

# tech smart™

getting smart with technology



ISSUE 78 March 2010

ISSN 1726-3358

**FREE!**

## SMART AND SMARTER

Smartphones rule the  
roost at MWC

## LADY IN RED

ThinkPad takes a new  
route with Edge

## WIN WIN WIN

6 ultra hot PC games  
from Sterkinekor  
Lexmark printers



Lenovo ThinkPad Edge



Epson EB-X6 projector



Nokia E72

# THE BUSINESS ISSUE

SA's LARGEST TECH MAGAZINE

[www.techsmart.co.za](http://www.techsmart.co.za)





### A faithful friend

My trusty notebook has been with me for three years now. I got him when he was still a young pup, and we used to work and play together for hours on end. He was always loyal, following me around to the office, even coming along to trips overseas. We had a scare in Dublin when one day he just didn't want to wake up. But after a hard disk operation he was up and running again, happy as ever. I love him to bits, but lately I've noticed that things are not well. He is slow to wake up in the mornings, and during the day sluggish and lethargic. In his old age he is also getting temperamental and unpredictable. I know the day will come soon when my faithful friend will not be with me anymore.

Mike Joubert <michael@techsmart.co.za>

I am shooting with Canon's stunning EF 70-200mm f2.8 L IS Mk II lens.

Copyright © 2010. All rights reserved. No material, text or photographs may be reproduced, copied or in any other way transmitted without the written consent of the publisher. Opinions expressed are not necessarily those of the publisher or of the editor. We recognise all trademarks and logos as the sole property of their respective owners. TechSmart shall not be liable for any errors or for any actions in reliance thereon. All prices were correct at time of going to print.

Powered by

# HandyMAP

Still paying for GPS map updates?

## G10

**Convert your GPS to HandyMAP and receive free map updates**

**ATLAS GPS**  
- no HandyMAP user pay for the map updates since 2003

**R 980.00 incl. VAT**  
only at PDAShop 0861 627 911

**PDA SHOP.co.za**  
PDA.GPS.HTC Accessories.Repair

### Features

- 8 Mobile World Congress 2010
- 27 TechSmart Survey Results

### Regulars

- 4 Feedback
- 6 Tech News
- 7 Sci News
- 9 Industry Expert: Jaco van Loggerenberg
- 20 NetSmart: Online payment solutions
- 24 DIY Dude: How to create a PC remote control

### Mobiles

- 10 Nokia E72
- 11 BlackBerry Storm2

### PC Hardware

- 12 Lenovo ThinkPad Edge
- 14 Verbatim InSight portable hard drive
- 14 Samsung Super WriteMaster Slim External DVD writer
- 14 Western Digital My Book 3.0
- 14 Canyon Notebook Pack
- 14 Logitech Professional Presenter R400
- 14 Aero Cool V12 case and Syclone tower
- 18 Epson EB-X6 projector
- 18 BenQ MP515 projector

### Gadgets

- 15 MIRO Distribution
- 19 TomTom XXL
- 19 Navigon 6310

### Software

- 20 New Generation Business Intelligence
- 20 E-triloquist speech software

### Security

- 22 With Room Alert, your server stays alive
- 22 Duel CounterForce balls

### Green

- 23 Betta Lights Solar Power

### Services

- 26 Powercall CRM package
- 26 Snapbill: Billing in a Snap

### Gaming

- 30 Heavy Rain

### Competitions and Give-aways

- 4 Lexmark INTERACT 3-in-1 Printer
- 30 Sterkinekor Awesomely Amazing PC Games Give-away

**Editor**  
Mike Joubert > 083-290-2889  
michael@techsmart.co.za  
**Executive Editor**  
Suzanne Grobler > 083-742-6370  
suzanne@smartpublishing.co.za  
**Business Manager**  
George Grobler > 083-460-0402  
george@smartpublishing.co.za  
**Advertising**  
Anneke Kirchner > 083-301-9134  
anneke@smartpublishing.co.za  
**Designer & Layout** Brett Wilson  
**Contributors** Mike Joubert [MJ], Thomas McKinnon [TM], Linda Pretorius [LP], Hanleigh Daniels [HD], MJ Stephenson [MS]  
**Online Editor**  
Thomas McKinnon  
thomas@techsmart.co.za  
**Accounts & Subscriptions**  
Ronel Keet > 012-362-2732  
**Distribution**  
Renier van Vuuren > 073-166-1515  
renier@smartpublishing.co.za



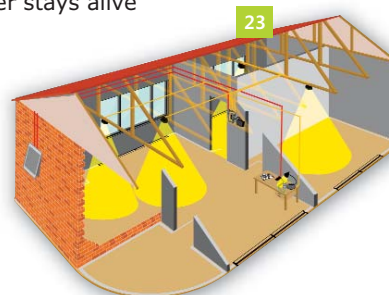
98 772  
copies per month  
Consumer: SciTech  
[July - Sept 2009]

Published by



**SMARTPUBLISHING**  
MASS MEDIA SPECIALISTS

Distributed by



# MATRIX

## WAREHOUSE

### COMPUTERS



### ZIXA CHAT PACK

**WEBCAM C-011**

- High resolution CMOS sensor with 1.3M Pixel by hardware.
- Video resolution up to 5M pixel by software.
- Photo resolution up to 16M Pixel by software.
- USB2.0 Plug and play driverless.

- Transmission speed:
- 320\*240 30frames/ second
- 640\*480 15 frames/ second
- 2560 \* 2048 15 frames/ second

**HEADSET TP-258**

- Driver Unit: Ø30mm
- Speaker Impedance: 32Ω±15%
- Speaker Frequency Range: 20-20KHz
- Mic. Dimensions: Ø6\*2.7mm
- Mic. Sensitivity: -58dB±3dB
- Max. in put power: 10mw
- Input Plug Diameter: 3.5mm
- Cord Length: Appr.2.2m



**MULTIPLE COPIES  
DIRECT TO DVD/CD**

**13 BAY DUPLICATOR**

INCLUDES:

- 512MB SATA CONTROLLER CARD
- 12X SATA DVD WRITERS

**R7399**

### ZIXA P<sub>s</sub>2 KEYBOARD



FROM **R39**

### ZIXA P<sub>s</sub>2 OPTICAL MOUSE



FROM **R39**

### NST-200S2-BK

Vantec NexStar CX External 2.5" SATA hard drive enclosure

- Aluminum Casing cools down your hard drive
- Transfer Rates Up to 480mbps w/USB 2.0
- Easily add Storage to Any system with USB
- Hot-Swappable: Plug & Play without rebooting
- Attractive Blue Led Indicates Power & Hdd activity

**R129**  
\*enclosure only



### NST-300S2-BK

Vantec NexStar CX external 3.5" SATA hard drive enclosure

- Aluminum Casing cools down your hard drive
- Transfer Rates Up to 480mbps w/USB 2.0
- Easily add Storage to Any system with USB
- Hot-Swappable: Plug & Play without rebooting
- Attractive Blue Led Indicates Power & Hdd activity
- Supports 3.5" sata I/II hard drive up to 1.5tb

**R249**  
\*enclosure only

**FORZA**  
See the difference



**GEFORCE GTS-250 512MB DDRIII PCI**

**R1599**

**GEFORCE GT220 1GB DDRIII 128BIT**

**R 949**



**AERO**  
Cool

**R 789**

**AERO**  
Cool

**R 849**

**SOMIC**

**HEADSETS**

DT-2100



**R89**

SH-906



**R79**

DT-2103



**R229**

ST-1607



**R79**



**WE WANT YOUR FEEDBACK!!!** Comment on the news and reviews on [TechSmart.co.za](http://TechSmart.co.za) and you might win the incredible Lexmark INTERACT 3-in-1 printer, scanner and copier with touch-screen. It includes Eco Mode and a three-year guarantee with lifetime phone support.

#### TECHSMART FEEDBACK

Here is this month's winning feedback. Benedict wins the Lexmark INTERACT 3-in-1.



You say iPhone I say iPad. It's all coming together nicely. Soon smartphones will have enough processing power to give netbooks a run for their money. I am just curious to what a smartphone can do with enough processing power? Can it whip out the need to have netbooks, because all netbooks do is get smaller and smaller, while smartphones are getting bigger and bigger? As for the iPad, all I can say is, WOW. It just raised the bar very high for touch-screen manufacturers.

I am not a netbook fan but the release of the iPad is something I just have to look forward to.

Benedict Moeti

Hi Benedict. Congrats on winning the Lexmark INTERACT 3-in-1. The lines are indeed getting blurred with Lenovo's Skylight smartbook that is powered pretty much by the same 1 GHz Qualcomm Snapdragon processor found in the HTC HD2 smartphone. As for the iPad - I want one ASAP -Mike.

Write to us at [info@techsmart.co.za](mailto:info@techsmart.co.za)

#### FEEDBACK FROM TECHSMART.CO.ZA

I bought the phone about 2 weeks ago and I'm already regretting [it]. My Nokia N95, and the 'cr\*ppy' Blackberry Storm (which I had just replaced) outplay the HD2 when it comes to stability, reliability and performance. Sure it does have the wow factor, but the firmware is crappy and does not do any justice to the device's hardware. *Vululami on the HTC HD2*

Bring it on Puma, I'll be waiting. *Tselakgosi Taulela on the new Puma branded phone*

I think I've found my next phone. *Brian Seligmann on HTC's new Desire, a rival to the Google Nexus One* (see p 8).

What more can there be in an office suite? *TechSmart user, Static, on our Office Professional 2010 preview*

#### TechSmart.co.za online poll results

**POLL: How many hours do you spend online?**



# LEXMARK



PRINT LESS SAVE MORE  
Did you know? 1 in 6 pages printed in the workplace are never used!  
Let's protect the planet together  
Let's stop printing waste!  
Tip from Lexmark for those of us looking to improve our printing practices, for the benefit of the environment.

1) Avoid printing e-mails just because you plan to read them later

Give us your feedback on any of the articles by emailing us on [info@techsmart.co.za](mailto:info@techsmart.co.za) or leave comments on our website or Facebook page.

The Feedback of the Month wins the incredible Lexmark INTERACT 3-in-1 printer, scanner and copier with touch-screen. It includes paper saving Eco Mode and a three-year guarantee with lifetime phone support.

4400. UK students caught cheating using high tech gadgets in 2009 exams.

@lantic  
Simplified telecoms

## Netbook bundle deals to match your lifestyle

### Option 1 Netbook + HSDPA/3G



Standard HSDPA packages		250 Meg	500 Meg	1 Gig
modem	24-month Includes modem			
	Connection	R 159	R 249	R 349
	Netbook	R 160	R 160	R 160
	Total per month	R 319	R 409	R 509
Once off Connection & SIM Fee of R175				
<ul style="list-style-type: none"> <li>Fast, mobile internet</li> <li>Data carry-over</li> <li>Plug and Play installation</li> <li>Nationwide coverage</li> </ul>				

We also specialise in:  
**ADSL, ADSL Lines, Voice, PBX, e-mail, hosting, Fax and many more!**

From **R319 p.m.**

### Option 2 Netbook + iBurst Wireless



authorised distributor

## 24-month contract

includes USB modem

packages

## Wireless Start

80 MB

## Wireless

1 GIG

Connectivity

R 108

R 208

Netbook

R 160

R 160

Total per month

R 268

R 368

Once off Connection Fee of R99

**R268 p.m.**

- Perfect alternative to fixed line internet
- Data carry-over
- No telephone line required.

