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**ISSUE 76 January 2010** ISSN 1726-3358



**HTC Tattoo** 

Sony VAIO Z56GG

**Canon PowerShot S90** 

## **TECH TRENDS FOR 2010 ISSUE** SA's LARGEST TECH MAGAZINE www.techsmart.co.za



#### **One Big Idea**

At the start of each year We stare into our crystal ball (or is that LCD screen?) trying to predict the big technology trends for the forthcoming 365 days. While the Google Chrome OS, commonplace 3D technology and Microsoft's Project Natal all seem very exciting, it's the unexpected that really interests me. It's that One Big Idea that finds fertile soil from which to sprout on the internet, and in a very short period of time explodes into a gamechanging business. Take for example Facebook or

Twitter, did anyone foresee them taking off? I don't have a Big Idea of my own, but I do support this one: we as mankind must find a form of governance that doesn't involve politicians. Any takers?

Enjoy this issue.

Mike Joubert <michael@techsmart.co.za> I am holding the lovely Canon PowerShot G11.

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### LETTERS / EMAIL

### Last month we asked you: What do you expect the biggest technological trend to be for 2010?

#### Hi TechSmart,

ett

The internet itself is likely to become "smarter" as more companies embrace Agile development models and Cloud Computing. These two approaches involve taking advantage of available resources in order to improve capability, performance, efficiency and fault tolerance etc.

Whilst most companies and individuals use less than 10% of the processing power of their computer equipment, wouldn't it make more sense to use Cloud computing, i.e. running applications as services off central servers and paying only the processing power they need to use? Much like using a metered taxi as opposed to owning a Rolls Royce you drive only twice a week.

### Norman Pariza

Hi Norman,

Great letter, Enjoy your Lexmark printer! Mike

Write to us at info@techsmart.co.za



COMMENTS FROM TECHSMART.CO.ZA This is a type of phone I want. Xcellent!!! ebenkoa19 on the Sony Ericsson Aino.

I'm impressed with this mean machine, although I'd like to dig in deep and see how to enable all them nifty features, anyone has a site I can check to tweak the device?? - Doxin on the HTC Touch Pro2.

www.tp2forum.com seems like a good place to start – Ed.

Got the E52 for 2 weeks now and must say that I am NOT impressed with battery life, only get 2 days of moderate use. -Herbert on the Nokia E52.

Here's a cool tip in Windows 7. You can pin programs to your taskbar, just right click an app and select pin to taskbar :) - Jez

### TechSmart.co.za online poll results



### LEXMARK **GREEN Fast Fact**

#### Lexmark's Life-Cycle Analysis found that most of a printer's carbon footprint actually comes from paper use (47%) compared with around 10% from energy use and 11% from cartridge use.



**Question:** Give us your feedback on any of the articles or leave

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**Anti-Virus** 2010

2010

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# Kaspersky Anti-Virus 2010

provides the basic tools needed to protect your PC.

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### Aussie Government: Please use Facebook

In a draft report on new media issued by the Australian Government, state bureaucrats are encouraged to make active use of sites such as YouTube, Wikipedia, Facebook, and Twitter, in an effort to bring government closer to the public. A similar request has been made by local state officials, complaining that they are bored of playing Solitaire.

### 2011: A Space Odyssey



ShipTwo craft. For about R1.5 million (\$200,000) rich people can enjoy a two-and-a-half-hour journey to just above the earth's atmosphere, with all politicians being left there in space. Flights start 2011, book now to avoid disappointment.

### Apple going upstream

Does the future of digital music lie in streaming content over the net rather than owning tracks outright? It just might be.

Apple announced recently that they bought relatively unknown music streaming site LaLa. The buyout has fuelled speculation that Apple's iTunes store may offer a music streaming service in addition to selling tracks. Streaming is also believed to be a remedy to rampant piracy, as music streaming sites like **Spotify.com** and **Pandora.com** gain in popularity.

### **Tweet in Klingon**



The announcement that Twitter users are now able to tweet in Klingon (http://tweetinklingon.com) may just be the most significant development in its short history. Tweeting in Klingon: *nuq DichDag chaH Qub vo' SoQmoH?*  Google in the News

- Google chief executive Eric Schmidt, who once called Twitter a "poor man's email system", recently activated his own Twitter account. You can follow him @ericschmidt.
- In an attempt to cosy up to the newspaper industry, Google has launched the Living Stories project. Basically it presents news headlines as topics (for example "The War in Afghanistan"), with relevant opinion pieces and news articles grouped below. It was created in collaboration with *The New York Times* and *The Washington Post*, and can be seen as a counter to the heavy criticism coming from Rupert Murdoch's News Corporation, which sees Google News as a threat. Visit it here: http://livingstories.googlelabs.com/
- In a bid to capture the real-time search market, Google will display recently submitted updates from social networking sites such as Facebook and Twitter. Real-time search has become important since people are turning to sites like Twitter for 'as-it-happens' updates to breaking stories and events.
- Google Goggles, a downloadable app for Google's Android cellphone operating system, enables you to search via pictures rather than words. Tourists for example can take a picture of the Eiffel Tower with their cellphone, submit it via Goggles and then receive search results back.



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# The most drool-worthy tech from across the globe.

Following on the heels of the Amazon Kindle and the Foxit eSlick eReader, the Elonex eBook 511EB ebook reader is now available in SA. Compact, with a 5" display, the 511EB sports a full QWERTY keyboard for making notes as well as typing your



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comments on books. R2499 from selected CNA stores.



Microsoft has announced that a free Beta version of its Office 2010 suite is now available to the public for download. Go to http://tinyurl.com/moffic1 to try before you buy.

Amb released the ATI Radeon HD 5970, Which according to them is the world's fastest standalone GPU with more than 5 Teraflops of computing power. The RRP is a bank-breaking **R7200**.

A fter many "no we will not" mutterings from Nokia SA, it has finally been announced that the N900 will be launched in SA. The N900 runs on the Linux-based Maemo operating system and sports a 3.5" touch-screen, 1 GB of RAM and the ARM Coretex-A8 processor running at 600 MHz. It will arrive in SA in the second quarter of this year. Airpunch.

