widescreen TV features a width-to -height ratio similar to movie theater screens

Starting at \$2499.00



Eiki (LC-X50M)

- · Great for boardroom presentations
- 4500 max ANSI Lumens
- ·XGA 1024x768 Resolution
- ·Contrast Ratio 1100 : 1 Full On/Full Off
- ·Weight 20.7 lbs/9.4 kg

Our price \$5108.00





'Classic" Fixed Frame Screens

- ·Fixed projection screen that's really easy
 - · Each side piece slipfits tightly to injection molded plastic corners, forming perfectly mitered edges

Starting at \$499.00



Chief (pdru)

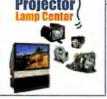
- ·Universal Dual Swing Arm Wall Mount
- ·VESA Mounting Standards:
- 75 x 75 mm: 100 x 100 mm
- •Tilt /Roll: +5°, -15° / 4°
- *TV Size Range: 42" to 65" panels
- ·Weight Capacity: 200lbs (90.7 kg)

Advertised Price \$639.95



Projector Lamp Center

·Need a new ANSI Bulb, Projector Lamp, or TV Lamp? Give Projector Lamp Center a call at 1.800.296.8420 or go online today at www.projectorlampcenter.com





Call Now For Free Freight (on selected items)

Check out our variety of popular brands!



InFocus' SHARP NEC Ranjer CHRISTIE





lassic



"Draper" Premier

- ·Delivers outstanding picture quality
 - ·12" black drop is standard
 - ·Black case with matching endcaps
 - · Draper's Tab-Tensioning System holds the surface taut and wrinkle-free

List price \$1128.99



Ranier (ranam2)

- ·Universal articulating wall arm
- ·Full tilt and swivel: Extends 13" from wall
- ·Cantilever arm mount for installing and viewing LCD displays
- ·Weight Capacity: 30lbs.

Our price \$125.99



Projector Needing Repair?

Warranty or out-of-warranty. Projector Lamp Center now offers repair service on most projector brands. Call us at 1.800.870.9647 or log on today at www.projectorlampcenter.com to have your projector evaluated. Call for pricing!



Screen Warranties

·2 and 3 year extended warranties available on selected screens

Call for pricing!

1.877.835.1431 www.BigScreenCenter.com/PCWorld

> Mon-Fri 8:30am-6pm or order online today! *pricing at time of printing - call for latest pricing & discounts

Get a web site with your own web address and watch your business grow.



ValueWeb provides EVERYTHING you need to get started.

- Free custom web address with 50 email accounts
- Free easy-to-use web site design software
- Free advertising on Google™, Yahoo!® and AOL Search™ (\$25 credit)
- Detailed visitor web site reports from Google™ (\$595 value)
- 5GB Disk Space & 100GB of Bandwidth

ValueWeb/Affinity Partners:













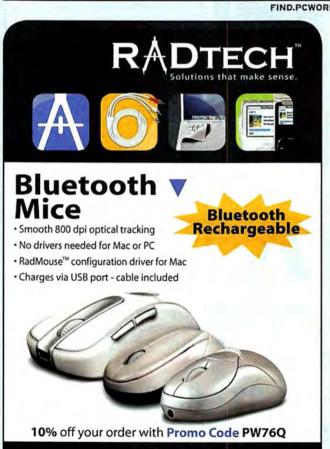


Call or sign up online today & mention this ad to receive this special offer

866-932-1112 valueweb.com/specialoffer

ValueWeb

FIND.PCWORLD.COM/52970





FIND.PCWORLD.COM/52994

www.radtech.com



Enough said.

BitDefender® is an award-winning producer of anti-virus and data security software. We deliver superior threat management to over 41 million home and corporate users in more than 100 countries. Try it for FREE at www.bitdefender.com



BitDefender® 9 Standard - PC World Best Buy, March 2006



Home Theater

SANYO PL-Z4 (LDTV

1,000 ANSI Lumens HDTV Compatible 16:9 7,000:1 Ultra High Contrast Native WXGA 1280 x 720p

\$ 1,995 Call Now!