Go to [www.lantic.net](http://www.lantic.net) to check your iBurst coverage.

From **R268 p.m.**

#### Netbook Specifications

Operating system	Windows 7 Starter Edition
Processor	Intel® ATOM™ Processor N270 (1.60GHz, 533MHz, 512KB)
System memory	1GB (DDR2 / 1GB x 1)
Hard drive	160GB (5400rpm S-ATA)

SAMSUNG

Special offer terms and conditions: Netbook packages only available through @lantic direct, @lantic stores and selected partners. Picture may vary from actual product and is subject to stock availability. Any faults or queries in respect of the Netbook must be communicated with Samsung using the contact details provided with the product. The Netbook carries a warranty of 1 (one) year subject to the warranty terms and conditions of the manufacturer. The subscriber acknowledges that the Netbook may come with embedded software and any software agreements will be concluded between the Subscriber and the software provider. Ownership of any hardware will pass to the Subscriber upon completion of the contract chosen. The Subscriber waives the right to cancel the agreement within 7 (seven) days. General Terms and Conditions: All prices include VAT. Subscription subject to a once-off activation fee of R99 for iBurst and a R175 fee for HSDPA contracts. Pro rata payment will be debited with the first billing run. Data transfer rates are not guaranteed and are dependant on network availability and utilisation. Please visit [www.lantic.net](http://www.lantic.net) to view coverage maps and for further information. Standard terms and conditions apply - errors and omissions excepted.

1292 Heuwel Avenue | Centurion, 0157 | (Next to GWM) | Prices Quoted are CASH or EFT only!

**LAPTOP City** FOR ALL YOUR NOTEBOOK NEEDS

012-663-1155 | [www.laptopcity.co.za](http://www.laptopcity.co.za) | [sales@laptopcity.co.za](mailto:sales@laptopcity.co.za)

<b>HP Elitebook 8530W</b> Core 2 Duo 2.8 GHz 2048 MB RAM 250 GB Hard Drive DVD-Writer Wireless LAN Bluetooth 15.4" LCD Display NVIDIA FX770M 512 MB VGA Windows Vista Business <b>R18 590</b>	<b>Acer Extensa 5635</b> Core 2 Duo 2.2 GHz 3072 MB RAM 320 GB Hard Drive DVD-Writer Wireless Lan Bluetooth 15.6" LCD Display Windows 7 Professional <b>R7890</b>	<b>HP 4310s</b> Core 2 Duo 2.2 GHz 2048 MB RAM 160 GB Hard Drive DVD-Writer Wireless LAN Bluetooth 13.3" LCD Display Windows Vista Business <b>R8390</b>	<b>Dell Vostro A860</b> Core 2 Duo 1.86 GHz 2048 MB RAM 250 GB Hard Drive DVD-Writer Wireless LAN Bluetooth 15.6" LCD Display Windows 7 Professional <b>R6900</b>	<b>Laptop Batteries</b> From <b>R980</b>
<b>HP Compaq 610</b> Celeron M 2.1 GHz 1024 MB RAM 160 GB Hard Drive DVD-Writer Wireless LAN 15.6" LCD Display Built in Webcam Windows 7 Basic <b>R4999</b>	<b>HP Compaq 610</b> Core 2 Duo 2 GHz 2048 MB RAM 320 GB Hard Drive DVD-Writer Wireless LAN Bluetooth 15.6" LCD Display Windows 7 Professional <b>R6900</b>	<b>Acer Aspire ONE</b> Intel ATOM 1.6 GHz 1024 MB RAM 160 GB Hard Drive Wireless LAN Built-in 3G 8.9" LCD Display 0.3 Mp built-in Webcam Windows 7 Home Premium With Free Bag <b>R6450</b>	<b>3 Fan Cooling Pad</b> <b>R120</b>	<b>Laptop Chargers</b> From <b>R330</b>



Terms and Conditions apply. Stocks are limited. E&OE. Product may vary from picture. Prices may change without notice due to Rand Dollar fluctuations. All prices quoted are cash or EFT only and Incl VAT.

**SPECIALISTS IN LAPTOP REPAIRS**  
Software | Hardware | Repairs | Upgrades | Projector Repairs | LCD Screen Repairs  
All repairs done in our workshop



HP, Acer, Compaq, IBM, Dell, Fujitsu Siemens, Mecer, Sony, Asus, Toshiba, Packard Bell, LG, Lenovo, Proline, Gigabyte, Apple Mac, BenQ, Sahara, and many more....

Contact Us

087 805 0003 or [sales@lantic.net](mailto:sales@lantic.net)

visit us at  
[lantic.net](http://lantic.net)



### iPad ends speculation

After months of intense speculation about design and name, Steve Jobs introduced the Apple iPad tablet computing device. Media reception was lukewarm, bulking that it looks like a giant iPhone, and mocking it for its lack of multitasking. One does get the idea though that despite all the criticism, in 10 years time we'll all be working on something like this.



### Canon EOS 550D

Canon has announced their 18 megapixel beauty the EOS 550D, sitting comfortably at the top of their entry-level dSLR range. Included are full HD movie capabilities and an upped ISO range. Expect it third week of March.



### PayPal in SA?

Rumours on Twitter forced FNB to grudgingly (or so we think) admit that they are in discussions with PayPal to bring the service to South Africa (see p 20).

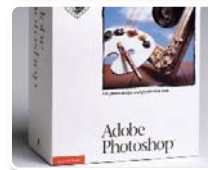


### IE8 top of the browsers

Internet Explorer 6 has been overtaken by IE8 as the most used browser, meanwhile Google announced that they are fazing out support for the antiquated IE6 this month.



We urge readers to download Firefox here: [www.mozilla.com/firefox/](http://www.mozilla.com/firefox/)



### Recent birthdays

Congratulations Facebook on six years of putting us in contact with people we've long since forgotten that we don't want to speak to, and Adobe Photoshop for 20 years of enhancing models across the globe.

**FOLLOW US** Facebook: <http://tiny.cc/TSFB>  
Twitter: @TechSmartMag

### Bare feet better?

If you think you need shoes to perform at your best during your next run, think again. A study published in an early February issue of *Nature* showed that barefoot running is best. The researchers analysed the running style of three groups of Kenyan and American runners, who either had always run barefoot, had always worn shoes or had recently ditched their shoes. The results showed that shod runners land on their heels first, which causes sudden severe collision on the bone. Barefoot runners though point their toes slightly before landing, which lets them land on the middle or front of their feet. This effectively causes a springy step, which significantly reduces the collision force on the leg. Bare feet means happy feet it seems. Have a look at how we run at <http://tinyurl.com/barefeeting>.



### The elephant walk

Talking about going fast, elephants are redefining the concept of speedwalking. According to a recent article in the *Journal of Experimental Biology*, quick-footed elephants do a kind of run-walk. An international team of scientists measured the ground reaction force on elephants' feet as 34 animals, ranging from babies to adults, trod (and trotted) past. Looking at the centre of mass movements, they found two movements during a single stride of a hasty elephant. As the animal shifts its weight from side to side, the centre of mass stays level, but bobs up and down during the second half of the stride. This means that elephants run with their front legs, but walk with their hind legs in a single forward movement. But when an elephant comes charging, would you really care?



### A colourful creature

Who said dinosaurs were dull? According to a study which appeared in a recent issue of *Science*, scientists used a new technique to accurately determine the true colours of a feathered dinosaur from the Jurassic era. They analysed pigment-containing structures, called melanosomes, from about 30 fossilised feathers of *Anchiornis huxleyi* and compared them to those from feathers of living birds. Results showed that this four-winged creature sported vibrantly coloured plumage: a greyish body, a head adorned by a red-brown Mohawk-like crest, a face spotted with speckles, and wings dressed in black-spotted white feathers. The colouring likely helped with communication and attracting mates. The research also adds further support for the idea that birds descended from winged dinosaurs. Have a look at <http://tinyurl.com/dinobirds>. [LP]



### Must visit Sci links:

- 4 trillion degrees Celsius, the hottest experiment ever created. <http://tinyurl.com/hottimes100>
- Sowing cell seeds in an eye to see better. <http://tinyurl.com/seedeys>
- The quest for extra terrestrial life – how you can help. <http://tinyurl.com/alienseverywhere>
- Walking on the ceiling using surface tension. <http://tinyurl.com/ceilingwalker>

# THE COMPLETE SERVER ROOM MONITORING SOLUTION



Contact Us Today!



**EDP Communications**  
[www.avtech.co.za](http://www.avtech.co.za)

t +27(0)12 811 0931 e [info@avtech.co.za](mailto:info@avtech.co.za) w [www.avtech.co.za](http://www.avtech.co.za)

f +27 (0)86 688 3006

\*Terms and conditions apply

# THE COMPLETE AUDIO VISUAL SOLUTION



DAILY HIRE FOR PRESENTATIONS, LAUNCHES, EXHIBITIONS AND EVENTS



CUTTING EDGE SOLUTIONS FOR OVER A DECADE  
TEL (011) 608-3410 [SALES@SCREENCOM.CO.ZA](mailto:SALES@SCREENCOM.CO.ZA)  
[www.screencom.co.za](http://www.screencom.co.za)



### IMPORTERS AND DISTRIBUTORS OF

- SEAMLESS PLASMA VIDEO WALLS
- LARGE FORMAT PLASMA AND LCD SCREENS
- WIDE RANGE OF MOUNTING SOLUTIONS
- DATA VIDEO PROJECTORS
- WEATHER PROOF HIGH BRIGHTNESS LCD SCREENS







# SMART AND SMARTER

## THE BEST OF THE MOBILE WORLD CONGRESS 2010

Last month saw the world's cellphone manufacturers peacocking their latest and greatest at the Mobile World Congress held in Barcelona, Spain. Once again smartphones ruled the roost.



### Desirable new HTC arrivals

HTC showed off three new smartphones – two Android devices and one running on Windows Mobile 6.5. With the Google Nexus One the current champ of Android devices, many think that HTC's Desire should be able to lift it out of the saddle. The Desire has similar specs to the Nexus One, being powered by a 1 GHz Qualcomm Snapdragon processor, sporting a five megapixel camera and featuring a 3.7" AMOLED touch-screen, but it also features HTC's Sense user interface customisation, to distinguish it from the standard Android interface.

The HTC Legend also runs on Android 2.1 with HTC Sense and sports a 3.2" AMOLED capacitive touch-screen featuring pinch-to-zoom capability as well as a five megapixel camera, 3.5 mm jack and a 600 MHz processor.

HTC also jumped on the mini bandwagon, following the likes of Nokia's N97 mini and the LG Mini, with a more compact version of its HD2. The HD mini measures 103.8 x 57.7 x 11.7 mm, compared to the HD2's 120.5 x 67 x 11 mm dimensions and also sports a 3.2" HVGA capacitive touch-screen, 1.1" less than the HD2's humongous 4.3" display.



### New smartphones from Samsung and SE

Samsung turned their back on the popular Symbian platform last year and opted to sail the seas henceforth on their own bada platform. At least they now have a device to show for their efforts, with the Samsung Wave shipping with a 3.3" "Super AMOLED" touch-screen, a five megapixel camera, a one GHz processor (most probably Qualcomm's Snapdragon) and high-definition (HD) video recording.

Sony Ericsson (SE) launched its Xperia X10 stable mates – the X10 Mini and the X10 Pro. Both devices are Android-based and sport touch-screens, five megapixel cameras, GPS navigation, with the Pro also adding a slide-out QWERTY-keyboard. SE also launched a Symbian-powered Vivaz Pro that sports a 5.1 megapixel camera and the ability to record HD video (720p). The beleaguered manufacturer also let it drop that they, instead of HTC, could have made the Google phone, but turned down the offer as they did not want to dilute the brand.