Nokia is also set to release the 5330 Mobile TV Edition in SA in the first quarter of this year. The phone makes use of DVB-H technology, allowing for TV programs to be showcased via the sharp 2.4" screen.

Samsung has launched their open mobile platform, bada, and will stop making use of Symbian this year.



NAVIGON has introduced three new GPS units to the SA market. The devices include the entry-level 1400 with a 3.5" screen, the midrange 3300 max with a 4.3" screen and the flagship 6300 also at 4.3". The 6300 includes City View 3D that indicates the shape and position of

buildings in 3D, and Landmark View 3D that displays well known landmarks, like the Castle of Good Hope, in 3D. It retails at a recommended **R3299**.

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### **Feathered frequencies**

Male birds of a rare South American species seem to know just how to wing it to get a pretty girl's attention. According to a recent report in the *Proceedings of the Royal Society*, male club-winged manakins

attract females by rubbing specialised wing feathers to produce a high-pitched, violin-like sound. These birds have nine neighbouring inner-wing feathers, with the sixth and seventh ones in the row having enlarged hollow shafts. When the feathers are rubbed at their natural vibrating frequency, all nine feathers join in. The feathers then resonate as a unit at about 1500 Hz, which is just what the females want to hear. A harmonic tone a bit louder than the fundamental tone is also produced. The researchers found that although all feathers naturally resonate at 1500 Hz, the vibration would not be audible without the amplification created by the two special feathers. Talk about dual functionality.



### Walky talky

People walking and talking are a common site in today's fast-paced world. But, researchers say talking while walking is perhaps not such a good idea. According to a study soon to be published in the journal

Accident Analysis and Prevention, people who talk on cellphones while walking on busy streets are not as adept at navigating through obstacles as is widely believed. A group of college-age adults walked on a treadmill in a virtual environment that simulated a busy inner city street, complete with speeding cars and other pedestrians. Phone users took 25% longer to cross a street and were more likely to fail at the task in the allotted 30 seconds compared to a control group of iPod listening peers. The effect was even more striking in a follow-up study with adults over 60: phone users got run over by virtual cars 15% more often than non-talkers. Walk the walk, but don't talk the talk.

### Switched on



Just over 50 years ago a tiny electronic switch called the transistor revolutionised the world of electronics. Now it seems a much smaller switch will help keep pushing PCs forward. Researchers recently wrote in

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the journal *Science*, that they successfully developed nanoscale transistors by alternately heating and cooling tiny particles of a gold-aluminium alloy in a vacuum chamber and then introducing silicon and germanium gases. Once the alloy was saturated with the gases, ultra-thin silicon wires and a sharply defined germanium layer precipitated on the alloy. With the precise configuration electron flow can be controlled so accurately that it can be switched on and off at will. For increased processing power more transistors need to be placed on a microchip, but because of their size, today's silicon transistors are expected to scale to their limit within the next decade. Nanoscale transistors may thus be just the breakthrough required to satisfy our need for ever smaller, yet more powerful electronic devices. [LP]

### Extra Extra Extra!

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# New status update: Fired because of Facebook

Can a contentious Facebook status update cost you your job? TechSmart discuss some of Facebook's legal implications with Liza van Wyk, CEO of training, consulting and project management service provider AstroTech.



### "I hate my job". Can updating my Facebook status like this cost me my job?

It depends on what your company policy and procedures say you can and cannot say on your Facebook profile. But it will probably more likely result in a disciplinary rather than dismissal.

#### Why is there a problem with posting "My boss is a huge idiot" on Facebook, if I could just as well have said it round a braai to friends?

The problem is that the comments are being broadcast more widely than if you simply said it at a braai. Also the comments are in a fixed medium on a website, which can be accessed subsequently to verify whether the comments are true or not. So this comment would definitely pose problems.

#### We've heard stories of employers asking potential employees for permission to access their Facebook profiles during the interview stages. Is this legal?

It is not a legal requirement that you do so but it may be part of character reference that the company may seek to obtain. But there is no legal obligation on you to open your Facebook profile to a potential employer. It is, however, not illegal for an employer to request this and perhaps even desirable if the position being sought is, for example, in National Security.

Naturally, you shouldn't be stupid enough to post status updates of you having a good time, while supposedly being sick in bed off work. But, if you did, what type of action could an employer take against you? Absolutely, to claim that you are sick whilst actually just pulling a "quicky sicky" could be a dismissable offense.

**Is my boss allowed to track the sites that I visit while I'm at work? How about the mail I send out?** Yes, Section 6 of the Regulation of Interception of Communications Act allows employers, under specific circumstances to intercept and monitor employee internet usage. One such requirement being that the employee must give either their express of implied consent. This consent is often obtained in the contract of employment.

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# TRENDS FOR 2010, AND BEYOND 2010 looks to be stocked with some awesome new advances on the technological front. We say: "Bring it On!"

### Soogle Chrome OS

With Google officially releasing their open-source Google Chrome OS later this year, we could be in for one of the most interesting IT battles in recent history. Microsoft Windows vs Google Chrome OS – what a prospect. With a number of computer manufactures including Acer, Lenovo and HP, planning to have machines running

Chrome OS, Google has the support. But will Chrome turn out to be nothing more than a damp squid?

Last year November the Chrome OS was released to the open-source development community as Chromium OS. Its reception can best be described as muted, with Chromium said to be nothing more than the Chrome web browser supported by web-based applications. If Google's vice president of product management, Sundar Pichai, is to be believed, it won't even support hard disk drives, only SSD memory. Little wonder then that the Chrome OS is first to be released on netbooks. Whether Google is busy with major coding to get Chrome OS ready for mass release on regular PCs and notebooks is debatable, but for now the much anticipated Google operating system looks less like a bang, and more like a whimper.