Business/ Home Theater SANYO PLC-XU73

2,000 ANSI Lumens Native XGA 1,024 x 768 Weight: 5.9 lbs.

\$ 995 Call Now!



Business/ Home Theater SANYO PLC-XU48

3,000 ANSI Lumens

\$ 1,695 Native XGA 1,024 x 768 Weight: 5.9 lbs. Call Now!



To learn more visit our website or contact us at:

(866) 848-4076

www.myprojectorstore.com sales@myprojectorstore.com



There's a better way to get back vour data ...

...call us.

ESS DATA RECOVERY LABS 800.237.4200

www.savemyfiles.com

YOU KNOW

Cable locks with barrell style keys can be unlocked with a rolled up business card,

But not the Note Saver,

see the video at www.compu-lock.com

The NoteSaver Features

- A flat double bitted key
- Adjustable for a snug fit
- Offers different style cables
- Master keyed at no charge
- Easy to use

EMAIL: sales@compu-lock.com

Compu-lock Inc. 800.448.4455

FIND.PCWORLD.COM/53320



Preview the new PCWorld.com www.pcworld.com/preview

Insure.com

Auto · Life · Health · Home · and more!

Over 200 companies. Compare prices in seconds. Freedom to buy from the company of your choice.

10-Year Term Life Sample Monthly Premiums \$500,000 \$1,000,000 \$2,000,000 Age 35 \$14 \$37 40 \$18 \$30 \$54 45 \$27 \$47 \$89 50 \$39 \$70 \$136 55 \$58 \$107 \$209 60 \$84 \$158 \$311 65 \$136 \$257 \$510 70 \$213 \$419 \$834

"The premier Web site in terms of details and ease of use, (best of all, it's free)" — Yahoo! FINANCE

"...we'd recommend you do your insurance shopping here..." — Barron's

Insure.com

Or call 1-800-323-7720 for FREE quotes and advice

Ad Code: PCW 7/0

NOTE: The sample Princeylvaria rates shown above are not specific to any individual person or insurer. Please call 1-800-323-4514 or visit evenulnours.com to obtain presonal quotes specific to your health history profile. Occyright © 1984-2006 Quotestraticom, Inc., 2005 South Class Awnore, Salle 192, Deven, Illinoide, 19051. All injust reservaid. On agent 404/19583, LA agent #200966, MA agent #333509199. Quotestraticom, Inc. da faris una insurance Services in 40 Auritor agent 405/0175, LA Auritor agent 4700175, Continentation of the Insurance Continentation of Auritor agent 4700175.

FIND.PCWORLD.COM/52988





IT Automation

WinBatch Automates Windows PC's Fast



- Swift scripting software
- 800+ practical examples
- 2,500 case studies
- 30 special purpose libraries and extenders

WinBatch gives you the power that only top notch C++ or VB developers can enjoy, but takes away the complexity.

KH - Network Services Manager

Free Evaluation Copy www.winbatch.com 90-day unconditional money-back guarantee

sales@winbatch.com 1-800-762-8383 Wilson WindowWare, Inc.

Guaranteed • Supported • Complete

FIND.PCWORLD.COM/53000

Call TODAY! 1-866-258-3350 for a free 30 day trial!

RAID 5 SATA!

New Aluminum SATA II RAID Storage Systems are ultra fast 600MB/s, cool, and affordable

SATA Hot-Swap!

Hot-Swap Disk-to-Disk Backup Systems provide high speed and unlimited storage



SATA 2 Hot-Swap Drive System \$159.00

The new Granite Aluminum 4.0 Terabyte Hot-Swap RAID System is fast and affordable. This system incorporates ultra fast SATA drive technology while supporting hardware RAID 0, 1, 5, 10 and 50 for guaranteed data security. It also supports Hot-Swap which allows the system to have virtually unlimited storage capabilities. So no matter which OS you are running the Granite Hot-Swap RAID System will fill the need... reliably and affordably.

