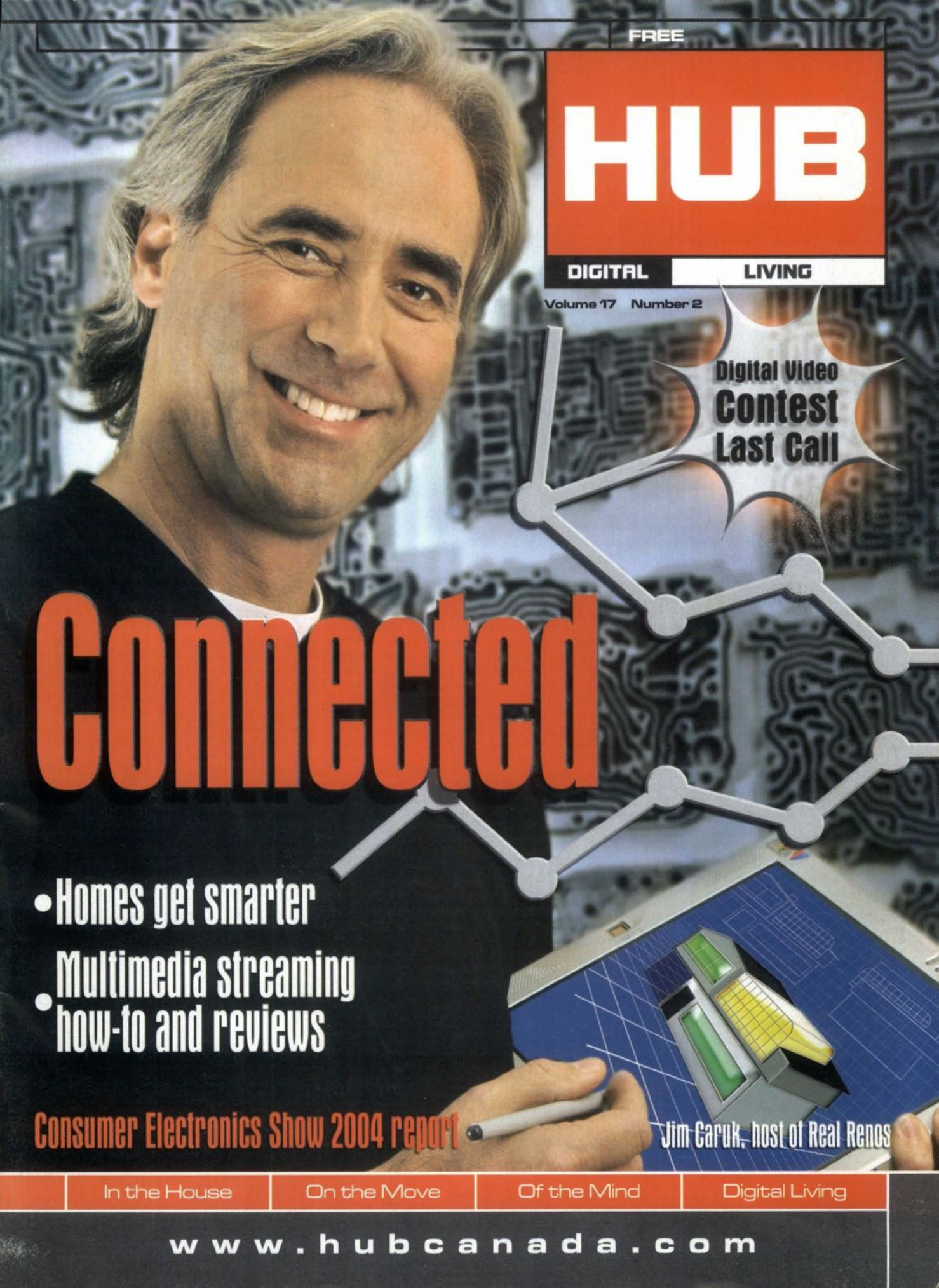
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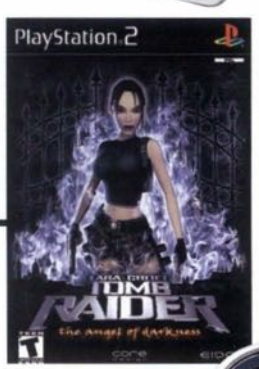

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Editorial

Megan Johnston

In early January, HUB headed down to Las Vegas for the 2004 version of the Consumer Electronics Show. Not only were there more visitors (nearly 130,000) and exhibtors (about 2,500) this year, there had to be more plasma, LCD, and DLP televsions in the 1.38 million sq. ft. of exhibit space than in all of Canada... OK, maybe just Western Canada. Suffice it to say, there were a lot, and that was only one of the overwhelming aspects of the annual tradeshow and exhibition. The main message driven home by CES was the anticipation by manufacturers that consumer interest in digital home devices and personal electronics will only continue to boom in 2004, based on increased sales in almost every product category in 2003. According to research conducted in the U.S. by the Consumer Electronics Association (which runs CES), sales increased even in those categories thought to have reached a plateau: PCs and wireless phones. PC sales rose by about 15 percent over 2002 and wireless phone sales jumped by 20 percent over the previous year. Not surprisingly, MP3 player sales in 2003 eclipsed 2002 by 121 percent. That optimism should translate into lots of new products, and lots to write about, in 2004.

— Megan Johnston, Editor

Letters

I was just at a movie a couple of days ago and saw the public service announcement about downloading movies. I actually sympathized with the stuntman who was talking. That is until I read [January's] editorial. Why are they targeting money paying moviegoers? It actually interfered with my enjoyment of the movie at the beginning because I thought of the people I know who download movies. The funny thing, though, is that the person I know who downloads the most movies also goes to see a movie in a theatre once a week. I wonder if the industry is keeping statistics on that?—Kim Steggall, Stittsville, ON

Just picked up HUB: Digital Living from the local library, and I noticed the article "Feeding your video aspirations" []... Man, am I glad I came upon this article! For a person who's just getting his feet wet into digital camcorders (I had an old. hand-me-down VHS-tape camcorder that's as big as one of the television cameras!), this article helped me.... For someone who didn't know the difference between FireWire and firewall, well, [it] helped me understand a lot about what to look for in camcorders, how I can use the computer to help enhance my videos, and help me realize how much there is to offer other than just pointing and shooting. Then again, with my old VHS monster, it was already hard enough to shoot with, just due to weight alone. — Jason, Vancouver

Letter of the month contest

The prize this month goes to **Marc Ouellette** of **Ottawa**:

My digital dream home doesn't exist yet. Imagine, if you will, a microchip the size of a grain of rice, implanted under the skin in my right wrist. The microchip in itself is not the technology of the future, but it is the key to a world of digital technology. Upon entering my digital dream home, sensors located in every room will sense the presence of the implant and customized controls will activate. Doors will open as I come near them, and close behind me. Lights will come on, my favorite digital music will play.... The home computer will also be integrated. Using a "virtual keyboard," hand movements in the air will control the entire computer experience. Finally, the Smart technology built into the chip implant will also monitor the wearer's health. Should the heart rate flutter or blood pressure suddenly drop, the sensors of the house will detect it and call for medical help immediately.

Fujifilm Canada is giving away a digital camera for the best letter of the issue. The camera is its new pocket-size **Fuji FinePix A205**, a 2.0 megapixel model, with 3X zoom, and 1.5-inch colour LCD monitor for reviewing shots and navigating the commands. This month, in addition to feedback on the issue, tell us what technology you can't live without and why. Drop us a line at **letters@hubcanada.com**.

HUB

DIGITAL LIVING

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The 2004 edition of the International Consumer Electronics Show (better known as CES) showed once again that the lines between consumer electronics and computer technology are blurring to the point that it's hard to tell where one ends and the other begins. HUB editors were among the 120,000 visitors at the Las Vegas conference. Here are some highlights from the show.

By Sean Carruthers

Windows Media goes portable

Despite the success of portable digital audio, portable digital video has been slow to get started. Companies like RCA and Archos have released portable players that can handle video files, but compatibility with different types of video has been weak. At CES, Microsoft (www.microsoft.com) and Intel (www.intel.com) both showcased new products using a mobile version of the Windows Media Centre interface, including products from Samsung (www.samsung.com), iRiver (www.iriver.com), ViewSonic (www.viewsonic.com), and Creative (www.creative.com). At its booth, Creative showcased its forthcoming Zen Portable Media Center, which is somewhat larger than most hard drive MP3 players but about the size of other portable video players. New devices using this interface will play audio files, display photos, and play any video files that can be played by Windows Media Player. The downside: you can't record video directly onto these new devices yet, but since they will sync up nicely with your Windows Media library, they should be fairly easy to use if you're already using Windows Media Player to manage your content.

In addition to the Zen, Creative (www.creative.com) introduced new digital audio players. The MuVo TX line retains the USB memory key style, but increases the memory to up to 512 MB and upgrades the interface to USB 2.0. The larger mini hard disk MuVo2 line is now available in capacities up to 4 GB. The company, which has had success with Web cams and Web/still cams, also showed off two new digital still cameras.

Creative's other new products

At a special early-morning event, Sprint (www.sprintpcs.com) showed off a number of new phones as part of its PCS Vision service. The service allows subscribers — for a fee, of course — to download games, ringtones, photos, and more, and to upload photo and video content captured on the phones. Journalists got to try out the Sanyo (www.sanyo.com) VM4500 throughout the show, exchanging video email, connecting directly to each others' phones using the Voice Over IP-based R-Link service (similar to Telus Mobility's Direct Connect function on Mike handsets) and showing off downloaded ringtones. (For the record, I downloaded a Beyoncé tune to my phone, but only after searching for Devo and Kraftwerk.) Unfortunately, the data services don't currently work in Canada, so if you don't spend a lot of your time in the U.S., you'll have to wait for Canadian carriers to update to a 3G network before you can take full advantage of the features found on the Sanyo phone.

Sprint camera phone

At CES 2003, Microsoft's Bill Gates talked about the connected watch, and now the technology is finally getting into the hands of... make that onto the wrist of consumers. SPOT Watch models will be available from Fossil (www.fossil.com) and Suunto (www.suunto.com). They feature a receiver that scans the FM airwaves for information addressed to them, such as weather data, MSN messenger messages, news, stock updates, and more. The watches will also sync with your MSN information. It piggy-backs on local FM radio signals, which means the watch can receive information but not send any. While the SPOT Watches aren't available in Canada just yet, there will be data coverage for the watches in several Canadian cities, including Ottawa, Victoria, and Toronto — though oddly not in Vancouver or Montreal yet. Now it's just a matter of time before you start receiving spam on your watch!

SPOT Watch is finally spotted

Continued on page 22

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Getting smarter

Digital dream home getting closer to reality

It was, literally, a full house at the Consumer Electronics Show in Las Vegas in January.

This year, traditional consumer electronics makers were joined by manufacturers with backgrounds in personal computing technology, but who are vying for their place in the growing digital home environment.

In addition to a sea of flatter and bigger TVs and smaller and more colourful MP3 players, CES 2004 showcased smart home technologies. A wide range of companies unveiled new products and services to help users share content stored remotely on PCs and media servers (see reviews, page 10) and to control all aspects of the home, including lighting, security, and heating. The approach these companies have to making your home smarter depends largely on their areas of expertise.

Wire-ish

Not quite ready to for wireless? There is a still way to get the wireless look for various cables connecting your networked devices, as well as power cords, and speaker wires. At the recent Consumer Electronics Show in Vegas, Decorp (www.decorp.com) was showing off its Flat Wire solutions, which include a full line of voice/data, audio, video, and electrical wiring that is so thin it can be applied to a wall or ceiling and painted over so it virtually disappears. At 1/800th of an inch (the thickness of a business card), the Flat Wire cables and and power cords are attached with a spray adhesive, covered with a thin compound to even out the surface, then painted to match the wall. An alternative to costly rewiring. Decorp chief executive, Robert Sexton, says they'd like to see their products sold everywhere that currently sells common electrical products like extension cords, such as hardware stores and supermarkets. For now, though, they are available through the U.S.-based Decorp Web site.

Survey says...

A Parks Associates/Consumer Electronics Association survey of consumers to find out what features they want in a smart home found:

- 30% would like to use Internet to monitor their homes;
- 36% want their homes to email them at work about happenings like deliveries and children arriving at home;
- 55% are interested in systems that warn them when appliances are left on;
- 55% would like thermostats for each room and water heaters that automatically adjust themselves to save energy.

Extending the PC

Not surprisingly then, Microsoft's take on home connectivity focuses on software. During his CES keynote address, Microsoft chief Bill Gates unveiled Windows Media Center Extender Technology, software that piggybacks on the Windows Media Centre PC platform. The Extender Technology literally extends the processing and storage capabilities of a Windows Media Center PC to Extender-enabled devices no matter where they, or the PC, are in the house. So, with a remote control, and Extender-enabled TV, for example, one family member could select music, record television programs, or view photos — all of which reside on the PC — in one room of the house while the computer is being used by another family member in another room.

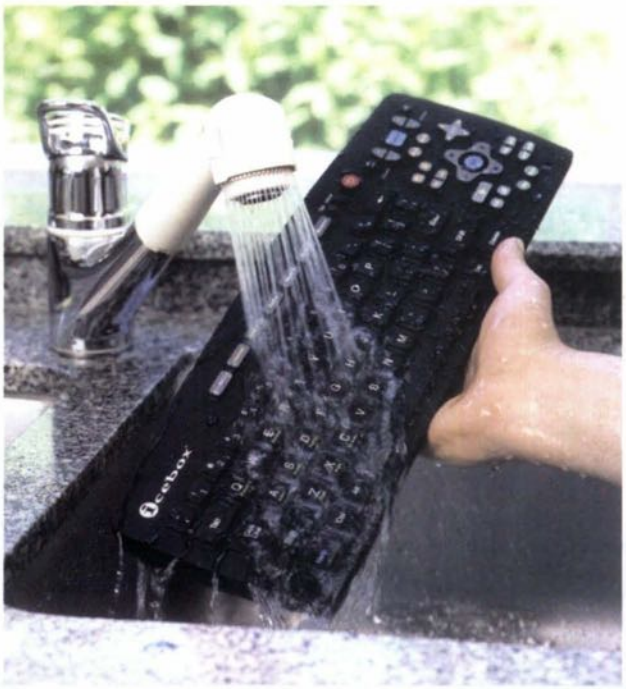
The Extender Technology was in use in the Next Gen Demonstration Home (www.nextgen04.com) at CES, which had flat-screen TVs in each room, all of which could access the content on the home's Windows Media Center PC, as well as lighting, heat, and security controls. The latter was thanks to home automation products from HAI (www.homeauto.com), which were not directly controlled by Extend, but accessed via the Internet. (HAI controls are available through home automation dealer/installers.)

Microsoft says it is working with consumer electronics makers, such as Dell, Gateway and Samsung, to develop Extend Technology-enabled devices, which it expects will be available later this year.

At CES, Microsoft also announced the Xbox Media Center Extender Kit (an Xbox DVD title with a dedicated remote control), allowing users to access a Windows XP Media Center PC using an Xbox game console.

Beyond the hot plate

With its background in hot plates, waffle irons, and coffee makers, Salton (www.salton-inc.com) is perhaps one of the more ambitious participants in the smart home sweepstakes. But it actually unveiled its first connected home product — the icebox, from subsidiary Beyond (www.beyondconnectedhome.com) — at CES 2003. The icebox is a combo TV, radio,



DVD and CD player, video monitor, and Internet appliance with a touch screen designed for use in the kitchen.

This year, Beyond added several new smart appliances — a microwave oven, bread maker, and coffee maker — to its Connected Home line. The microwave and bread maker both have bar code wands for scanning food packages, automatically giving the appliances cooking and baking instructions. Both come programmed with product barcodes, but, in conjunction with the Home Hub, they can get updates when new information is available.

The Home Hub looks like a large alarm clock, and was displayed in a bedroom environment in the Beyond Connected Home booth at CES. The Home Hub incorporates a radio, CD player, family calendar, and Web interface, and displays time and weather forecasts on its adjustable screen (so you can see it lying down). Not only does it provide the microwave and bread maker with updates, it will tell you when the coffee's ready before you get out of bed. Beyond's new line is expected to range in price from $130* to $240* for the appliances and $660* for the Home Hub. The icebox currently sells for about $3,000*.

Beyond representative, Graham Drage, said the new line was not currently available in Canada, but expected it would be as other lines from Salton are popular here.

Behaviour modification

With a background in custom, proprietary home automation, CasaWorks (www.casaworks.com) is a veteran in the field of high-end home networking. Company president, Mike Arendall, said they developed the hardware- and software-based Cielo Home Management System to make home control and automation systems available to more homeowners without complicated programming and installation issues.

Cielo's approach is to use predefined out-of-the-box home behaviours to control home electronics and as well as lighting, climate, security, and entertainment systems. With a Pocket PC, Tablet PC, Web pad, or Windows PCs (running XP or 2000), the user can specify their preferences, which are recorded, and used to manage the home. Cielo supports a long list of wired and wireless standards, allowing it to integrate with a wide range of lighting, alarm, and thermostat systems. In addition to automating the home, CasaWorks will be dipping its toes into the content-sharing waters with the launch of Medio media client and server hardware and software, which will integrate with Cielo. The Medio line will be available by fall and the Cielo system by the end of the year through home automation dealer/installers

Look and feel and sound

Because new connected devices are breaking out of the home office, developers have to make design considerations that weren't necessary when the humble computer's key role was as a work tool banished to the basement or home office. Among the changes, has been more attention taken to aesthetics (a lot of brushed metal finishes, for example) and to noise.

One company, HUSH (www.hushtechnologies.net) makes fan-less PCs and music servers designed with the living room in mind. In addition to being silent, HUSH says the lack of fans in its computers minimizes the dispersal of dust and other allergens. The basic HUSH models have at least 120 GB hard drives, which puts them at a starting price of $2,400 (ATX PC) and $2,800 (music server) for these sleek devices. (A list of resellers, including two in Canada, is on the HUSH Web site).

In designing the icebox for the kitchen, Beyond made sure its peripherals were durable. The keyboard, for example can be run under the tap if needed. Beyond representative Drage said user feedback found an unintended benefit to the icebox's touchscreen design. New parents liked the fact that they could navigate the icebox interface with one hand, while holding a baby in the other.

(*Converted from US dollars.)

Smart, but not too smart

According to Consumer Electronics Association research, there is significant consumer interest in appliances that indicate their need for service (43 per cent) and prepare shopping lists (37 per cent). However, about three quarters of those surveyed said they'd like the appliances to simply inform them, rather than ordering goods and services themselves.

If it's nay Scottish...

...chances are VoiceBox (www.voicebox.com) will understand it. VoiceBox is a "natural language voice-driven retrieval platform" that, in conjunction with a microphone/speaker system called the Media Companion, lets you navigate the Windows XP Media Centre interface by voice. VoiceBox Technologies' vice-president of marketing, Tom Freeman, demonstrated the software in the kitchen at CES's Next Gen Demonstration Home. According to Freeman, training VoiceBox to recognize your voice is as simple as reading eight sentences to it. It has been successful in understanding a wide range of accented English: from a strong Boston to a variety of Asian accents. Unexpectedly, it had trouble with Scottish accents; "something to do with the way they twist their vowels," according to Freeman.