### **Solution** Gesture driven gaming

The Nintendo Wii was the first console with motion-sensing technology, with the Wiimote control emulating your movements on-screen. Now Microsoft is doing away with the need for a controller altogether, with their awesome looking "Project Natal" due for release in November. The Natal sensor device combines a depth sensor, an RGB camera, a voice sensor and its own processor to track movement in 3D, literally making your body the controller. It will work with any Xbox 360, and what's more, it can recognise voices and faces, respond to voice commands and scan in real life objects to use in-game.

igher data transfer speeds are on

the agenda as both Bluetooth

3.0 and USB 3.0 are due for re-

lease to the consumer market in

Bluetooth 3.0 was formally

Special Interest Group (a not-

for profit trade association) in April

2009. The new standard will benefit

from the 802.11 radio protocol which

adopted by the Bluetooth

now in Japan only.

2010.

The PS3 isn't standing idly by, although motion sensing on

Sony's wand-shaped motion controller, rumoured to be called

"Gem", follows Nintendo's path more than it does Microsoft's.

Like Project Natal, it uses a camera to gauge your motion, but

just as the Wiimote, the action in a game is still handled by a

controller, rather than body movements. It's speculated that

>> Bluetooth 3.0 and USB 3.0 SS

the Gem will see the light of day as soon as February, albeit for

translates to increased data throughput rates, from the current

3 Mbps to 24 Mbps. Basically, transferring large multimedia

an absolute pain in the backside, plus there's even talk of

to evolve into what is being called SuperSpeed bus. First

channels, better power supply to devices and the ability to

receive and transmit data. Wide scale consumer adoption is

expected to occur in 2010, with the promise of 4 Gbps of raw

demonstrated in late 2007, USB 3.0 includes four more

throughput, 10x more than current 2.0 speeds.

files like video, music and images wirelessly will no longer be

streaming video, say from your phone to your TV, wirelessly.

USB, the world's most popular peripheral interface is about



enovo MADE IN CHINA, PROUDLY

TechSmart was invited by computer manufacturer Lenovo to spend a few days in Beijing, capital of China and the heart of Lenovo operations. We came back with the impression that this Chinese dragon is not in dreamland anymore.

When a Chinese company took over IBM's strong ThinkPad laptop division in 1995, it left the industry stunned. How is it possible that a relatively unknown computer manufacturer from the East can take over arguably one of the most innovative and respected laptop brands? The question on everyone's lips was: "Who exactly is Lenovo?"

#### Chinese innovation

As a brand Lenovo is relatively unknown in South Africa, but in China they are massive and the number one computer brand in the country. In fact one in every three computers sold is a Lenovo. Started as Legend in 1984 on a puny budget of only \$25 000, they soon started releasing a string of innovative products for the Chinese market, including the first PC to operate in



Lenovo IdeaCentre B500, the ultimate all-in-one for gamers and multimedia users

Mandarin, and the extremely popular Wave PC in 1999. The Wave simplified a then difficult internet connection process (including signing-up for the net) by simply allowing users to press the single internet button mounted on the machine.

#### Legend becomes Lenovo

Legend grew as the massive demand for PCs in China increased. Eventually hindered in their international ambitions by the name Legend, the company changed to Lenovo in 2003. From there it was a short jump to them buying over IBM's PC division in 1995 for \$1.75 billion. At first, both the name IBM ThinkPad and Lenovo appeared on all ThinkPad released, but IBM was completely dropped in 2008.

### **Think and Idea**

128

477

113.

Views

A key to understanding Lenovo's offering is in their segmentation of their business and consumer offerings, categorised under the Think- and Idea series respectively. While the ThinkPad notebook range still remains a mainstay under business users, provoking the same brand loyalty from ThinkPad users as most provincial rugby teams from their fans, it's the Idea series' consumer notebooks (IdeaPads) and all-in-



### >> 3D technology

 $\frown$  010 will be the year 3D Cracks the consumer electronics market. While the technology has been around in a number of forms for many years, consumers are likely to encounter a lot of 3D capable devices this year.

Sony, Philips, LG and Panasonic are all looking to launch 3D TVs in the consumer

space. We already looked at Acer's well priced 3D notebook last year, with a number of manufacturers hot on their heels with their own releases this year.

Watching movies and sports events in 3D from your own living room is literally just around the corner. Sony's announcement about 3D broadcasts and an 'official 3D film' for the 2010 FIFA World Cup, are examples of just how close we are. A draft standard for bringing hardware accelerated 3D graphics to the web has also been announced.

While not the same type of technology, 3D as a marketing trend is also extending to other devices, with compact cameras (Fujifilm's FinePix Real 3D W1) and GPS devices (using NAVTEQ maps) featuring 3D modes.

### Life Capturing

The extent to which we document our lives via capturing video, photos and recording audio is set to increase, again. If we're to believe Microsoft researcher Gordon Bell we'll be capturing our entire lives in digital memory by 2020.

Bell is a living experiment of so called "life capturing", having captured, catalogued and stored many years of his life in digital format. He also recently published *Total Recall*, a book that explores the idea of an e-memory revolution.

With inventions like Microsoft's passive, wearable SenseCam which automatically captures photos from around your neck every few minutes, and the growth of free/cheap cloud storage his premise doesn't seem too far off. The important thing to remember is that life capturing is not about broadcasting interesting memories but about recording banal, everyday events and nonevents that mean something to you. (See also the Big Issue article p25).



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**Company Profile** 

FEATURE

one PCs (falling under IdeaCentre) that grabbed our attention.

#### Lenovo Design

It's the multi-national team behind the Innovation Design Centre that are responsible for Lenovo's range of interesting designs. These days the design of a laptop, and now also all-inones, plays an equally important role as the technology behind it. A simple aspect, such as a textured cover design that can be felt when touching the laptop (as featured on some of the latest IdeaPad range) helps for example for a more personalised product experience. Although Lenovo has been the recipient of major awards. including the prestigious Red Dot Best award, we noted that their design of the Beijing Olympic Torch is what they take the most pride in.

#### **Plans for Africa**

The so called emerging markets, under which South Africa is categorised, is seen as a key area for growth by Lenovo. South Africa not just as a market, but also as a stepping stone into sub-saharan Africa is thus of major importance. While the Lenovo brand isn't yet as well known in SA as say Acer and HP, they have a lot to offer consumers. And from what we've learned from our trip to Beijing, Lenovo will soon be one of the key players here in the Southern tip of Africa. [MJ] For more info contact Lenovo SA on 011-911-2000.