### Nokia and Intel spawn MeeGo

We thought Nokia's Maemo operating system, sported by the quite cool N900, was Nokia's big chance for the smartphone

techsmart.co.za | March 2010

market. Well, it sort of turns out to be so, now that Nokia and Intel have become mobile OS bedfellows after announcing that they've combined their two OS platforms, Maemo and Moblin, to create the new MeeGo OS.

The new Linux-based software platform will support a range of devices, including pocket PCs, netbooks, tablet PCs and smartphones. MeeGo combines Nokia's Qt application development environment with the capabilities of the Moblin core OS. Developers will be able to create apps once off for a broad spate of devices using MeeGo, but also deploy them across other platforms, including Symbian. They can then market the apps over Nokia's Ovi Store as well as Intel's AppUpSM Center.



### New Windows mobile OS

Microsoft launched their long overdue Windows Phone Series 7 (WPS7) operating system. Microsoft's search engine Bing is given more prominence, while the new "hubs" groups related functions from the web, apps and services into a single view. There are different hubs for people, pictures, games, marketplace, music as well as office. Within the games hub for example, you'll find Xbox live functionality, such as games and access to your online Xbox Live profile. Manufacturers will be limited in

their customisation of the OS and adaptations to the UI, so HTC's Sense UI, that made the HTC's HD2 so cool, might be a thing of the past.



### Puma phone pounces on MWC visitors

French telecommunications company Sagem teamed up with German sportswear giant Puma to create the Puma phone. Soon to be sported by homeboys everywhere, this sport inspired mobile features a 2.8" touch-screen, as well as a solar panel mounted on the back of the phone to recharge it. It is also fitted with a 3.2 megapixel camera with LED flash, a

digital compass, geotagging capability and a pedometer.

### The Hero of the day

Finally, HTC's Hero scooped Best Mobile Handset or Device at the 15th annual Global Mobile Awards held at the MWC. The Hero was released during 2009 in SA and merged HTC's Sense UI with Google's Android mobile operating system. [HD]

2.2 billion. Minutes spent browsing Facebook on cellphones in the UK during December.



Jaco van Loggerenberg, media & events manager, Optimal Energy

## Lean, Mean and Green

Conceived by Cape Town-based Optimal Energy and originally designed by South African-born Keith Helfet, South Africa's very own all-electric car, Joule, will be proudly showcased at the Geneva Motor Show in Switzerland this month.

## BUSINESS TO BUSINESS EXPO 2010

THE CAPE'S PREMIER MULTI-DIMENSIONAL BUSINESS EXPO  
TARGETING THE END USER

THE MOST COMPREHENSIVE BUSINESS  
EVENT IN THE CAPE, TIMED TO CAPITALISE  
ON THE ECONOMIC UPSWING

FEATURING  
Business & Office  
Products & Services,  
Equipment &  
Stationery

IN TANDEM WITH  
Franchising &  
Business Opportunities,  
Finance & SME  
Support

CTICC 22-24 JULY 2010  
(021) 794 5859 | www.b2bexpo.co.za



TechSmart talked to Jaco van Loggerenberg, media & events manager at Optimal Energy, about this achievement.

### What gets you most excited about Joule?

With Optimal Energy, South Africa will have its own OEM, and the launch of Joule will be an historic occasion that we are truly excited to be a part of. Joule was born electric, which gives it a significant design and functional advantage over electric vehicle competitors.

### How did you get the famous Milanese design house Zagato to play ball in designing the car?

Optimal Energy contracted Zagato to develop the A-class surfaces for Joule's exterior and interior, based on the original design and working closely with Keith Helfet, Optimal Energy's designer. Zagato did this in record time and to the highest quality.

### What was the biggest challenge faced when building Joule?

The biggest challenge has been keeping the development cycle as short as possible to be able to satisfy demand. Building a car requires a certain amount of developing and testing before production, and we have employed the best industry partners from around the world to streamline this process.

### Is South Africa ready for a R235 000 electric car?

Certainly yes, anyone living and working in a large city will be interested in acquiring Joule. Joule's green credentials are impeccable, but it is first and foremost a car that is competitive with conventional petrol or diesel offerings in this segment, offering world-class safety and a generous level of performance, comfort and value.

### How do you expect the reaction will be like at the Geneva Motor Show this month?

The Electric Vehicle market is in its infancy, but will experience exponential growth in the next decades, driven by oil prices, climate change and rapid improvements in battery technology. The world is becoming more aware of this impending change and the spotlight will fall squarely on the launch of electric vehicles like Joule, making the Geneva Motor Show a very important event for Optimal Energy.

### So what's next for Optimal Energy?

Optimal Energy plans to start volume production of the Joule in South Africa in 2013. A green field, low carbon footprint plant, sized for 50 000 units per year is being planned. Joule will be followed by further EV models. Optimal Energy's vision is to establish and lead an electric vehicle industry in South Africa.

March 2010 | techsmart.co.za



Nokia E72

## Get the message

The E72 carries forth the proud heritage of the E71, with a full QWERTY keyboard and sharp focus on messaging. It still runs on the S60 platform though, which might be a deal breaker for some.

### Look and feel

The E72 is a PDA style, slab phone. It features a full QWERTY keyboard that's loaded with shortcut keys. While the keyboard keys appear small, they are domed and so offer fantastic tactile feedback, making typing a breeze. The device is rather slim at just 10 mm thick, but feels incredibly well-built with chrome-like edging and a matte black hardened plastic case.

It also features a four-way, optical D-pad that makes scrolling easy, and functions as your primary selection button. We were a little overwhelmed by the sheer number of hardware buttons on offer, but quickly got used to all the shortcuts they allow for.

### Interface

The shortcut buttons really make Symbian S60 more accessible, cutting out the need to regularly navigate through the interface's deep menu structure – beyond initial set-up that is. The look of the interface is still a little basic though, and can't really compete with what's on offer from Android or iPhone handsets.



### Display

The E72's display is a rather small 2.36" QVGA affair. It is bright though and visible in most conditions. While ideal for messaging, we found that maps and webpages proved a tight fit.

### Messaging

Messaging is the core focus of this smartphone. The standard POP and IMAP4 accounts are available, along with Nokia Messaging, ActiveSync, Lotus Notes Traveller and Mail for Exchange.

### Calling

The E72's calling capabilities are as good as its messaging. The device features noise cancellation technology that works surprisingly well. For video calling there's a front VGA camera and the device supports SIP VoIP 3.0, making it an ideal VoIP phone. Onboard you'll find HSDPA and Wi-Fi connectivity, and you also get Bluetooth A2DP support and an FM receiver, which is a nice touch on a business phone. The five megapixel camera performed amicably.

### Battery life

We were flabbergasted by the E72's battery life. With regular use (calling, browsing and messaging) it had enough juice to last for three days, much better than the average one day standard found on most new smartphones.

### Verdict

We're not the biggest Symbian 60 fans but the E72 is a fantastic business device that is not at all hampered by the platform. It is a messaging powerhouse that just happens to throw in a few media extras. If you loved the E71, you'll adore this phone, but we're not sure it will convert many non-business, non-Nokia users though. [TM]

21 Mbps. Fastest speed of Vodacom's current- and Cell C's upcoming HSPA+ networks.

BlackBerry Storm2

## Revenge of the Storm

BlackBerry's original Storm left many users a bit miffed, with its dodgy touch experience especially a let-down. Now the Storm2 (S2) is here to correct past mistakes, and make this Storm a more perfect one.

The two most notable upgrades to the S2 are a much better touch-screen experience and the inclusion of Wi-Fi. There aren't many cosmetic changes; the S2 still looks a lot like the original Storm, except for the four navigation control buttons at the bottom which now also form part of the touch-screen and a bit of a tint on the chrome finish. The screen feels a lot more solid, with the looseness of the previous version all gone.

### Next-gen SurePress

The S2's touch experience is much improved, thanks to the next generation SurePress technology with the screen now being electrical rather than mechanical. You still need to physically push down on the screen to make a selection, with a noticeable clicking sound present, but it's an overall less frustrating touch-experience.

While the S2 allows for two fingered input on the screen, you can't for example pinch and zoom into webpages. You can do this however to zoom into a subject when using the camera, but it's a cumbersome experience.



### Specs

Taking into account the 1 GHz Qualcomm Snapdragon processor running on HTC's HD2 for example, the S2's 528 MHz seems antiquated. Although BlackBerry OS 5.0 runs quick enough, some experiences like browsing through photos, would have done better with extra power under the hood.

### Email

It must be said that the S2, like all BlackBerrys, handles email exceptionally well, with up to 10 email inboxes supported. Setting up email is a breeze and moving your mail from another BlackBerry device to the S2 is even easier.

### Interface

Compared to what's on offer from Android, HTC's Sense UI or Nokia's Maemo 5, the BlackBerry user interface feels cold and uninspired, with no place on the home-screen to quick-link to your favourite contacts, websites, or applications.

### Apps

Once you've installed the App World app you can browse and download a variety of other apps. While one of the better stocked app markets, it's still far, far behind the more than 100 000 apps available on Apple's App Store.

### Conclusion

Compared to the original Storm, the S2 with its next-gen SurePress touch-screen technology and Wi-Fi, is a far better, more rounded phone, but compared to the latest smartphones such as the iPhone and the HD2, the S2 lags behind. In the S2 you have a first class messaging device, but it lacks the flair, processing power, personalisation and browsing experience of other recent smartphone releases. [MJ]

>4 million. British citizens that have fallen victim to internet scams.

Keep everything and everyone protected with

**bitdefender**  
The future of Security now

...the easy to use all-round security solution

BitDefender Internet Security 2010 keeps your Internet-connected family safe, without slowing down their PCs. It locks out viruses, hackers & spam, while providing parental control from harmful "Internet Sites and Predators" and firewall protection from hackers and their robots.

Add file backup to your protection to keep data safe, and enhance your PC Performance with Tuneup.



These are your files

This is your identity

These are your finances

All of these features are backed up with free qualified local support that saves money and time from going online to overseas call centres.

PS: BitDefender is the only system that encrypts your conversations and data transmission on Internet Relay Chat (IRC) - real-time Internet text messaging (chat). Keeping you safe while you chat away.

BitDefender is distributed by Holton & Associates | [www.holton.co.za](http://www.holton.co.za) | (011) 789 6181 | [sales@holton.co.za](mailto:sales@holton.co.za)



Here is a Special  
that will get  
your heart racing

**Shocking**



Terms & Conditions apply

**Webhosting**

from as  
little as **R15** per month

includes

- 500MB traffic
- 2 mailboxes
- 50MB disk space
- & much more

Call us now on 086 100 9375  
[www.xdsl.co.za](http://www.xdsl.co.za)  
[info@xdsl.co.za](mailto:info@xdsl.co.za)



Over half a million seats sold in South Africa

**NComputing**<sup>TM</sup>

GREEN  
EXCELLENCE  
AWARD  
THIRD QUARTER



Discover the first ever  
USB-connected virtual desktop:  
the **NEW U170** by NComputing

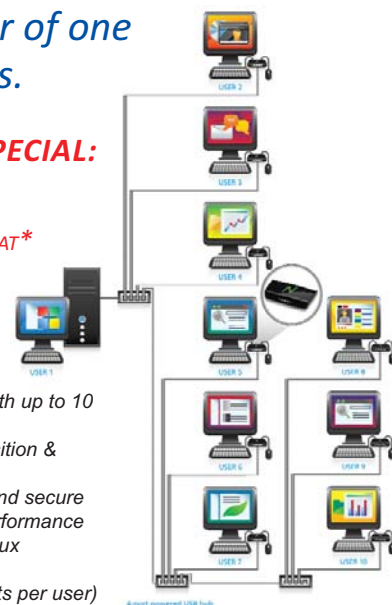
Share the power of one  
PC with 10 users.