Room-to-room multimedia

The leading edge of the connected home

One of the hottest electronics product categories today is multimedia sharing, and no wonder: people are amassing huge libraries of digital media files — music, photos, and videos — but having to sit down at the computer in a home office to access them is not ideal. With a multimedia sharing setup, you can keep your files safely on your PC but stream them to a multimedia receiver located elsewhere in the home, and enjoy your media either on a home stereo, television, or home theatre setup.

The category isn't new — Turtle Beach introduced the Audiotron (www.audiotron.net) a couple of years ago — but the latest products are more user friendly, fetching your audio files with the aid of software on your PC rather than forcing you to learn about networking to make sure everything functions smoothly. And with the introduction of wireless networking, you can set up these new products anywhere in your house without having to hide the wires. (All of these wireless products support 64- and 128-bit WEP encryption, so you can share your music wirelessly and maintain basic WiFi security.)

If this sounds like the multimedia solution for you, there are few things you need to keep in mind. First, you'll need a home network set up, either wired or wireless, if you want to use these devices (see "Connected," page 13). Then, if you have firewall software running on your PC or firewall hardware, you will probably have to spend some time configuring things so your wireless receivers will be able to communicate with your PC.

We were running Norton Internet Security on our test machine, and the program reacted as if the wireless receivers were remote computers attacking the PC. It let us know that the security software was working, but it meant going into the manual configuration in a couple of cases to set allowable types of access from within our own network. After a bit of tinkering, everything worked as it should.

Lastly, the media-sharing software installed on your PC can be fairly resource-hungry, specifically with your memory. If your PC already uses most of the installed memory, seriously consider adding more before trying to use one of these products, especially if your media library is extensive.

Audio only

Creative Sound Blaster Wireless Music

www.soundblaster.com Estimated price: $349

Creative has long been the brand to beat when it comes to audio on the home computer, with a fantastic reputation for both its audio cards and its portable digital audio players. It's not a surprise, then, that the company jumped into the world of media-sharing within the household. With the Sound Blaster Wireless Music, Creative has stuck with what it knows best: the product handles Windows Media Audio (WMA) files and MP3, but does not even attempt to share photos or video.

The Wireless Music uses 802.11b wireless networking to connect to your home computer. There is no 10/100 Ethernet port, though it can hook up to a PC using a USB connection for initial setup. Because the Wireless Music doesn't connect to a television, the rear panel features audio connections only (and RCA stereo pair or optical out). The stereo audio cable and USB connector both come included in the box.

Because it is audio only, you can't use a television display to make music selections. Instead, there is an LCD on the remote control, which connects to the Wireless Music via radio frequency (RF). This innovative touch means you don't have to point the remote directly at the receiver — in fact, you don't even have to be in the same room to choose your tunes. The downside is a slight lag when using the remote: it can take a second or two after pressing the power button for there to be any indication that it has received the command, for example.

Because the Wireless Music is powered on and off and controlled from the remote, there's only one button on the front of the unit itself, but it's a good one: Find Remote. If you've misplaced it and press this button, the remote will beep.

Unfortunately, the Sound Blaster Wireless Music is a bit pricey when you consider that it only handles music; you're likely paying extra for the remote. Thankfully, despite the lag, the remote works quite well, allowing you to sort through your entire audio collection — by artist, song, album, and more — in a fairly intuitive manner.

Audio and photos

Linksys Wireless-B Media Adapter (WMA11B)

www.linksys.com Estimated price: $250

Linksys has made a huge splash in the world of home networking, offering many products for the networking neophyte, both wireless and wired. The Wireless-B Media Adapter uses 802.11b to connect to your home network, allowing you to share music files (WMA and MP3) and photo files (JPEG, GIF, TIFF, and BMP), but not video.

It has stereo RCA connectors on the rear for your audio, but no optical connection. Because it shares photos, it comes with a composite video and an S-Video connector for hooking to your television or VCR. Stereo audio and S-Video cables are included in the box.

Though it has integrated 802.11b wireless (and features an adjustable antenna to maximize reception), it also has a 10/100 Ethernet connector on the rear for wired connections. All of these rear connectors can be tidied up with the included "cable hood," which snaps on over the connectors.

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The on-screen menu system is very straightforward and easy to use, and it's even possible to set up the wireless component with the remote control once you've hooked the Media Adapter up to a display (or you can set it up using your PC and the configuration software). The simple and intuitive menu system makes it an absolute joy to use. Even though it doesn't handle video, it's easily our current favourite media-sharing product.

Audio, photos, and video

Pinnacle Show Center

www.pinnaclesys.com Estimated price: $388*

Pinnacle has a long history of working with video (see reviews of its home DV editing and capturing products in HUB January), so it's only natural that its foray into home multimedia sharing would include video, in addition to audio, and photo sharing.

With its brushed silver finish and component-style design, the Show Center looks like a DVD player or tuner module, so it won't look out of place next to your home theatre components. The wider design also means a wide variety of audio and video connectors on the rear of the unit: two separate RCA stereo outputs, digital coax and optical connectors, as well as S-Video, composite, and component video outputs. The component output is a nice touch, because it means that the Show Center can be used with many computer monitors and plasma displays in addition to televisions and VCRs. It also has a special output that can hook up to an adapter for use with standard VGA monitors (adapter available separately unless you buy the special bundle that includes it).

By default, the product is designed for wired connectivity (10/100 Ethernet): it comes with a 9 m (30 ft.) Ethernet cable (to connect to your network) and a 4.5 m (15 ft.) crossover cable (to connect directly to a PC). It also has a PC Card slot on the rear for adding 802.11b wireless connectivity. It's important to note, however, that there are very few cards that are compatible with the unit. You'll want to check the Pinnacle Web site before purchasing a card. If you choose an incompatible card, the Show Center may not fire up at all, or may start to work and then fail. Despite the modular nature — and theoretic ability to upgrade to 802.11g later to improve video quality over a wireless connection — this is actually fairly annoying if you're not in the mood for troubleshooting.

Unfortunately, that's not the only problem. The remote control is less-than-intuitive, forcing you to press the A or B keys when other keys would seem more intuitive, and the play controls don't always work the way you'd think in certain applications. Spending some time familiarizing yourself with the manual will definitely pay off. The lack of immediate user-friendliness, though, is a serious liability in a product designed for the home user. The on-screen menu is better, with fairly easy navigation, but you still have to set up some preferences in the configuration menus ahead of time (such as making "full-screen" the default way of viewing photo slideshows).

The bottom line with the Show Center is that it's a potentially great and full-featured product that needs a little work on the user interface to truly take off.

SMC EZ-Stream Universal (SMCWMR-AG)

www.smc.com Estimated price: $349

The EZ-Stream Universal was the first of the wireless multimedia-sharing devices we got our hands on, and it's also one of the most full-featured, sharing music, photos, and video files using a dual 802.11a/11g wireless networking component. This latter feature is key because the 11a/11g combination allows you to connect to almost any wireless network currently available for the home or office environment.

The rear of the unit is fairly basic, with RCA stereo jacks for audio output and a composite video connector (no digital audio, no S-Video). There's also a 10/100 Ethernet port if you'd prefer to connect via cable instead. Once you're hooked up to a display, you can configure your wireless setup using the remote. The menu system, however, is less easy to navigate than desired. Consequently, it's easier to configure it using a wired Ethernet connection. The device sits upright on a fairly flimsy plastic stand but it also seemed to work fine resting on its side without the stand.

The PC software client is fairly easy to figure out, but has one kink: if your library of media files is hefty, the media server software has a tendency to eat up your CPU cycles while it's building all the information for your media library. And that takes quite some time: we left it running overnight on a 3 GHz Pentium 4 processor, and it was still running at maximum CPU usage the next morning. It's always a problem when any program revs up your CPU to that extent for extended periods, because it means the machine running the software can do little else, and all other applications grind to a halt.

With smaller libraries everything seems to work fine, but if you have a lot of content you want to share, you may also run into this problem. (It's also worth noting that SMC tech support is aware of the problem and is working on it.)

The remote control has buttons that allow you to switch directly to Audio, Internet Radio, Pictures, and Video with a single touch. The menu navigation could stand to be a touch more intuitive, but you get used to it fairly quickly.

Again, the EZ-Stream Universal is a potentially great little product, but the client software problem is a pretty major issue if your media library is extensive. Once it's dealt with, the product will be without peer.

By Sean Carruthers

(*Converted from US$299.)

Connected!

Setting up a home network

In the past, networking was something you didn't have to worry about unless you were in the IT department. But today, there are more and more reasons to set up a home network: the typical household has more than one computer, and a plethora of networked devices like printers, and multimedia receivers are being introduced. The latter devices allow you to share the music, images, and/or videos on your PC with the stereo and/or TV in other parts of your home. The main question for many households now isn't whether or not to set up a home network, it's whether it should be wired or wireless.

Wired

For small spaces, wired networks may be the easiest solution, as long as you don't mind Ethernet cables strung around your work or living space. While you can certainly connect your computers directly to each other, it requires a knowledge of networking most people don't want to be bothered with.

Instead, consider a broadband-sharing router. These devices hook directly to your DSL or cable modem, allowing you to share a single high-speed Internet connection among all of your computers. Even better, the routers create a home network behind a modest firewall, allowing you to share files between your machines without worrying about outsiders snooping around your machines. Some of these broadband-sharing devices also include a parallel port, allowing multiple computers to access a single printer.

The downside is that most sharing devices have a limited number of 10/100 Ethernet ports, which means you'll have to buy additional hubs as your network expands.

The good news is that all you need on machines you want to connect to your network is a standard Ethernet port.

Wireless

For many people, wireless networking is the way to go. With a wireless broadband-sharing device, you have the functionality as with the wired version (including wired ports on the back) as well as a radio transmitter/receiver inside that allows multiple wireless connections from computers or other devices equipped with wireless networking components.

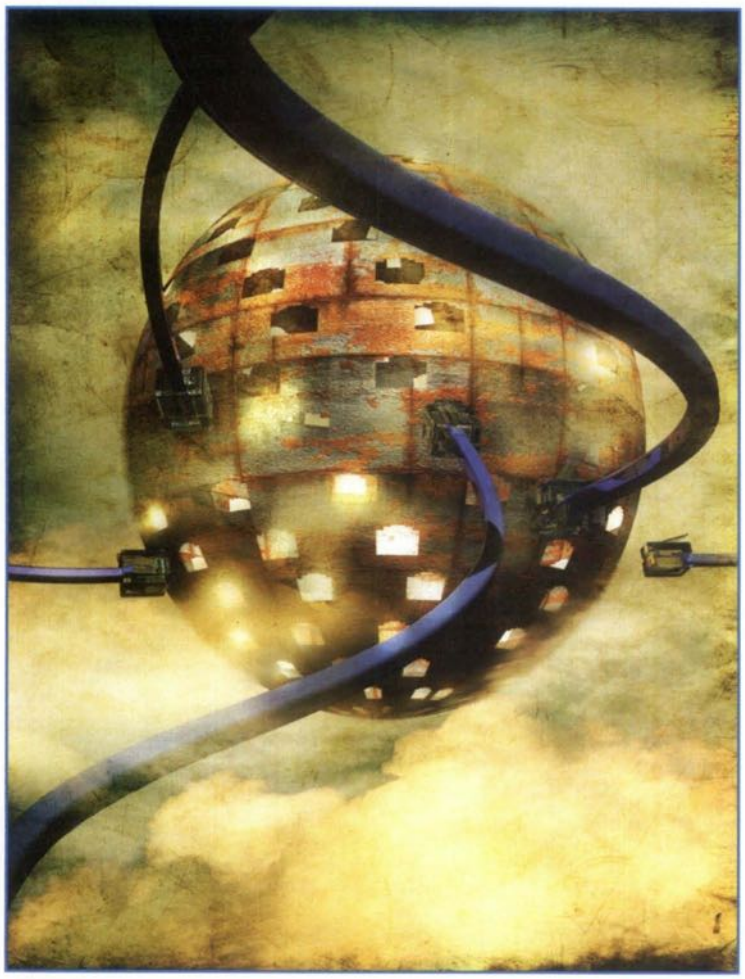
Because the price difference between wired and wireless routers is minimal, it's probably better to invest in the wireless version if you're just setting up a network, because it gives you room to grow down the road.

The big sacrifice with wireless is speed: wired networking typically offers 100 Mbps, but wireless is a fraction of that. The most popular wireless standard is 802.11b, which is 11 Mbps; the newer 802.11g is 54 Mbps and is interoperable with 11b wireless products (though only at the slower 11 Mbps speed). It's not even worth considering 802.11a for home use at this point, because the technology has a shorter range, costs more, and isn't compatible with either 11b or 11g products.

Wireless products can connect to a wireless router from about 22 to 30 m (75 to 100 ft.) away. If there is a lot of building material (especially metal or concrete) in the way, however, the signal starts to degrade. You'll typically have good reception in wood-based houses, but if you're in a condo with concrete walls and floors it probably won't work as well.

If you already have a wired network, but want to add wireless, it's usually as simple as plugging an access point module into your wired network. Access points are typically available from all of the manufacturers that offer wireless broadband routers, but since they're often similarly priced, you may want to skip the access point and opt for the full broadband router— especially if your current wired network could use an upgrade.

By Sean Carruthers



Resources

Some online resources for more information on wired and wireless broadband sharing products, access points, and more:

www.3com.com
www.belkin.com
www.dlink.ca
www.gvc.ca
www.linksys.com
www.microsoft.com/hardware
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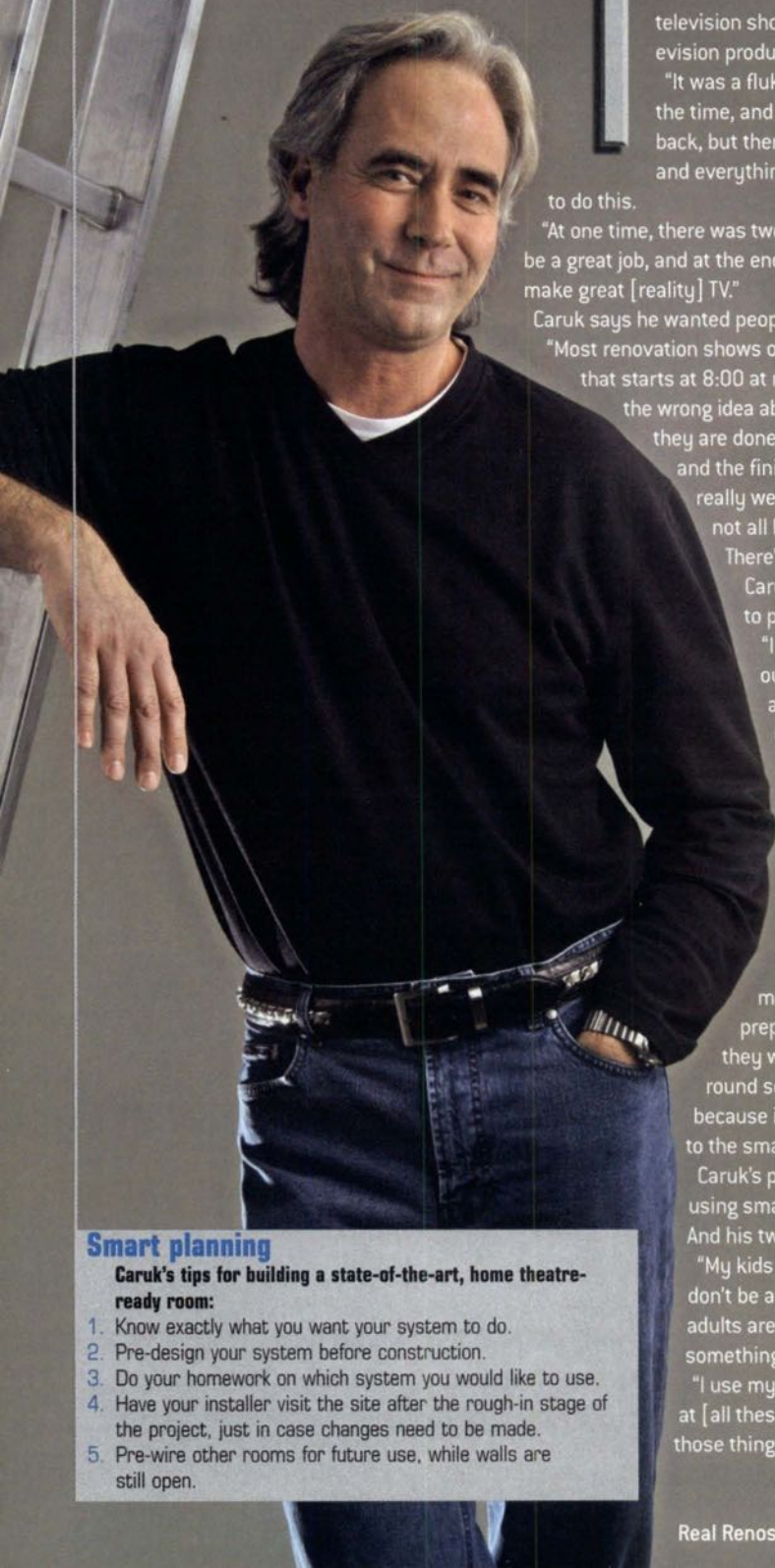
Jim Caruk



Toronto-based contractor Jim Caruk hosts the HGTV show Real Renos, an entertaining and unique Canadian home renovation show. Unlike other renovation shows, Real Renos provides a down-to-earth, honest, documentary-style look at what is actually involved in doing a major home renovation. The show is shot on location and the working dynamic between Caruk and his crew, and their methods of dealing with the pitfalls of renovations, are as funny as a good sitcom.

Caruk turned his expertise in renovations into a television show after doing a particularly unpleasant job for a client who was a television producer.

"It was a fluke. We were doing a job for a client who happened to be a producer at the time, and it was a nightmare job," he says. "We had to do an addition at the back, but there was no way to get to the back, so we had to dig under the house, and everything had to be done from underneath the house. It took seven months to do this.

"At one time, there was two feet of mud in the basement. It was a nightmare, but it turned out to be a great job, and at the end of it all we were still friends. She thought that it would probably make great [reality] TV."

Caruk says he wanted people to get a candid look at the renovation process, both good and bad.

"Most renovation shows on the air didn't really give you the goods on the whole thing. A show that starts at 8:00 at night and by 8:30 the renovations are already finished — people get the wrong idea about how it really is. These types of shows are done on a set, and they are done over and over until it's done right. All [the viewers] see is the start and the finished product so there's nothing in between — you don't know how it really went. Our show is about the reality of what a real renovation is like. It's not all bells and whistles. There's a lot of heartache and emotion. There's anger."

Caruk made sure the producers of the show understood what he wanted to portray.

"I said to the producers, I'd love to do the show, but I want to do it from our end and actually show the viewers what really goes on. If [they] are not ready to get in to something like this, then buy a new house. If you're not ready for the renovation, then don't do it because either you'll lose your marriage or you'll go nuts — one or the other."