Extra Removable Drive Trays only \$19.95

Our RAID / JBOD Systems can be configured with any size drives and are truly Hot-Swappable. Now no matter what your storage or backup needs entail Granite Digital has the affordable solution that fits the bill.

Delegologolog

Providing Data Storage Integrity



Granite Gold Cables, Adapters, SCSI Terminators, and Components offer the ultimate in quality and reliability







FireWire Cables

Adapters

Adapters

Get our catalog online at www.granitedigital.com

Granite Digital • 3101 Whipple Rd., Union City, CA. 94587 • 510-471-6442-tel • 510-471-6267-fax

FIND.PCWORLD.COM/52983

ber Lock The Lock on Intelligence

Complete Access Control in Every Lock Cylinder

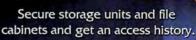
Key Name	Lock Name	Date/Time	Status
Joe Wilson	East Entrance	03/20/2004 06:14:22 AM	Denied
Abby Chaney	West Entrance	03/20/2004 07:28:03 AM	Key Authorized
Pete Sussman	Records Room	03/20/2004 07:59:15 AM	Out of Schedule
John Michaels	Computer Room	03/20/2004 08:00:03 AM	P Avalentized
Evelyn Lefler	West Entrance	03/20/2004 08:12:16 AM	1
Juanita Banks	Computer Room	P 20/2004 08:18:52 AM	
Andy Dunsmore	Computer Room	'2004 08:27:12 AM	E DOLL
			康罗丽宝

Replace standard door lock cylinders with CyberLock cylinders in minutes.

- without wiring in doors, safes, padlocks, and cabinets!

- Schedule access times
- Record all openings and attempts
- Replace mechanical cores with CyberLocks
- Update user permissions remotely
- Eliminate key control problems





www.videx.com/lock29

541-758-0521 · sales@videx.com



idex

PC WORLD

CONTACT INFORMATION

PHONE: 415/243-0500 FAX: 415/442-1891
E-MAIL: letters@pcworld.com
WORLD WIDE WEB: www.pcworld.com

MAIL: PC World 501 Second St. #600 San Francisco, CA 94107

ADVERTISING SALES

vp/publisher, pc world magazine Wayne Silverman (201/634-2318)

EAST

Midwest/Southeast/Northeast/Eastern Canada SENIOR ACCOUNT MANAGER Kathy McKay (847/759-2723) SALES ASSOCIATE Shari Redan (508/370-0819) Connecticut/New Jersey/New York/Pennsylvania (201/634-2317)

WEST

Orange County/San Diego/Washington
ASSOCIATE PUBLISHER/MARKET DEVELOPMENT
Susan Green (949/442-4021)
Idaho/Los Angeles/San Francisco/Texas/
Utah/Western Canada
SENIOR ACCOUNT MANAGER
Jane Evans (415/267-1766)
SALES ASSOCIATE

Billie Sutherland (949/442-4014)
Arizona/Colorado/Montana/New Mexico/
Nevada/Oregon/Silicon Valley/Wyoming

SENIOR ACCOUNT MANAGER Alicia Langer (415/267-4578) SALES ASSOCIATE

Keri Campbell (415/978-3317) SENIOR SALES DEVELOPMENT MANAGER Duane Hampson (415/978-3133)

PC WORLD MARKETPLACE

Neal Mandel (888/254-0711)

PC WORLD REPRINTS

Ashley Rinier (717/399-1900 x125)

CUSTOM PUBLISHING/EVENTS

VP/PUBLISHER, PCWORLD.COM, CUSTOM PUBLISHING Michael Carroll (508/370-0842)

PCWORLD.COM AD SALES

VP/PUBLISHER, PCWORLD.COM, CUSTOM PUBLISHING Michael Carroll (508/370-0842) BUSINESS PROJECTS COORDINATOR Angela Beaudoin (508/370-0841) Northwest

