Volume 5
September 2009

GIT
EMEA Edition

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SECURITY + MANAGEMENT

5 MAGAZINE FOR SAFETY AND SECURITY

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COVER: SICK – Creative Monitoring
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Eyes Wide Shut

In London more than one million video cameras are installed and the British Government has spent £500 million on the video equipment. Now an internal report by the Metropolitan police has revealed that last year only 1,000 crimes were solved using CCTV images because officers failed to make the most of potentially vital evidence. The report has initiated discussions if the use of video surveillance is the weapon of choice against crime in our cities.

Officers at Scotland Yard said that the police must do more to head off a crisis in public confidence over the use of CCTV cameras. It was said in the report that people are filmed numerously every day and have high expectations when they become victims of crime. But it was suggested that the reality was often disappointing as, in some cases, officers do not bring criminals to justice even after they are caught on camera and identified. Such a disappointment combined with critics about a so-called 'surveillance state' and public fears about 'Big brother is watching you' are dangerous for the security industry. I remember a case in Frankfurt/Germany some years ago where a robbery at a bus station occured in direct view of video cameras. The problem was that nobody monitored the cameras at that time and the pictures were not recorded. One can imagine what effect this had on public opinion regarding video surveillance.

There are better examples that show how effective video surveillance can be. In our report about the safe city Moscow project in this issue it is shown that such a project can have a very positive effect. According to the Main Internal Affairs Directorate of Moscow, the SafeCity implementation has caused a dramatic reduction in burglaries and vandalism – drops of 12.5% and 33% respectively in the first six months of operation alone. Crime-solving rates have also increased. Alexander Chumachenko, Deputy Executive of Moscow Main Internal Affairs Directorate, believes that SafeCity had a role to play: 'The presence of CCTV cameras makes people more disciplined, and provides an excellent deterrent to crime.'

The Metropolitan Police is London is now piloting a scheme, known as Operation Javelin, to improve the use of images from existing cameras. In eleven boroughs they have created dedicated Visual Images Identification and Detections Offices. These collect and label images before passing them on to a central circulation unit that distributes them to officers, forces and the media. Some 5,260 images have been viewed so far this year, with identification made in more than 1,000 cases. This scheme should be expanded across the force in an attempt to make the investigation of CCTV evidence as professional as fingerprinting and DNA technology.

Enjoy reading this issue!

Best wishes from the
GIT Security + Management team

Heiko Baumgartner

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COVER

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LMS120 Laser Measurement Systems are a reliable tool to protect museums against acts of vandalism and theft. As a result of their targeted but flexible area monitoring, they can reliably detect theft and vandalism – and thus pre-emptively prevent them – whilst reducing the number of guards. 26

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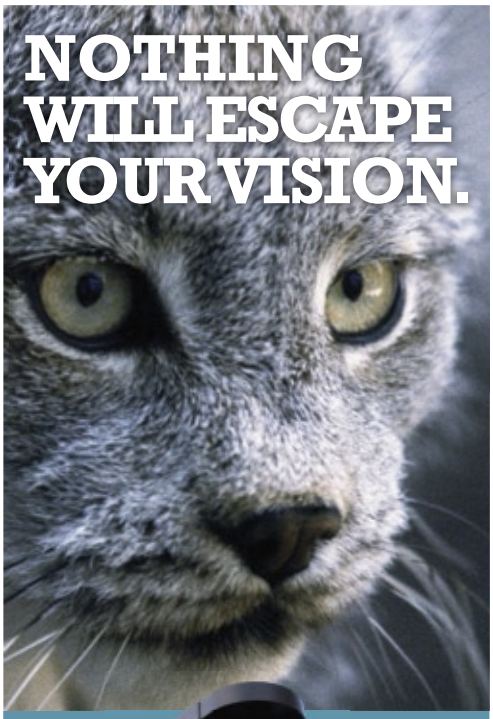