**INTRODUCTORY SPECIAL:**

**R895** ea Incl VAT\*

Save money, time, and  
aggravation: Vspace  
meets USB

- Efficiently share one PC with up to 10 users
- Dramatically reduce acquisition & support costs
- Easy to set up, maintain, and secure
- Exceptional multimedia performance
- Supports Windows and Linux
- Compact and reliable
- Energy-efficient (just 2 watts per user)



**Desktop  
Virtualization**  
**One PC,  
Many Users**

**NComputing**<sup>TM</sup>

SAVE:

Save **75%**  
on hardware

Save **75%**  
on maintenance

Save **90%**  
on energy



\* Terms & Conditions apply • Offer valid while stocks last • No further discounts apply  
• E & OE • Prices are subject to the Rate of Exchange ruling at the time of invoice

Official importer and distributor of NComputing Products

**NC**  
**SOLUTIONS**  
Computing Solutions for Everyone

CALL: 011 465-7952  
Email: [info@ncs.co.za](mailto:info@ncs.co.za)  
Web: [www.ncs.co.za](http://www.ncs.co.za)

12 **PC HARDWARE** Notebooks

Lenovo ThinkPad Edge

## The new way

First introduced in 1992 under IBM, the ThinkPad brand is trusted by companies around the globe for its uncompromising design, unfaltering reliability and a workhorse-like approach to computing. Two problems exist though – they are expensive, and let's face it – they look boring.



Lenovo tackles these problems head on with the ThinkPad Edge, aimed at small-to-medium sized businesses. The Edge drops the ThinkPad's "any colour as long as it's black" design policy by also appearing in, gasp, Heatwave Red. ThinkPad traditionalists should further brace themselves since Lenovo also substitutes arguably one of the best keyboards in the business for a more modern "chicklet" individual key approach. We loved the old keyboard, but after working on the new one a bit we felt the same as when John Smit was replaced by Bismarck du Plessis on hooker – both are quality players.

What we really liked though is Lenovo's reversal of the F-keys. Instead of having to press Fn + F6 to switch your display, you just press F6. All you F keys thus are now shortcut keys to important functionality like brightness and volume adjustment, without the hassle of pressing Fn first.

### Trackpad

Lenovo retains their TrackPoint cursor control, and expand the size of their trackpad to allow multi-touch pinch-and-zoom capabilities. Although a webcam is included we can't forgive Lenovo for dumping the cool keyboard light.

### Onboard

We received the entry-level 13.3" model for review, with the AMD Turion Neo X2 dual core L625 running at 1.6 GHz doing the processing, with 4 MB worth of RAM. Included was Windows 7 Professional, and we found the whole system not only very fast on boot-up, but also speedy when handling a whole bunch of open windows, including Word, Firefox, photos and VLC playing a video in the background. That said we did struggle with adjusting the sound while doing this. Although not the thinnest or the lightest notebook available, the Edge weighs a manageable 1.75 kg.

We thought that the three USB ports and SD card slot were sufficient, but the addition of an HDMI slot to handle HD equipment made it more than satisfactory. The LED backlight screen needs a mention too, since it has a very nice viewing angle and its 16:9 screen ratio meant good video display.

### Conclusion

The Lenovo Edge slides in between Lenovo's traditional ThinkPad offerings and their more consumer orientated IdeaPads. While traditionalist might scoff at its funkier design, red cover and loss of regular keyboard, we think it's a welcome change. You'll still have your traditional black beauties in the ThinkPad range, with the Edge just playing Joseph with his Amazing Technicolour Dreamcoat.

The cheaper price point puts ThinkPad quality in the scope of a larger audience: available for **R10 799**, visit [www.lenovo.co.za](http://www.lenovo.co.za) for more info. [MJ]

[techsmart.co.za](http://techsmart.co.za) | March 2010

4 million & 8 million. Sales estimates for Apple's iPad in 2010 and 2011.



## THE NEW S.T.A.L.K.E.R.

MORE AUTHENTIC, MORE HORRIFIC, MORE BRUTAL!

FIRST-PERSON-SHOOTER-ACTION COMBINED WITH TACTICAL ELEMENTS  
PHOTO-REALISTICALLY REPRODUCED AREAS ALL AROUND THE REACTOR CHERNOBYL  
GIGANTIC OPEN PLAY WORLD WITH COMPLETE OPEN-ENDED ACTION  
MORE THAN 70 SUB-QUESTS GENERATED BY HAND.

GSC  
GAME WORLD

bitComposer  
GAMES

PC  
DVD  
ROM

[WWW.BIT-COMPOSER.COM](http://WWW.BIT-COMPOSER.COM)

©BITCOMPOSER GAMES GMBH, 2009. DEVELOPED BY GSC GAME WORLD. "S.T.A.L.K.E.R.", "S.T.A.L.K.E.R.: CALL OF PRIPIAT" ARE TRADEMARKS OF TRANSVISION LTD.  
© 2009 TRANSVISION LTD. DISTRIBUTED BY NAMCO BANDAI PARTNERS GERMANY GMBH. ALL OTHER TRADEMARKS ARE THE PROPERTY OF THEIR RESPECTIVE OWNERS AND USED UNDER LICENSE. ALL RIGHTS RESERVED.



# Cool tech for the office...

## Verbatim InSight portable hard drive



Verbatim's InSight 500 GB portable hard drive can squeeze nicely into your Levi's and won't feel out of place, being quite the fashionable item itself.

Not only USB-powered and weighing a mere 165 g, it's elegant too, appearing in a glossy black finish with the thin exterior only momentarily interrupted by the sleekly curved front that sports a small LCD display.

The Insight features Always On display technology, meaning the small 32 x 128 pixel LCD at the front of the unit displays the name you've given the drive as well as how much free space there is remaining on it.

Nero BackItUp 4 software is supplied with the InSight, which is easy enough to install and use. With this you can automatically sync your folders plus you can rest easy knowing that BackItUp 4 will restore a back-up if your PC or notebook crashes.

The hard-drive's distinctive Always On display feature and compact design make it a very desirable piece of tech. It comes with a two year limited warranty and is available for a RRP of **R1400**.

## Western Digital My Book 3.0

Arriving in mid-March, the 1 Terabyte (or 1000 GB) My Book 3.0 will be one of the first USB 3.0 portable hard disks in the country. With data transfer speeds of up to 5 gigabits-per-second, ten times more than current USB 2.0 speeds, large file transfers will be done in a jiffy. Call Drive Control Corporation on 011-201-8927 for more info.



## Samsung Super WriteMaster Slim External DVD writer

For people with an anorexic netbook or Macbook Air that doesn't come fitted with a DVD drive, Samsung's Super WriteMaster Slim External DVD writer proves a cool solution.

Cloaked in a stylish finish this external dual-layer DVD writer is not only compact but also weighs only 400 g. As hoped for the WriteMaster doesn't need its own external power source, since it's powered by USB. You can write CDs at a 24x speed (3.6 MB per second) and DVDs at 8x speed (10.8 MB/s). Its 2 MB buffer memory will go a long way in preventing buffer under run errors.

It comes with Nero 8 Essentials as well as Nero BackItUp 3 software. The Samsung Super WriteMaster Slim External DVD writer is available from Computer Corporation (08616-08616) for **R599**.

# ...and for the home

## Aero Cool V12 case and Syclone tower

Aero Cool's race inspired V12 carbon fibre edition tower might just be one of the coolest cases we've received in the office yet. It sports a LCD touch-screen at the front of the case to control four different fan speeds and monitor your system's temperature. It also has seven expansion slots, two USB 2.0 ports, as well as e-SATA support. Inside you'll find room for four external 5.25" drive bays, one external 3.5" bay and five HDD bays.

The other case from Aero Cool, the Syclone, features a tool-free design for its four 5.25" drive bays and two 3.5" bays, as well as tool-free sliders for its five HDD installations. To cool the Syclone you can install a 120 mm fan at front and rear of the case as well as a 140 mm fan on the side.

Both are available from Matrix Warehouse with the Syclone's going for **R789**, and the V12 for **R849**. For more info visit [www.matrixwarehouse.co.za](http://www.matrixwarehouse.co.za).



## Canyon Notebook Pack

Canyon's notebook pack slips easily into any notebook bag and is stocked with essential extras such as a numeric keypad, a miniature mouse, earphones, a USB LED lamp and a retractable USB cable. **R450** from PC Pro Shop on 012-348-4000.

## Logitech Professional Presenter R400

Death by PowerPoint was never executed as well as with the Logitech R400 presenter. With a range of 15m you can walk about freely, while a red laser pointer helps for highlighting something onscreen. With no software to install it works like a charm. **R650** from PC Pro Shop on 012-348-4000.



## DUAL phone 3088 Staying connected for free

The DUAL phone 3088 is a cordless VoIP phone that not only allows you to make free calls over Skype without a PC, but also handle regular landline calls.



All you need to do is to connect the phone's base station to your Ethernet connection and you're set to reconnect to far-off friends and family. The DUALphone uses Skype's user interface presented on a colour display and an easy-to-follow menu system. With the 3088 you can call other Skype users for free, or use SkypeOut to call landlines at reduced charges. It gives you a choice of one of ten polyphonic ringtones and has a jack for a headset if you have to free up your hands in order to take notes during a business call.

With a cordless outdoor range of up to 300 metres, a talk time of over 10 hours and a standby time of up to 100 hours, the DUALphone 3088 provides a way to bring down your spiralling Telkom charges.

You can get it from MIRO at a RRP of **R2393**.



POWERFUL | COMMUNICATION | SOLUTIONS



WIRELESS



NETWORKING



VoIP



VIDEO

086 123 MIRO(6476) [www.miro.co.za](http://www.miro.co.za)

## Edimax Wireless 11n IP Camera

### A motorised eye on proceedings

Using Edimax's Wireless 11n Pan/ Tilt IP Camera you can record audio and video streams live or according to a predetermined schedule.

The Edimax sports a 1.3 megapixel camera with 4x digital zoom, but it is the pan or tilt viewing angle of approximately 355° horizontally and about 120° vertically that really draws attention. You can view and control the camera remotely by way of a browser, with multiple users being able to view the live video stream simultaneously.

Motion detection can be deployed by selecting one of three areas. When something happens, the wireless camera will take a snapshot and the pic will be sent to your email address or FTP server. It is also stored locally on an SD card.

Its advanced video compression ensures high quality image capturing as well as a high frame rate for video streaming. The wireless camera is available from MIRO at a RRP of **R2362**.



## Edimax MA-2000 digital network media adapter

### Streaming your media

Using the MA-2000 digital network media adapter by Edimax you can stream and watch downloaded music and movies from your PC or NAS if it's connected to your house's local area network (LAN).

You can also integrate the device into your home or SME's security setup, since you are able to view real time video on your TV screen streamed from the IP cameras that you've set up. The MA-2000 employs an Auto Search function that allows it to find IP cameras that are set up within the LAN so you don't have to worry about going through a myriad of complicated settings.