### IOVO FAST FACTS

- Lenovo comes from the combinations of "Le" from Legend, and "novo" pseudo-Latin for new.
- Number one PC vendor in China since 1997, currently fourth largest in the world
- Lenovo was one of the main sponsors of the 2008
- Beijing Olympics, and designed the Olympic Torch. • There are 32 Lenovo ThinkPad T61p laptops onboard
- the International Space Station.

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### 12 PC HARDWARE Notebooks

## Samsung X460 Thin, light and smart



Thin-and-light notebooks are often referred to as the CEO notebook because of their mix of high-end features and mobility. Having looked at the entry level and highend thin-and-light market we were excited to review Samsung's X460 with its mid-range price.

We've looked at a few thin-and-lights this year like Acer's well priced Timeline 8471 (**R12 999**) and Lenovo's pricey ThinkPad X301 (R24 999). [Visit www.techsmart.co.za for these reviews.]

### Hardware

As a mid-range thin-and-light the Samsung doesn't skimp on the components front, with a 2.4 GHz Intel Core 2 Duo P8600 CPU, 3 GB of RAM, a 250 GB hard drive and a Nvidia GeForce 9200M GS GPU. Running on a 32-bit Windows Vista Business OS we had few troubles. We ran multiple applications simultaneously, did a little work in Photoshop and even did some light gaming, all without hassle. It's not ideal for serious gaming however.

It also sports a very good 14.1" LED display that is bright and clear and is suitable for use indoors or out. All the connectivity features you would expect are present with three USB inputs, WLAN and a 7-in-1 card reader. Lastly the inclusion of an optical drive and an HDMI out was very thoughtful on Samsung's part, letting you explore the machine's full multi-media capabilities.

### Look and feel

The X460 looks every bit the impressive business notebook Its chassis is made of a hardened, matte black plastic that feels very sturdy. It features a two-textured lid, with twothirds of the lid covered in a red brushed aluminium plate and the other third a glossy black plastic covering. Its keyboard is minimalistic, but well spaced, lacking dedicated media keys. The trackpad is far too small for regular use, especially when enjoying the multi-gesture controls on offer. Where the X460 shines is its size, it weighs just 1.84 kg and has dimensions of 333 x 245.7 x 31.9 mm. This makes it one of the slightest 14.1" notebooks currently available

### Conclusion

Bang in the middle of the thin-and-light market the Samsung X460 looks good, performs well and offers all the extras you're looking for. While R14 799 is pricey it's well worth it. From Computer Corporation on 08616-08616. [TM]

techsmart.co.za | January 2010

### Sony VAIO VGN-Z56GG

# Moving on up

Sonv's VAIO notebook range has always had an air of sophistication about it. Ditto for the extra bucks on the price tag. One of their latest ultra-portable notebooks, the VAIO VGN-Z56GG, is no exception.

### Looks

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he VAIO comes with an Apple-like isolated keyboard, with the keys separated by brushed aluminium. It looks gorgeous and is a pleasure to type on. The trackpad was large enough, although it didn't include gesture controls as seen on some of the new Samsungs and Acers.

Although the 13.1" screen looks stunning and was marvelous for watching movies, with its 16:9 aspect ratio and LED backlight technology (plus really good onboard audio), it does seem very flimsy. The VAIO is not as thin-and-light as Lenovo's X301 but still a very decent 1.48 kg with a so-so thickness of 33 mm.

### What's inside

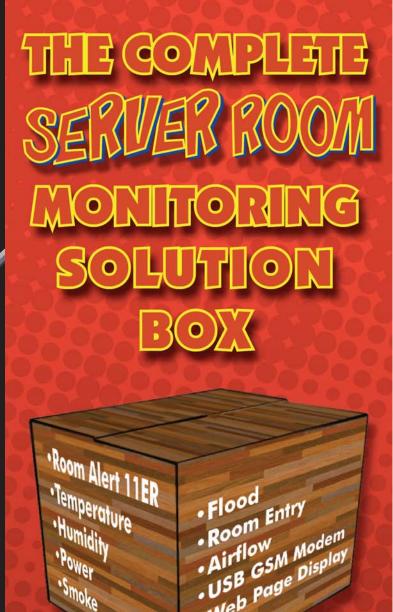
As far as specs are concerned Sony really packed in some power. Onboard you'll find the powerful Intel Core 2 Duo P9700 running at 2.8 GHz, an almost overkill of 6 GB worth of DDR3 RAM and a very decent 320 GB of hard disk space. The Z56GG also carries two graphic processing units - the more powerful but battery intensive NVIDIA GeForce 9300M GS, and the less draining, less powerful Mobile Intel Graphics Media Accelerator 4500MHD. Using the dedicated Stamina/ Speed control you can choose between Stamina or Power, each utilising the appropriate GPU.

You'll also find two programmable buttons which can be used to launch applications or to change settings via VAIO onboard software. As with most laptops this onboard software is pretty much a hit and miss affair, with the distracting VAIO Gate application a good example of software we killed ASAP.

### Connectivity

As far as connectivity is concerned Sony included a Wireless LAN up to the powerful 802.11 n standard, a FireWire (i.LINK) port, memory card readers, a VGA port and a HDMI port. We would have liked an extra USB port to add to the two Sony included, plus there's a PC card slot. We liked the little plastic covers on some of the slots, although the keyboard will get dusty since the lid (when shut) doesn't cover the keyboard sides. The machine runs on Windows 7 Professional.

As always Sony puts a premium on its VAIO range, so the **R20 499** asked for the VGN-Z56GG isn't unexpected. Having said that, the Z56GG had very good performance and connectivity options and looks really smart, plus the ability to switch over to a less powerful GPU gave battery life a significant boost. From Laptop City on 012-663-1155. [MJ]



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MOBILES

## Smartphones

## HTC Tattoo Making its Mark

Trends often have a way of repeating themselves. As we move forward old ideas are habitually revived and updated. Samsung and HTC are bringing back interchangeable covers this year with the Corby and the Tattoo respectively. Not a bad idea, considering Nokia sold more than 126 million units of its coverswappable 3310.