Once traditional in its approach, technology is also changing the renovation business.

"We're getting asked more and more about the 'smart homes' where everything's programmed. We're doing one now where they contracted [Toronto electronics shop] Bay Bloor Radio to do it — all the audio, all the flat screens, plasmas.

"About 75 per cent of the houses we do now, maybe even a little more, are going this way. Everybody's at least getting roughed in for it, prepared for it. Maybe they can't afford all the equipment right away, but they want to pre-wire the house for everything, be it sound, lighting, surround sound. Media rooms are also big now. It's still a learning curve, because it's coming in so fast. In the last two years it's just all started relating to the smart house."

Caruk's personal use of technology includes plans for a home theatre and using small business computer technology for invoicing and giving estimates. And his two kids, 12 and 17, are teaching him about the rest.

"My kids teach me more than anybody else. My oldest daughter said 'Dad, don't be afraid to push the buttons — that's what they're there for.' She says 'All adults are afraid to push the buttons — you're afraid you are going to wreck something. Just push it!'

"I use my cell phone for sending and ending. They take it and say 'Oh, dad look at [all these features].' At four and five years old they were already wizards on those things."

By Jessica Malone

Smart planning

Caruk's tips for building a state-of-the-art, home theatre-ready room:

1. Know exactly what you want your system to do.
2. Pre-design your system before construction.
3. Do your homework on which system you would like to use.
4. Have your installer visit the site after the rough-in stage of the project, just in case changes need to be made.
5. Pre-wire other rooms for future use, while walls are still open.

Real Renos airs Sunday evenings on HGTV. Check local listings for times.

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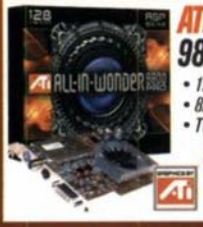

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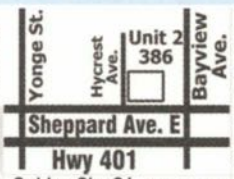

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- Enlight Mid-Tower Case w/ 7 Bays & 2 Front USB
- Enlight True 360W ATX Power Supply
- 4- USB 1.1 Ports, 2- USB 2.0 Ports, 2- Serial Ports & 1-Bi-Directional Parallel Port
- Asus v9520/TD GeForceFX 5200 w/ 128Mb
- Sony 52x24x52 CD-RW Drive w/ Burn Software
- Sony 16X DVD-ROM Drive w/ 40X CDROM support
- On-board 6-Channel Digital Surround Sound
- Labtec Arena 645 w/ 5 Speakers & Subwoofer
- On-Board 10/100 PCI Full Duplex Network Adapter
- Samsung 955DF 19" Digital .20hdp CRT Monitor
- Keytronic 104 Enhanced Soft-Touch Keyboard
- Microsoft Wheel Mouse Optical Mouse w/ Pad
- MS Windows XP Home OEM w/ CD and Manual
- **5 Years Labour & 1 Year Parts Warranty**

AMD Athlon XP-2000+	$1209.99 or $44/mth
AMD Athlon XP-2400+	$1234.99 or $44/mth
AMD Athlon XP-2500+	$1249.99 or $46/mth
AMD Athlon XP-2700+	$1284.99 or $47/mth
AMD Athlon XP-2800+	$1314.99 or $48/mth
AMD Athlon XP-3000+	$1394.99 or $51/mth
AMD Athlon XP-3200+	$1409.99 or $52/mth
Intel Celeron-2.4GHz	$1254.99 or $46/mth
Intel Celeron-2.6GHz	$1279.99 or $47/mth
Intel Celeron-2.8GHz	$1324.99 or $48/mth
Intel Pentium 4-2.6B- 512k	$1379.99 or $50/mth
Intel Pentium 4-2.6C- 512k	$1394.99 or $51/mth
Intel Pentium 4-2.8C- 512k	$1434.99 or $52/mth
Intel Pentium 4-3.0C- 512k	$1519.99 or $51/mth
Intel Pentium 4-3.2C- 512k	$1674.99 or $56/mth

PREMIER CHOICE BLACK

- Asus P4C800/Dlx Motherboard for Intel Pentium 4 or Asus A7N8X-E Dlx Motherboard for AMD CPUs
- Panasonic 3.5" - 1.44MB Black Floppy Disk Drive
- 120Gb SATA/150 Hard Drive @ 7200RPM w/ 8Mb
- 512Mb DDR RAM, PC3200, 184 Pin RAM Memory
- G3 Mid-Tower ATX Case w/ Window & Lights
- Enlight True 420W ATX Power Supply w/ 2 Fans
- On-Board SATA Raid Controller & Ultra/133 Support
- 6- USB Ports and 2- 1394 Firewire Ports
- Sapphire Radeon 9600 w/ 128Mb & DVI, TV-Out
- Sony 52x32x52 Black CD-RW Drive w/ Burn Software
- Sony 16X Black DVD-ROM Drive w/ 40X CDROM
- Realtek ALC650 Audio w/ 8 Channel Support
- Logitech Z-640 w/ 5 Speakers & Subwoofer
- US Robotics 56K Internal Fax/Modem v.90
- RJ-45 Ports for High Speed Network Access
- Samsung 955DF Black 19" .20hdp CRT Monitor
- Keytronic KT800 104 Black Soft-Touch Keyboard
- Keytronic Black Mouse w/ Scroll Wheel
- Antec 80mm Second Case fan w/ Colored LEDs
- Arctic Silver Thermal Heat Compound
- MS Windows XP Home OEM w/ CD and Manual
- **5 Years Labour & 1 Year Parts Warranty**

AMD Athlon XP-2000+	$1374.99 or $50/mth
AMD Athlon XP-2400+	$1399.99 or $51/mth
AMD Athlon XP-2500+	$1414.99 or $52/mth
AMD Athlon XP-2700+	$1449.99 or $53/mth
AMD Athlon XP-2800+	$1479.99 or $54/mth
AMD Athlon XP-3000+	$1559.99 or $52/mth
AMD Athlon XP-3200+	$1574.99 or $52/mth
Intel Pentium 4-2.6B- 512k	$1574.99 or $52/mth
Intel Pentium 4-2.6C- 512k	$1589.99 or $53/mth
Intel Pentium 4-2.8C- 512k	$1629.99 or $54/mth
Intel Pentium 4-3.0C- 512k	$1714.99 or $57/mth
Intel Pentium 4-3.2C- 512k	$1869.99 or $62/mth

PCCANADA UPGRADE BUNDLES - Sorry, no substitutions

ASUS CELERON UPGRADE BUNDLE

Intel Retail-Boxed Celeron CPU	1.7Gb - see web
Asus P4PE-X Motherboard	2.0Gb - see web
256Mb DDR Ram, PC2700	2.4Gb - see web
Premium Mid-Tower w/ 300W	2.6Gb - see web

ASUS BARTON UPGRADE BUNDLE

AMD Retail-Boxed Athlon XP CPU	2500+ see web
Asus A7N8X-X Motherboard	2800+ see web
512Mb DDR Ram, PC3200	3000+ see web
Premium Mid-Tower w/ 300W	3200+ see web

ASUS HYPER-THREADING UPGRADE BUNDLE

Intel Retail-Boxed Pentium 4 CPU	2.6C - see web
Asus P4P800 Motherboard	2.8C - see web
512Mb DDR Ram, PC3200	3.0C - see web
Enlight Mid-Tower w/ Enlight 360W	3.2C - see web

ASUS ATHLON 64 UPGRADE BUNDLE

AMD Retail-Boxed Athlon 64 CPU	
Asus K8V-Dlx Motherboard	3000+ see web
1Gb DDR Ram, PC3200 (2 x 512Mb)	3200+ see web
Enlight Mid-Tower w/ Enlight 420W	

Premier CPUs and Memory

Due to fluctuating memory and CPU pricing, check our web site for up-to-date pricing.

AMD Athlon XP 2000+ @ 266Mhz	see web
AMD Athlon XP 2400+ @ 266Mhz	see web
AMD Athlon XP 2700+ @ 333Mhz	web
AMD Athlon XP 2500+ @ 333Mhz Barton	see web
AMD Athlon XP 2800+ @ 333Mhz Barton	see web
AMD Athlon XP 3000+ @ 333Mhz Barton	web
AMD Athlon XP 3200+ @ 400Mhz Barton	see web
AMD Athlon 64 3000+ @ 400Mhz	see web
AMD Athlon 64 3200+ @ 400Mhz	see web
Intel Celeron 1.7-GHz @ 400Mhz	see web
Intel Celeron 2.0-GHz @ 400Mhz	see web
Intel Celeron 2.4-GHz @ 400Mhz	see web
Intel Celeron 2.6-GHz @ 400Mhz	see web
Intel Celeron 2.7-GHz @ 400Mhz	web
Intel Celeron 2.8-GHz @ 400Mhz	see web
Intel Pentium 4-2.6-GHz 533/800FSB	see web/see web
Intel Pentium 4-2.8-GHz 533/800FSB	see web/see web
Intel Pentium 4-3.0-GHz 533/800FSB	see web/see web
Intel Pentium 4-3.2-GHz @ 800 FSB (512k)	see web

Full List of CPUs Available Online

128 MB, SDRAM PC/133Mhz	see web
256 MB, SDRAM PC/133Mhz	see web
512 MB, SDRAM PC/133Mhz	see web
256 MB, DDR PC2700 (333Mhz)	see web
512 MB, DDR PC2700 (333Mhz)	see web
1 GB, DDR PC2700 (333Mhz)	web
256 MB, DDR PC3200 (400Mhz)	see web
512 MB, DDR PC3200 (400Mhz)	see web
Corsair 512Mb PC3200 XMS Pro Series	see web
Corsair 512Mb PC4000 XMS Pro Series	see web
Corsair 2x 512Mb PC3200 XMS Pro Series	see web
Corsair 2x 512Mb PC4000 XMS Pro Series	see web
OCZ 2x 256 MB, DDR PC4000 EL Dual Kit	see web
OCZ 2x 512 MB, DDR PC4000 EL Dual Kit	see web
128 MB, Rambus, PC800/1066	see web/see web
256 MB, Rambus, PC800/1066	see web/see web
512 MB, Rambus, PC800/1066	see web/see web
64Mb Flash Memory, USB 1.1/2.0	see web/see web
128Mb Flash Memory, USB 1.1/2.0	see web/see web
256Mb Flash Memory, USB 1.1/2.0	see web/see web
512Mb Flash Memory, USB 1.1/2.0	see web/see web

Flash, USB and Notebook Memory Available Online

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Thermaltake Volcano 7+ w/ Variable 80mm fan	$34.99
Thermaltake Silent Boost A1689 / TR2 X-Blower	$34.99/$19.99
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Abit KV7, Socket A, KT600 (ATX)	$99.99
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Abit KV8-Max3, Socket 754, K8T800 (ATX) uGURU	$209.99
Asus A7V8X-X, Socket A, KT400 (ATX)	$79.99
Asus A7V600, Socket A, KT600 (ATX)	$109.99
Asus A7N8X-E Dlx, Socket A, nForce2 (ATX) SATA	$159.99
Asus A7N8X-X, Socket A, nForce2 (ATX)	$99.99
Asus K8V-Dlx, Socket 754, K8T800 (ATX)	$179.99
ECS K7S5A/Pro, Socket A, SiS 745 Chipset w/ Lan & Sound	$59.99
ECS KM400-M, Socket A (MATX) w/ Video, Sound & Lan	$79.99
ECS K7S5M+V7 5C+1800Pro CPU (MATX) w/ VGA, Sound & Lan	$93.99
ECS L7VMM3 w/2600Pro CPU (MATX) w/ VGA, Sound & Lan	$134.99

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Abit AI7, Socket 478, Intel 865PE (ATX) uGURU	$154.99
Abit IS7-E, Socket 478, Intel 865PE (ATX) SATA	$119.99
Abit IS7, Socket 478, Intel 865PE (ATX) SATA RAID	$134.99
Abit IC7, Socket 478, Intel 875PE (ATX) SATA RAID	$184.99
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Asus P4C800 Dlx, Socket 478, Intel 875P Chipset (ATX)	$224.99
Asus P4C800-E Dlx, Socket 478, Intel 875P Chipset (ATX)	$236.99
Asus P4PE-X, Socket 478, Intel 845PE Chipset (ATX)	$99.99
Asus P4P800, Socket 478, Intel 865PE Chipset (ATX)	$144.99
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Asus P4S800, Socket 478, SiS 648FX Chipset (ATX)	$99.99
ECS P4VMM2, Socket 478, Via Chipset w/ Lan & Sound	$64.99
ECS 648FX-A, Socket 478, SiS Chipset w/ Lan & Sound	$74.99

Full List of Motherboards available on our website

Premier Videocards

Asus v9180/Magic GeForce MX440 64Mb DDR TV-Out	$74.99
Asus v9400/Magic GeForce MX4000 128Mb DDR TV-Out	$94.99
Asus v9520/TD GeForce FX5200 128Mb DDR TV-Out	$114.99
Asus v9520/VS GeForce FX5200 128Mb DDR Video In/Out	$139.99
Asus v9520/HT GeForce FX5200 128Mb DDR w/ Tuner	$179.99
Asus v9570/TD GeForce FX5700 256Mb DDR TV-Out	$249.99
Asus v9950 GeForce FX5900 128Mb DDR TV-Out	$364.99
Asus v9950/Ultra GeForce FX5900Ultra 256Mb DDR TV-Out	$519.99
Asus v9980/Ultra GeForce FX5950Ultra 256Mb DDR TV-Out	$624.99
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ATI Radeon 9800XT w/ 256Mb DDR AGP w/ Video Out	$599.99
ATI All-In-Wonder Radeon 9600Pro w/ 64Mb AGP DDR	$199.99
ATI All-In-Wonder Radeon 9600Pro w/ 128Mb AGP DDR	$284.99
ATI All-In-Wonder Radeon 9600Pro w/ 128Mb AGP DDR	$449.99
Matrox Millennium P750 TH/DVI w/ 64Mb	$279.99
Sapphire Radeon 7000 w/ 64Mb SDRAM AGP w/ Video Out	$49.99
Sapphire Radeon 9200 w/ 64Mb DDR AGP w/ Video Out	$79.99
Sapphire Radeon 9200 w/ 128Mb DDR AGP w/ Video Out	$99.99
Sapphire Radeon 9600 w/ 128Mb DDR AGP w/ Video Out	$139.99
Sapphire Radeon 9600XT w/ 256Mb DDR AGP w/ Video Out	$234.99
Sapphire Radeon 9800XT w/ 256Mb DDR AGP w/ Video Out	$580.99

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ATI TV Wonder Pro - TV Tuner	$84.99
Leadtek WinFast TV 2000 XP - FM & TV Tuner	$79.99

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Maxtor 80GB ATA/133 7200RPM Hard Drive w/ 8Mb	$104.99
Maxtor 120GB ATA/133 7200RPM Hard Drive w/ 8Mb	$129.99
Maxtor 160GB ATA/133 7200RPM Hard Drive w/ 8Mb	$169.99
Maxtor 200GB ATA/133 7200RPM Hard Drive w/ 8Mb	$219.99
Maxtor 250GB ATA/133 7200RPM Hard Drive w/ 8Mb	$314.99
Seagate 120GB ATA/100 7200RPM Hard Drive w/ 8Mb	$129.99
Seagate 160GB ATA/100 7200RPM Hard Drive w/ 8Mb	$164.99
Seagate 200GB ATA/100 7200RPM Hard Drive w/ 8Mb	$239.99
WD 80GB ATA/100 7200RPM Hard Drive w/ 8Mb	$99.99
WD 120GB ATA/100 7200RPM Hard Drive w/ 8Mb	$129.99
WD 200GB ATA/100 7200RPM Hard Drive w/ 8Mb	$209.99
WD 250GB ATA/100 7200RPM Hard Drive w/ 8Mb	$299.99

Serial ATA Drives - More to come...

Maxtor 80GB SATA/150 7200RPM Hard Drive w/ 8Mb	$114.99
Maxtor 120GB SATA/150 7200RPM Hard Drive w/ 8Mb	$139.99
Maxtor 160GB SATA/150 7200RPM Hard Drive w/ 8Mb	$179.99
Maxtor 200GB SATA/150 7200RPM Hard Drive w/ 8Mb	$239.99
Maxtor 250GB SATA/150 7200RPM Hard Drive w/ 8Mb	$329.99
Seagate 80GB SATA/150 7200RPM Hard Drive w/ 8Mb	$109.99
Seagate 120GB SATA/150 7200RPM Hard Drive w/ 8Mb	$139.99
Seagate 160GB SATA/150 7200RPM Hard Drive w/ 8Mb	$179.99
WD 36GB SATA/150 10000RPM Hard Drive w/ 8Mb	$164.99
WD 74GB SATA/150 10000RPM Hard Drive w/ 8Mb	$349.99
WD 120GB SATA/150 7200RPM Hard Drive w/ 8Mb	$139.99
WD 200GB SATA/150 7200RPM Hard Drive w/ 8Mb	$229.99
WD 250GB SATA/150 7200RPM Hard Drive w/ 8Mb	$314.99

Full List of Hard Drive Brands Available Online

Panasonic 1.44Mb Floppy Disk Drive (Black or Beige)	$9.99
Sony 1.44Mb Floppy Disk Drive (USB)	$39.99
Promise Ultra/133 TX2 Controller Card	$59.99
Promise SATA/150 TX4 Controller Card	$99.99
Highpoint Rocketthead 100	$29.99

Premier Barebone Systems

Shuttle SS51G (Socket 478) w/ Si5651 Chipset	$254.99
Shuttle SB62G2 (Socket 478) w/ Intel 865G Chipset	$424.99
Shuttle SB61G2R (Socket 478) w/ Intel 865G Chipset	$474.99
Shuttle SN45G (SocketA) w/ NVidia nForce2, Ultra400 Chipset	$299.99
Shuttle SN85G4 (Socket 754) w/ NVidia nForce3 150 Chipset	$444.99

Shuttle Barebone Accessories

Shuttle PC8 Parallel Port	$14.99
Shuttle PF9 Carrying Bag	$34.99
Shuttle PC12 Internal USB 6-in-1 Card Reader	$39.99

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D-Link 10/100Mbit Ethernet Card	$9.99
3COM 10/100Mbit Ethernet Card w/ Wake on Lan	$34.99
Linksys WMP54G - 802.11g Wireless Adapter PCI	$89.99
Linksys WPC54G - 802.11g Wireless Adapter PCMCIA	$89.99
Linksys WUSB54G - 802.11g Wireless Adapter USB	$89.99

Cables, Ends and Adapters are also available

SMC 10/100Mbit - 5 Port Hub	$39.99
Linksys BEFSR41 Cable/xDSL Router - 4 Port	$64.99
Linksys BEFSR81 Cable/xDSL Router - 8 Port	$109.99
Linksys BEFSX41 Cable/xDSL Router w/ VPN - 4 Port	$89.99
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Pioneer / Sony / Toshiba 16X DVD-ROM Drives (Beige)	$39.99
Sony 16X DVD-ROM Drive (Black)	$44.99