MA-2000 comes with an HDMI cable included, plus files can also be read directly from flash disk or external hard disk slotted into the onboard USB port. The supported media files include WMV and WMA, MPEG-4, DivX, Xvid, H.264 and MP3.

The Edimax MA-2000 is available from MIRO at a RRP of **R1541**.







# COMPUTER CORPORATION

EME525

•Intel CM900 2.2Ghz •1GB DDR2 Memory •160GB Hard Drive •15.6" WXGA with Crystalbrite •DVD-RW •802.11g & Lan •6 Cell Battery •Windows Vista Home Basic •1 Year Fetch, Repair & Return Warranty



**4499**  
From R1749pm for 36 months

Computer Corporation Recommends Genuine Microsoft Windows Vista Home Basic



L500-1 RK

•Intel 900 2.2Ghz •2GB Memory •320GB Hard Drive •15.6" Wide SVGA LCD TruBrite •Intel GMA 950 •DVD Writer •LAN 10/100 Mbit •Wireless LAN 802.11b/g •Integrated 0.3Mpix Web Cam •Numeric Keypad •Card Reader •Windows 7® Home Premium

**TOSHIBA**

**4999**  
From R1949pm for 36 months

Computer Corporation Recommends Genuine Microsoft Windows 7 Home Premium



LCD Monitor Optional



INTEL ENTAINER

•Intel® 1.80 GHz Processor 430 (512K Cache), 800 MHZ FSB •1 Gb DDR 2 Memory •160GB Hard Drive •DVD Writer •32Mb Graphics •3D Sound Card •Network Ready •PS 2 Mouse + Keyboard •No Operating System •1 year Warranty

**1849**  
From R729pm for 36 months

UPGRADE OPTIONS ADD THE PRICE WHEN BUYING THE ABOVE PC

HARDDRIVE

250GB R49  
320GB R99  
500GB R169



MEMORY

2GB R249

INTERNET

56K MODEM R99  
ADSL MODEM R199

CPU



INTEL E5300 R349  
INTEL E7400 R949  
INTEL Q8200 R1999

SCREEN CARDS

GEFORCE 7200GS R379  
GEFORCE 8400GS R399  
GEFORCE 9400GT R499



BLUETOOTH DONGLE

•Operation range: 100m •Built-in antenna •Frequency band: 2.4GHz unlicensed ISM band

**59**

USB WEBCAM

•High-quality VGA CMOS webcam •Video capture: true 640X480 Pixels •Frame rate: UP to 30frames per second •USB2.0 certified



**79**



250GB 2.5" EXTERNAL HDD

**589**

•Hi-Speed USB •Data Transfer Rate: 480 Mbps •Spindle Speed: 7200 rpm •Buffer Size: 16 MB •Microsoft Windows XP / Vista/ Windows 7

acer

ACER X1160 P PROJECTOR

•Image Brightness 2400 ANSI lumens •Image Contrast Ratio 2500:1 •Resolution SVGA (800 x 600) •Native Aspect Ratio 4:3 •Bulb type P-VIP 160 Watt •Connections: Composite Video, S-Video, USB Interface, VGA



**3999**  
From R1559pm for 36 months

FLASH DRIVES

4GB

**R 89**

8GB

**R 179**

16GB

**R 359**

32GB

**R 699**



**649**

OFFICE HOME STUDENT RETAIL

•Excel 2007 •OneNote 2007 •PowerPoint 2007 •Word 2007

Office Home and Student 2007



Benq

19" LCD WIDESCREEN

•Contrast Ratio: 40 000:1 •Resp Time-5ms •3 Year Warranty

**999**

COMPUTER CORPORATION PRODUCTS AVAILABLE IN THE FOLLOWING AREAS Phone 08616 08616 for details about your closest outlet

WARMBAD	BRITS	FAERIE GLEN	KLERKSDORP	MIDRAND	NORWOOD	PORT ELIZABETH	RICHARDS BAY	SECUNDA	WILLOWS	ZEEURUST
BETHLEHEM	BROOKLYN	GEORGE	LENASIA	MOKOPANE	NYLSTROOM	POTCHEFSTROOM	ROOIHUISKRAAL	SILVERTON	WITBANK	SWAZILAND, Matsapha
BLOEMFONTEIN	CAPE TOWN	HILLCREST	MAFIKENG	MONTANA	PIETERMARITZBURG	PRETORIA CBD	RUSTENBURG	SOMERSET WEST	WONDERPARK	SWAZILAND
BRAKPAN	CENTURION	HARTIES	MAYVILLE	NELSPRUIT	POLOKWANE	PRETORIA SALU	SAN RIDGE	THOHAYANDOU	www.computercorporation.co.za	

Brits [012] 252 4212 • Brooklyn [012] 346 6720 • Centurion [012] 644 1674 • Mayville [012] 335 9097 • Montana [012] 548 0422 • Nelspruit [013] 745 7127  
Polokwane [015] 295 4435 • Potchefstroom [018] 293 0999 • Pretoria cbd [012] 328 6798 • Rustenburg [014] 592 7407 • Secunda [017] 634 1210 Silverton [012] 803 6100  
Sunnyside [012] 341 8939 • Thohoyandou [015] 962 3014 • Willows [012] 807 7235 • Witbank [013] 656 5363 • Wonderpark [012] 549 0210 • Zeerust [018] 642 1200

ALL PRICES INCLUDE VAT - OFFERS VALID WHILE STOCK LASTS - E & DE - ACTUAL PRODUCT MAY VARY FROM ILLUSTRATION USED. \*TERMS & CONDITIONS APPLY



**Come and experience our legendary friendly personal service!**



## BenQ MP515 projector

# A cut above budget

**For a budget projector the BenQ MP515 offers above average specs on both its contrast ratio (2600:1) and ANSI Lumens (2500, used to measure the brightness).**

The brightness of the MP515 allows for a fair amount of ambient light present when projecting, and this DLP projector offers native SVGA resolution (800 x 600 pixels).

There are two D-sub ports present, so more than one PC can be connected to the projector at the same time (although no extra VGA cable is provided). Presenters can switch between them using either the included remote or the Source button on the unit itself. While the machine includes onboard speakers, it is a measly 2 W and no audio cable is provided to hook it up. The MP515 runs at a quiet 26 dB, so you won't have to worry about noise disturbing your meeting.

With DLP projectors some people might perceive a rainbow artifact especially on the white parts of the screen, although you don't notice it after a while.

Available from Computer Corporation on 08616-08616 for a good **R4500**.



Epson EB-X6 projector

# Bigger is better

Although the Epson EB-X6 projector might not be as bright (at 2200 lumens) or have as good a contrast ratio (at 2000:1) as the BenQ MP515, it does sport one thing that is immediately noticeable – a better resolution.

The X6 LCD projector has a native XGA resolution (1024 x 768), which makes watching movies a pleasure since you have a much bigger picture, even from a relatively short projection distance. It also offers a USB port (albeit type B, but with cable) so it can be connected to any notebook that doesn't sport a VGA port, or connect two PCs at the same time.

Road warriors will love the carry bag that comes with this unit, making it easy to lug this 2.8 kg projector around.

A built-in lens guard protects the lens unit from unexpected bumps and bruises.

Another big benefit to the Epson is that the lamp life is a solid 3000 hours in high s mode – a 1000 more than the BenQ.

The Epson EB-X6 comes with a RRP of **R7924**, call Epson 011-465-9612 or visit **[www.epson.co.za](http://www.epson.co.za)** for more info.



TomTom XXL

## A lot more screen

The TomTom XXL with its 5" screen looks particularly smart with its bezel finished in a cool black with a silver lining. As such it would not look out of place in a pricey German sedan (although Navigon's devices still looks smarter).

5" is a lot of screen to play with, and it makes not just navigating the menu a breeze, but also viewing the device, with especially the text being easier to read. The user interface on the XXL is identical to TomTom's smaller models such as the TomTom Pearl, in fact it's much the same except for the bigger screen. Their Help Me! functionality is as excellent as ever, with emergency numbers, the nearest emergency services and a First Aid guide never more than a few presses away.

TomTom is kind enough to not just load maps for the Republic, but also for the rest of Southern Africa including Malawi, Zambia and Mozambique amongst others.

The TomTom XXL costs **R2249**, which is about R250 more than the entry level Pearl at R2000. The delicious 5" screen makes the extra bucks worth it though.

Available from Matrix Warehouse on 011-869-2613/4 or visit **[www.matrixwarehouse.co.za](http://www.matrixwarehouse.co.za)**.



17 years. Age of a security flaw in Windows that Microsoft addressed only last month.

Navigon 6310

All this for only...

After only entering the SA market in November last year, it's no surprise that Navigon GPSs are well priced. Their 6310 with its 4.3" screen for example is about R2000 cheaper than competing GPSs with similar features.

There's no catch to this as we were thoroughly impressed by the Navigon 6310, apart for its slow satellite fixing which is frustrating. The 6310 is loaded with features, with one of the more impressive being 3D maps. We were really impressed with the unit's 3D terrain maps which offer a topographical view of your route, highlighting the bends and slopes of terrain.

Features like text-to-speech, lane assist and MyRoutes (which offers up to three route options based on various factors like distance, time and traffic) are also present and work as expected.

Maps look great on the unit; they are clear and offer tons of information without cluttering up your view. We did find that zooming into the maps was less intuitive than we would have liked though, as you are taken to a different screen.

The Navigon 6310 retails for **R3299**, contact Hi-Fi Corporation for more details.






# CARTRIDGE DEPOT

Original and Compatible  
Laser & Inkjet Cartridges

**Drum Units**  
**Media**  
**Printer Heads**  
**Paper**



<b>Honfield (HQ)</b> 012 342 5552	<b>Witbank</b> 013 697 0224	<b>Moreleta Park</b> 012 993 4613	<b>Centurion</b> 012 663 6891	<b>Faerie Glen</b> 012 348 1079
--------------------------------------	--------------------------------	--------------------------------------	----------------------------------	------------------------------------

**www.cartridgedepot.co.za**

**086 111 2999**

<p align="center"><b>CCTV SPECIALISTS</b></p> <h1 align="center">CAMERATRON</h1> <div>  <div> <p>Shop no 9a New Times Square Arena Close Bruma</p> </div> <div> <p>Tel: 011 622 0556 Fax: 011 622 0557 Cell: 084 CAMERAS (2263727)</p> </div>  </div> <p align="center">Email: <a href="mailto:sales@cameratron.co.za">sales@cameratron.co.za</a>  <a href="http://WWW.CAMERATRON.CO.ZA">WWW.CAMERATRON.CO.ZA</a></p>		
<p><b>The GSM Mouse Listening Device</b></p>  <p><b>R690!</b></p>	<p><b>Spy Can With Remote</b></p>  <p><b>R690!</b></p>	<p><b>Spy Button Camera</b></p>  <p><b>R590!</b></p>
<p><b>Mini Dv Camera With Audio</b></p>  <p><b>R290! Each</b></p>	<p><b>Wireless Doorbell With Camera</b></p>  <p><b>R790!</b></p>	<p><b>Car Key Camera</b></p>  <p><b>R490!</b></p>
<p><b>Motion Activated GSM Listening Device</b></p>  <p><b>R595! Each</b></p>	<p><b>Spy Cap With 4 Gig Internal Memory</b></p>  <p><b>R850! Each</b></p>	<p><b>Clock Recorder 4 Gig Internal Memory</b></p>  <p><b>R590!</b></p>