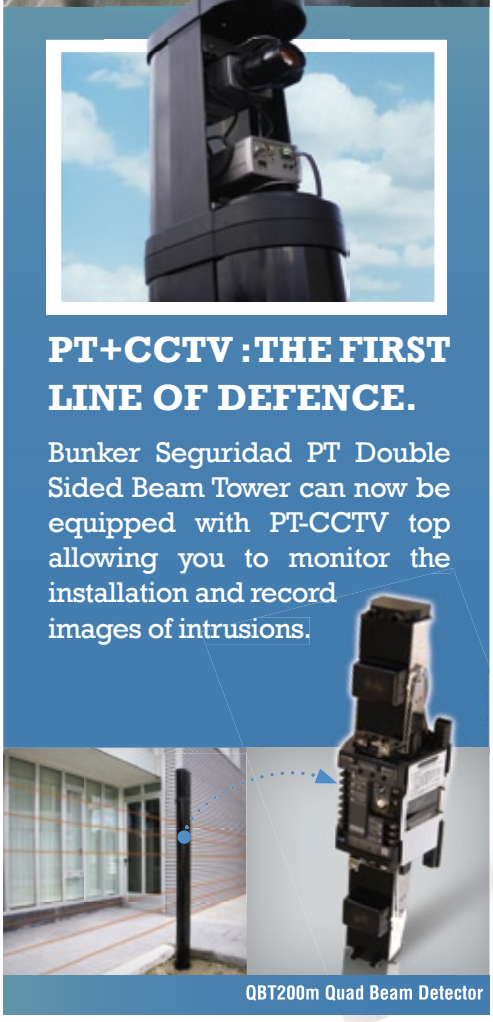

Priority Protection

A host of C-Tec's life-safety products are now safeguarding Hawksyard Priory, a nursing home in Staffordshire. Situated in Armitage in Rugeley, Hawksyard Priory is a Grade 1 listed building and is steeped in history. Built by the Dominican Order in 1896, the Priory is a former monastery, originally occupied by nuns of the Order, before being run by the monks as a boarding school for boys. In 1989 it was transformed into a 76-bedroom nursing home. Last year the home underwent further renovation, which involved enlisting the services of top electrical installation company, Solid State. Specialist engineers from the BAFE SP203 accredited Lancashire-based company replaced the old fire alarm with a C-Tec XFP analogue addressable fire alarm system featuring over 200 Hochiki devices. The new wing of the building has 12 sounder modules, driven by one of C-Tec's EN54-4 compliant 24 V 3 A power supplies.

www.c-tec.co.uk

Videor and Vivotec Agree on a Distribution Partnership

Videotec is expanding its distribution and will now also be selling its video surveillance products through Videor E. Hartig. The latter has concluded a distribution partnership with the Italian manufacturer Videotec and will be distributing its products in the Europe and Middle East Area. Michael Haas, Managing Director of Videor announced: "We are proud to have won Videotec, the market leader for PTZ systems and housings technology, as distribution partner. Our customers will immediately benefit from the high quality of the products, the attractive price/performance relationship and the new developments of the Italian innovator. This will enable us, as a multi-brand distributor operating throughout Europe, to expand, step by step, our range of products, which includes individual components as well as integrated solutions in the fields of security, imaging and broadcasting, and which is support by a broad spectrum of strong brands."

www.videor.com

TSSI Set to Safeguard Public Records

TSSI has signed a partnership agreement with employee access management company, Imprivata, to distribute its One Sign Platform to secure and simplify access to networks, desktops and applications. TSSI's focus will be selling and implementing the platform into police departments and healthcare trusts nationwide. Biometrics and identity specialist, TSSI, will compliment its existing portfolio of technology solutions for the verification of personnel and documents with the platform to provide a holistic security solution encompassing both physical and virtual access control. Recognizing the increased demand for safe access to applications with a single password or strong authentication device, specifically within the police and health sector, Imprivata partnered with the company based on its existing presence and established relationships within these key markets.

www.imprivata.com

HDCCTV Alliance Opens Registration for Membership

HDCCTV Alliance, a global security industry consortium established to manage technical standards for HDCCTV equipment interoperability, announced that the organization is now open for membership sign up. Alliance members can log into the Website and gain access to non-public Alliance information. Members also participate in the development of HDCCTV Interoperability Specification v1.0, planned for public distribution in September 2009, and will be invited to product category launch events in late September. In an HDCCTV-based system, HDTV signals are transmitted digitally over conventional CCTV media without packetization and without any perceivable compression latency. The aim of the Alliance is to guide standardization efforts and promotion of HDCCTV.

www.highdefcctv.org

Giesecke & Devrient: Market Position Maintained

Number three smart card manufacturer Oberthur Technologies (up 1.4 % YOY in 2008) closed the gap on Giesecke & Devrient in second place last year to less than one percent market share difference following its acquisition of X Pon Card. However, the latest market analysis from IMS Research shows that the German company, after reporting record turnover and profits in 2008, maintained its position as the second largest manufacturer of smart cards globally, behind market leader Gemalto. Sagem Orga (up 1.3 %) and Watchdata Systems (up 1.5 %) were the other two companies calculated to have made the biggest gains last year. "Overall the smart card market grew 16.7 % in 2008 in terms of volumes and all manufacturers saw plenty of upside", commented John Devlin, author of IMS Research's Smart Card Annual Review & Market Share Update.

www.imsresearch.com

Autonomous Multi-mission Vehicle

Argo introduces the robust, autonomous multi-mission vehicle Chrysor for manned or unmanned reconnaissance, surveillance and transportation missions in difficult terrain. Robowatch developed the vehicle using the Centaur, an 8x8 all terrain utility vehicle manufactured by Argo. Established in 2000 Robowatch with its proprietary robotic technology has been developing and distributing mobile robots that offer reliable protection for applications where direct human involvement is not feasible. The company's products are autonomous or semi-autonomous controllable mobile robots that act naturally in complex and dynamically changing operational environment.

www.argoatv.com

Mobotix Group Flouts the Recession

Mobotix ended its business year 2008/09 on 30 June with a record result. The concern (IFRS consolidated accounts) achieved turnover growth of c. 27 % to € 44.9 million for the year (07/08 € 35.3 million) in spite of the global recession, and extended its worldwide market share. Annual profit reached € 7.5 million, helped by above average Q4 growth, giving a gross dividend of € 1.70 share. The concern significantly exceeded its own predictions for 08/09. The AGM is on 30 September at the company's premises in Langmeil.