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Plextor Plexwriter Premium (52x/32x/52x) (Beige)	$119.99
Plextor Plexwriter Premium (52x/32x/52x) (Black)	$119.99
Sony CD-Re-Writer w/ Burn-Proof (52x/32x/52x) (Black)	$49.99
Sony CD-Re-Writer w/ Burn-Proof (52x/24x/52x) (Beige)	$44.99
Sony DVD/CD-RW Combo Drive (48x/24x/48x/16x) (Beige)	$69.99
Sony DVD/CD-RW Combo Drive (48x/24x/48x/16x) (Black)	$74.99
Plextor PX-708A (DVD-RW & CD/RW) (Beige or Black)	$264.99
Pioneer DVR-A06 (DVD-RW & CD/RW)	$189.99
Pioneer DVR-A07 (DVD-RW & CD/RW)	see web
Sony DWU-14A (DVD-/+RW & CD-RW) (Beige or Black)	$174.99
Sony DWU-530A (DVD-/+RW & CD/RW) (Beige)	$249.99

Premier Sound Cards & Speakers

SoundBlaster Audigy ES	$59.99
SoundBlaster Audigy 2	$99.99
SoundBlaster Audigy 2 ZS	$119.99
SoundBlaster Audigy 2 ZS Platinum	$229.99
SoundBlaster Audigy 2 ZS Platinum Pro	$289.99
Creative SBS 2.1 370 w/ 2 Speakers & Subwoofer	$49.99
Creative SBS 4.1 450 w/ 4 Speakers & Subwoofer	$64.99
Creative Inspire T7700 w/ 7 Speakers & Subwoofer	$189.99
Creative I-Trigue L3500 w/ 2 Speakers & Subwoofer	$144.99
Labtec Arena 675 w/ 5 Speakers & Subwoofer	$69.99
Logitech Z-640 w/ 5 Speakers & Subwoofer	$89.99
Logitech X-620 w/ 5 Speakers & Subwoofer	$114.99

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Premium Mid Tower Case w/ 6 Bays (ATX) 300W	$74.99
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Enlight Mid Tower Case w/ 7 Bays (ATX)	$54.99
G3 Tower Case w/ 7 Drive Bays (ATX) Window (BLACK)	$49.99
Nest Tower Case w/ 7 Drive Bays (ATX) Window (BLACK)	$84.99
Chenbro Tower Case w/ 7 Drive Bays (ATX) Window (Silver)	$89.99
Chenming ATX801E Aluminum Case (ATX) Assorted Colors	$99.99
ACpen HX08 Full Tower Case w/ 13 Bays (ATX) 300W	$109.99
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Thermaltake Xaser III VM2000A Aluminum ATX Case	$149.99
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Thermaltake Xaser III V1000D Steel Blue ATX Case	$184.99
Thermaltake Xaser III V1000A Steel Black ATX Case	$184.99
Thermaltake Xaser III V2000A Aluminum ATX Case	$229.99
LianLi PC-60USB Aluminum Case (ATX)	$169.99
LianLi PC-61USB Aluminum Case (ATX)	$169.99
LianLi PC-6089AUSB Aluminum Case (ATX)	$234.99
LianLi PC-70 Full Tower Aluminum Case (ATX)	$289.99

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NSpire 300W Power Supply	$39.99
Cyberzona 350W Power Supply w/ 2 fans	$39.99
HEC 300W Power Supply	$54.99
Enlight 380W Power Supply	$54.99
Enlight 420W Power Supply w/ 2 fans	$64.99
Enermax 365W Power Supply w/ 2 fans	$64.99
Enermax 465W Power Supply w/ 2 fans	$99.99
Vantec 520W Black Aluminum Power Supply w/ 2 Fans	$129.99

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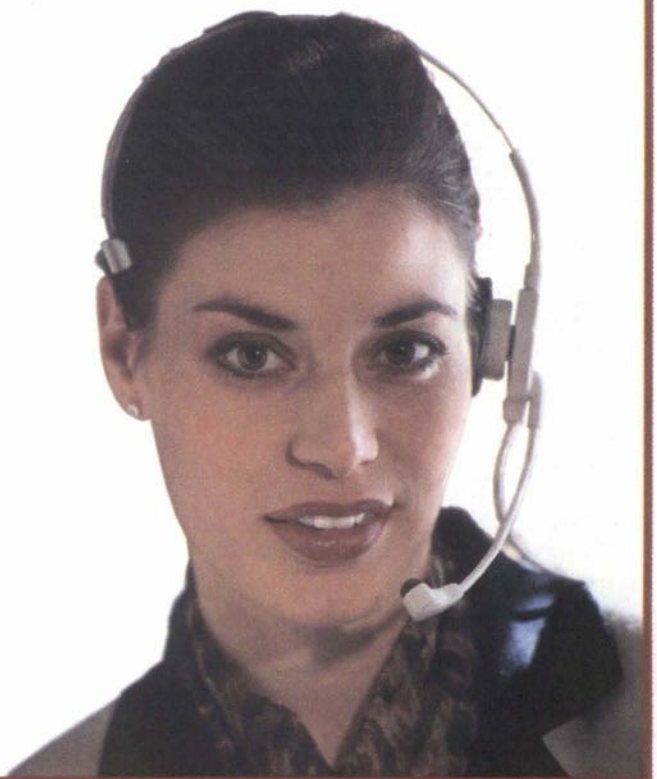

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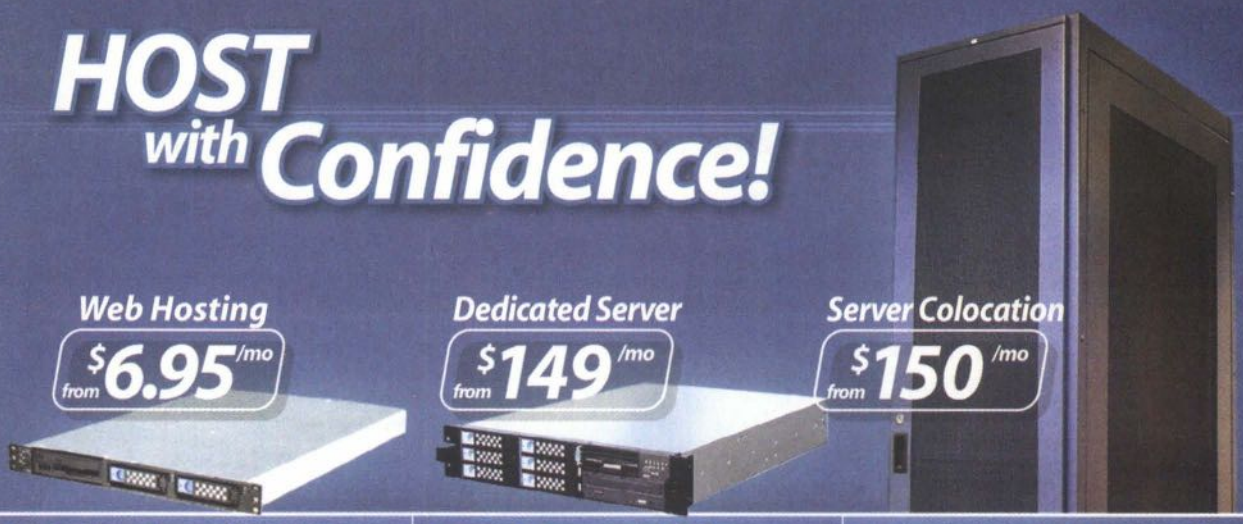

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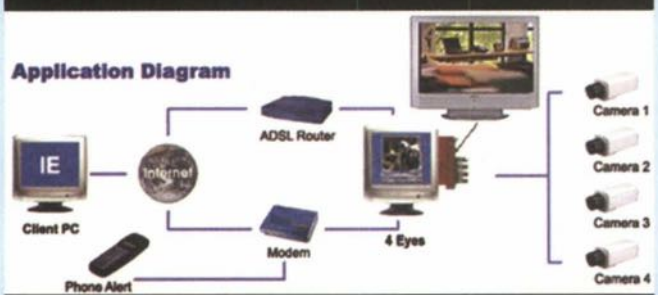

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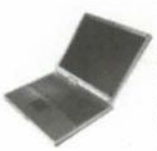

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S1 Tecra (Centrino 1.5Ghz/256mb/30gb/14"/CDRW-DVD/XP	3099

Call for pricing on unlisted models

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- AMD XP2400+
- 512mb, 40gb drive
- CDRW/DVD Drive
- 15" TFT display

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Presario 2190CA (Athlon 2400+/256mb/40gb/15"/CDRW-DVD/XPH	1439

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662LMI TravelMate (Centrino 1.5Ghz/512mb/40gb/15T/DVDWRITER/XPP)	2119
AS2003LMI TravelMate (Centrino 1.6Ghz/512mb/60gb/15T/CDRW-DVD/XPH)	2349
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3000LMI Ferrari (AMD 2500+/512mb/60gb/15T/DVDWRITER/XPH)	2409
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Ipaq 4150 (400Mhz, 64mb, Blue/WiFi)	559
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TOSHIBA

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173S	659

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D-Link Wireless "G" Router

$119

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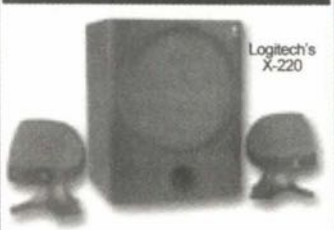

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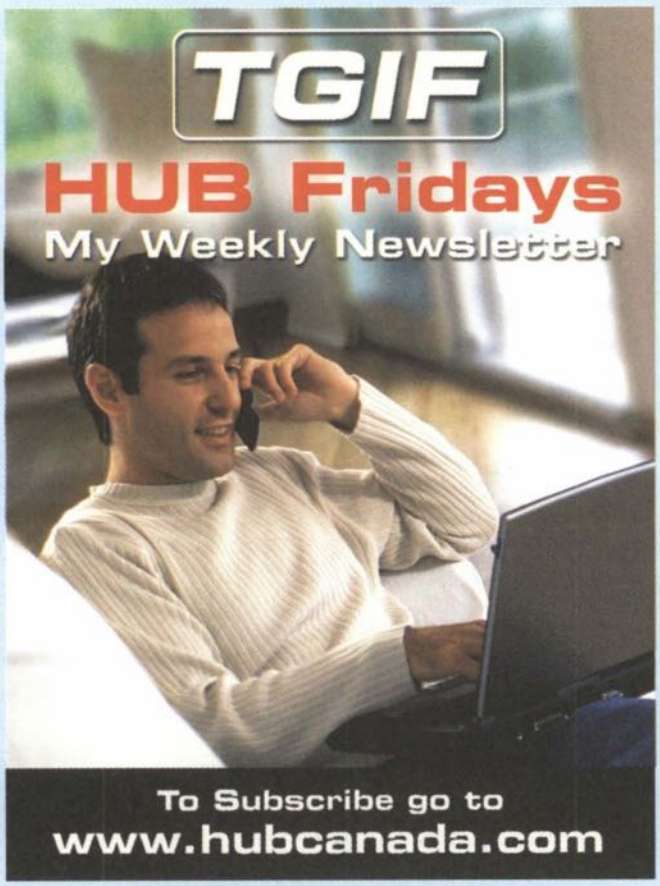

New in DVD: Movies

You've got the big-screen TV and the latest surround sound setup. You just need some great DVDs to make the home theatre experience complete. To help you in your quest, here's a head's up on some recent titles that we've viewed in the HUB screening room. Note: All prices quoted are estimated, usually closer to the suggested retail price. Conscientious shoppers will likely be able to find these sets at lower prices if they shop around.

By Sean Carruthers

007 Gift Sets 1, 2 and 3
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www.mgm.com/dvd/
Estimated price: $157 each

Bond£James Bond. The 007 movie franchise has been around for decades now, with a total of twenty movies released so far. All of those films have now been boxed up in these new DVD gift sets from MGM, each film with bonus features like commentary, documentaries, music videos and more. It's worth noting that the boxes aren't set up chronologically; instead, each set features selections from all of the Bond eras, which means you get a sampling of the different Bond actors in each set. (Yeah, it's a bit frustrating if you're a fan of the Sean Connery era only, or the Roger Moore era, but it does mix things up a bit for the fans that love it all.)

Volume One: Dr. No, GoldenEye, Goldfinger, License to Kill, The Man With the Golden Gun, The Spy Who Loved Me, Tomorrow Never Dies

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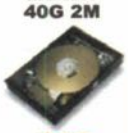

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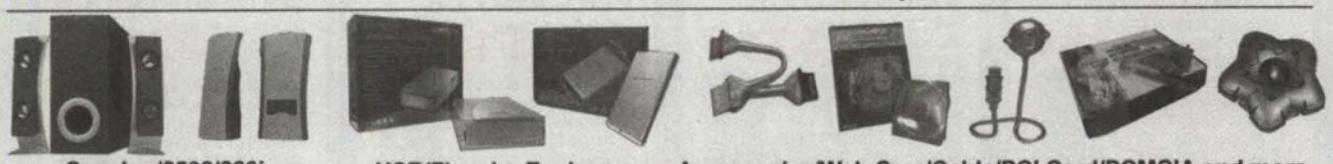

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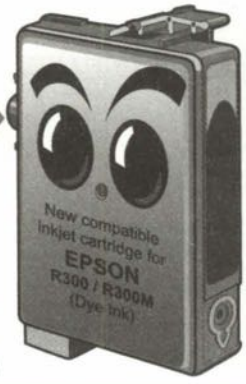

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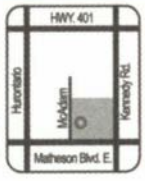

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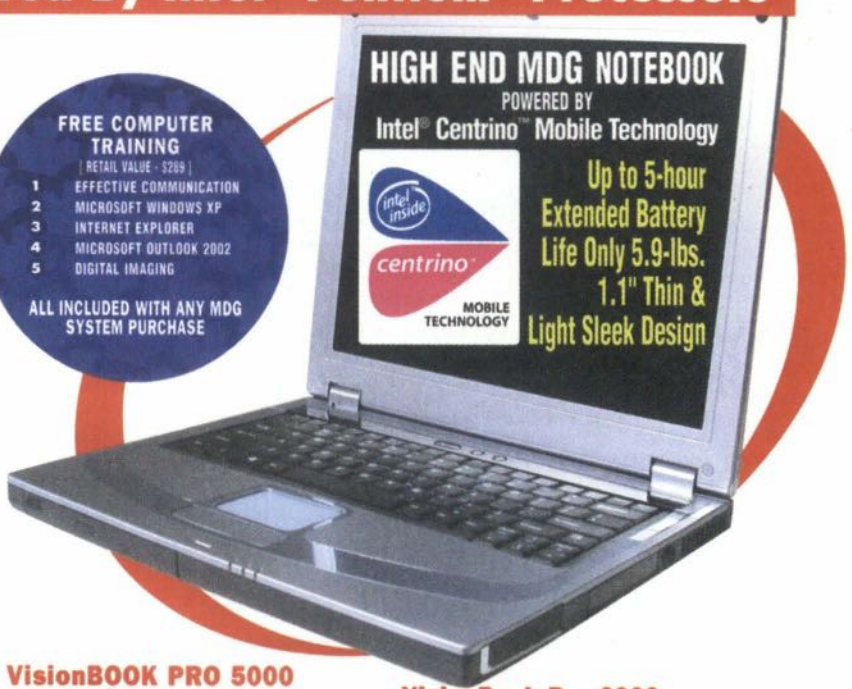

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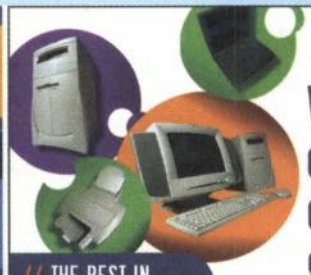

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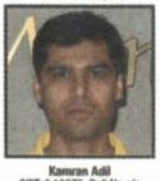
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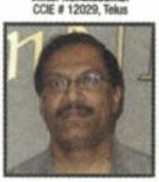
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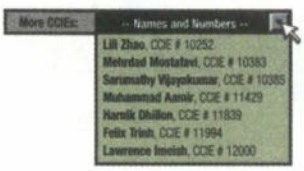

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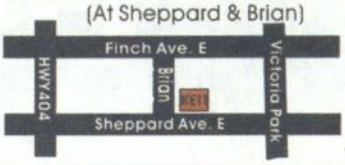

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ATI 9800 Pro 128M/9800XT 256M	365/609
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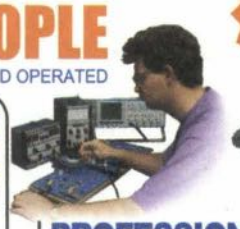

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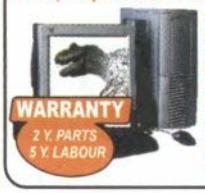

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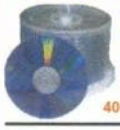

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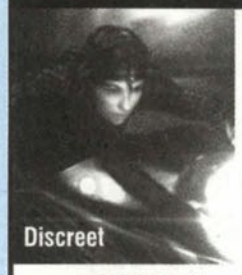

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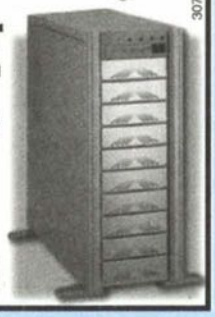

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SB Audigy2 ZS 7.1	$112
SB Audigy2 ZS Plantium7.1	$225
SB Audigy2 ZS PlantiumPro	$285

Video Card

ATI9200se 64/128M AGP	$57/62
ATI9600se 128M AGP	$119
ATI9600 128/256M AGP	$136/148
ATI 9800 Pro 128/256M	$356/458
ATI 9600XT 128/256M	$212/238
ATI 9800XT 256M AGP	$595
ATI AIW 9700 128M AGP	$385
ATI AIW 9800pro128M AGP	$465
GF4 MX440 64/128M AGP	$56/74
GF FX5200 128M AGP	$73
GF FX5600XT 128/256M	$115/149
MSI GF FX5700 128/256	$212/265
MSI GF FX5900XT 128M	$265
MSI GF FX5700Ultra 128M	$280
MSI GF FX5950Ultra 256M	$575
ASUS GF5900 128/256M	$355/539

Printer

Canon i450/i560/i860	$66/142/192
Epson C44/C64/C84	$57/73/134
HP B/W Laser *HP rebate upto$70	
1012/1150/1300	$259/365/495
2300L/2300/4300	$719/845/1859
HP Colour Laser	
1500L/1500	$889/1105
2500L/2500/4600	$996/1245/2595

Network Items

Inexq 4Port DSL Router /wUSB	$40
Inexq 4Port DSL Router	$26
DLink 604 4Port DSL Router	$49
DLink 614+ Wireless B Router	$85
DLink 514+ Wireless B Router	$76
DLink Wireless B USB adapter	$61
Inexq Wireless B 4Port Router	$65
Inexq Wireless B USB Adapter	$39
Inexq Wireless B PC Card	$28
Inexq Wireless B PCI Card	$30