SENIOR ACCOUNT MANAGER Melissa Gruber (415/974-7373) Southwest

SENIOR ACCOUNT MANAGER Cindy Crow (949/442-4005) East

SENIOR ACCOUNT MANAGER
Mark Barreca (732/544-2006)

PCWORLD.COM AD OPERATIONS

AD OPERATIONS AND DESIGN SPECIALIST Kevin Barden (415/975-2673) AD OPERATIONS SPECIALIST Sarah Rose (415/978-3266) AD OPERATIONS COORDINATOR Leilani Lopez (415/978-3125)

MARKETING

SENIOR DIRECTOR OF MARKETING Sandy Wong
MARKETING MANAGER Heidi Tanaka

RESEARCH

DIRECTOR, MARKETING RESEARCH Lisa Huck

PRESIDENT, CEO Jeff Edman

CONSUMER MARKETING

VICE PRESIDENT, CONSUMER MARKETING Shawne Burke Pecar

ASSOCIATE CIRCULATION DIRECTOR David Cobb SINGLE COPY SALES DIRECTOR Holly Drawbaugh DIRECTOR, RETENTION MARKETING LISA RADIES SENIOR SUBSCRIPTION MARKETING MANAGER LINDS Triph

SENIOR RETENTION MARKETING MANAGER
Robyn Patty

SUBSCRIPTION MARKETING MANAGER Jennifer Ma

RETENTION MARKETING COORDINATOR Shavon Burden

PRODUCTION

DIRECTOR, PRINT AND ONLINE PRODUCTION Nancy Jonathans PRODUCTION MANAGER Lisa S. Mireles TRAFFIC MANAGER Eliza Wee

PCWORLD.COM MANAGEMENT

GENERAL MANAGER Ulla McGee
DIRECTOR, BUSINESS AND LEGAL AFFAIRS
Sue Krenek

SENIOR MANAGER, BUSINESS DEVELOPMENT
Brian Buizer
DIRECTOR, ONLINE MARKETING Alexa Wriggins

DIRECTOR, ONLINE MARKETING Alexa Wriggins Online community manager Kellie Parker Newsletter services manager Michael E. England

MEMBER SERVICES SPECIALIST Brian Witchel
ONLINE MARKETING SPECIALIST Ben Veechai

HUMAN RESOURCES

VICE PRESIDENT, HUMAN RESOURCES
Kate Coldwell

HUMAN RESOURCES MANAGER Carina Rivera HUMAN RESOURCES REPRESENTATIVE Jenny Steele

TECHNOLOGY

CHIEF TECHNOLOGY OFFICER AARON JONES
DIRECTOR, INFORMATION SYSTEMS
NOrman Noble
SENIOR NETWORK ANALYST Walter Clegg

NETWORK MANAGER RODINGY Barnes
IT DEVELOPER/ANALYST STAN Erhart
SYSTEMS ANALYST Eileen Quan
NETWORK ADMINISTRATOR Gabe Ramos
DIRECTOR, NETWORK AND INFRASTRUCTURE
SCAN Greathouse

SENIOR SYSTEM/NETWORKS ADMINISTRATOR
Will Schultz

SYSTEM/NETWORKS ADMINISTRATOR John Wang
LEAD SOFTWARE ENGINEER Jim Hulson
SENIOR APPLICATIONS DEVELOPERS
Arturo Flores, Blossom Woo,
Wei Ming Xu, Bill Cappel
APPLICATIONS DEVELOPER Alexis Barerra

SENIOR DEVELOPMENT MANAGER Matthew Newton

PROJECT MANAGER Kayan Wong

FINANCE

SENIOR VP, COO/CFO Vicki Peilen
DIRECTOR, FINANCE Diane Ryczek-Rae
DIRECTOR, ACCOUNTING Michelle Reyes
DIRECTOR, FINANCIAL AD OPERATIONS
Diane Hacker