www.mobotix.com

BSIA Chief Executive to Step Down

John Bates is to step down as Chief Executive of the British Security Industry Association with immediate effect. John Bates comments: "It has been a privilege and I am proud to have led the BSIA. The team is conscientious, dedicated and serves the members well and I have enjoyed working with it. I am confident that the 'Better, Bigger and Stronger' agenda that I have championed, together with the vision the future we have developed together since October last year, will do much to build upon the Association's success." A process to seek a replacement for John Bates will commence in due course and in the meantime the Association will be managed by the team of directors in close liaison with the Association's Chairman.

www.bsia.co.uk

Vidicore Consolidates Sales and Support Team

Vidiccore has announced the consolidation of its European sales team and strengthening of technical and project support. Achim Hauschke, owner of the company: "As a result of the high demand in IP- and megapixel technology, in particular for the Arecont Vision product line, we see a need for action in order to live up to our role as a quality-conscious company as regards customer and technical support availability." The sales team will be increased from five to a total of nine regional marketing employees in Scandinavia, UK, France, Central Europe as well as in German-speaking territories; the technical support will be supplemented by qualified employees in project support and the Seminar and Training Course sector.

www.vidicore.com

One cable

A world of opportunity

Samsung Techwin introduces coaxial control compatibility

A variety of Samsung Techwin cameras, speed domes and digital video recorders are now compatible with the Pelco C coaxial control protocol as standard. This enables both video and telemetry to be transmitted via the coaxial cable giving full control of camera or speed dome functions and access to set-up menus via the digital video recorder from the comfort of the control room.

As well as providing convenience, this technology also offers real cost savings through reduction of cabling infrastructure and provides flexibility for retro-fit applications by allowing existing equipment to be upgraded quickly and easily – offering a world of opportunity for your business.

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CCTV MANUFACTURER OF THE YEAR
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Fax: +44 (0)1932 455 325

For further information please contact:
E-mail: STEsecurity@samsung.com
Web: www.samsungcctv.com
Available from all leading electronic security distributors

Geoquip Gets Frost & Sullivan Award

The 2009 Frost & Sullivan Product Line Strategy of the Year Award in the European perimeter intruder detection market is presented to Geoquip. The award recognises the company's pioneering efforts over the years in building a strong and extensive product line of technologically advanced and highly effective electronic perimeter intrusion detection systems and solutions. The company's recent achievement in this market includes introduction of three new products namely Gthernet, Geolog and Sensor fence in the years 2006 to 2008. Security systems catering to a wide range of markets and applications (like hospitals, banks and prisons) complemented with excellence in rendering customer service have led to considerable market acceptance of the products, thereby propelling its growth in the market. The Frost & Sullivan Product Line Strategy of the Year Award is presented each year to the company that has demonstrated the most insight into the needs and product demands of its customers.
www.geoquip.com

Cameras with Video Analytics

Pelco announced its integration with Object Video. In the ongoing commitment to open architecture solutions, Pelco has embedded the Obect Video Onboard suite of analytics software into its Sarix-based megapixel series camera. "The type of flexibility that Object Video's software provides is a perfect example of our commitment to openness and interoperability," says Dave deLisser, Pelco Director of Integration. "By using the open architecture capabilities of Sarix to host the industry leading analytics from Object Video we are able to provide intelligent megapixel camera solutions." According to the company's management, this enables third-party systems that are also part of the OV Ready Partner Network to set rules, receive alerts, and configure communications with Object Video-enabled Sarix-based technology cameras.
www.pelco.com

ONVIF Conformant Products

Merit Lilin recently released ONVIF conformant network video products including high speed dome cameras, external IR cameras, and a standalone video encoder. "We congratulate Merit Lilin on launching the first ONVIF conformant products," says Andreas Schneider, Sony Corporation and Chairman of the forum's Technical Services Committee. The number of ONVIF members is constantly increasing and has now reached more than 70 companies. Furthermore, a recent analysis from IMS Research shows that member companies account for nearly 60 % of the worldwide market for network video surveillance equipment.
www.onvif.org

ISAF Istanbul 2009

ISAF, a meeting point of Eurasia security and fire industry, expects more than 22,000 security and fire professionals and 200 leading industry players at this years' show. It will take place an the Istanbul Expo Center from October 1st to 4th. The Exhibition and conferences will for the 13th time bring together everyone working in the security, fire and safety sector. It is necessary for distributors in Turkey to establish their regional distribution structure says Feridun Bayram, General Manager of Marmara Fair. "We have to realize our capacity. Our geopolitical location, and our relationship with neighbor countries give us a huge advantage. For example, business with Iran is easier for us than for European or American companies."
www.isaffuari.com

Video for Bank of China

Bank of China announced the results of the latest tender of video surveillance equipments. Hikvision's camera products, for the very first time, are enlisted due to its quality, high performance and stability, as well as company's overall technical advance. The tender is open for all video surveillance companies in the market, and enlisted companies will be qualified to supply video surveillance products for the next two years. Among the enlisted surveillance suppliers, Hikvision is the only domestic company, which in the past the list was dominated by foreign brands.
www.hikvision.com