Case

Cooler Master PAC-T01 Alu	$159
Cooler Master TAC-T01 Alu	$205
TT XaserIII VM2000A	$140
TT XaserIII VM3000A	$140
TT XaserIII V2000A	$216
TT XaserIII V1000A/D	$173
Scoppio Black/Silver window	$76
Chenming601 Blue/Sil window	$84
Enlight 420W Power Supply	$50
Nspire 450W Power Supply	$53
Vantec 470W Power Supply	$108
Vantec 520W Power Supply	$125
Thermaltake 420W PSU	$65
Thermaltake 480W PSU	$87

CRT Monitor

LG 17" 700S .27	$134
Viewsonic 17" E70f .25	$178
BenQ 17" G775 .25	$179
BenQ 19" P992 .25	$255
Nec 19" AS95F .24	$278
Daytek 19" DT-95P .26	$229
Samsung 19" 955DF I/B	$285

LCD Monitor

LG 1512S 15" Silver	$385
Samsung 15"150N	$392
Samsung 17"170N	$559
BenQ 15" FP547	$389
BenQ 17" FP731	$529
NEC 17" LCD 7V	$575
LG 17" L1715S LCD	$585
Leadtek2000XP-Ex TV Card	$84
Leadtek2000XP TV Card	$56

CPU & Memory

Intel,AMD,Kingston,OCR,Corsair

KVM Switch 2/4 Port w/c $50/76

*** ***Special of the Month*** ***

Verb. 24x CD-RW 25Pk ~~$49~~	$35
Kensington Microsaver Notebook Security Lock P#64068 ~~$59~~	$39
BenQ 17" V773 .27 ~~$139~~	$127

** Check out our best prices on accessory*

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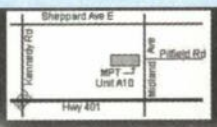

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* AERO NOTE 2.0GHZ NOTEBOOK $1399 *

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* NOTEBOOK USB 2.0 PORT REPLICATOR - PROVIDES SERIAL, PARALLEL, PS/2 KEYBOARD, PS/2 MOUSE, 4 X USB 2.0 , $69 *

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A - BOOK Notebook

Intel® CENTRINO™ Mobile Technology,
Intel® Pentium™ M Processor, 1M L2 cache,
512MB DDR SO-DIMM Ram (max 1024MB),
2.5" 40GB Mobile Hard Disk, **DVD& CDRW** Combo Drive,
intergrated 56K Fax Modem,
intergrated 10/100BT Ethernet Network,
intergrated AC97 Audio, **MMC & SD Memory Card Reader,**
Intel IEEE 802.11b Wireless Mini-PCI module installed,
IEEE 1394 FireWire Port (mainly for DV input),
70w Auto-Voltage AC Adapter,
Li-Ion Battery Pack **(5-Hours Battery Life),**
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S-Video TV-Out, 3x USB 2.0 ports,
Ultra-Slim 1.2 inch, only 5.9LBs.
** *Extended Warranty AVAILABLE* **

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Ultra-fast USB 2.0 Support,
256MB DDR333 Ram 184pins, 1.44MB Floppy Drive,
80GB 7200rpm IDE Hard Drive,
GeForce 4 MX440 64MB DDR 8X Video Card w/TV out,
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52X CD-RW / 16X DVD Rom Drive,
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Atlec Lansing AVS-200W Speakers,
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Compaq Internet Keyboard,
Microsoft Optical Mouse.

Upgrade to :
Microsoft MultiMedia Keyboard & Wheel Mouse Optical .....+$ 15

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Intel® Pentium™4 Processor, supporting Hyber- Threading Technology, Ultra-fast Max. 8 Port USB 2.0 Support,
Asus P4P800-S, Intel 848P Chipset 800FSB/4GB Dual Channel DDR400 ATX Motherboard,
512MB DDR400 Ram 184pins, 1.44MB Floppy Drive,
ATI Radeon 9200SE 128MB DDR 8X Video Card w/TV out *or* **GeForce4 FX5200 128MB DDR 8X Video Card w/TV out,**
80GB ATA Serial Hard Dirve,
Intel 10/100BT Ethernet Adapter,
LG 8x DVD +/- Triple Format Writer Drive,
ADI1980 6 Channel Audio Codec S/PDIF-out Interface,
Atlec Lansing Subwoofer Speakers,
ATX Tower Case w/300w P4 Power Supply,
Compaq Internet Keyboard,
Microsoft Optical Mouse.

available in Black

800FSB 8X AGP

2.6Ghz $ 959 | 2.8Ghz $1009 | 3 Ghz $1099

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Intel® Retail Box Processor 478pins,
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256M DDR Ram 184pins,
40GB 7200rpm Hard Drive,
GeForce4 MX440 64MB DDR 8X Video Card w/TV out,
1.44MB Floppy Drive,
52X CD-RW Drive,
10/100BT Ethernet Adapter,
On Board C-Media 6 Channel Audio Controller,
Free Subwoofer Speakers System ,
ATX Tower Case w/300w P4 Power Supply,
104 keys Keyboard, Free PS/2 Mouse & Pad.

Upgrade to :
80GB 7200rpm Hard Drive .....+$ 20
Microsoft MultiMedia Keyboard & Wheel Mouse Optical .....+$ 25

2.4Ghz (128k) $ 479 | 2.6Ghz (512k) $ 609

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Monitor Special (w/ system purchase)

17" LG 700S .27 1280	$ 149
17" LG T710BH .24 1280 Perfect Flat	$ 175
19" LG T910BU .24 1600 Perfect Flat	$ 309
17" LG 787LE LCD Monitor	$ 509
17" Acer 1714 LCD Monitor	$ 479
15" Philips LCD Monitor	$ 349
17" Philips LCD Monitor	$ 539
17" NEC FE771SB .25 1280 *PF	$ 229
19" NEC FE991SB .25 1600 *PF	$ 349
17" Samsung 753DF .21h 1280	$ 179
19" Samsung 955DF .20h 1600	$ 285
15" Samsung 150N LCD Monitor	$ 419
17" Samsung 170N LCD Monitor	$ 539

MOTHERBOARDS

Asus:

P4C800E-DX	$ 239
P4C800-DX	$ 229
P4P800-DX	$ 169
P4P800-VM	$ 135
P4S800	$ 99
P4S 8X-X	$ 89
P4S533-MX	$ 79
A7V8X-X	$ 79
A7V8X-1394	$ 99
A7N8X-VM	$ 115

MOTHERBOARDS

Intel:

P4D875PBZLK	$ 219
P4D865PERLK	$ 179
P4D865PERLL	$ 165

VIDEO CARDS

ATI A-I-W Radeon 9600 Pro 128MB	$ 275
ATI A-I-W Radeon 9800 Pro 128MB	$ 455
ATI Radeon 9200 DDR 128MB TV	$ 89
ATI Radeon 9600 Pro EZ 128MB TV	$ 189

VIDEO CARDS

ATI Radeon 9800 Pro DDR 128MB	$349
ATI Radeon 9800 Pro DDR 128MB VTD	$499
ATI Radeon 9800 Pro 256M VTD	$589
Asus 9520 MAG FX5200 128MB TV	$105
Asus 9520 TD FX5200 128MB DVI TV	$119
Asus 9520 VS FX5200 128MB VIVO	$145
Asus 9560 TD FX5600 128M DVI TV	$209
Asus 9560 VS FX5600 128MB VIVO	$239
Asus 9900 TD FX5800 128MB DVI TV	$299
Asus 9950 TD FX5900 128MB DVI TV	$395

Special Deal ! (w/ system purchase)

* LG 52x CD-RW Drive	$ 43.50
* Epson Stylus C44UX InkJet Printer	$ 55.00
(Compatible Ink for Epson Stylus C42UX/44UX : Black $ 15 & Color $ 16)	
* 40GB 7200rpm Hard Drive	$ 69.00
* 80GB 7200rpm Hard Drive	$ 87.00
* WD 80GB JB 8M cache Hard Drive	$ 99.00
* 48X 80min/700MB CD-R Disk (50 Spindle)	$ 20.00
* 4.7GB DVD-R 4X Disk	$ 1.50
* 4.7GB DVD-RW 2X Disk	$ 2.00
* Microsoft Internet KB & Optical Mouse Combo	$ 35.88
* Mustek 1200UB Plus Scanner	$ 55.99

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Intel P4 -2.8GHz $1589
15 TFT, 512MB, 60G HDD, DVD-CDRW, 56K, LAN, PCMCIA, IEEE1394, 5USB2.0, TV-out, VGA, Card Reader, 56K, LAN, 802.11B WIFI

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4x DVD+/- R/RW
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5.1 Stereo Sound
10/100 Ethernet Card
350W ATX Case
Win98 K/B,Mouse
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300W ATX Case
Win98 K/B, Mouse, SPK

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16 Bit Stereo Sound
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300W ATX Case
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10/100 LAN
Win98 K/B, SPK
Wheel Mouse
300W ATX Case
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Upgrade
15 LCD +240
17 LCD +370
19 LCD +650

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40GB MAXTOR HD	40GB MAXTOR 7200 HDD	80G Maxtor 7200 HDD	80GB 7200 HDD & 1.44 FDD	ATI R9200SE 128MB VIDEO	ATI R9200SE 128MB VIDEO
10/100 NIC	LG 52X CDROM	LG 52X24X52 CDRW / 1.44M FDD	LG 16X DVD & LG 52X CDRW	LG 52X CDRW / 1.44MB FDD	LG 52X CDRW / 1.44MB FDD
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56K Modem / KeyBoard
Scroll mouse / Speaker

Intel P4-2.0G $515
P4-2.6G(800) $575
P4-2.8G(800) $619
ASRock P4VT8 MainBoard
256M DDR 400 Memory
ATI R7000 64M Video Card
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ATX Case / Sound & Lan
LG 52X CD Writer
56K Modem / Scroll mouse
Keyboard / Speaker

Celeron 2.4G $339
Intel P4 2.0G $415
Intel P4 2.6G $459
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128M DDR333 Memory
Video Card on board
40G 7200r HD / Floppy
ATX P4 Case / CDROM
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Scroll mouse / Speaker

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P4 3.0G(800) $875
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80G 7200r HD/1.44M FD
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Sound & Lan / 16X DVD
KeyBoard/ mouse/ Modem
Subwoofer Speaker

AMD XP 2200 $455
AMD XP 2600 $495
AMD XP 3000 $625
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ATI R7000 64M Video Card
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Intel P4-2.6G $1395
Intel P4-2.8G $1429
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Transmeta 5600 CPU
14" TFT / 256M / 30G HD
Wireless Lan / Modem
DVD / CDRW Combo
Built-in Battery...

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9600XT 256M.....$229
9600Pro 256M.....$225
9800SE 128M.....$225
9800XT 256M.....$589
All-in-W R9000Pro 64M....$193
All-in-W R9600Pro 128M...$295
All-in-W R9800Pro 128M...$445
ATI TV Wonder Pro.....$81
MSI Geforce 4
MX440 64M TV(8xAGP)..$59
FX5200 128M $91
FX5600XT 128M.....$145
TV@nywhere master.....$69
USB external TV Tuner..$95

Modem
56K Generic.....$15
56K USR Hardware.....$63

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LG 52X CDROM.....$20
DVD / CDRW / Combo
LG / Sony 16XDVD.....$36
LG 52X CD Writer.....$43
LG 52xCDRW/16xDVD....$70
Acer 48XCDRW/16xDVD.$62
52XExternal CDRW.....$99
DVD Re-Writers
LG 8X (Model: 4081).. .$172
Pioneer 4X (DRV-106).$156

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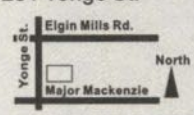

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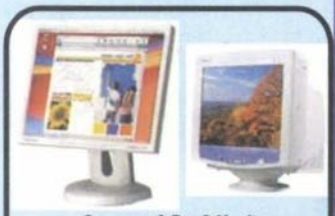

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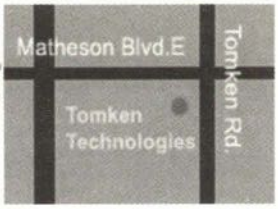

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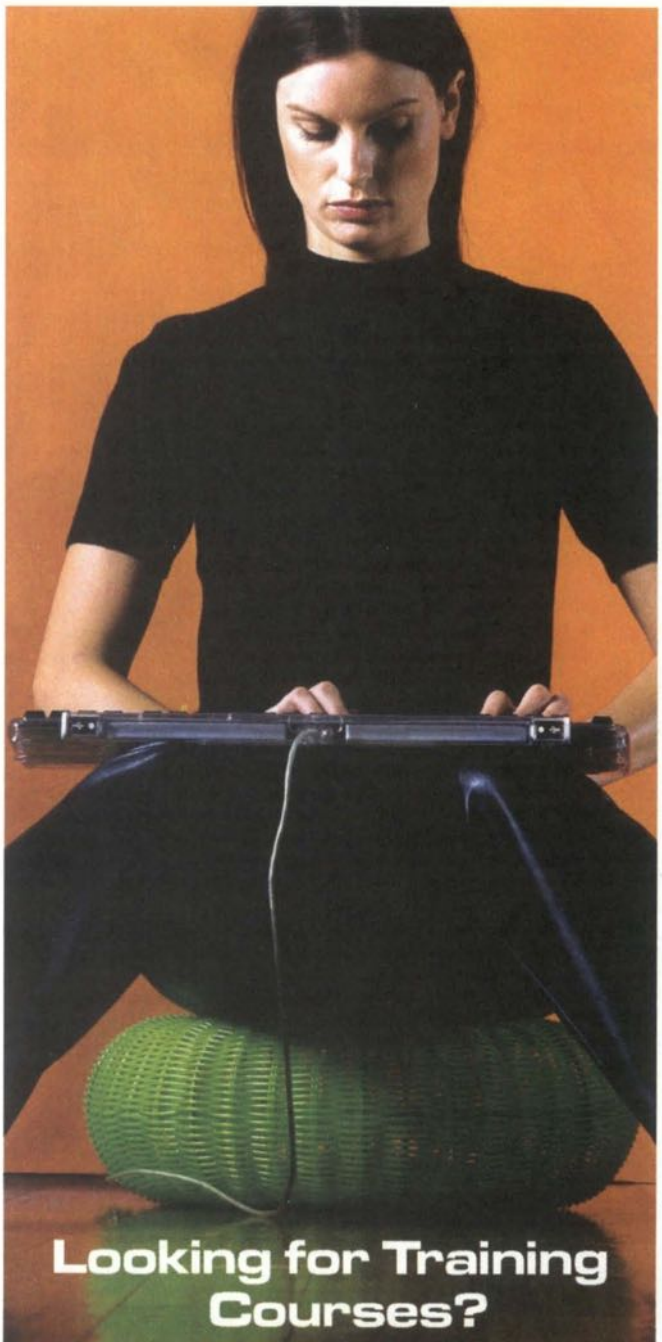

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780 Gordon Baker Road, North York, ON, M2H 3B4 416-223-4312

Hi-Fi Centre
2389 Finch Avenue West, North York, ON, M9M 2W8 416-743-9100

Hi-Fi City
250 The East Mall, Etobicoke, ON, M9B 3Y8 416-234-5402

Home Show Canada
137 Chrislea Rd, Vaughan, ON 905-850-5300

Howard TV Stereo & Video Centre
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HR Audio & Appliances
Toronto, ON 416-242-5975

Humphreys Stereo & TV
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Jamson's Electronics Incorporated
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Japan Electronics
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John's TV Service
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Kennedy Hi Fi Home Audio & Video
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Kromer Radio
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Luits TV and Stereo
1667 Weston Road, York, ON, M9N 1V3 416-651-1776

Marotta Electronics Ltd
326 Marlee Avenue, North York, ON, M6B 3H8 416-789-7229

Micron Electronics Inc
2180 Dunwin Drive, Mississauga, ON, L5L 5M8 905-828-1662

Mister Television & Audio
Toronto, ON 416-763-8802

Mt Pleasant Stereo
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Number 1 Sound
952 College Street, Toronto, ON, M6H 1A5 416-532-6134

Reid & Campbell Inc
2013 Yonge Street, Toronto, ON, M4S 1Z8 416-483-3553

Replay Electronics
1120 The Queensway, Etobicoke, ON, M8Z 1P7 416-251-9096

Ring Audio Service
742 Queen Street East, Toronto, ON, M4M 1H2 416-693-7464

Rizvi Electronics
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2900 Warden Avenue, Scarborough, ON, M1W 2S8 416-493-6622
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Vision Electronics
550 Rogers Road, York, ON, M6M 1B5 416-657-8662

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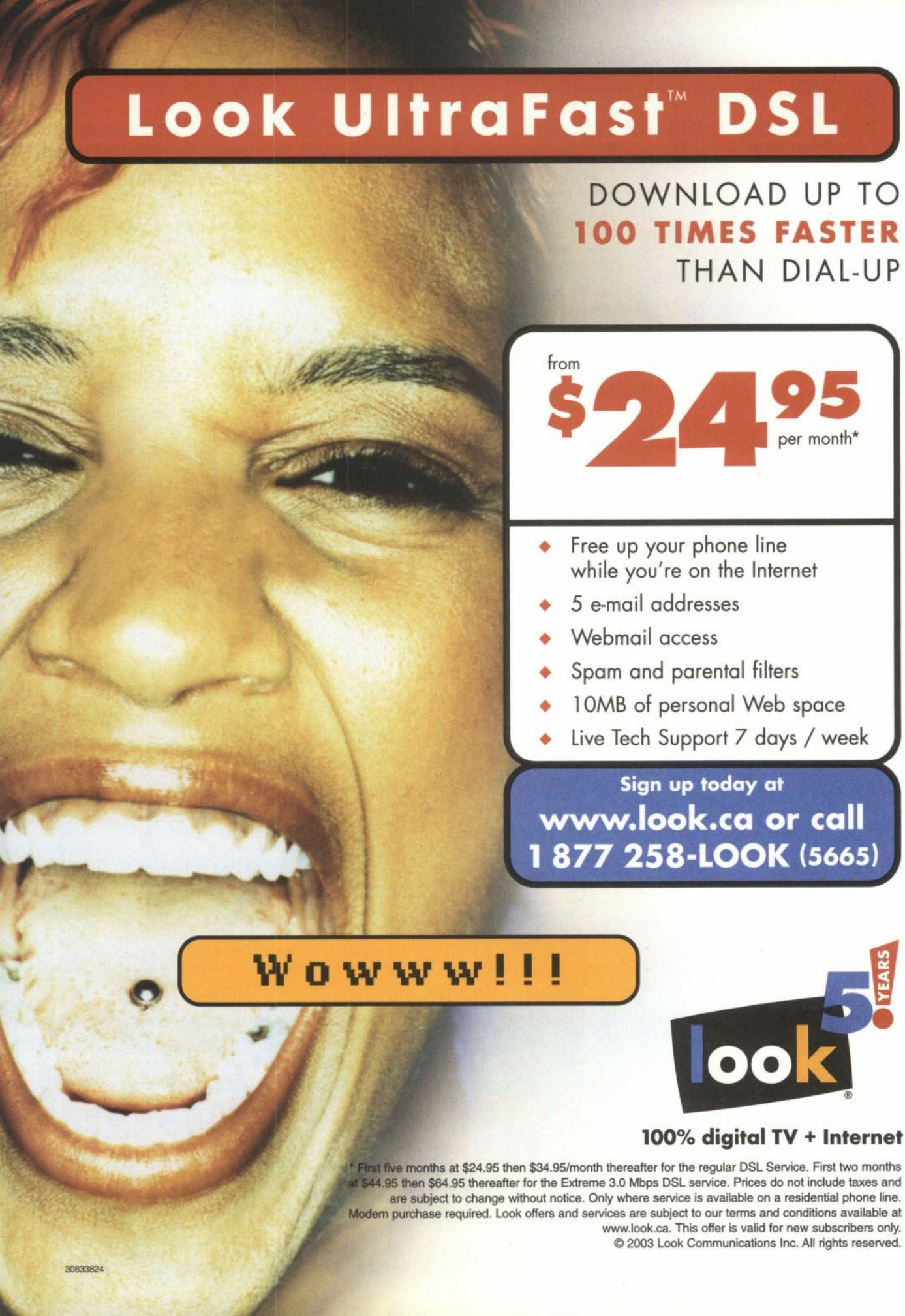
4247 Dundas Street West, Etobicoke, ON, M8X 1Y3 416-232-1166