The HTC Tattoo is particularly interesting as it's the first Android device aimed at the trendy mid-range youth market. The fact that you can browse to tattoomyhtc.com to buy and design your own covers (at €12 a pop) seems almost gimmicky in comparison to the value you get from a well priced Android device.

### A mid-range Android

For a recommended retail price of **R4599** you receive an Android device that features an uncompromised version of Android 1.6. It also includes the full implementation of HTC's Sense Experience, exactly as it appears on the HTC Hero,





which is incredibly user-friendly with seven customisable home-screens and excellent social networking integration.

#### Hardware

Beyond running on a superb OS, the Tattoo offers all the latest connectivity options; Quad Band GSM, 3G HSDPA, Wi-Fi 802.11 b/g and Bluetooth 2.0. It's powered by the same 528 MHz Qualcomm processor as HTC's three other Androids. Also on offer is a 3.5 mm jack, an accelerometer, a 3.2 megapixel camera and GPS support with A-GPS.

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months

of 2009

#### Touch experience

It's not without its faults though, especially using its touch-screen. The Tattoo is the first Android device to feature a resistive touch-screen, basically being activated via pressure rather than the electrical impulses in a human finger (like a capacitive touchscreen). The touch experience is consequently a little frustrating, especially when typing via the onscreen QWERTY in portrait mode. The device's smallish 2.8" screen and average native resolution of 240 x 320 don't help things either.

#### Conclusion

The Tattoo highlights just how versatile and device agnostic the Android platform is becoming. While its display is a little too small for our liking, the device is fantastic value, offering the full Android experience on a mid-range budget. [TM]



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### Two modes:

- It can call you when it detects sound in a room acting as an alarm.
- You can call it to manually monitor a room or listen in on conversations.

## www.omnilogsa.com

### Sony BDV-E300 Blu-ray Home Theatre System Better Blu in a box



As Blu-ray players become more affordable manufactures are producing a wider range of products. The Sony BDV-E300 for instance is a 5.1 channel home theatre system that comes with a Blu-ray player.

The BDV-E300 is incredibly easy to setup as everything you need comes in the box. Setting-up and calibrating the 1000 watt system takes just 20 minutes as the entire process is mapped out for you with colour coded wires and step-by-step instructions.

Sony's Xross Media Bar UI, which is very similar to the PlayStation 3's, is incredibly simple to navigate. Unfortunately the same can't be said of the BDV-E300's remote, which is cluttered and frustrating to use.

The quality of the sound output is decent, if not excellent. Sounds are crisp, clear and balanced, but the bass is a little underpowered.

The fact that its USB port is only useful for proprietary Sony products is frustrating, as you can't plug in a hard drive to playback other media like DivX videos.

The BDV-E300 retails for **R8499**, which is rather pricey, but well worth the quality.



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## Philips BDP3000 Blu-ray player Blu-ray for a little less



## The Philips BDP3000 Blu-ray player is one of the first to drop below the important R2000 barrier.

It sports a slick black look that fits in perfectly with the latest HDTV designs and we can definitely not fault Philips for their minimalist front panel design. Loading of Blu-ray disks is quick enough and operating through the easy to navigate menu structure is a breeze with the very likeable remote.

While the Philips has an Ethernet port to connect to the net to download extra content for BD Live enabled movies, the problem is that you don't have the memory on the Philips to host it. To navigate round this you need to stick in a 1GB or larger USB flash disk in the provided port at the back. You can of course view regular DVDs on your Blu-ray player, with the added benefit that the Philips upscales DVD content to give it a more HD gloss, although definitely not as good as a true Bluray disk.

At **R1999** the stylish and competent Philips BDP3000 makes Blu-ray video more accessible, it's just a shame about the cost of Blu-ray disks.



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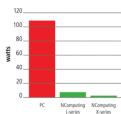
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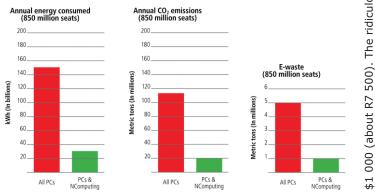
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## Lexmark Prevail Pro705 All-in-One Do we hear an Eco?



Apart from the wireless connectivity we've come to love from Lexmark, their Prevail Pro705 all-in-one also features an interesting Eco Mode button.

Dress it once and it switches to double-sided printing to save paper, press it again and it introduces a lighter, ink-saving print mode. These are both excellent ways to cut office spend, and paper wastage.

Lexmark states maximum printing speed for black as 33 ppm and 30 ppm for colour. Although their quick print is very fast, we couldn't quite get the same amount of pages Lexmark claims. We did get very good quality of printing, even on the fastest printing speed. The flatbed scanner has a 4800 x 1200 ppi scanner head, which is above average and the Lexmark comes with the easy to use Printer Home software.

Onboard you'll find slots for memory cards, USB drives and PictBridge cameras, with printing being handled from the 2.4" I CD screen

This business all-in-one is easy to use and performs well at scanning and printing, making it a good choice if you want fax, eco-mode and Wi-Fi support.

R2499 from Computer Corporation on 08616-08616.



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HP Photosmart A646 A toast to printing

Printers

We've always enjoyed these little toaster size printers from HP.

hey're easy to operate, can print from a wide array of sources, and are small and compact enough to easily pack away when not in use. The new Bluetoothenabled A646 is no exception.

HP is serious when it comes to PC free

printing, slapping a massive 3.45" touch-screen on top of the

A646 to make it easier to select images to print. Images can be sourced directly off the most popular memory cards, USB flash disks or from PictBridge enabled cameras. The A646 also includes Bluetooth, so all those pics residing on your phone are ready to be printed out. If you really want you can print off PC too.

We were surprised at the quality of prints coming out of these small printers. Unfortunately there isn't really a print-out tray to catch printed pics so they tend to spill around.