DIRECTOR, ADVERTISING ACCOUNT SERVICES
Kevin Greene

STAFF ACCOUNTANT Lee Ann Baldwin
ACCOUNTING COORDINATOR Andrew Lyon-Hall

ADVERTISER'S INDEX

Type find.pcworld.com/ plus the five digit number below, to go directly to any advertiser in this list.

and a second second			
Advertiser Page Number	Find-It Address	Advertiser Page Number Fi	ind-It Idress
1&1 Internet Inc. 14-15	53004	Microtek Lab, Inc. 48	53324
1-800-HITACHI 56	53308	MS WSS SOL 2-3	53312
Acer America Corp. 113-120	53256	Nero, Inc. 63	53042
Advanced Toolbar 140	53257	Newegg.com 32-33	53040
Ajump.com 43	53258	Nuance 8	53284
Anthro Corporation 23	53296	PC America 133	53044
AOpen 75	53272	PC Tools 137	53278
ASUS C3	53263	PC World.com Relaunch 2006 12, 127	52710
Buffalo Technology 55	53038	R-Tools Technology 50	53260
Canon USA 18-19	53018	Samsung Electronics 29	53314
CDW Corporation c2-1	53274	Serious Magic, Inc. 111	53266
CDW Corporation 79-81	53290	Siber Systems, Inc. 40	53261
Crucial Technology 107	53254	SonicWALL 93	53270
CyberPower PC 10-11	53006	Systemax C4	53284
Dell Inc. 38-39	53286	ThinkPad 65-66	53294
Kodak 31	53028	Toshiba America 4-5	53300
ESET 97	53310	Transcend Inc. 71	53012
Fujitsu 16	53316	Trend Micro, Inc. 6	53036
Grisoft USA 51	53026	TRENDnet 105	53302
HP 46	53326	USB Implementers Forum 13	53268
HP 89	53298	USRobotics 91	53288
IBM 27	53306	Velocity Micro, Inc 109	53262
Insight 69	53264	Verizon Wireless 35, 37	53030
IOGEAR Inc. 74	53276	XtremeGear 139	53016
Kingston Technology 25	53008	Zone Labs 73	53032
KONICA MINOLTA 59	53279	ZT Group 77	53304
Linksys 131	53010	ZyXELComm. Inc. 44	53014
MAGIX Entertainment 95	53280		

International Data Group (IDG) is the world's leading technology media, research, and event company. A privatelyheld company, IDG publishes more than 300 magazines and newspapers including Bio-IT World, Clo. CSO, Computerworld, GamePro, IntelWorld, Network World, and PC World. The company features the largest network of technology-specific Web sites with more than ADD around the world. IDG is also a leading producer of more than ITO computerrelated events worknowie including turnwikerid Conference and Exposit, Awarworld-Conference and Exposit, DEMON, and IDC Directions. IDC provides global market research and advice through offices in 50 countries. Company information is available at http://www.idc.comp.

FULL DISCLOSUR

STEPHEN MANES

The Best Buying Advice of All: Don't!

AFTER DROOLING OVER all the "Bests" in this issue's cover story, you might be anticipating a purchase or two. Good for you. According to Claudia Senik, a French economics professor recently quoted in the New York Times, the anticipation may give you more pleasure than

the purchase itself. So if that's true, and I suspect it is, don't run out to buy that great new thing. Just wait. Anticipate.

If anybody needs a new PC, it's me. I'm nursing one that was new when Windows 2000 was. But Vista has been delayed again, and as I write this, Microsoft still won't say precisely what kind of machine you'll need to run it. Until the definitive word comes, I won't buy a replacement.

And even after Microsoft does release the hardware specs-perhaps by the time you read this-users like me will think back to last time, when early "Windows XP Ready" machines didn't upgrade perfectly and a driver or six turned out to be the culprit. So we'll probably wait to buy a PC with the new OS preinstalled-after we wait out the first round of bugs and investigate the driver situation for our peripherals. Hey, for now I'm getting something better than a new computer: an extra helping of anticipation!