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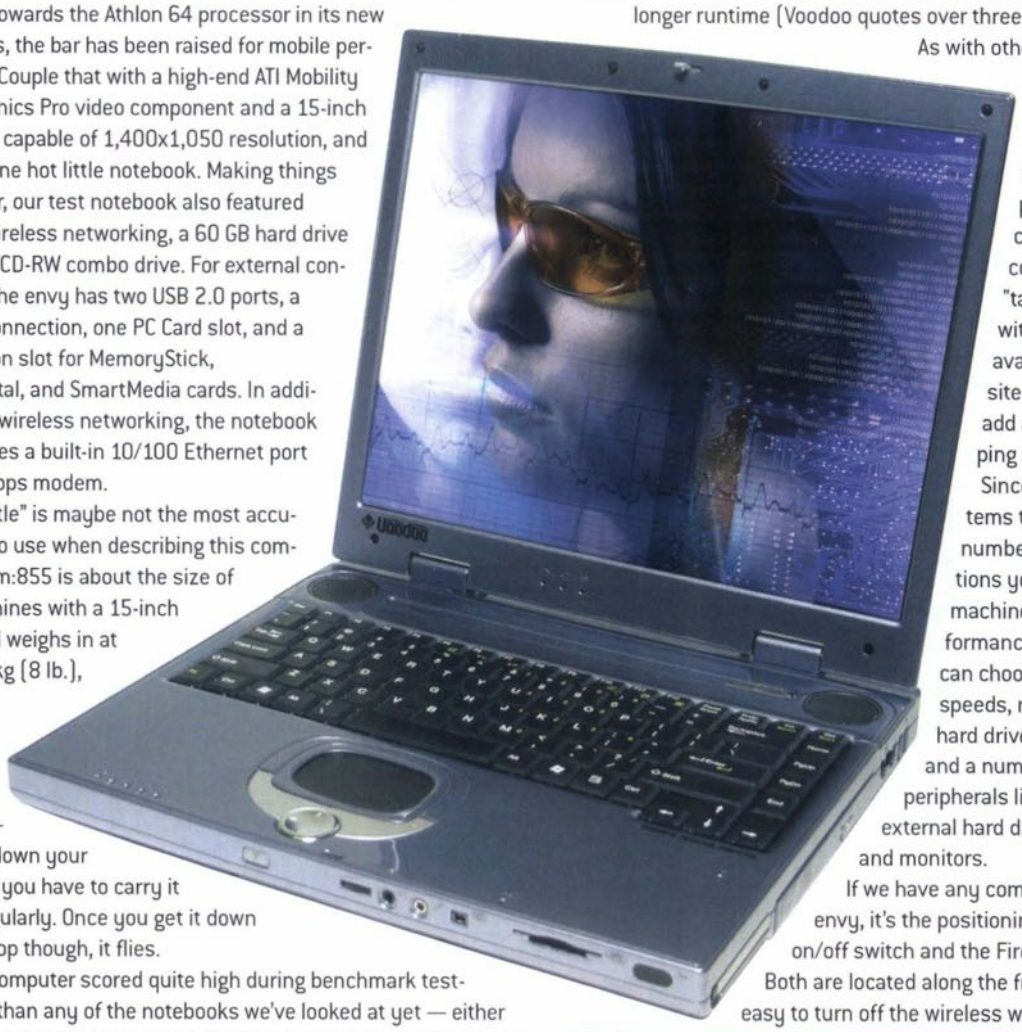
Portable Voodoo: a thing of envy

If you're a power freak when it comes to your home computer, chances are you feel a bit lost when you have to head out on the road with your slow old notebook computer. Notebooks have always been pretty creaky compared to your typical desktop machine, but if you're the type of person who likes to use only performance parts for maximum gaming performance, the step down to a notebook is that much more severe.

Not any more. Calgary-based Voodoo PC has always prided itself on performance computing, even when it went into notebooks, but with the move towards the Athlon 64 processor in its new envy series, the bar has been raised for mobile performance. Couple that with a high-end ATI Mobility 9600 Graphics Pro video component and a 15-inch TFT screen capable of 1,400x1,050 resolution, and you have one hot little notebook. Making things even hotter, our test notebook also featured 802.11g wireless networking, a 60 GB hard drive and a DVD/CD-RW combo drive. For external connectivity, the envy has two USB 2.0 ports, a FireWire connection, one PC Card slot, and a combination slot for MemoryStick, SecureDigital, and SmartMedia cards. In addition to the wireless networking, the notebook also features a built-in 10/100 Ethernet port and a 56Kbps modem.



OK, so "little" is maybe not the most accurate word to use when describing this computer. The m:855 is about the size of other machines with a 15-inch screen and weighs in at about 3.6 kg (8 lb.), so it's not huge, but nor is it a stealth machine — it'll weigh down your shoulder if you have to carry it around regularly. Once you get it down on a desktop though, it flies.

Our test computer scored quite high during benchmark testing, faster than any of the notebooks we've looked at yet — either Centrino or Athlon-based. Even better, the notebook managed to pull off benchmarking scores that were usually about 80 to 85 per cent of the performance level of a 3.06 GHz Pentium 4 desktop configured with high-performance components, and hard drive performance was about 90 per cent of the performance of that desktop PC using Serial ATA. Pretty impressive indeed.

Of course, benchmarks are theoretical, measuring performance under controlled circumstances. More importantly: how well does it play games? In a word: beautifully. The graphics components are top-notch, and it handles 3D gaming easily. We loaded Max Payne 2 onto the system, and it was as smooth as can be. As we've seen the game bring desktop computers to their knees, it's all the more impressive on a notebook.

You'd expect a notebook with this much computing and 3D power to be extremely power-hungry, but the envy's battery can last nearly 2.5 hours with regular hard disk activity. We tested its runtime with Madonion.com's PC Mark 2002 software, using the battery test module; the hard disk tests were turned on during the benchmarking, to add further drain. We achieved two hours and 23 minutes, which means that more modest use of the machine would give you a longer runtime (Voodoo quotes over three hours).

As with other Voodoo machines, including desktops and notebooks, the finishing touch is the customized paint job. You have a choice of eight colours, and you can "tattoo" your machine with one of six graphics available from the Web site (though that does add a week to the shipping time).

Since Voodoo builds systems to order, there are a number of other customizations you can make to your machine: to tweak your performance (and price) you can choose different CPU speeds, more RAM, a larger hard drive (40, 60, or 80 GB), and a number of external peripherals like wireless routers, external hard drives, keyboards, and monitors.

If we have any complaint about the envy, it's the positioning of the wireless on/off switch and the FireWire connector. Both are located along the front bezel, making it easy to turn off the wireless when you're working in close quarters (such as holding the notebook in your lap); it also means the FireWire cable will stick out towards you when you have a DV camera plugged into your notebook. These are reasonably minor, though, and it's pretty easy to work around these problems.

By Sean Carruthers

Voodoo envy m:855

www.voodoopc.com

Estimated price: $3,650 and up ($4,100 as tested)

A handful of handsets

The mobile phone category has exploded in the past year or so, with a seemingly non-stop stream of announcements touting new models with innovative features and designs as handset makers try to stay ahead of the curve. Here are a few phones we've had our hands on recently:

Kyocera Blade

Despite its dramatic name, the Blade is a fairly standard handset that doesn't do a lot of tricks (no camera or flipping or sliding). It's a solid-feeling device, though, with a high-resolution colour display, illuminated keypad and navigation toggle, and includes Web browsing, text messaging, alarm clock, directory, and scheduling functions. The Blade has a couple of features that will appeal to active types: a built-in LED flashlight and an included caribeaner-type sports clip. If you are using it outdoors, you'll have to take off your mittens: the keys are almost flush with the surface of the phone, requiring attention (or fairly small digits) when dialing. It may not set the world on fire, but neither will it break the bank. The Blade was the least expensive new handset available through Telus Mobility at press time. — Megan Johnston

Siemens SL56

Always trying to make handsets smaller, Siemens has introduced one that slides instead of flipping open (similar to the Kyocera Slider reviewed in the December issue). Besides the cool factor — and it is very cool — there is no real benefit to this design. The SL56 highlights the problems of miniaturization inherent in slider handsets: the dial pad, when extended, is only 2.3x3.3 cm (0.9 x1.3 in.). The buttons have a nice reverse scalloped design, but I had to double-check each number I dialed. If you have smaller fingers — or lots of patience — this frustration is somewhat offset by the high-resolution colour display and that Web surfing, games, and phone data can be accessed even when the handset is closed. — Nestor Gula

Handset roundup

Maker	Model	Available through	Price	Wow factors
Kyocera	Blade	Telus Mobility www.telus.ca	$150* $30**	Solid; sports clip; built-in flashlight.
Siemens	S55	Fido www.fido.ca	$500	Cool slider design;
Siemens	SL56	Rogers www.rogers.com	$680*** $400****	Camera with flash; Bluetooth built-in.

* Phone only, ** with 2-year service contract. *** With monthly term, **** with 2-year term.

Siemens S55

This compact handset is a camera phone — sort of. The camera is a lightweight peripheral, with images captured on its small viewfinder rather than the phone's display. Taking a picture is a bit awkward, requiring a few steps to turn the camera on, but the camera does have a built-in flash, which is not the norm in current phone cameras. This Java-enabled handset has a host of other features: hands-free speaker, Web surfing, contact, calendar and voice-memo features, and the ability to easily transfer data to a PC via Bluetooth or the included USB cable. — NG

Mobile 4-1-1

Crank calls

The Sidewinder is a compact (5x3.8x2.5 cm), lightweight (70 g) recharger you crank to give your phone battery a boost. Winding steadily for two minutes can add six minutes of talk time to a low battery. The device is compatible with almost any phone model: the included cable that attaches to the phone has to match the phone's interface, but can be swapped for a different cable if you change your handset. Sidewinder wasn't the first to channel human energy into phone power. Freeplay (www.freeplay.net) did so with the Freecharge, but that device was triple the size and weight of the Sidewinder and was only compatible with Motorola phones in North America. It also lacked the Sidewinder's second use: as an LED flashlight. The Sidewinder is about $32* and is available online from U.S.-based www.sidewinderchager.com, which provided us with the test unit. (A Google.ca search found several Canadian online retailers selling the same unit.)

*(*Converted from US$25)*

Cellular selection

Not satisfied with the range of handsets from service providers? Part of the reason their offerings are limited is the expense of technical and service support for each handset they add to their lineup. Another option: retailers or wholesalers that sell handsets only. One of these, Orangewave Wireless (www.orangewavewireless.com), offers several models not currently available to Canadian consumers through service providers. Company vice-president, Eric Fan, says they usually carry between 20 and 30 models, and can special order handsets they don't have in stock. They get around the service/support issue by arranging to ship phones back to the manufacturer if there is a problem and provide customers with a loaner phone during the repair or replacement period, says Fan. Know what kind of service you want, however, before going this route. Orangewave, for example, only sells GSM handsets, which are compatible with Fido and Rogers services but not Telus Mobility or Bell Mobility.

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Not quite for all seasons

Tips for getting your gear through the winter

Maybe it's only been a month, but you can't imagine what you ever did without it. You take it everywhere — it never leaves your side. Life in the dark, cold, Canadian winter seems just a little bit brighter by the light of its little LCD screen.

Whether it's your new portable music player, your shiny PDA, or the longed for digital camera you found under the tree, you'd be wise to keep it close — the closer, the better, in fact. Because there's at least one thing most electronic gadgets have in common: specified operating temperatures that don't drop below freezing. Check your manual, and you'll likely find that your new favourite sidekick needs to be protected from the chill of winter in Canada.

Cold weather can affect electronic devices in several ways. First, most batteries deliver less power as the temperature drops, which can seriously reduce the runtime on power hungry devices like digital cameras. This drop in performance varies widely between battery types — for example, alkaline batteries operating at -20 C will offer only 35 per cent of the service they provide at room temperature, while Lithium and Nickel-Cadmium batteries drop to slightly over and slightly under 75 per cent, respectively.

Secondly, liquid crystals, which are of course the essential elements of liquid crystal displays used in most portable electronic gadgets, are very sensitive to temperature extremes (they're also used in thermometers and in mood rings, incidentally), and have been known to misbehave or stop working in cold weather, so if using the screen is essential to using the device, as it is with handhelds and many cameras, it needs to be kept warm.

Another common problem results not so much from taking gadgets outside, as from bringing them back in. Moisture is the enemy of all electronics, and condensation that results from bringing a cold item back into a warm environment can seep inside the case through cracks and joints, where it can cause corrosion or even short circuits.

Still not willing to leave your gadgets safely at home until spring? Here are a few tips to help you make it through the cold.

- As much as possible, keep your camera, phone, PDA, or music player inside your coat, close to your body. Avoid carrying it in a backpack, especially while you're operating it, and don't leave it for long in a parked car.
- When you bring it back inside, let it warm up to room temperature before turning them on. This may take several hours, but don't give into the temptation to put them next to the radiator or fireplace to speed up the process — it's better done gradually.
- Carry extra batteries if possible, and warm them up before you insert them. You'll be able to keep shooting pictures longer if you have two sets, and you may be able to squeeze more power out of cold batteries once they warm up again, even if they appeared to be dead.
- To prevent damage from condensation, there's a simple technique commonly passed around among photographers. While you're still out in the cold, seal the camera or device inside a plastic bag. The condensation from the warmer, more humid indoor environment will settle on the bag instead of on what's inside. Then let the device warm up to room temperature before taking it out of the bag.

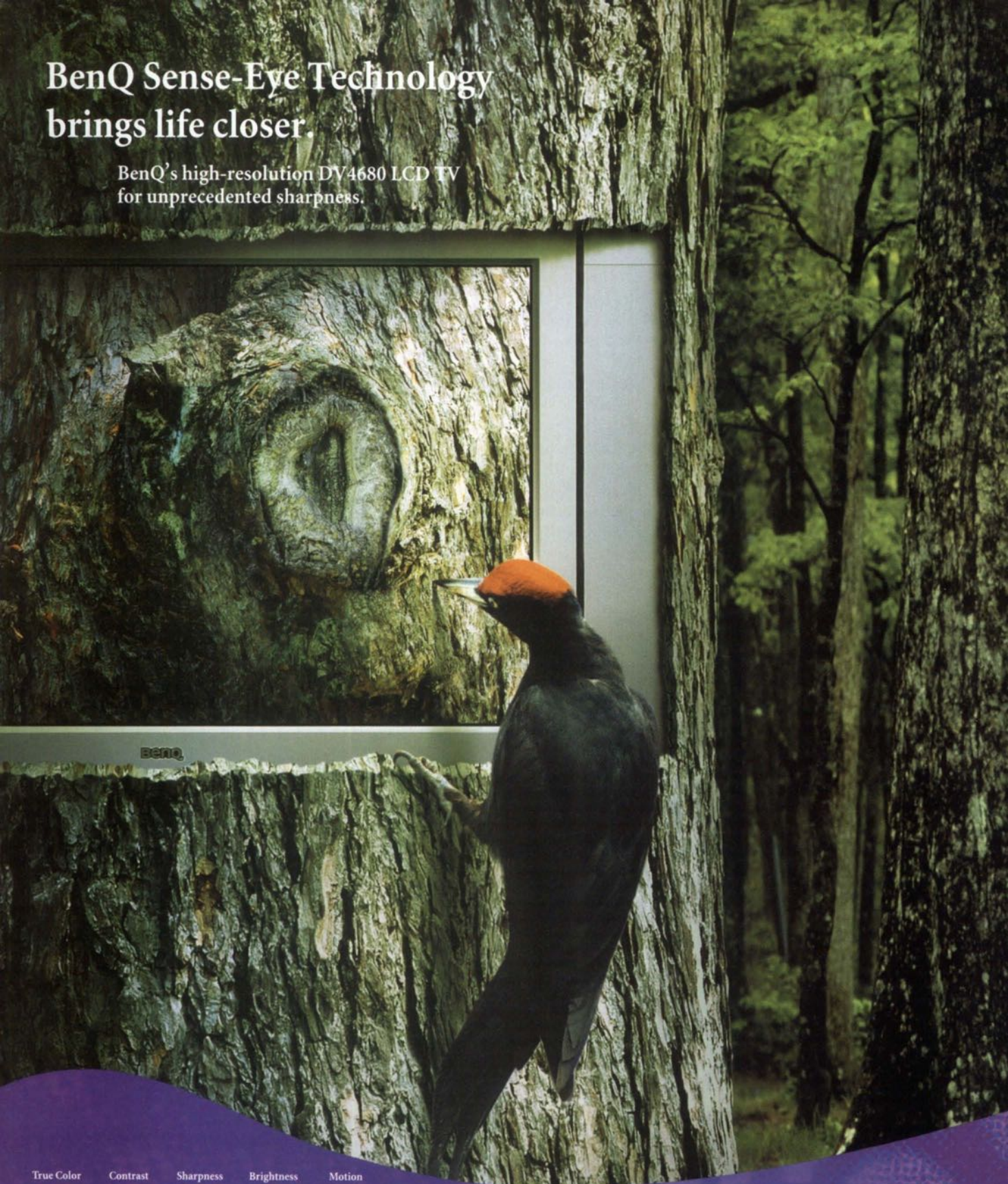
By Sharlene Myers

Enough wimpy machines, already!

Looking for a handheld that can handle the chill? DAP Technologies (www.daptech.com), of Vanier, Que., offers an option. Designed for use by workers in industries like public utilities, forestry, and the military, the Microflex CE8640 resists rain and dust, can be dropped from up to 1 m onto concrete, and operates in temperatures from -20 C to 50 C, according to specifications provided by the company. It runs on Windows CE.Net with a 206 MHz Intel StrongARM processor and a Lithium ion battery. Durability comes at the cost of its portability, though: at 13x5.5x1.2 cm with a weight of 1.1 kg, it's a little heftier than most handhelds.