The convenience of the A646 doesn't come cheap though. It has a RRP of R1980, more than their recent Photosmart Plus 3-in-1. Visit www.hpshop.co.za for more info.



# Canon PowerShot S90 compact camera Now with Ring of Power



Canon's little black number, the S90, hides some powerful innovation in a very compact body, with the control ring situated round its lens being a game-changing feature.

### The control ring

This ring can be assigned to control certain functions, for example changing the exposure, selecting manual focus or auto-focus, selecting the white balance or changing the ISO. The most useful of the lot is what Canon calls Step Zoom, which lets you control the 3.8x zoom in fixed steps (28 mm, 35 mm, 50 mm, 85 mm, 105 mm). The ring helps by bypassing the tedious zooming-in motion, allowing you to quickly and easily frame your shot. We found it an absolute pleasure to use, although the 3.8x zoom doesn't really give you a lot to work with. The lens does come with an optical stabilizer though, a good wide-angle of 28 mm for nice landscape shots and a very impressive speed rating of f2.

#### Low-light

The S90 also features a superb low-light mode. Initially we thought that using this setting might push up the graininess of captured images to such an extent that it would look unsightly. Not so, we were more than satisfied with the results, and it sure beat firing the life-dulling flash.

#### The back

Tec

DATA RECOVERY LAB

The 3" LCD display's quality was good and generally very bright,

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and we didn't once miss the absent optical viewfinder. As much as we loved working with the front lens ring, the control dial

was a pain, being so sensitive that we often changed settings by accident.

### No HD video

While the S90 has an HDMI port present to playback your photos on HD devices, the lack of

HD video shooting capabilities was a let down. The S90 seems like the perfect candidate for HD video, seeing that it carries the very speedy DIGIC 4 processor.

#### RAW

Canon obviously thinks a lot of the shooting capabilities of the S90, so much so that they have included RAW capturing, usually found on their higher end models such as the G11 and dSLRs. It's testament to the excellent functionality that the focus ring brings to the table, making a lot of

features far more accessible than on regular compacts. We sure hope to see similar ring control functionality on the upcoming G12. The S90 is currently one of the best compact cameras available, and with an RRP of **R5499** you are paying a premium for it. [MJ]

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Microsoft SideWinder X6 Keyboard

Game On

21

With your New Year's Resolution of playing as many games as humanly

possible, you will need to source some serious gear to make your quest a practical one.

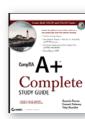
Microsoft's SideWinder X6 keyboard might not be the newest on the scene, but it does offer some good features. The keypad for example can be attached either left or right and is programmable as a macro gaming pad. Mode switching, automatic profile switching and adjustable backlight all form part of the X6 experience. **R799** from PC Pro Shop on 012-368-1336.

### BOOKS

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If you are preparing for your A+ certification then CompTIA A+ Complete Study Guide by Quentin Docter, Emmett Dulaney and Toby Skandier, makes for essential reading.

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- Communication and Professionalism

To prepare you for the A+ certification assessments the book contains exam preparation software compromising of a test engine as well as electronic flashcards and a PDF version of the book. There's also a lexicon of the most important terms used. **R690** from Intersoft (011-325-2643), or on **www.intersoft.co.za**.

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#### OFFICE SOLUTIONS 22 Advertorial



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#### Laser Copiers and Digital Copiers

GNC's selection of Toshiba multi-functional printers (MFP) will fit any office environment, from the office smart eStudio 207 (20 PPM) to the professional eStudio 600 (60 PPM). The Toshiba range easily copes with large volumes, but its main benefit is the value it will add to your business because of the low total cost of ownership. They provide a selection of finishes that make sorting, stapling and punching a breeze.

The Brother range of MFPs provides high speed monochrome as well as colour products. These feature copy/ scan/ fax/ print facilities, PC faxing and Scan to OCR (editable format).

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### Advertorial Consilia Consult Peter J A Stuart Navigates with QlikView

### Keeping track of 2 200 products, and far more than 800 clients will keep you busy for a while.

To simplify this Peter J A Stuart, the largest importer and wholesaler of Italian domestic, contract and corporate furniture in South Africa, has selected OlikView as a Business Intelligence (BI) solution. All the financial, sales and operational information is now within reach of all the end users and all answers are no more than six clicks away with the "Associative In-Memory" analysis of QlikView. This does not only provide end-users with a better decision support system but gives them up to date information in a crystal clear format.

Consilia Consult, a certified QlikView Partner, assisted Peter J A Stuart in implementing and deploying QlikView in the three functional areas of the business: Finance, Sales and Operations. This intervention has changed the way people at Peter J A Stuart engage with operational and financial information. Instead of printing hundreds of pages of reports, they use the powerful analytical capability of QlikView to tell them what is going on in the business.

According to Naldus Pienaar, MD of Consilia Consult, OlikView is like a good GPS Unit; things just become so much clearer in terms of where you are and where you want to go with your business.

I am convinced QlikView empowers end-users and management with relevant information to keep a laser sharp focus on sales and keep working capital to optimum levels. Jeff Schaffer, CEO Peter J A Stuart.

Advertorial Edutain Convertible Classmate: A purpose built netbook

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### The Convertible Classmate PC laptop makes learning fun and exciting

 $\blacksquare$  lectronic learning or ``e-learning" opens up all kinds of new learning opportunities, with lots of English and Afrikaans educational software available.

One of the stand-out features of the Classmate is that this netbook can be used in tablet mode or the traditional laptop mode. The screen can swivel a full 180 degrees to share work with peers or teachers, plus it's a touch-screen, allowing kids to draw and write on-screen in a natural way. This promotes new models of interaction.

The Classmate contains built-in Wi-Fi, a webcam, a waterresistant keyboard, with durable construction housed in a rugged outer case with handle. It weighs only 1.2 kg and runs on Intel's Atom 1.6 GHz processor with 1 GB of RAM and a 60 GB hard drive.

There are lots of great games onboard that are designed to help your child learn in a way that suits him or her, making the Classmate the perfect "learning station". To find out more visit www.edusphere.co.za or phone them on 011-450-4578.