Navtech Expands Sales & Marketing Team

Navtech Radar announced that Jason Burger has joined the company in a new position as Sales & Marketing Manager. He has an extensive technical and sales background and joins the company from a position as Sales Manager Europe, South Africa and India at X-Tek Systems. Prior to that, Jason has held positions as European and Distributor Manager at Newwave Research. Jason Burger comments: "The fact that the Radar solutions can be retrofitted into existing integrated perimeter solutions makes it a truly cost effective technology with a rapid ROI. I am looking forward to building on Navtech's success and further developing the sales and marketing profile of the company."
www.navtechradar.com

Deister: New AVI Division Manager

Deister Electronic has appointed Pekka Uusi-Autti as division manager for automated vehicle identification (AVI). He will lead the company's AVI division globally. Within this new position he will be responsible for the whole product line Transpeed, where he will boost sales for growing parking and vehicle identification segment. "Pekka Uusi-Autti has expertise for more than six years in the RFID-access control market. He is now prepared to take over a new challenge," says Axel Jeschke Sales and Marketing Manager of Deister Electronic. "With 17 years of experience in sales and marketing, Pekka is an excellent reinforcement to our management team," continues Mr. Jeschke.
www.deister-electronic.com

Saykiewicz Joins HID as Sales Manager

HID Global announced that Ralf Saykiewicz has been named sales manager, Industry and Logistics, North America, reporting to Marie-Francoise Glotz, vice president, Food and Animal ID, Industry and Logistics. In his new role, Saykiewicz will focus on promoting RFID tag and reader solutions in the automation, asset tracking, waste management, logistics, and food and animal segments. "Ralf's proven track record of strategic leadership, new business development and extensive knowledge of technology integration will make him a strong asset to our team," said Marie-Francoise Glotz. "With his technical skills and methodologies, he will be well positioned to further drive productivity, improve distribution and increase awareness and adoption of secure contactless technology for industry and logistics applications."
www.hidglobal.com

G4S Wins Mine Clearance Contract

G4S Risk Management announced that its Ordnance Management business has been awarded a contract by Sasol, South Africa's largest oil and gas company, to carry out land mine and unexploded ordnance (UXO) survey and clearance programme in Mozambique. The ten Ordnance Management teams, made up of around 500 African and European deminers and vegetation cutters, are being deployed to clear around 1,000 km^2 of land around Pande/Temane region in Mozambique. This clearance activity will enable the laying of thousands of kilometers of seismic lines and facilitate Sasol's exploration for oil and gas deposits. G4S Risk Management has offered ordnance management services to governmental, commercial and humanitarian organizations since 1994.
www.g4s.com

BSIA Publishes Guide to Video Content Analysis

With video analytics a key technological development in the UK CCTV market, the British Security Industry Association (BSIA) has published a guide to Video Content Analysis (VCA). Pauline Norstrom, CCTV Section Chairman, comments: "Video Content Analysis, also known as intelligent video analytics, is the name given to the automatic analysis of CCTV images to create useful information about the content. VCA has a wide range of uses, for instance it can detect intruders, left packages and wrongly parked vehicles, as well as counting events such as people entering or leaving an area. In theory any 'behavior' that can be both seen and accurately defined on a video image can be automatically identified and an alert raised."
www.bsia.co.uk/publications

Nonstop losses?

Those belong to history with EDN 800 T. With four network video streams and 5-zone motion detection, it doesn't miss a thing. And if something irregular is detected, you'll instantly get a notification - e.g. by e-mail. There's only one thing EDN 800 T doesn't provide - that's nonstop losses.

Further information upon EDN 800 T and other nevio IP products online.

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The GIT SECURITY AWARD 2010

Choose your favourites from each category!

A lot of companies in the security industry have entered their latest product innovations for the GIT SECURITY AWARD 2010 and our jury has chosen ten products in every category. Now it is up to you. Send us your vote for one product in each category.

As in previous years, the nomination for this final round was in many cases a close-run and tremendously difficult decision, with much discussion and debate between panel members. "With the multitude of new products submitted, we had many high-quality products to consider. Making one decision on a product to be presented to readers for final round selection from the rafts of entries was hard work for the panel and often there was very little to separate entries," says Dr. Heiko Baumgartner from the GIT SICHERHEIT + MANAGEMENT and GIT SECURITY + MANAGEMENT team, however the representatives from associations BHE, VDMA, TUEV and ZVEI, and from GIT VERLAG, had to reach a decision. This issue will present you with the final round nominees.

Who will win?

The reader votes will now decide which of the nominated companies and products will win places one to three in the five categories. The categories are as follows:

A – Safe automation

B – Fire protection

C – CCTV

D – Access control and intruder alarms

E – Industrial safety

Now it's up to you! You have one vote per category to help decide which product wins in 2010. We know that it is a hard decision but be assured that all nominees are winners.

How to vote

By fax: Please fill in the fax reply that is inserted in every copy of GIT SECURITY and fax it back to us.

Online:

Direct Code

We have set up a voting room on PRO-4-PRO.com, which is easily accessed through PRO-4-PRO.com/gitsecurityaward. There you will find instructions on how to vote with the click of your mouse. On www.PRO-4-PRO.com you will also find detailed information on the product highlights, which can be called up using the relevant direct code. On PRO-4-PRO.com there are also links to the companies to give you even more information on providers and products if you require it.