Just for a little more white

What do you pack for a trek to the South Pole? Well, for Pen Hadow and Simon Murray, the list included lots of tea (their expedition is sponsored by Tetley), skis, sled, camping gear, and an iPod each, which they use to relax on their rest days. The pair is making the 1,094 km journey to raise funds and awareness for the Royal Geographic Society's Polar Heritage and Education Programme. Find out more at www.southpole-mission.com.



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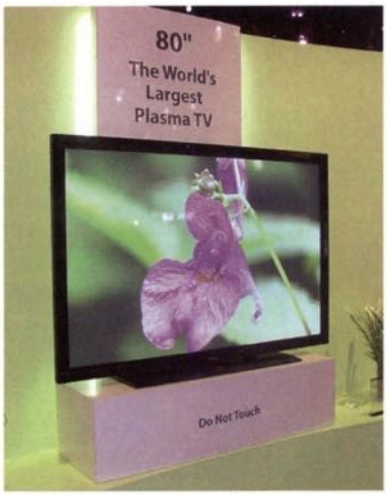

One of the more interesting things at the show was watching the rivalry between Korean competitors LG Electronics (www.lge.com) and Samsung (www.samsung.ca), both of which introduced large new plasma screens at the show. LG was first off the mark, introducing a "world's largest" screen, a 76-inch model, for the first day of the show. Within 24 hours Samsung announced an 80-inch plasma display. At that size, a 4-inch difference isn't a lot, except for the bragging rights. Both screens looked great, will cost insane amounts of money, and will force you to build a new addition to your house just to hold them.

Largest plasma screen introduced by LG... no, Samsung

In this issue, we look at wireless digital media-streaming devices that are already available, but of course there are newer ones coming down the road with more features. One of the more natural evolutions is Linksys' (www.linksys.com) new DVD Player with Wireless-G Media Link. It will not only stream your music, photos, and digital video files through your house wirelessly, it has a built-in DVD player so you have one less box to fit into your entertainment centre or TV stand. It's expected to retail for around $390*.

Linksys adds DVD to wireless media box

Montreal-based ICP Solar (www.icpsolar.com), maker of the iSun portable solar charging unit, showed off its technology, which is now built into a prototype from Scott eVest. The forthcoming jacket features solar collection panels along the top rear panel, which charges up a battery pack inside one of the pockets, allowing you to charge your portable devices as they run out of power; alternately, you will be able to connect your portables directly to the solar charging panels. As with other models of the Scott eVest, new solar-enabled models will feature plenty of pockets for your gadgets, and the ability to hide your wires inside the jacket, out of sight.

Get a charge out of your jacket

Flash memory — used for digital cameras, media players, and USB keys — was big, big, big. SanDisk (www.sandisk.com) introduced a number of new Cruzer models, including the Titanium, a USB 2.0 key that can withstand a two-tonne weight (great if you're prone to dropping things under the wheels of cars). Both SanDisk and Iomega (www.iomega.com) released ultra-compact USB memory key models. Iomega's Micro Mini USB 2.0 Drive fits up to 128 MB of data in a device barely larger than a one-dollar coin. Both SanDisk and Lexar (www.lexar.com) introduced USB memory keys that double as MP3 storage when plugged into MP3 playback accessories. SanDisk projects demand for flash memory will continue to grow, especially with the proliferation of camera phones, and says compact versions of both Secure Digital and Memory Stick will pick up steam as add-ons for portable multimedia devices.

Flash memory evolves

Wurlitzer Digital Jukebox

Wurlitzer (www.gibsonaudio.com) has jumped into the digital age with new jukebox models. For those who want the old-style appeal of a jukebox that swaps actual media, 50 and 100 CD jukebox models are available, but the new Wurlizter Digital Jukebox adds a more modern spin. The Digital Jukebox has a thinner, cleaner (and more up-to-date) design that comes in several different form factors depending on your needs. It stores your music on an 80 GB hard drive, and can rip CDs that you insert into the slot along the side. You interact with the player via a wireless touchscreen that resembles a PDA and sits in a recharging spot on the front of the jukebox between uses. The player automatically retrieves CD information from the Net as you insert new CDs. If you don't have the room in your house for a jukebox-style player, the unit is also available in tabletop and component audio-style designs.

(*Converted from US dollars)

Apex Digital (www.apexdigitalinc.com), well-known for its affordable line of DVD players, has jumped into the gaming market with its new ApeXtreme: a console designed to play standard PC games. The console will use Windows XP Embedded operating system and features a 1.4 GHz Via C3 processor, and will come with a DirectX 9.0-compatible graphics component from Via's S3 Graphics division. The console is designed to run most PC-compatible titles (though you will undoubtedly have some difficulty with the most resource-hungry titles). It is expected to cost about $520* when it becomes available later this year. That is more than double the cost of current console-only systems (of which the most expensive, Xbox, retails for about $240), but it will also double as a DVD player.

ApeXtreme game console

Classic games for your TV

For gamers who prefer the classics, Jakks Pacific (www.jakkstvgames.com) has a new solution: don't buy the console, buy the original games. The new products feature multiple titles licensed from the original game ROMs in a single authentic and retro joystick module that attaches directly to your television's video inputs. The Namco version features Pac Man, Dig Dug, Galaxian and more, and a cabinet-style joystick with the metal rod topped off with a red ball. The Atari version looks just like an Atari 2600 joystick, and comes with Asteroids, Missile Command, Centiped, Yar's Revenge, and more. The units will retail for between $26* and $32*.

(*Converted from US dollars)

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All used up and nowhere to go?

Recycling resources for batteries and cartridges

The worst consumer electronics and computer-related consumables are probably batteries, and it's not hard to see why. From a baby's first Elmo toy through to grandpa's hearing aid, we use battery-powered devices almost every day. We also throw plenty of them out. Figures vary, but even low estimates put the daily average in Canada at eight million a day. One way to reduce that number is to use rechargeables, but that just slows the tide; eventually they run out too.

Fortunately, there are many places that reclaim spent batteries. Your own municipality might be one — many cities have some kind of hazardous waste collection program, and batteries, filled as they are with caustic acid, certainly qualify. You can also check the Rechargeable Battery Recycling Corporation Web site (www.rbrc.org), where you can find a list of retailers that collect rechargeables in your area. The list isn't perfect, though; for one thing, it skips some retailers that also take back single-use batteries (I discovered a battery reclamation box at Ikea while working on this article; they're not on the list). Also, searching for places near my home gave me a list that included stores several hours' drive away — some were even in New York.

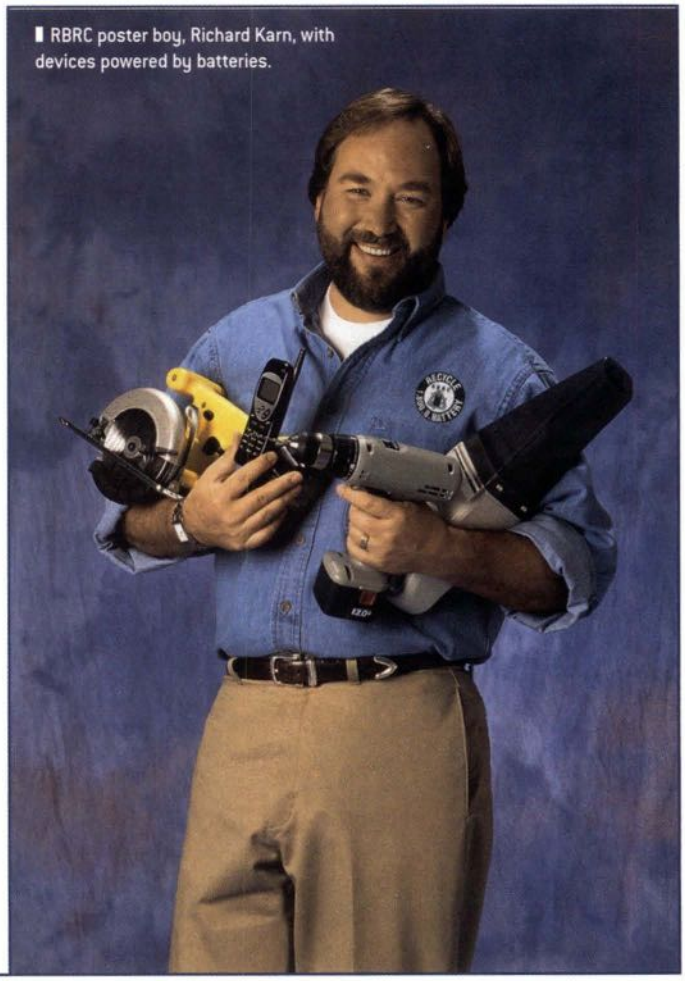
One thing to keep in mind: not everyone reclaims the same types of batteries. They can be divided into several categories: single-use, rechargeable (AA, AAA, and C-cell, for example), sealed rechargeable (as in a cell phone), and coin cell (such as those found in watches).

Printer consumables are a bit easier to deal with. Inkjet printers in particular are notorious for gobbling up huge quantities of ink cartridges, which seems hardly surprising. After all, that's where the printer manufacturers earn their profits. Fortunately, most of the heavy hitters are also willing to clean up after themselves: Hewlett-Packard, Lexmark, Xerox, and Dell all reclaim inkjet and toner cartridges at no cost to the consumer.

(Canon is an interesting case: they not only take back their toner cartridges free of charge, they donate a dollar to an environmental cause for each one received. They don't take back inkjet cartridges, but they're the only company with a longstanding practice of using individual cartridges for each ink colour in many of their inkjet printers, substantially reducing the amount of half-full cartridges wasted.)

If you don't own one of these printers, don't fret; ask your local computer store if they reclaim empty cartridges, or if they know who does. Some larger stores, like Staples (Bureau en Gros in Québec) take back any make of inkjet cartridge. But what about those CDs? You'll just have to be patient; I'll cover that next month.

By Emru Townsend



RBRC poster boy, Richard Karn, with devices powered by batteries.

Ink rethink

If inkjet printer prices seem too good to be true, that's because they are — they're sold at razor-thin margins because the manufacturers know the real profit is in consumables like ink cartridges. But there are ways you can help tilt the odds in your favour.

- Print less: No, really. If that Web site print out is going to end up buried on your desktop, why not just save it to your hard disk until you really need it?
- Lose the colour: Colour cartridges cost more than black cartridges, and you typically have to replace them even if only one of the primary colours is empty. If it doesn't have to be in colour, use the printer driver (the Printer Setup option in the File menu, in most Windows programs) to output greyscale instead.
- Rough it: The better the print quality, the more ink you use. Unless you're handing the printout to your boss, you might want to knock the quality down a notch. As a bonus, it'll also print faster.

Teaching tools

In addition to educating the general public about recycling batteries, the RBRC has a lesson plan for teachers to educate the next generation of consumers — a generation that will likely have greater access to the type of mobile electronics that depend on battery power. The free lesson plan (which can be downloaded at www.rbrc.org) uses batteries as a basis for developing math, science and history skills, and includes interactive experiments. It is aimed at students 10 and up and discusses the merits of battery power, safety tips, and how to recyle. A section on battery consumption statistics and recyling legislation is based on U.S. information, but otherwise the lesson plan is suitable for Canadian students. It is endorsed by the National Geographic Society.

www.hubcanada.com/dvc

HUB
DIGITAL LIVING

DIGITAL VIDEO CONTEST

Let your imagination (and camcorder) go wild.

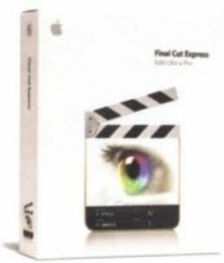
Submit up to 3 ***original*** digital videos, along with the form below, by February 23rd, 2004. Anything goes, but keep it clean. All videos must be burnt to a CD, and must be no more than 5 min. in length. Winners will be announced in the March 2004 issue. Must be in QuickTime or Windows Media Player format. All elements of the video must be original and not infringing on any copyrights.

GRAND PRIZE

The 17-inch iMac

Designed around an ultra-compact base, the Apple iMac features a stunning 17-inch widescreen LCD that appears to float in mid-air, allowing users to effortlessly adjust its height or angle with just a touch. The 17-inch iMac packs powerful features like a speedy 1GHz G4 processor, extreme NVIDIA graphics, and a fast DVD-burning SuperDrive which lets you burn your own movies and photos on a DVD disc that plays in almost any standard DVD player. The iMac also offers two FireWire® 400 and five USB ports for fast, simple,plug-and-play connections to digital devices such as digital cameras, DV camcorders and iPod digital music players.

PRIZES



Final Cut Express

Featuring the same interface as the Emmy Award-winning Final Cut Pro, Final Cut Express is a robust editing solution for digital video enthusiasts. It provides professional-level editing, compositing and real-time effects for full-featured DV editing. Final Cut Express is an innovative combination of power and ease of use. It's optimized for the DV format and comes with all the high-quality compositing, titling and effects capabilities you need for professional-level video.

Video editors can use Final Cut Express to capture, manage and edit digital video; apply transitions, filters and effects in real-time; create titles, composite layers, and produce high-quality graphics and animations; and perform colour correction. Final Cut Express projects can be exported for use in iDVD™ or DVD Studio Pro®, saved back to tape, or exported to any QuickTime® format, including MPEG-4.

WINNING VIDEOS will be featured on CTV's WebMania

NO E-MAIL ENTRIES. *Those e-mailing entries could be subject to visits from angry HUB network admins (and trust us, you don't want that to happen). For complete rules and regulations go to www.hubcanada.com/dvc*

HUB's digital video contest Entry Form. Deadline February 23rd, 2004

Name:.....
Address:.....
E-Mail:.....
Phone Number:.....
Age:.....

Occupation/school:.....
Title of Video:.....
Camera used to film your video.....
Hardware used to generate your video.....
Software used to generate your video.....

Mail your entries to: HUB, Digital Video Contest, 625 Church Street, Suite 600, Toronto, ON, M4Y 2G1

These women don't need rescuing

Since the inception of character-based video games, female characters have generally been non-playable "damsel in distress" types. While heroines like those in Fear Effect may have initially been lauded as strong female characters brought about to give the video game industry a much needed woman's touch, they were little more than moving Barbie dolls of differing hair colour, designed to appeal to a predominantly male audience. These anatomically impossible and damsel-in-distress characters are still prevalent, but today there are some with female lead characters who can take care of themselves.

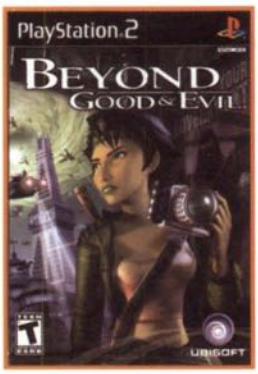
Beyond Good & Evil

Ubisoft, beyondgoodevil.com

For: PC, GameCube, PS2, Xbox Price: $59.99 Rating: Teen

Beyond Good & Evil feels like an interactive movie experience with a well-crafted story from Michel Ancel, the quiet but accomplished French game designer responsible for Rayman.

Gamers lead Jade though the believable yet futuristic world of Hillys as she uses her camera to get documentary evidence of a government conspiracy to take complete control of the peaceful planet.



The Hillyan government is opening up its planet's defense systems to be colonized by a power hungry force called the DomZ, all the while convincing the citizens of Hillys that they are fighting for the planet. Gamers control Jade and her band of IRIS network followers as she uses her camera, fighting skills, gadgets, smarts, and stealth to get documentary proof that the Hillys government is facilitating the DomZ attacks in a bid for power.

BG&E has a great and well-realized cast of characters — including Jade's humanoid pig sidekick/uncle, Pey'j — and a twisting, but not convoluted or hackneyed, storyline. Gameplay is similar to recent Legend of Zelda games and sees players fighting a variety of enemies and figuring out puzzles that, while sometimes difficult, are worked into the story seamlessly and don't hold up the game.

The only real complaints that can be leveled at BG&E are occasional slowdown and dropped frames when either the action is moving too fast for the hardware or there are too many characters on the screen — and its brevity. Clocking in at around 15 hours for a leisurely beginning-to-end adventure, the game finished long before I was ready to pack it in.

That said, there is some replay value in trying to track down the last of the 88 pearls (black market currency) and in trying to snap pictures of the more elusive wildlife species to fill the endangered species photo albums.

Simply put, BG&E is a game not to be missed.

Lara Croft Tomb Raider: Angel of Darkness

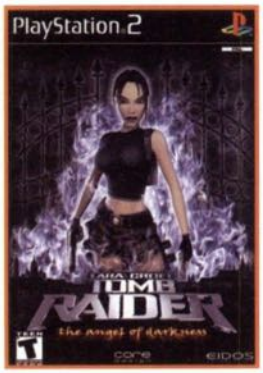
Eidos, www.tombraider.com

For: PS2, PC Price: $49.99 ESRB: T

Lara Croft Tomb Raider: Angel of Darkness is perhaps the most ambitious Tomb Raider game to date. Unfortunately, it is also the worst in the series.

Lara Croft has always had control issues that made moving the digital heroine an exercise in frustration for those used to the more fluid control of hundreds of other games. However, even the relatively poor control of past Tomb Raider games pales in comparison to the abomination that is this newest title. Lining Lara up for a difficult jump or walking on a narrow path is akin to picking up needles wearing bulky work gloves — that is to say, it's stupid and frustrating.

Inside Angel of Darkness is the good game that designers spoke of and attempted to create before deadlines, pressure from management, pressure from Tomb Raider fans who felt they had waited long enough for the latest in the series, or all three pushed the game onto retail shelves before it was properly finished.



The original idea was to create a new breed of Tomb Raider game, complete with in-depth stealth missions, character and stat building akin to current role-playing games, and a progressive level design that creatively blocks access to some game areas and levels until certain skills or abilities have been learned.

Instead, gamers get what feels like a beta build of the game, rife with bugs, slowdowns, and general designing sloppiness that would ordinarily be caught and rectified before a game ever sees release.

While its graphics are impressive and the game audio is up to par, the character building, dynamic conversation, and progressive-level design spoken of in marketing materials and advertisements are all poorly realized and only briefly obscure the fact that the game is static and completely linear.

PC gamers will find numerous "quit to desktop" errors and console gamers will have to contend with game freezes and other inexcusable bugs.

By Andrew Moore-Crispin

Apple getting in the game?

While Macworld 2004 had yet to start at the time of writing, organizers were trumpeting the Macworld Game Arcade for the early January conference, promising a showcase featuring numerous Mac G5s, with some (but not all) of the latest games, along with some recent console and PC best sellers from publishers like Ubisoft, Microsoft Game Studios, Vivendi Universal Interactive, Garage Games, and MacSoft.

Mac users have traditionally been left out in the proverbial cold where games are concerned, forced to make do with a very select few titles. Only those games that have proven very profitable on the seemingly ubiquitous Windows PC platform are ported over to the Mac OS, which represents about 10 per cent of personal computers.