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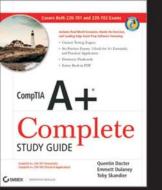


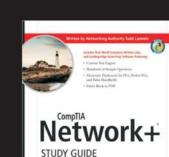
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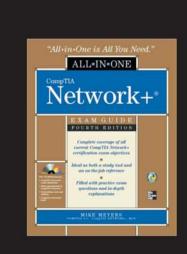


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Helpful Hints

| |ardworking, ever vigilant and armed to the teeth with tips and tricks, the PC Medic is here to help you! Each Month the PC Medic will answer your questions about those nasty PC problems causing you to tear your hair out.

#### Dear PC Medic,

24

I've recently purchased a nice little 180 GB portable hard disk and have been using it to transport files between my Work PC and my PC at home, since I often take work home. The problem is the back-up software that came preinstalled is of no use to sync files between the different machines and I have often ended up replacing newer files with older ones. Any suggestions for a proper syncing tool? John Maphela

#### Hi John.

I make use of a neat piece of software from Microsoft called SyncToy. Granted, it is not the best syncing softwar available, but it's small to download (about 3.5 MB), easy to install, and comes at the bargain price of mahala. Once installed on both PCs you can choose between three options. Synchronize should be the option you are after, since changes made on your work PC are implemented on your home PC and visa versa (with your portable HDD as go between). Both Echo and Contribute can be used to back-up certain folders, but changes made are one way only, with Contribute not deleting files deleted on your main PC. Visit tinyurl.com/synctoy1 to download the appropriate version.

The PC Medic

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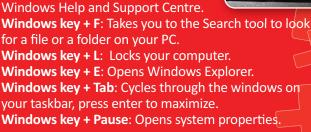
million.

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### **HELPFUL HINTS**

The key with the little Windows logo at the bottom left-hand corner of your keyboard isn't just there for branding purposes – it can be a very useful short.

Windows key: Opens the Start menu. Windows key + D: Minimizes windows and displays your desktop. Windows key + F1: Displays the



techsmart.co.za | January 2010

# Intel Brain Chi

Intel's Dean Pomerleau, in conjunction with Carnegie Mellon University and the University of Pittsburgh, is currently work ing on a project to implant chips directly in the human brain. The electronic chips will allow humans to operate computers surf the web and manipulate other electronic devices without the need of a third party interface, like a mouse or finger.

What we're talking about here is the ability to control a device using thought alone. Imagine Googling with your mind - the possibilities for semantic search are just incredible. What about managing your home with thought – switching on the TV, turning off lights and getting a quick update on how much power you've used in a day? Productivity could also be greatly improved - what if you could prepare word documents a sentence at a time rather than typing letter by letter?

If this sounds like sci-fi nonsense, then think again. In 2008 a University of Pittsburgh School of Medicine research project planted probes in a monkey's brain so that, using thought alone, it could control a prosthetic arm to feed itself.

### Understanding the brain

Pomerleau's work is based on recognising common thought patterns in the brain using blood flow changes in specific areas of the brain. The team's research is attempting to map these patterns using fMRI (functional Magnetic Resonance Imaging) technology. Once the patterns are mapped researchers can program the chips to translate them into actions or commands.

Pomerleau takes the idea of mapping brain patterns even further; claiming that understanding the brain will also improve microprocessor design, stating "if we can see how the brain









does it, then we could build smarter computers." This could further converge the brain and electronics.

#### Issues

Researchers on the Intel project believe that implanting brain chips will become a reality as soon as the year 2020. There are obvious concerns however, from valid privacy issues like brain cookies and activity monitoring, to sci-fi scenarios like brain hacks and brain chip software viruses. The issue of upgrading a chip implanted in your brain is obviously a little worrying as well. We can even expect religious unease, with the chip possibly stirring-up 'mark of the beast' type conspiracies.

Intel research VP Andrew Chien, counters these concerns by pointing out that, "[i]f you told people 20 years ago that they would be carrying computers all the time, they would have said, 'I don't want that. I don't need that.' Now you can't get them to stop carrying devices. There are a lot of things that have to be done first but I think implanting chips into human brains is well within the scope of possibility." The big question surrounding brain chips however, concerns what it will do for us as human beings. Will it make us more productive? Does it have the potential to make us more intelligent? What are your thoughts on this? Mail us at info@techsmart.co.za. [TM]

### The Internet Trends for 2010



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Martin van Dyk has 20 years experience in the IT industry, of which six include work on international communication networks. He is currently director of internet service provider XDSL.

There was a lot of hype surrounding the landing of the Seacom cable last year, and although many ISP's have reacted

positively with price reductions, the revolution everyone expected hasn't yet materialised.

Another bandwidth cable, the Eastern Africa Submarine Cable System (EASSy), should go live in the second half of next year, increasing our international bandwidth further. But if there's something we've learned from Seacom, it's that capacity alone doesn't make a difference. It's access and quality that will have the greatest impact.

The primary problem facing ISPs regarding pricing, is still getting huge volumes of data to various datacenters and then moving it, over the very costly IP Connect service, to ADSL customers. As a corollary, the primary expense of ISPs is still the local links, which are owned by Telkom.

Personally I don't expect much of a price change in 2010 unless there is a major shakeup by Telkom. Instead of the Competition Commission's hefty R3.59 bn fine imposed on Telkom for abusing its competitive position (upheld by the Supreme Court of Appeal), it would have been better if Telkom was forced to bring down the pricing of products that affect the public's broadband costs.

While we are still restricted by the costs of certain Telkom products, they are still in large part the leaders in connectivity technology. I expect a lot of businesses to take up Telkom's

new Metro Ethernet products which will bring massive amounts of bandwidth for internet and inter-branch connectivity.

With any luck, Telkom's largest fixed-line competitor, Neotel, will start delivering more stable products in 2010. Their 5000 km national fiber network project, currently being built in collaboration with MTN and Vodacom, looks to be progressing well. We can expect Neotel and the cellular operators to experience substantial cost savings, and to consequently deliver better coverage and pricing on voice and data.