By email:

send an email to git-sicherheit-award2010@gitverlag.com clearly stating categories and winning products. Remember to include your full (company) address.

Please let us have your votes by November 1st for category A and by December 1st for categories B, C, D and E

Win the reader's prize!

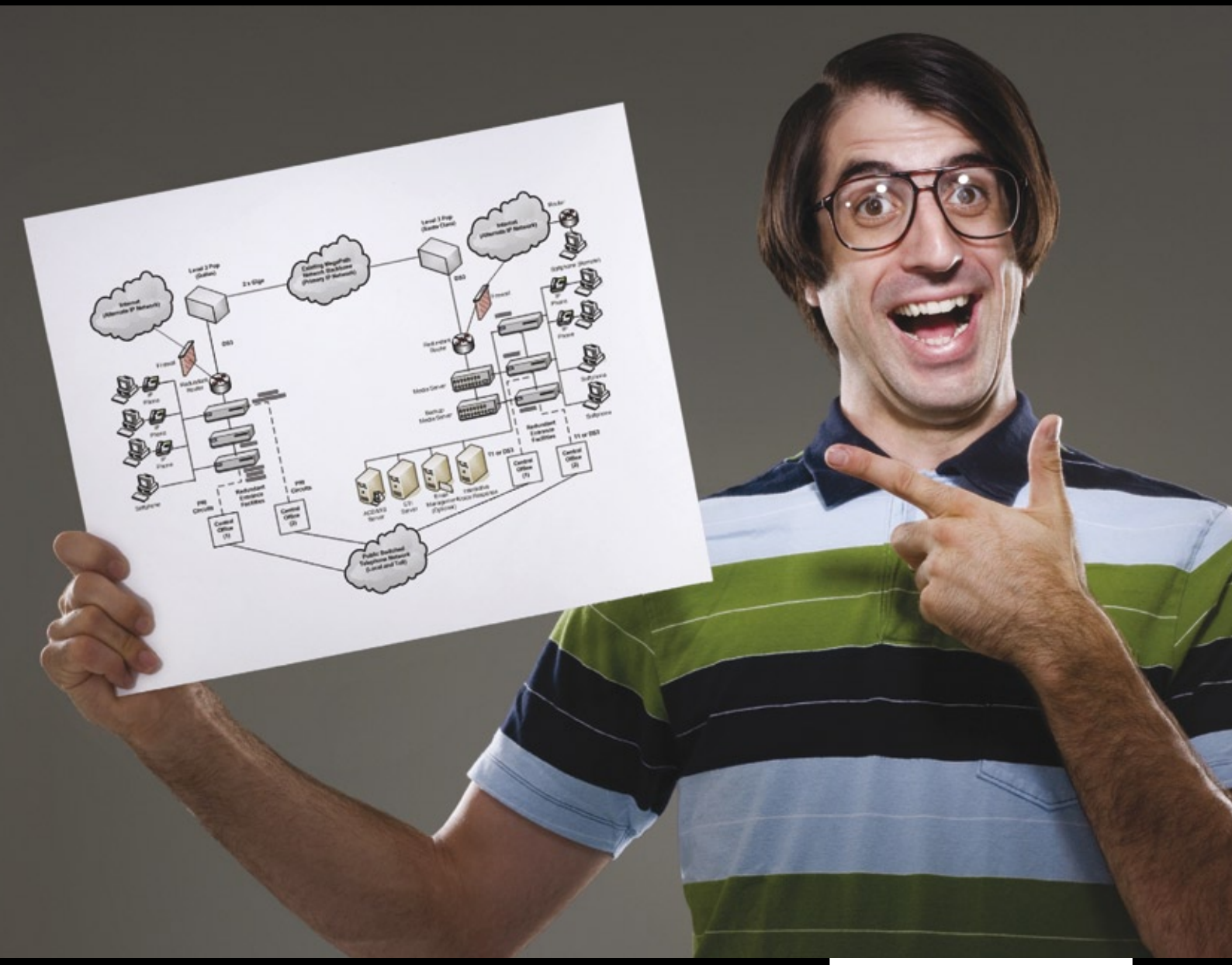
We have searched out the best of the best for the reader's prize. The new Pentax K20D is a semi-professional digital single-lens reflex camera for ambitious photographers, and with a bit of luck it will soon be yours. Send us your votes for categories A, B, C, D and E in the GIT SECURITY AWARD and you will be entered into the prize draw to win the camera. Would you like more information on the K20D? The CMOS sensor offers 14.6 megapixels and integrated shake reduction. It follows on from the success of its predecessor model, the K10D, which experts in the field declared as the absolute benchmark, putting the established camera models in their place. In short: thank you Pentax!

You have five votes – one vote for each category.

By submitting your votes, you are automatically taking part in the reader's prize draw.

Employees of participating companies may not vote for their company's product. Employees of GIT VERLAG and Wiley are excluded from voting. Legal recourse is excluded.