Vista isn't the only thing flashing a "Wait" sign bigger and redder than the ones at urban intersections. The forthcoming Blu-ray players (see page 20) will be able to deliver high-definition video in the 1080p format, or 1080 progressive lines of information every 60 seconds. Plenty of current TVs can display that format-but their makers don't mention that the sets' inputs typically accept only the half-as-much-info-at-once interlaced 1080i format, which internal circuitry upconverts. The resulting image is far from chopped liver, but since 1080p is likely to remain the highest-res standard for a long time, why get stuck with a display that can't handle it without conversion?

And don't forget copy protection. Pioneers who bought early HDTV equipment are discovering that their pricey

Want to be a happy technology user? It's all in the timing. toys may not work with the schemes Hollywood has devised to put fences around high-def content. The same will likely go for owners of current monitors who try plugging them into new computers that can handle Blu-ray discs and other highdef formats. As Carly Simon says, it's "makin' me late...keepin' me waitin'."

Wi-Fi networking is in the same boat. The latest products (see page 24) conform to a "draft" 802.11n standard not yet ratified. While routers and cards are supposed to work with their brandmates, they may not play well with others and might not be upgradable to the final standard. The upshot: Equipment you buy next year might not deliver all its potential on your "draft" network.

Anticipation may create happiness, but

buying too early leads mostly to frustration. If you sprang for an early-model inkjet printer, an \$800 flat panel with all the reso-

lution of a screen door, or a sub-VGA digital camera, the anticipation almost certainly beat the purchase, which probably has long since been consigned to the garage or the landfill. Procrastinators get better products and fewer headaches.

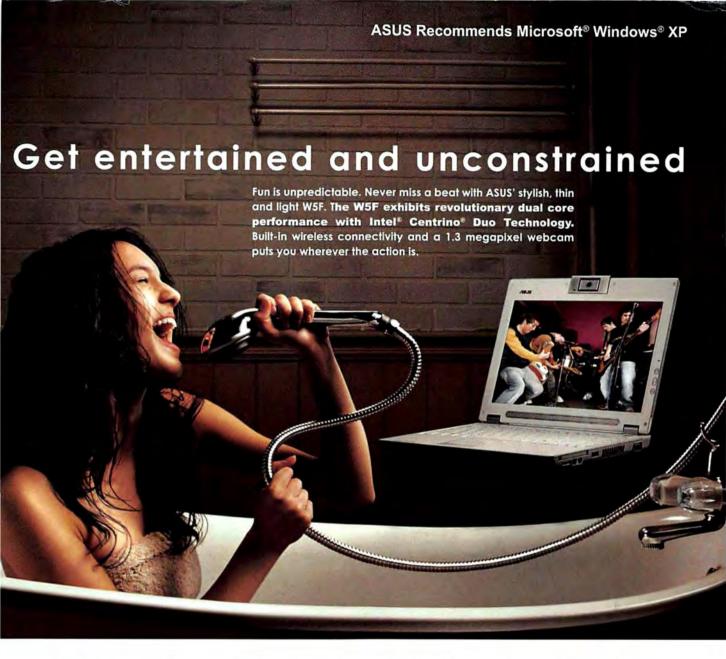
Disagree? I have an original IBM PCjr in my closet I'd be happy to sell you. It may be one of the worst technology products of all time-see page 86-but in its

Contributing Editor Stephen Manes is cohost of PC World's Digital Duo (www.pcworld.com/ digitalduo) on public TV. Visit find.pcworld. com/31595 for more Full Disclosure columns.

day, it was eagerly...anticipated.

Volume 24, number 7. PC World* (ISSN 0737-8939) is published monthly at \$24.95 for one year (I2 issues), \$49.90 for two years (24 issues), \$74.85 for three years (36 issues) by PC World Communications, Inc., 501 Second Street #600, San Francisco, CA 94107. Foreign orders must be prepaid in U.S. funds with additional postage. Add \$12 per year for Canada; add \$30 per year for airmail for all other countries. Canadian 6ST Registration #R124669680. Periodicals Postage Paid at San Francisco, CA glifornia, and at additional mailing offices. Canada Post Publications Mail Agreement #2493993. Returns: 4960-2 Walker Road, Windsor ON N9A 6J3.