**PRICES VALID WHILE STOCK LASTS**  
PRICES ONLY VALID FOR THIS ISSUE OF TECHSMART



**Uniwell**

**086 100 5855**

Superb Uniwell Systems  
555 Mitchell Street  
Pretoria West 0183  
South Africa  
Tel: 012 327 5855  
Fax: 012 327 6275  
sales@superb.co.za  
www.superb.co.za













**IMPORTER & DISTRIBUTOR**







- CASH REGISTERS - PC POINT OF SALE - SCANNING -  
TOUCH SCREEN - NETWORKING - SCALES - BAR CODING -





- CASH DRAWERS - SCANNERS - POLE DISPLAY -  
POS PRINTERS - RIBBONS - RENTALS -  
REPAIRS TO ALL MAKES OF CASH REGISTERS -

[www.superb.co.za](http://www.superb.co.za)

Dealers Countrywide

Franchise/Dealer Opportunity Available



**DEDICATED TO POS**

- Focus specifically on the Hospitality, Retail & ....Catering
- Global distribution and support network
- Software development for PoS, Back Office & Head Office
- Systems integration with option of embedded or PC based systems
- Range of PoS terminals to suit various styles of operation & budgets



\* Supermarkets \* Bottle Stores  
\* Butchery \* Convenient Stores \* etc



## Advertorial By Naldus Pienaar MD of Consilia Consult New Generation Business Intelligence

**Business Intelligence (BI) has become one of the most critical business tools as the speed of business continues to accelerate and the economic landscape becomes tougher.**

More and more businesses are moving aggressively from fragmented spreadsheet versions, five days after month-end information packs, to day-to-day (blow-by-blow) shared dashboards, analysis and alert platforms. While spreadsheets are powerful and have a specific purpose, they are a far cry from real BI, and fragment, rather than consolidate, the real business picture.

A new generation of BI tools makes it possible for managers to roll out BI solutions at a fraction of the risk, time and cost of the traditional OLAP solutions. These scalable tools are extremely powerful, designed for rapid deployment and provide end-users with a powerful and easy-to-use interface.

By following an iterative BI development strategy, companies will be able to roll out BI solutions within weeks, have much quicker return on investment, and put control back in their hands.

For more information go to [www.consilia.co.za](http://www.consilia.co.za) or call 0860-123-666.



E-triloquist speech software

## A technological hand up

Alerted by reader Simon Sikhosana, we decided to take a look at some software that can help people with disabilities.

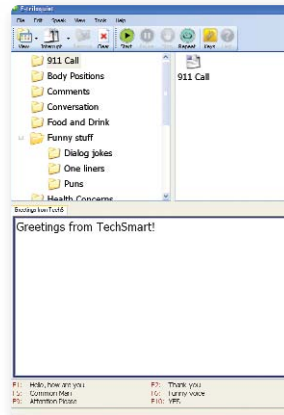
**E-triloquist is voice output communication aid software that can be used by people who are speech impaired.**

**The software converts text into speech and sends the speech to a voice synthesizer which conveys your message – all on your PC without the need for any external equipment.**

E-triloquist can be downloaded (11.8 MB for Windows XP; about 2 MB for Windows Vista and Windows 7) free of charge from [www.etriloquist.com](http://www.etriloquist.com).

You can type or copy-and-paste text that the program must 'say' or you can browse for preloaded speech in any of the 15 themed folders. You also have access to various useful phrases as function key shortcuts, including F1 for "Hello, how are you?"

If you want a more comprehensive option, The Grid 2 software (<http://tinyurl.com/grid2speech>) program features more functionality, but comes at a price ranging from **R7000** for a single user to **R26 000** for up to 20 users.



## NETSMART

Internet

## Online payment solutions



*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.*

**Although South Africans are able to use PayPal to make online payments, funds coming into their PayPal accounts can't be transferred to SA bank accounts due to foreign exchange regulations.**

The SARB's prohibitive policies have left many local businesses upset at our partial isolation from the global economy. No wonder then that the recent begrudging admission by FNB (after a leak on Twitter) that they are in discussion with PayPal to establish the service in SA, was met with excitement. Unrestricted access to PayPal services will help a lot of local talent to sell their services overseas.

But even setting up local payment solutions can be a daunting and confusing prospect for South African start-ups. With this in mind I thought I should share our experience with online payment systems in South Africa.

### Debit orders

Running a company that accepts regular payments from customers, the first thing we needed was a debit order system. We started off by trying our bank's system first, but this was a cumbersome, difficult experience, as they didn't offer a proper web interface and a huge deposit was required

[techsmart.co.za](http://techsmart.co.za) | March 2010

to cover the risk. We were soon searching for a better solution and found Netcash, a company that offered us a debit order facility with a web interface and no deposit required. Although there are several companies offering these services we have never considered moving away from them, since we didn't have a single problem in years.

### Credit cards

It wasn't long before we needed a way to accept credit card payments as well. Once again we went with a local bank first and tried IVeri, which took a long time to get approved and set up. By the time IVeri was ready, we already found MyGate's online solution, which was a breeze to start. We've made use of MyGate for several years now without any hiccups.

With more people making online purchases, we needed to accept online payments from people without credit cards as well. We started using Payfast, with once again no problems to get payments going. We have been so impressed with their ease of use, that we have switched all our online payments to their system.

**Here's a quick breakdown of the main services these companies offer.**

**[www.netcash.co.za](http://www.netcash.co.za)**

• Debit order collection • Verification services  
• EFT payment solutions

**[www.mygate.co.za](http://www.mygate.co.za)**

• Payment Gateway • Integrated POS  
• Debit order collections

• Verification services

**[www.payfast.co.za](http://www.payfast.co.za)**

• Payment Gateway • Instant EFT's



IE: 64.78%. Firefox: 17.38%. Chrome: 5.78%. Latest browser market share figures.

# FUJITSU



Compact,  
easy to use

"one touch" scanning!

**R6999** (incl VAT)

Available from **imageTek**

Tel: (011) 608-1964

[andrew@imagetek.co.za](mailto:andrew@imagetek.co.za)



**ScanSnap**  
Color Image Scanner  
**S1500**

- 20ppm Simplex/40ipm Duplex
- 50 page ADF
- Scan from business card to A3 size
- Bundled with Adobe Acrobat 9.0 Standard
- Scan directly to editable Word, Excel and PowerPoint 2003
- Top-class OCR engine
- Smaller than an A4 notebook



**Advertorial** EDP Communications

## With Room Alert, your server stays alive



**With the erratic power situation companies are faced with another major headache – what happens with your server room once the power trips and the aircons don't keep it cool anymore?**

With smaller server form factors, and of course the increase in processing speed, it's understandable that if your cooling system goes down, your server room is in serious trouble.

According to Elton du Preez, managing director at EDP Communication, 80% of people calling him in need of a quotation did so because of failing aircons.

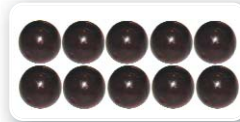
EDP Communication specialises in monitoring equipment designed for server rooms. They install equipment such as the Room Alert 11e, a real-time temperature, humidity and environment monitor. With no PC required, the 11e will send you an SMS or email as soon as the server room environment changes. The Pager software that comes free with the Room Alert allows you to monitor server room across your network via your browser. Certain key events can be flagged so that it immediately notifies personnel via cellphone or email.

For these and other monitoring solutions call EDP Communications on 012-811-0931 or visit [www.edp.co.za](http://www.edp.co.za).

**Advertorial** Foray Security

## Duel CounterForce balls

**When it comes to your personal safety, there are not many non-lethal options that have the same psychological impact as a pepper- or paintball gun.**



However, there are times when you need that impact to reach beyond the psychological and for that you need to stock-up with the appropriate ammo.

The duel CounterForce balls (R10 each in packs of 10 to 100), are the perfect companion for your Duel Pepper Pistol or Paintball marker. They come in three different types, the first of which are the CounterForce pepper balls. These miniature projectiles fragment on impact, in order to deliver burning oleoresin capsicum powder to the eyes, nose and lungs of your attacker.

The re-useable CounterForce training rubber balls (R75 for a pack of 50) are meant for shooting at a single target or for crowd control, while the CounterForce training solid

balls are only available to law enforcement- and national defence personnel. They are similar to the rubber balls, but deliver a more powerful hit (R75 for a pack of 50). Available from Foray Security on 082-877-9851 or 012-675-1278.

[techsmart.co.za](http://techsmart.co.za) | March 2010

CONSILIA CONSULT  
BUSINESS INTELLIGENCE

Consilia Consult is a professional consulting and training company that specialises in the fields of QlikView, Business Intelligence and Performance Management Solutions.

Let Consilia Consult show you how QlikView can provide you with a new level of operational clarity and strategic insight. Let us enable you to harness, analyse and get real value from your ERP and sundry data in a way you never thought was possible.

# QlikView

POWERED BY  
CONSILIA CONSULT

Consilia Consult (Pty) Ltd Building 11, Pinewood Office Park, 33 Riley Road, Woodmead Ext 3 I P O Box 5755, Rivonia, 2128, South Africa  
Telephone: 011-023-1341  
Website: [www.consilia.co.za](http://www.consilia.co.za)



>10 hours. Cinematic storyline scenes in Final Fantasy XIII.

## Duel Black Piece Pepper Pistol



**Full Kit Only**  
**R1729**

1x Duel Pepper Pistol  
10x Duel Pepper Balls  
50x Rubber Training Rounds  
10x CO2 Canisters

Duel Pepper Balls x 10 – R100

Rubber Balls x 50 – R75

CO2 canisters x 5 – R45

**FREE Local Delivery**

**Dealer Enquiries Welcome**



**082-877-9851**

[www.foray-security.co.za](http://www.foray-security.co.za)

- Home and Self defence
- Riot Control
- Controlling uncooperative and violent suspects
- Hostage Rescue
- Domestic Violence
- Realistic Scenario and Live-fire Training

>9.7 million. Global sales of EA's FIFA 10 since its launch.

**Advertorial** Betta Lights

## Betta Lights Solar Power Lighting Solutions

**With Eskom's current electricity supply problem and new tariff increase of 24.8% on the cards, solar energy is an idea worth investigating.**

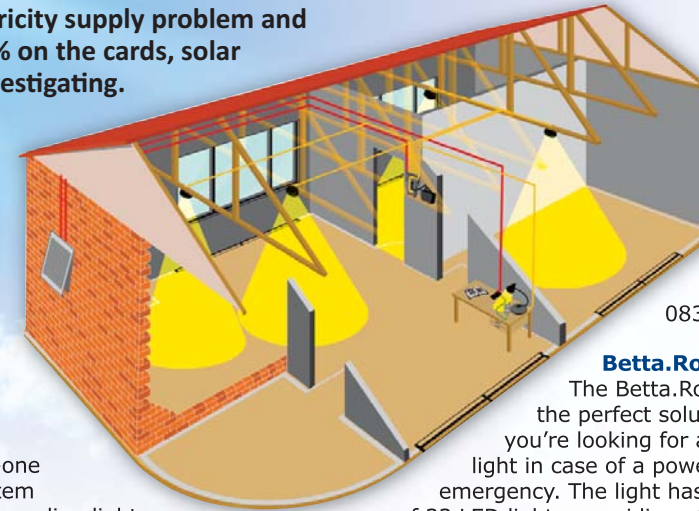
Betta Lights is a South African company that specialises in solar energy solutions, and were one of the 2009 702 Small Business Awards finalists. Betta Lights have a number of ready-made solar products suitable for the SA market.