Panasonic
ideas for life



SAFELY REMOVE THE INSTALLATION NIGHTMARES WITH LICENSE FREE NETWORK VIDEO RECORDERS

Server based recording installations can be complex, that's why Panasonic has made it simple. With the choice of three network video recorders it makes the installation of a 16, 32 or 64 channel surveillance system capable of Megapixel and real-time recording possible in minutes, not hours. When surveillance downtime matters.

EVERYTHING MATTERS.

WJ-ND200

WJ-ND300

WJ-ND400

i-pro

www.panasonic.co.uk/cctv

Category A: Safe Automation

Axelent – X-Guard

Axelent's X-Guard has a unique and extremely smart design that is quick to assemble, easy to renew, change and supplement to suit different applications. Axelent has put safety and functionality in focus when producing the new system in order to ensure the best possible machine guard. The system is an entirely new series of machine guard that meets the updated requirements of the Machinery Directive (2006/42/EG) for fixed guards. The change comes into force on 29/12/2009 and means that attachment devices must remain in place on the guard or on the machine when the guard is removed. The heart of the system is a special tool – the X-Key.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code BNQT

Captron Electronic – safecap4

The safecap4 is an intelligent capacitive SENSORbutton. The SENSORbutton has been certified in the highest safety category (category 4) by the German employers' liability insurance association and has already been awarded the Bavarian State Prize.

safecap A and safecap B are connected to a functional safety line and are equipped with two electronic PhotoMOS relays each as output relays. These are actuated by two independent logics. Hence, the machine is stopped if just one error occurs in one channel. The sensors are able to detect foreign matter, humid soiling and operating errors. Electronic faults can also never trigger both buttons simultaneously. The complete set integrated into the panel or the version with two Protector variants offers even more safety. safecap4 offers IK08, IP 69K and more than 100 million switching cycles.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code YRH6

GIT SECURITY AWARD 2010 NOMINEE

Euchner Multifunctional Gate Box MGB

The MGB (Multifunctional Gate Box) is an interlocking or guard locking system for the protection of safety doors.The system combines all safety relevant components and functions – the consequence: reduction of mounting and wiring effort and a high saving potential! Even the basic system, consisting of handle and evaluation module, includes numerous functions. Whether interlocking, guard locking, escape release or other functions such as buttons for start/stop, EMERGENCY STOP, etc. – the MGB meets all your requirements for safety-related applications. And if your needs grow, the MGB system grows with them. Even with the basic system you can comply with all requirements in Performance Level e acc. to EN ISO 13849-1.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code SMAM

GeNUA – Security Platform GeNUBox

The GeNUBox allows access to machines in customer networks by external remote without compromising network security. – Elimination of a direct dial into the customer network, no direct firewall opening – Only access to a Rendezvous Server in a Demilitarized Zone (DMZ) beside the main firewall – Rendezvous Server is realized with GeNUBox – For remote access, the service provider builds a remote SSH tunnel to the Rendezvous Server – Only when the administrator of the customer network builds another tunnel from the second GeNUBox at the maintenance object to the Rendezvous Server, the service provider has access to the maintenance object. More info: www.genua.de/genubox

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 7R5M

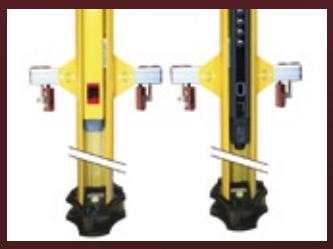
Idec – Safety Controller FS1A

Unlike a multiple safety relay system, which requires cumbersome wiring and take up too much space, or safety PLCs that can be costly and difficult to program, our safety controllers make it easy to consolidate safety circuits. At the same time they meet safety requirements, save space with minimal wiring and cost customers less money. SafetyOne can replace up to six safety relay modules with no programming. Easily configure by turning on a dip switch to 1 of 8 pre-difined logic circuits and one module can connect with various IDEC safety and non safety components such as Emergency Stop switches, Interlock Switches, pilot lights, sensors and light curtains. With 7 dual channel safety inputs, 4 safety outputs and multiple non safety inputs, monitor, blanking and solenoid drive outputs, SafetyOne can simplify your complete safety and logic circuit.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code X4JG

Leuze electronic – CPSET Safety Sensor Sets

With CPSET Safety Sensor Sets, access guarding with Mut-ing can now be implemented even faster, simpler and, as experience has shown, even more economically. The core element is a Multiple Light Beam Safety Device or a Transceiver (type 4 acc. to IEC/EN 61496, SIL 3 acc. to IEC/EN 62061, PL e acc. to EN ISO 13849) with multiple integrated Muting modes. The complete systems include synchronized components for every conceivable Muting need. In addition to the optical protective device, they also contain appropriate Muting sensors, including mounting brackets, device columns with already-installed sensors, suitable

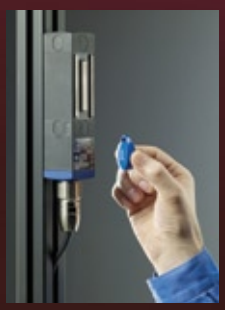


cables as well as, with some sets, the necessary display and control units. The con-figuration preset by the factory is already adapted to the respective application case. All of this results in a considerable reduction in planning and additional work at the installation site.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code TKP7