The Macworld Games Arcade sponsored by Apple probably won't dramatically change this fact, but it at least demonstrates to existing Mac users that the company is trying to bring more entertainment — beyond video editing, photo editing, and iTunes — to the platform. It promised games like Halo, Splinter Cell and Lara Croft Tomb Raider: Angel of Darkness (which may benefit from the few extra months of porting and development time, see game reviews, page 22) as well as a few iMacs showing off simple Yahoo! Games-like diversions.

The popular PC title Halo is available for Mac gamers.

Mac's gaming past

Though Apple's approach to gaming today may be lukewarm, it hasn't always been so. The Apple II, which debuted in 1977, was designed at least in part as a games machine, according to High Score! The Illustrated History of Electronic Games (Demaria and Wilson). The fact that it was sold to parents as a homework tool and used by kids as a games machine is neither here nor there.

As the only computer that displayed more than two colours at the time, it was competitive, despite being more expensive than its closest competition: the Commodore PET and the Tandy TRS-80. The gap was closed when Commodore released the Commodore 64 in 1982, a home computer that borrowed heavily from the Apple II.

By Andrew Moore-Crispin

The good and the bad of Mac gaming

Bad

- Small selection relative to PC. Long wait for games already available on PC.
- Game modifications and items less available or incompatible.
- Smaller community for online gaming.
- The one-button mouse.

Good

- Only the best games make it.
- Relatively bug free.
- Occasional Mac exclusive mod or add on.
- Online communities generally more close-knit.
- Generally more stable game experience.

HUB DIGITAL LIVING

PRESENTS ITS Bi-Monthly

PHOTO SPREE

THE CHALLENGE: Portrait

WIN!

LEXMARK P3150 ALL-IN-ONE

The Lexmark P3150 All-In-One Photo Printer is a personal photo processing centre with onboard camera card readers, a flexible flatbed scanner and PC-enabled one-touch photo reprinting. The P3150 generates brilliant borderless 4" x 6" and 8.5" x 11" prints, and makes it easy and convenient to incorporate traditional photos into your digital world thanks to the quality 48-bit flatbed scanner.

THE RULES: You must use a digital camera to capture the subject. Work can be submitted via email (contest@hubcanada.com). Accompanying your photo should be the make and model of the camera you used, the names of any software you used to modify the image and, if possible, the f/stop and shutter speed you used to take the photo.

Submit your photographs, along with the information from the form below, by February 16, 2004. You can submit up to three photographs, all of which must be accompanied by a submission form. Entries must be submitted via email. Files should be no bigger than 500 KB and no smaller that 300 KB. One photo per email.

Contest Rules: Prizes must be claimed by April 15, 2004. Winners must provide valid identification upon claiming prize. The prizes awarded are not transferable and cannot be redeemed for cash. To enter and to be eligible to win, persons must be residents of Canada, and not employees or be domiciled with an employee of CCP Media, its affiliate companies, or advertising or promotional agencies. The winners will be selected by HUB on February 17, 2004 from among all eligible entries received on or before contest close date. Winners will be contacted by telephone or email. In the event that they cannot be contacted within the first week following the contest another entrant will be selected. All entries become the property of HUB and may be used in subsequent advertisements for the contest. All entries must be submitted by their artist and must be original work.

HUB's Photo Spree contest form. All submissions must contain this information. Send to contest@hubcanada.com

Deadline: February 16, 2004

Name: .....
Address: .....
E-Mail: .....
Phone Number: .....

Age: .....
Occupation/School: .....
Title of Entry: .....
Camera Used: .....
Software Used: .....

Food for thought:

Culling your collection

If it's blurred, dark, out of focus, unrecognizable, get rid of it. This is generally good advice for maintaining the quality of your photo collection, but where do you draw the line? Culling artistic or commercial photos is different than culling personal (or to a certain extent, photojournalistic) ones. Most people would agree that a rare but technically flawed picture of a significant person or event is better than no picture at all. With family photos, I generally follow the prescription when in doubt, leave it in. It's surprising how even something as lame as a misdirected shot of some relative's foot or elbow becomes the focal point for a shared memory.

Digital photography tutorial 1

Taking care of your digital photo files

In photography, it's a good idea to organize and take precautions to preserve your pictures. The same is true with computer files. Digital photography brings the two together, so good photo care and good data care amount to the same thing. There are many things you can do to manage your digital photos and two that you definitely should do. In both cases, computers make the task a lot easier.

Cataloguing

Mac OS X and Windows XP include picture-cataloguing utilities, plus many digital camera makers include such software as part of the package, so you probably already have some tools at your disposal. Or you can buy separate software packages for under $100. Cataloguing software makes it so simple to organize your photos and offers so many options for sorting and arranging collections that there's no reason not to take advantage of it.

This is especially true if you are of the "throw it in a shoebox" school of organization, because you don't have to do much beyond transferring the photos from your camera to a designated folder on your computer hard drive. The cataloguing software automatically tags the images with a few identifiers that you can use later to locate one or a bunch of pictures.

In case you didn't know, most digital cameras store extra information called metadata with each image: things like the date and time the picture was taken. Some software automatically logs this metadata, so it becomes very easy to find date-specific photos — birthday parties, vacations, holidays, etc.

You'll also have access to some powerful file management tools that allow you to, for example, batch rename or resize a group of photos with a common name like "2004vacation."

Archiving

Think of all the bad things that can happen to the files on your computer: they might get lost, infected with a virus, destroyed by a mechanical or electrical problem, or corrupted in any number of ways. If you lose some email that way, it's probably no big deal, but what if you lose cherished, one-of-a-kind photos of graduation, vacations, grandparents, grandkids, etc.?

The simplest way to protect data is to make a backup copy and store the backup somewhere safe. Most computers now come with CD recorders, and because blank discs are inexpensive, writing a copy of your files to CD is a simple and affordable backup method. If you have a second hard drive in your computer, you can store duplicate copies there. This will help if your primary hard drive fails, but not if something catastrophic (fire, flood, or theft) takes out your whole system.

No single backup system is foolproof and there are caveats to be mindful of — for example, how long CD-R discs will really last is the subject of some debate — but having some backup system is better than none.

In the coming months in this column, I'll cover a range of digital photography topics such as image editing, printing, etc. If there's a topic you'd like to see addressed, please feel free to email me at david@eyesquared.com.

By David Tanaka

Book review

Start with a Digital Camera, Second Edition

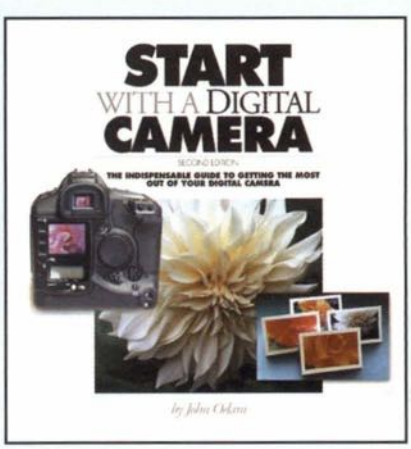
By John Odam

Peachpit Press, 2003 ISBN 0-321-13011-1 $38.99

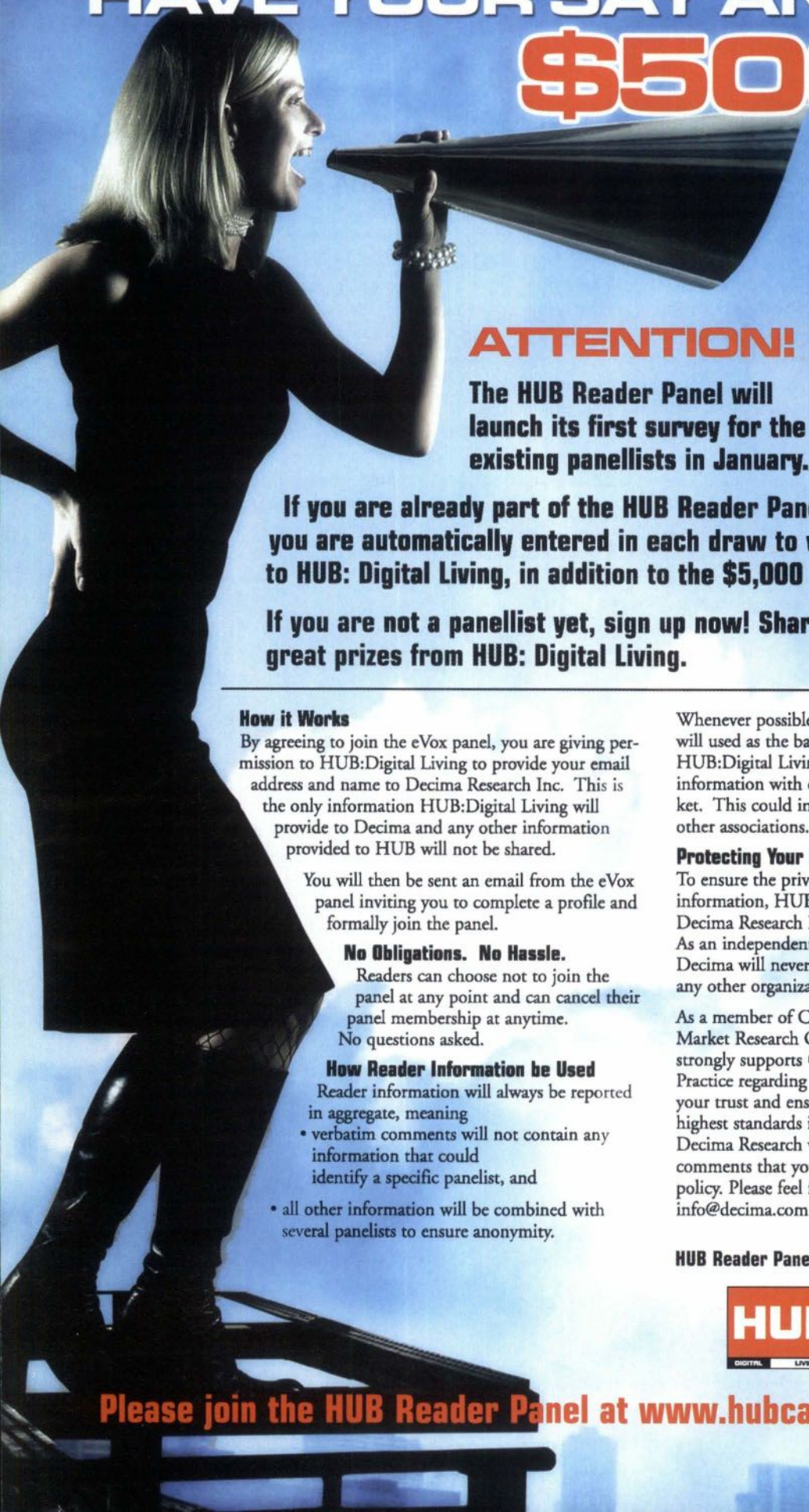
If you've shot a few thousand pictures with your digital camera and wonder "now what?" this book may provide some answers. It's not a technical manual on how to operate your camera (although there is a brief section on the technologies of digital cameras), but a guide to the aesthetics of your pictures.

As the titles implies, it treats the digital image as a starting point for other creative projects like magazine layouts, illustrations, or Web graphics. It covers standard photographic topics like composition and lighting, but gives more treatment to what you can do with image editing software. Being published in association with Adobe Press, that discussion revolves around Adobe products like Photoshop and Photoshop Elements. It seems best suited to a person interested in breaking into the graphic arts field.

Rating: 3.5 out of 5



"HAVE YOUR SAY AND GET $5000!"



ATTENTION!

The HUB Reader Panel will launch its first survey for the existing panellists in January.

A Chance to WIN a FREE Yearly Subscription to HUB: Digital Living (Monthly Draw)

If you are already part of the HUB Reader Panel you are automatically entered in each draw to win a FREE subscription to HUB: Digital Living, in addition to the $5,000 grand prize draw.

If you are not a panellist yet, sign up now! Share your opinion & win great prizes from HUB: Digital Living.

How it Works

By agreeing to join the eVox panel, you are giving permission to HUB:Digital Living to provide your email address and name to Decima Research Inc. This is the only information HUB:Digital Living will provide to Decima and any other information provided to HUB will not be shared.

You will then be sent an email from the eVox panel inviting you to complete a profile and formally join the panel.

No Obligations. No Hassle.

Readers can choose not to join the panel at any point and can cancel their panel membership at anytime. No questions asked.

How Reader Information be Used

Reader information will always be reported in aggregate, meaning

- verbatim comments will not contain any information that could identify a specific panelist, and
- all other information will be combined with several panelists to ensure anonymity.

Whenever possible, reader information and opinions will used as the basis for editorial content in HUB:Digital Living. In addition, HUB may also share information with other stakeholders in the digital market. This could include manufacturers, retailers, and other associations.

Protecting Your Privacy

To ensure the privacy and security of your personal information, HUB: Digital Living has partnered with Decima Research Inc to administer the eVox panel. As an independent third party, specializing in research, Decima will never share your personal information with any other organization.

As a member of CAMRO (Canadian Association of Market Research Organizations), Decima Research strongly supports CAMRO's Standards and Rules of Practice regarding Internet research. In order to gain your trust and ensure that your privacy is held to the highest standards in the market research industry. Decima Research welcomes any questions, concerns or comments that you may have regarding our privacy policy. Please feel free to contact us by e-mail at info@decima.com

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IPv6: a smarter Internet

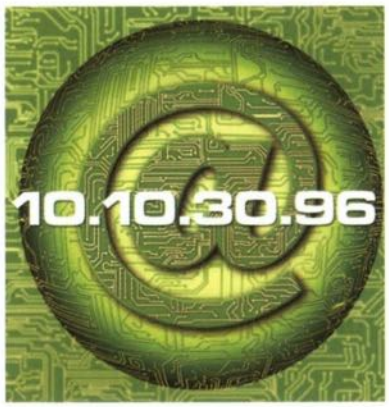
Andy Walker

Imagine if your cat had an Internet address. In the future, it will. So will your doorbell, your snowblower, and each of your children.

But, not before "IPv6." Yes, another annoying tech term. And it sounds weird when you say it ("Eye Pee Vee Six"), but it's an important one.

An IP address is a set of numbers separated by dots that acts as a numeric identifier for every device that connects to the Internet. When your computer, home router, or mobile phone connect to the Internet, each identifies itself with an IP address. If my computer wants to communicate with your computer, the two devices swap IP addresses and then data can move between them.

That system of numbers has been around since 1973 and in geek circles is called IPv4. But IPv4 has limitations primarily because there are only 200 million or so combinations of numbers possible and there are 60 million people around the world on the Internet today. We get around that shortfall by sharing IP addresses when we connect to the Internet. When we need an IP number, our devices get one from the Internet service provider. When they're done, the number is recycled.



Wouldn't it be great, though, if we could each have our own IP address from birth to death? Data could find us anywhere. Scary to some maybe, but in a mobile, digital connected world, it would be very convenient. No more leaving your dental X-rays behind when you change dentists, because they could be allocated to your personal IP address and could be accessible to you anytime you asked for them.

Because there is a shortage of IP numbers, we can't assign an address to every person in the world. Enter IPv6, an update of IP address technology being promoted by some really bright minds. What IPv6 does is allows for as many as 10^{38} unique Internet addresses. That's a really big number and hard to imagine, but it's enough addresses to give every molecule on earth an IP address.

This is going to be very handy because it means everything we own could be assigned a trackable address so we could locate anything we wanted anytime we wanted on the network. It's the underpinnings of the smart home, where the home knows where everything is — and really, to my mind, it's the underpinnings of a smart future.

Alex Lightman, spokesperson for the North American IPv6 Task Force, and his colleagues believe that everything that's worth US$25 or more will one day have an IP address. (The one exception is food: Your side of beef will not be on the Internet.)

From a practical perspective, this means that a hockey mom will be able to see all the data traveling to and from her children's computers, devices and, yes, even their Game Boys. She'll be able to remotely program the microwave. And the fridge will call for a repairperson and perhaps even be fixed remotely. There will be privacy issues, but the advantages far outweigh the disadvantages.

From a North American perspective, we're a little behind on IPv6, while China, Japan, and Korea have taken a serious interest. That positions the Asian nations and their economies way ahead of us when the next generation Internet comes.

Lightman is worried about this. "We're Napoleon and this is our Waterloo!" he exclaimed with a zeal that's infectious. Rightly so.

Since the U.S. controls most of the IPv4 addresses, American companies are less interested in IPv6. "Cisco, HP, [Internet service provider] NTT Verio have done their job on IPv6," he said, "but Sprint, AT&T, Microsoft, Intel — these guys have not."

However, the U.S. Department of Defense has mandated the use of IPv6 by 2008. The rest of America is less bullish, though anything that the American industrial military complex gets interested in will likely interest the rest of America (and the rest of us) sooner or later.

Lightman organized a forum about IPv6 in January at the Consumer Electronics Show in Las Vegas. Four hundred people were slated to attend. Lightman believes it may be the turning point.

"We're lone voices in the wilderness, but once Madison Avenue and Hollywood and Washington and Silicon Valley realize it's important," said Lightman, "it'll be a chance to redo the Internet and do it better."

Andy Walker is a Canadian journalist based in San Francisco.

WHAT COULD POSSIBLY GO WRONG WITH A REFILLED CARTRIDGE?

A third party cartridge comes with many hidden costs: fuser contamination, premature charge roll failure, difficulty in fusing toner to label stocks, operator interventions, hardware failures, poor print quality and – nastiest of all – toner spills. Which leads to the biggest hidden cost: ticked-off employees.
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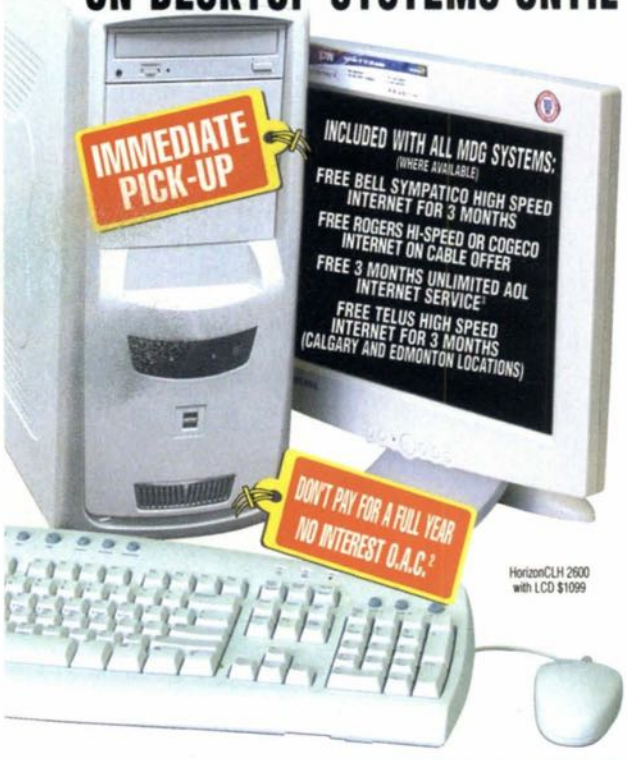

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