**Betta.Life.Light**

For small houses or cottages (about 50 sq meters), the Betta.Life.Light offers an all-in-one solar lighting solution. The system supports seven LED lights, one reading light and a cellphone multi-charger. A solar panel facing north charges a six volt battery during the day, which of course powers the lights at night.

The LED lights, including the reading lamp, are supplied with the system, with the whole solution ready for DIY installation. The lamps can work for a 15 hour period off the battery with no extra power needed.

A good battery is one of the essential ingredients in a solar power set-up, and the rechargeable Lead Crystal battery used by Betta Lights is one of the best in the business. Lead Crystal



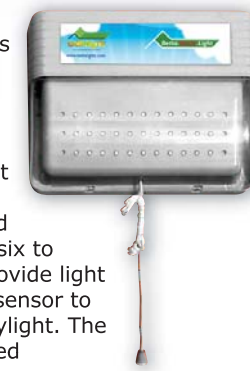
batteries have a very good shelf life, with a good high-rate discharge. It's also one of the greenest batteries on the market since there are no gaseous emissions, while the electrolyte is non-corrosive and neutral plus it cannot filter into the ground. The Betta.Life.Light system costs

**R3800**. Contact Natural Power on 083-403-8056.

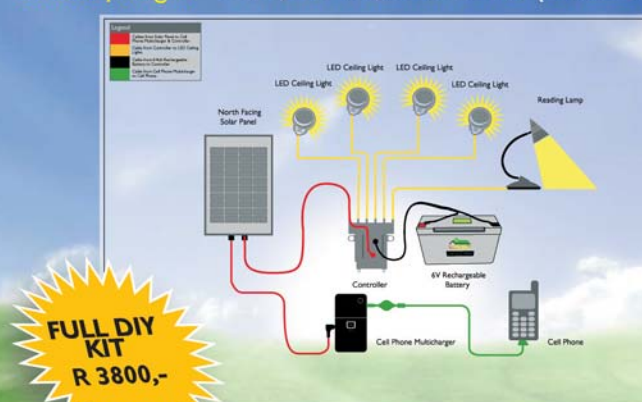
**Betta.Room.Light**

The Betta.Room.Light is the perfect solution if you're looking for a backup light in case of a power emergency. The light has an array of 33 LED lights, providing efficient light to cover a 20 m² room. Connected to the unit is a 12 V battery that is charged via a 10 Watt solar panel, taking about six to seven hours. Once done the unit can provide light for 12 hours. It includes a built-in light sensor to prevent the unit being left on during daylight. The Betta.Room.Light should be wall mounted approximately 1.6m above ground.

The Betta.Room.Light costs **R1500 to R2000** depending on delivery. Contact Natural Power on 083-403-8056.

SOLAR POWERED LIGHTING SOLUTIONS  
FOR REMOTE AND OFF-GRID LIVING

## NATURAL POWER

**Betta.Life.Light** 6Volt, DIY Kit, Solar Power (5x LED Lights)

**FULL DIY KIT**  
**R 3800,-**

**Application:** Low Cost Housing, Informal Housing, Farming Communities or any off-grid lighting requirements.

**Betta.Room.Light** 12Volt, DIY Kit, Solar Power (Single Unit With 33 x LED Lights)

**FULL DIY KIT**  
**R2250,-**

- LIGHT SENSOR
- 15M CABLE
- ANTI-THEFT WALL MOUNT BRACKET
- LIGHT UP TO 25M²
- RUNS UP TO 12HRS

**Application:** Emergency Lighting for Houses, Off-Grid Lighting such as farming communities, Remote Villages and Camping.

**EASY TO INSTALL**



**CALL NATURAL POWER NOW!**  
**083 403 8056**



## How to: Create a PC remote control

Remote controls for PCs are few and far between but making your own infra-red receiver is real easy and allows you to use your TV or Hi-Fi remote with your computer.

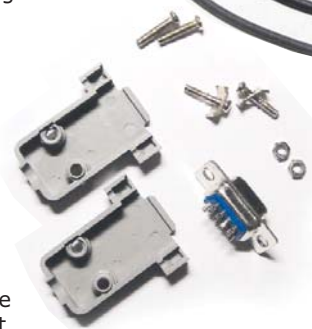
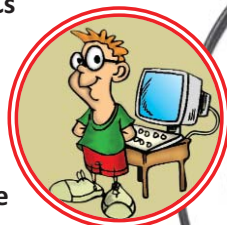
The parts are under R20 and a trip to your local electronics store should sort you out in no time.

The parts needed are available at most electronics distributors (Communica etc.), alternatively you can buy everything online from sites like

[www.communica.co.za](http://www.communica.co.za) or [za.rs-online.com](http://za.rs-online.com).

### You need the following:

- Female DB9 Connector, otherwise known as a serial connector
- Serial connector enclosure
- An IR receiver module, ask the shop to label the pins since these differ for different units or look it up on the web if you're buying online.



- A 4.7K resistor
- A USB cable scavenged from an old mouse or keyboard. We'll be using the USB plug still attached to about 10 cm of cable and about one meter of the wire.

### Tools needed:

- A soldering iron
- Screwdrivers and a glue gun to get it all neat

### Making the remote

Firstly attach about a meter of cable to each pin of your receiver. Strip some plastic from the end of the USB cable and cut all wires except black and red, connect the black wire to the ground of your receiver (this is why you asked them to label the pins) and to pin 5 on the serial connector, connect the red wire to the positive terminal of your receiver and to one end of the resistor. Connect the other end of the resistor to the output of your receiver and to pin 1 on the connector. That's it, we're done.

We'll be using uICE available at [www.mediatexx.com](http://www.mediatexx.com) to control the receiver, it's about a 4 MB download. Plug in both connectors and fire up the software. Select "LIRC Basic Device" in the "Device Selection" dropdown box. Under the "Hardware Setup" tab select the com port you plugged the device into, this will be COM1 for most. Right click on the commands area and select "New Remote Control", right click on the new remote and select "Learn Single Button". Name the button and press the button on the remote until the "Learn Another" button activates, press it and continue naming until all buttons have been recognised.

Under the "Actions" tab, right click on your remote and select "New Application" here you can select a number of supported applications from Winamp to Windows Media Player. Right click on an action supported for the program and select "Rename Command", from the drop down box select one of the names you assigned to a remote button. When you're done select "Apply" and you're ready to start using your remote. [MS]



100 GHz. Speed of IBM's graphene transistor that might replace current silicon transistors.

[techsmart.co.za](http://techsmart.co.za) | March 2010

## Use the power of Telephony

to empower your telesales team and debt collecting department

**PowerCall** *crm*  
Know your customers and suppliers. Maximise Profits

**INCREASE SALES WITHOUT HURTING YOUR POCKET!!!**

PowerCall CRM includes the Powercall CTi phone & Powercall CRM software (headset optional)

MANAGE CUSTOMER/SUPPLIER CONTACT DETAILS, ONE-CLICK DIALLING, INCOMING POP-UP (FSK/DTMF CLI), VOICE RECORDING



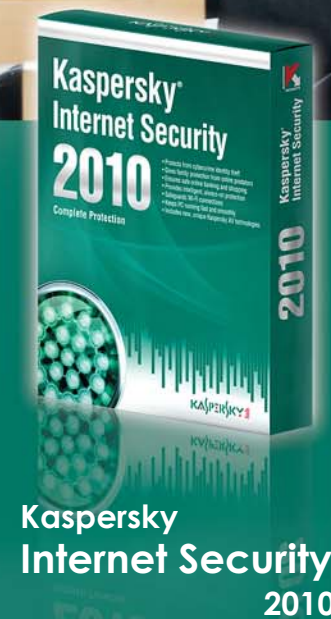
Attention Software Developers:  
API for our CTi Phone is available so you can integrate your software with our phone

[www.powercallcrm.com](http://www.powercallcrm.com)  
011-465-8579



Protecting you, wherever you may be

**KASPERSKY** lab



**Kaspersky Internet Security 2010**

Kaspersky Internet Security 2010 automatically protects you and your family at all times – whether you work, bank, shop or play online.



**Kaspersky Anti-Virus 2010**

Kaspersky Anti-Virus 2010 provides the basic tools needed to protect your PC.



**Kaspersky Mobile Security**

World-class security for smartphones: at home, at work, on the move.



**Kaspersky For Business**

World-class enterprise security solutions for your business.

**KASPERSKY**

**GFI**  
Authorised distributor

**GFIMAX**  
Easy, Affordable Solution for IT Support & Managed Services™



**Check Point**  
SOFTWARE TECHNOLOGIES LTD.

- Email Archiving
- Unified Threat Management
- VPN

- Anti-Spam
- Anti-Virus
- Content Monitoring

- Firewalls
- Intrusion Detection/Prevention

**AfricoSD**  
Africa Solution Distributor

Tel: 012-665-2513 | Fax: 012-665-0509  
E-mail: [info@africasd.com](mailto:info@africasd.com)  
Website: [www.africasd.com](http://www.africasd.com)



# Billing in a Snap™

Free, secure and easy to use

POWERFUL ONLINE BILLING SYSTEM

CLIENT AND SERVICE MANAGEMENT

TASK AUTOMATION

PAYMENT GATEWAY

FULLY BRANDABLE



<https://www.snapbill.com>

Join today, it's **FREE!**

26

SERVICES

SME

**Advertorial** Powercall CRM package

## Telesales or Debt Collecting call centre? No problem.

SME's that might benefit from a small call centre or a simple telesales solution will do well to investigate the Powercall CRM package from Focal Communications.

Powercall CRM combines powerful customer relations management (CRM) software with an integrated CTI telephone. With the help of the Powercall package managers can cut back on operating costs by training some of the company's staff to take up the function of telesales and marketing using the provided CTI telephone (working on any analogue line or PBX extension) and Powercall CRM software. This with a minimum amount of training and investment.

Apart from its telesales functionality, Powercall CRM can also be used by a company's accounts department to do debt collecting. Companies utilising Powercall CRM have indicated that their sales revenue has climbed by over 30%, whilst their profits have risen by over 50% after making the switch to this solution.

The software also allows you to make VoIP calls using third party software, for example Skype, and to record voice calls with an added email send option. For more info on Powercall CRM call 011-465-8579 or go to [www.telecom911.co.za](http://www.telecom911.co.za).



**Advertorial** Snapbill.com

## Billing in a Snap

Individuals or small companies offering services often have a problem with inadequate and/ or inefficient billing systems. It is with this in mind that South African company Lusion Technologies designed Snapbill.com.

Snapbill.com is an online billing and service provisioning system, allowing you to invoice clients from anywhere with an internet connection. And it's free, at least for the first 25 invoices, there after it's **R50** per month for unlimited usage.

This website allows you to add your own services and create a complete client billing management centre with fully branded online sign-up forms.

Since your email addresses are integrated into Snapbill's comprehensive system, all your billing data can be tracked, while your monthly statements can be exported to Excel or as CSV file to be imported into Pastel.

Not only does Snapbill generate your invoices, you can also use it as a payment gateway with no monthly or recurring fees. This allows clients to pay you via credit cards, debit orders or electronic funds transfers. Bills are completely personalised since Snapbill allows for the complete branding of invoices, quotes and payment reminders. For more info or to sign up, visit [www.snapbill.com](http://www.snapbill.com).



[techsmart.co.za](http://techsmart.co.za) | March 2010

2010 Reader Survey

FEEDBACK



## TECHSMART SURVEY RESULTS

Another TechSmart survey has come and gone. Thanks for all of you that completed our questions online. Here are some facts and figures about you, our ultra-cool readers.