K.A.Schmersal – Non-contact Solenoid Interlock MZM 100 R

A new model of the non-contact solenoid interlock MZM 100, which generates the necessary locking force of 500 N electromagnetically, is equipped with an innovative feature. The non safety-related latching force, keeping the door closed, can be adjusted by means of a small target. It only needs to hold the target near the sensor, and the latching force changes in eight steps from ca. 30 to 170 N. If the target is removed, the current force is stored. In this way, the latching force can be easily adapted to the individual needs of the operator



resp. to the dimensions of the safety guard: This makes operation easier.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code L3PK

Pepperl+Fuchs – Rotary Encoder RVS58S

Hit the brakes and win – This may sound paradoxical, but it is however possible with the world's first and only TÜV-certified Safety Incremental Rotary Encoder RVS58S, which can be used up to safety category SIL3/PLe. In many production process situations, it is possible to increase productivity with reduced speed. Shutting down machines costs time and money. It is more efficient to protect a plant in such a way that standstills for safety reasons are not necessary during maintenance and operation. As no additional sensors are required for RVS58S and standard interfaces are used, construction and programming are reduced to a mini-

safety and productivity. Benefit today from that which sets the standard for the future!

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code ZTLN

SICK AG – Camera System V300

V300 – SICK AG's newest camera technology for innovative protection of hazardous places. Available now, the V300 offers a "one size fits all" approach with only one product unit. The V300 achieves safety rating SIL2 in accordance with EN 62061 and realises a Level D performance per EN ISO 13849-1. The protection field of the safe camera system adapts easily to the application and space requirements, with a range up to 2,10 m and an opening angle of 103°, which can be customised. The V300 initial adjustment takes place during start-up with a simple push of a button.

The V300's compact design (90 x 90 x 50 mm ³) allows a near invisible safety solution, for the first time. Assembly and wiring are reduced by a „one device" concept. The new V300 is therefore an economical and extremely attractive alternative to conventional protection devices.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code U6RL

Phoenix Contact – Safety Module PSR-TRISAFE

PSR-TRISAFE is the new configurable safety module. With just one safety switching device, you can implement monitoring of the entire safety circuit in a machine or system. The safety logic can be easily customized using drag-and-drop functionality in the graphical configuration software SAFECONF. No programming knowledge is required to use this tool. Automatic logic check functions and the included simulation mode provide users with a sense of safety even during the logic definition phase. Simple operation and the integrated simulation mode together

with TÜV-certified safety allow for efficient implementation of the latest safety standards – from Cat.4 to PLe. In short: PSR-TRISAFE from Phoenix Contact is simple, flexible and safe.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code LYDW

Siemens – Industry Automation Division Software-Controller WinAC RTX F

With WinAC RTX F Siemens has developed a fail-safe software controller for PC-based automation. For the first time, safety-related tasks for highest demand (SIL 3) can be performed via PC. SIMATIC WinAC RTX F meets the relevant safety requirements and applicable standards IEC 62061 up to SIL 3, and EN ISO 13849-1 up to PL e.

As with the modular SIMATIC S7 controllers, the user employs "Step 7" and "Distributed Safety" option package for safety-related applications. SIMATIC WinAC RTX F

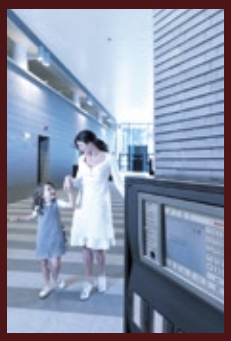
is especially suitable for high-performance tasks with substantial data volumes and simultaneous demanding real-time requirements.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code T17Z

Category B: Fire Protection

GIT SECURITY AWARD 2010 NOMINEE

Bosch – Fire Panel 1200 Series



The Fire Panel 1200 Series offers innovative fire protection in the one and two-loop segments. It is operated via a touch screen featuring a large 5,7" LCD display with a clear menu structure. The fire panel can be composed through an extensive choice of modules; the encapsulated modules are extremely rugged and are hot swappable, so it is possible to replace modules in a running system. It operates with a serial interface for the Bosch Evacuation Voice Alarm System and also permits the integration of a Paging System or into a Building Integration System. Based on the LSN (Local SecurityNetwork) bus system, the panel offers a high level of system stability, and supports the full range of proven LSN peripheral components.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code RBMP

detectomat – Seal Protect Technology

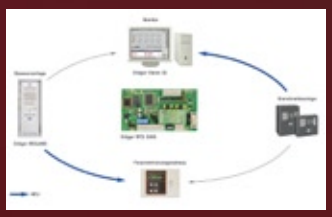
detectomat has utilised the latest technology to develop a remote maintenance feature for its new range of self-contained smoke alarms, which provides self-testing in compliance with the German norm DIN 14676.

The new technology seal protect developed by detectomat recognises the situation when smoke is prevented from entering the smoke alarm due to the head being covered by dust, insect contamination or masking tape etc. and can communicate this fault condition to a remote alarm station via radio links.