POSTMASTER: Send address changes to PC World, Subscription Dept., P.O. Box 37571, Boone, IA 50037-0571. Editorial and business offices: 501 Second St. #600, San Francisco, CA 94107, 415/243-0500, Copyright © 2006, PC World Communications, Inc., 501 Inc. All rights reserved. The trademark PC World is owned by International Data Group and used under license by PC World Communications, Inc. Technology Advice You Can Trust**, PC World Top 10**, Top 10**, Top 100**, Top 100**, and Consumer Watch** are trademarks of International Data Group, Inc., and used under license by PC World Communications, Inc. Printed in the United States.





W5F - Stylish Ultraportable

- · Intel® Centrno® Duo Mobile Technology 12" Ultrabright Widescreen Display
 512 MB DDR2 SDRAM

- 100 GB 5400 RPM Hard Drive
 4x Super Multi DVD-RW DL
- 1.3 Megapixel Swivel Camera
 Microsoft* Windows* XP Home



W2J - Personal Multimedia Center

- · Intel® Centrino® Duo Mobile Technology 17" Ultrabright Widescreen Display
 1024 M8 DDR2 SDRAM

- 100 GB 5400 RPM Hard Drive
 ATI MOBILITY* RADEON* X1600 256 MB
- 8x Dual Layer Slot-Loading DVD-RW
 Microsoff* Windows* Media Center 2005



W3J - Performance in Style

- Intel® Centrino® Duo Mobile Technology
- 14" Ultrabright Widescreen Display 1024 MB DDR2 SDRAM
- 100 GB 5400 RPM Hard Drive ATI MOBILITY™ RADEON™ X1600 256 MB
- · 8x Super Multi DVD-RW DL · Microsoff* Windows* XP Pro



A6Jc - Value and Performance

- Intet* Centrino* Duo Mobie Technology
 15.4" Ultrabright Display
- 1024 MB DDR2 SDRAM
- 100 GB 5400 RPM Hard Drive NVIDIA GeForce Go 7300 128 MB
- 8x Dual Layer DVD-RW
 Microsoft* Windows* XP Pro



New Egg NewEgg.com 800.390.1119

PC Club PCclub.com 888.972.2582

Zip Zoom Fly ZipZoomFly.com 510.739.1890



Systemax

Systemax Recommends Microsoft® Windows® XP Professional

School is right around the corner -- are you ready? Systemax has teamed up with Intel® to bring you the best deals on the Intel® Pentium® D Processor to make sure you are! The Intel® Pentium® D Processor features Intel® dual-core technology giving you an extra powerful gear when you need it. Systemax PCs are 100% assembled and supported right here in America 24 hours a day, 7 days a week.







Venture HU²

- Intel® Pentium® D processor 805 now featuring two processing cores
- Microsoft® Windows® XP Home
- 512MB Memory
- 200GB Hard Drive
- 16x Dual Layer DVD Burner
- Systemax Keyboard & Mouse
- Integrated 10/100 NIC
- **Integrated Video**

SYXS-DB-989243 \$49999

- Intel® Pentium® D processor 805 now featuring two processing cores
- Microsoft® Windows® XP Professional 1024MB Memory
- 200GB Hard Drive
- 16x Dual Layer DVD Burner
- Systemax Keyboard & Mouse
- Integrated 10/100 NIC
- **Integrated Video**

SYXS-DB-989244 \$59999

Pentium[®] D inside"

intel

Dual-core. Do more.

See Our Complete Line of Intel® Desktops, Notebooks and Servers Starting From Just \$29989!

www.TigerDirect.com/Systemax Or Call 1-800-445-2721