### >> What you look like:

- 84%** Are men
- 33%** Are between the ages of 25-34, followed by 22% between 35-44 years
- 49%** Speak English, 34% Afrikaans and there has been an increase in the amount of African language readers
- 76%** Have post-matric qualifications
- 36%** Earn more than R20K per month
- 39%** Work in the IT/ Telecoms field
- 13%** Are business owners, while 8% are senior managers, with the largest majority (38%) being staff members

### >> What you read in TechSmart:

- 50%** Read the mag cover to cover
- 85%** Of you share your copy of TechSmart
- 3.5** Readers per copy (350 000 readers per issue) Most popular sections: 1) Gadgets 2) Hardware 3) Software

### >> Stuff you own:

- 89%** Are internet connected at home, 47% connecting via Wireless, followed closely by ADSL on 35%
- 64%** Own a portable hard drive, with 500 GB the most popular size
- 51%** Own a GPS, mostly purchased within the last two years
- 100%** Own a cellphone. 45% owns Nokia, more than the next three, Samsung (15%), Sony Ericsson (14%) and HTC (10%), combined.
- 47%** Check their email on the phone

### >> Gaming:

- 69%** Plays video games, with PC the gaming platform of choice. Most owned next-gen consoles: 1) PS3 2) Nintendo Wii 3) Xbox 360

### >> General:

- 75%** Of our readers have supported our advertisers
- 54%** Of our readers who are business owners, have bought something for their companies - thanks.

Thank you to all our prize sponsors. All the winners will be announced in the next issue of TechSmart.

BUSINESS DIRECTORY

27

**tech smart**  
getting smart with technology

## INCREASE your company's visibility

TechSmart introduces our new **Business Directory**

Smaller businesses are given the opportunity to advertise with TechSmart and reach our readership of 250 000 people monthly. The Business Directory will be organised as guides with sections for Computer retailers, Computer repairs, Cellular stores, ISPs, Gadget retailers, etc.

## REDUCED RATES!



Take advantage of TechSmart magazine's **100 000** copies distributed every month! Advertise in our print directory from only **R900** per month

Talk to us to see how we can help you

Anneke Kirchner  
012-362-2732 • 083-301-9134  
[anneke@smartpublishing.co.za](mailto:anneke@smartpublishing.co.za)

Leading Innovation & Technology.

Introducing iLuv App Station™ and Vibe Plus™.



For your nearest dealer contact  
TEL: 011-463-8530 | [sales@cortechsa.co.za](mailto:sales@cortechsa.co.za)  
[www.cortechsa.co.za](http://www.cortechsa.co.za)

**iLuv**

March 2010 | [techsmart.co.za](http://techsmart.co.za)

SERVICES

AUDIO VISUAL



# Introductory Special!

While Stocks last

imageTEK  
plustek

## Plustek SmartOffice PS281

20 PPM / Feeder Capacity up to 50 pages  
Scan to Searchable PDF / Small Footprint – Ideal for office use  
Scan business cards with BCR software

Now only **R2399** (incl VAT)

## Plustek SmartOffice PS286

25PPM/251PM Scan Speed  
50 Sheet ADF Capacity / TWAIN & WIA Drivers  
Duplex and Simplex Colour Scan  
OCR/BCR (Business Card Recognition Software)

Now only **R3299** (incl VAT)



Available from imageTEK

Tel: (011) 608-1964

andrew@imagetek.co.za

## MAHALA MID-MONTH MADNESS!!

WE WILL BEAT ANY WRITTEN QUOTE!!

### Crazy Hyundai LCD Panel Specials!



HYUNDAI

32" LCD - HD Ready, 16:9 Aspect Ratio, 1200:1 Contrast Ratio, HDMI inputs, AV Stereo - R3 499.00 ex VAT  
40" LCD - Full HD 1080P, 16:9 Aspect Ratio, 1500:1 Contrast Ratio, HDMI inputs, AV Stereo - R5 299.00 ex VAT



No TV License required!

One year instant swap-out warranty on all Hyundai LCD's.



**Mr Win 7 Killer\***  
Intel E6500 Core Duo 2.93GHZ CPU  
2GB DDR2 800 RAM  
MSI G31 Mainboard with LAN, VGA, Sound  
500GB SATA HDD, 22X DVD Writer, Tower  
Case, Keyboard, Mouse, **2 YEAR WARRANTY**

**R 2499 ex**

\*Get MS Windows 7 less 5% when buying this great deal from Phase2!



Samsung 933SN 19" LCD Monitor

18.5" Wide, 16:9 HD Format,  
1360x768 resolution, 5ms Response Time,  
50000:1 Contrast Ratio,  
300cd/m² Brightness - D-SUB  
**3 YEAR WARRANTY**

**R 969 ex**

**PHASE2**  
COMPUTERS  
DIRECT

Johannesburg: 011 444-5956 | 011 444-2347/8 | 011 262-0281 | 15 Dartfield Road, Kramerville, Sandton  
Email: directsales@phase2.co.za | Trading Hours (Mon-Fri) 8h00 - 17h00 (Sat) 8h30 - 13h00  
Price V.A.T. Exclusive | Terms & Conditions Apply | E&OE | Product might differ from Images

# WE BUILD COMPUTERS

STOCKISTS OF ALL TOP COMPONENTS AND BRANDS



## WE BUILD COMPUTERS FOR

• Home • School • Office • Gaming

## INTERNET EXPERTISE

• Network set-up • Modem set-up • Skype set-up

We can solve all your internet-related problems

## INSTORE TECHNICIANS

## CALL OUTS • UPGRADES

## BEST PRICES ON CARTRIDGES

## MENLYN PARK

TEL: 012 348 4000

MENLYNPCPRO@GMAIL.COM

## MENLYN RETAIL PARK

TEL: 012 348 8212

FAX: 086 650 9096



# • UNDERSTANDING SERVICE •



## Heavy Rain When it rains, it pours



Heavy Rain starts slowly, feeling more like a drama than a suspense game. If you are patient though, you are rewarded with one of the best told stories in gaming we've ever encountered.

### The story

The story is intricately woven, focusing on four people desperately hunting for a serial killer – dubbed the Origami Killer due his signature – who murders young boys.

All the characters experience their own emotional roller-coaster, and you are sucked in. The one moment you are doing mundane things like brushing a character's teeth or using the toilet. The very next moment you are engaged in fighting off attackers or examining a crime scene. The combination of mundane and exciting is what causes you to emotionally invest in the characters though.

You find yourself willing the characters to succeed, not just so you 'win' the game, but in the same way you find yourself gripped by a character in a good book – almost as if the outcome of their cause really matters. Good voice acting only serves to intensify the effect.

### The controls

Unlike many console based RPGs that depend heavily on quick time sequences that you either complete or fail, Heavy Rain is more organic. The plot simply marches on regardless if protagonists die or you are unable to follow the on-screen prompts correctly. You can interact with objects, or other characters in game, by following on-screen prompts to press face buttons and the right analogue stick. You often have a choice to follow a certain course of action.

The controls also conceptually mimic the actions you perform in game, for instance basic tasks require basic button presses, while more complex tasks require a combination of presses. The movement controls aren't as well executed though; to move about you use the R2 button to walk and the left analog to direct a character. This sounds rather basic, and it is, but it often felt awkward and unresponsive.

### The visual element

Character models are detailed, especially facial expressions, with the presentation of environments equally as good. Developers, Quantic Dream, really set the scene with every environment adding to the emotion relevant to the particular part of the story you're in.

### Conclusion

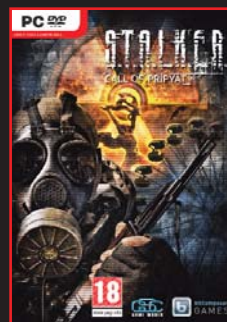
Heavy Rain isn't a game that will appeal to everyone. There is no action on tap, instead you get a suspense filled story that's well told. It's a very mature game in the themes that it explores and the depth of emotions you experience. If you are willing to invest yourself, Heavy Rain turns into more than just another mindless game. [TM]

## Awesomely Amazing PC Games give-away

TechSmart with the help of Sterkinekor games are giving away three of the hottest PC titles currently available.



We have two copies each of **Stalker**, **Metro 2033** and **DOW II Chaos Rising** to give away. To enter visit [TechSmart.co.za](http://TechSmart.co.za) for more info.



12 years. Time it took games developer Blizzard to go from \$7 million to \$7 billion in worth. (Thanks WoW)

THE FILLING STATION



**Refill your own ink cartridges and**  
**SAVE 90% or more**

- ✓ Top quality German ink for refilling: desktop, large format and toner powder
- ✓ Chip Resetters: Canon, HP & Epson
- ✓ Refillable Cartridges with Auto Reset Chips for various brands
- ✓ Original brand Cartridges
- ✓ 100% new, generic replacements
- ✓ Franchise, dealer & affiliate programmes
- ✓ 8 years industry experience
- ✓ Cash for your empty cartridges - T&C apply



[www.thefillingstation.co.za](http://www.thefillingstation.co.za)

Richard 084 770 0602

[ink@thefillingstation.co.za](mailto:ink@thefillingstation.co.za)



**FEAR THE FUTURE**






© 2010 THQ Inc. Developed by 4A Games. 4A Games Limited and their respective logo are trademarks of 4A Games Limited. NVIDIA, the NVIDIA logo, GeForce and "The Way It's Meant to be Played" logo are registered trademarks and/or trademarks of NVIDIA Corporation in the United States and other countries. Metro 2033 is based on a book by Dmitry Glukhovsky. THQ and the THQ logo are trademarks and/or registered trademarks of THQ Inc. All Rights Reserved. All other trademarks, logos and copyrights are property of their respective owners. Microsoft, Windows, the Windows Vista Start button, Xbox, Xbox 360, Xbox LIVE, and the Xbox logos are trademarks of the Microsoft group of companies and "Games for Windows" and the Windows Vista Start button logo are used under license from Microsoft. All other trademarks are property of their respective owners.





**Name** James Olwen 74  
**Handle:** LadiesMan74  
**Occupation:** Pensioner  
**Favourite Quote:** Of course I'm 47 :)

**Name** Clifford Olwen 22  
**Handle:** DestroyerOfWorlds  
**Occupation:** Student  
**Favourite Quote:** Grandpa! Get off Facebook!

**Name** Jeffrey Olwen 54  
**Handle:** Jeffol  
**Occupation:** Business Owner  
**Favourite Quote:** Hey stop fighting you two!

# GENERATION GAP?

Not with the new Webonline hassle free, easy to setup ADSL Broadband solution

**1 gig bandwidth including monthly**  
ADSL line (384kb/s)  
Free ADSL modem  
Free Email address  
Free telephonic technical support

**R199**  
**pm all included!**

## Benefits of ADSL:

- MUCH faster than dial-up
- Always on (don't pay for time you spend online)
- Fixed monthly fee (no more surprises on your phone bill!)

## IMPORTANT TO NOTE:

- R399 setup fee includes Telkom ADSL line activation as well as shipping of the modem.
- You need to have an existing Telkom line before we will be able to provide the service.

**For full details visit [www.webonline.biz](http://www.webonline.biz) or call us on 0861-666-555**

 **webonline**  
YOUR BETTER HOSTING SOLUTION

\* All services are subject to terms and conditions.  
E & OE. All names and trademarks are the property of their respective owners.