2010 is of course the year of the World Cup, and it will be interesting to see if the networks are able to cope with the broadcasting and increased demand created by this wonderful event. The World Cup has been the driving force behind some of the higher capacity Next Generation Networks, which will be available for commercial use post the event.

In short 2010 will be a very interesting year in the ISP arena. The end user might not see the immediate effect, but there will be many positive things happening that will lead to better pricing, greater speed and more choice for consumers.

### January 2010 Web Time Wasters



### **Coin Manipulation** www.coinmanipulation.com

Tf you've ever wanted to learn how to entertain your mates with some slick coin tricks then this site is for you. It uses video, pictures and

comprehensive instructions to teach you the moves. The Tricks section boasts plenty of content to amuse, educate and entertain.



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### **Cooking By Numbers** http://tinyurl.com/yezavm

Buying Xmas presents has likely Stretched you bare and you don't know what to make from the last

remaining provisions in your sparsely stocked fridge and cupboards. No need to despair this website will put forward a list of tasty dishes you can conjure up from those scraps.



### The National Gallery www.nationalgallery.org.uk

The UK's National Gallery site enables you to zoom into some of the most prestigious paintings in the world. Additionally the site provides

information on the artists and the artwork on display. Dig this art? Then also check out the Tate's excellent online learning site here: www.tate.org.uk/learnonline.

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### Letters of Note www.lettersofnote.com

TLetters of Note showcases letters that are either strange, funny or sad. Among these you'll find a letter by Winston Churchill addressed to his

wife, with instruction to be only opened in case of his death, as well as one written by Mahatma Gandhi, the recipient being the German dictator Adolf Hitler. Also featuring Brian Wilson of the Beach Boys, Houdini and Kurt Vonnegut. If you like this you'll also enjoy the speeches at http://tinyurl.com/cuz8.

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omble When the zombie apocalypse

comes, and trust us it will, you can learn a lot from studying Valve's instructional video game, Left 4 Dead 2.

he hugely popular Left 4 Dead demonstrated the basics of teamwork when struggling through hordes of the undead. Left 4 Dead 2 (L4D2) ups the stakes in a number of ways, and finds four new survivors marooned in the American Deep South in what feels like an ocean of zombies.

Jeath

In L4D2's case killing zombies means slashing, blasting, gunning, striking or chain-sawing your way through what feels like never-ending armies of infected undead. The hordes aren't your classic zombies either - they can sprint like Usain Bolt, and have a nasty tendency to mutate. Cue for example new special infected zombies like the Spitter with its terrible acid-reflux, or the aptly titled Jockey that rides you like a Durban July filly.



Just like the first game, L4D2 needs to be experienced online to truly appreciate it. That's not to say single player mode is useless. Your three team mates can hold their own shooting and will heal you when you've been clawed, but they are particularly reluctant to throw Molotovs or move into proper defensive positions. This is of course why playing online is such a blast. Find the correct players online and your team will be mowing down zombies like it's grass cutting day at Wembley Stadium. Playing online in the Versus mode you can also spawn as special infected zombies, using their abilities to kill the survivors. A new edition to the series is Realism Mode in Versus which turns off the halo surrounding players so you can't see them behind a wall, significantly upping the importance of communication in game. The hectic short-play Scavenge is also new and it pits four survivors against four zombies in a battle to find fuel.

You won't be disappointed upgrading to L4D2 since it improves on the first one in a number of ways. And, if you haven't played Left 4 Dead yet, welcome to the best zombie slaughtering title around. [MJ]

### >> Our Best:

Difficult to decide – it's between a pipe bomb blasting a gang of raging zombies, the chainsaw going through limbs like a hot knife through butter, or feeling like Keith Richard smacking zombies with a guitar.

### >> Our Worst:

The witches' sobbing – spine chilling at first, irritating later.

techsmart.co.za | January 2010

## FIVE

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2010 is shaping up to be an awesome year to be a gamer. Here are five hot titles to look forward to.

Dante's Inferno takes you on a journey through Hell as envisioned by 13th century Italian poet Dante Alighieri in his *Divine Comedy*. The game turns

the poem into a battle packed 3rd person gaming experience, seeing you battle demons in the nine circles of hell in a quest to save your girl Beatrice.

Because you're a fan of renaissance poetry. Nope - nine circles of hell to work through, that's why.

o call Gran Turismo 5 highly anticipated is an understatement, since PS3 owners have been licking their lips for GT5 since the release of the console. 950 dream cars, 20 exotic

locations sporting over 70 track variations, all in gloriously realistic 1080p high-definition, GT5 might just be the PS3's defining title.

Gran Turismo in high-def. Enough said.

ever created, which is not only faster than the rest, but also has free will. more Big Daddies, Little Sisters and Splicers.

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it must be good.

Upcoming Titles

GAMES FOR 20

GAMING

Already banned in Australia thanks to the developers not "sanitising" the violenc Alien vs. Predator is ba and looking better tha ever. The first one was a classic so we can only imagine what 10 years worth of graphics technology development will do for the title. Rebellion, the team responsible for the first AVP is back at the helm. Plus if the Aussies banned it,

### Shock 2

Tt didn't take the BioShock developers, 2K Games, long to continue the weirdness of the original with BioShock 2. In BioShock 2, set ten years after the original, you are able to control the first Big Daddy BioShock left us wanting



aving been misled, War, the first Horseman of the Apocalypse, made the slight mistake of bringing about the destruction of earth ahead of time. Stripped of his abilities,

tarnished and facing death, War returns to Earth in order to strike down enemies with great vengeance and furious anger.

You get to see how the world ends, and it doesn't involve John Cusack, a Mayan prophecy and a ridiculous plot.



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| No Contracts                     | You may cancel at any time* | POP3 Email Accounts           | 5                      |
| Telephonic Support               | Yes                         | Virus Scanning                | Yes                    |
| Email Support                    | Yes                         | SPAM Filtering (SpamAssassin) | Yes                    |
| Usage Statistics                 | Yes                         | SMTP Relay                    | Yes (smtp.saix.net)    |
| Location Locking                 | Available                   | Webmail                       | Yes                    |
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