The feature is achieved by detecting a change in the resonance of the smoke alarm, in comparison to a new alarm, generated from an acoustic source within the chamber, which changes when the alarm is contaminated or covered in some way.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code E658

Dräger Safety – Dräger RFG 3000



Every second counts when information on fires or escaping gas is to be obtained. Up until now, the fire alarm control panel has only indicated where certain flame sensors had activated an alarm. However, only the control center could determine whether gas had also escaped and detect that respective gas. This meant that rescue workers lost precious time until they knew exactly what kind of danger they would encounter.

Now, Dräger offers a solution to this problem. The manufacturer of medical and safety equipment presents a networked fire and gas detection system. The interface, the Dräger RFG 3000, allows fire fighters and rescue workers to obtain information from the fire alarm control panel on site, while a monitor in the control center displays fire detection data and gas alarm messages via the Dräger Vision 32 software, making the data of both systems available at a glance.

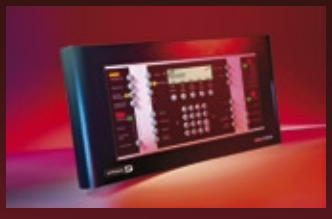
Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code QUEQ

Gretsch-Unitas – Approach Area Monitor

Requiring nothing more than the supply of voltage, the approach area monitor can be installed above any door. Its sensors monitor an individually determinable area in front of a door. Visual and acoustical alarms clearly signal the approach of a person. Thus, any attempts to misuse a door are hindered from the start and not only as the door is opened as it is the case with Escape Door Security Systems according to EltVTR. The installation of the approach area monitor does not require any constructional changes on the door. Escape routes are not affected in any way. Retrofitting the monitoring system is especially profitable on fire doors. Expert knowledge to start up the monitor is not needed.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code MZD7

Hekatron – Fire Alarm Control Integral Evolution



Integral Evolution – a strong system concept optimally primed to set standards in the future and to give you a unique investment security security without compromises. All Integral fire alarm control centres are part of a steady development process. Successful characteristics like the real hard- and software redundancy or the universal fire detector compatibility are carried on from generation to generation and are replenished by innovative modules. So the next Integral generation will be the first LAN-capable control panel on the market. Plan the future with a convincing concept and a strong and dependable partner. Integral Evolution by Hekatron.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code XR3J

Minimax – Active Extinguishing System OneU

The OneU fire protection system offers perfect fire protection for closed high-tech IT rack systems.
It stands out due to its fire detection and/or residue-free extinguishing per rack with the Novec 1230 extinguishing agent for up to 3 m^3 of protected volume. The slim installation height of 1 unit (1U) and the depth of 570 mm allow problem-free and space-saving installation – also in 800 mm standard racks. Its modular extensibility with slave systems and its high availability through redundant components also set new standards for 19" extinguishing systems. A power pack with integrated emergency power supply ensures interruption-free operation. The OneU product family consists of the OneU active extinguishing system, OneU DD smoke aspiration system and the OneU ED extinguishing module.

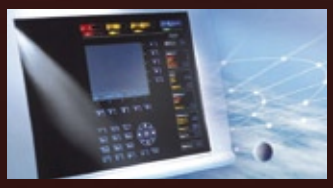
Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code US3N

Siemens Building Technologies Video Fire Controller

The Video Fire Controller is the first system to permit automatic transmission of live image sequences to a control center via a VdS certified connection to a fire alarm system. Fire departments and other security services can use this additional information to visually analyze the scenario, better estimate the hazard and introduce the appropriate measures in a targeted and efficient manner. The Video Fire Controller uses modern MPEG-4 compression via LAN streaming to provide live image display on analog video monitors on location or on PC screens using a standard web browser either on site or via remote access. A recording function supports subsequent evaluation of the alarm source.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code RD95

Novar a Honeywell Company FlexES Control Fire Alarm Control Panel



The name say it all: Flexibility plays a major role when it comes to the latest piece of innovation from Novar. This Esser brand fire alarm control panel sets a milestone in the development of technical fire protection. It stands out from a technical point of view as well as from the customer's perspective. A user-friendly operating panel which shows unique ergonomics; configurable modules and expandable housing models make installation more feasible and additionally guarantee the creation of units which are precisely tailored to the customer's need. Payment is only charged for the software components that are used. This guarantees that the unit will never be oversized yet at the same time leaves enough space for the expandability which is expected today from installers and operators.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code YT8S

Total Walther Linear Heat Detector ZX SensorLaser

The ZX SensorLaser Plus is a linear heat detector that uses optical fibre as a sensor, through which the evaluation unit passes laser pulse signals. The temperature profile is determined along the fibre from back-scattered signals, with a resolution of 2-4 m on a fibre lenght of up to 8 km. As such, the system is ideal for particularly long (tunnels, cable lines, conveyor belts) or large facilities (cool stores, multi-storey car parks), as well as a range of inaccessible areas (false floors, tanks). Even under extreme conditions, the ZX SensorLaser Plus delivers precise information about fire location, extension and spread. This information can be transferred to fire alarm or management systems.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code JEC8

Setec – SMZ Web

Using the SMZ Web fault reporting system, alarm systems and the entire range of buildings technology can be monitored and controlled by computer around the clock. Including an integrated web server and TCP/IP connection to link up with the local LAN or Internet. SMZ is supplied in a wall-mounting casing, and can be expanded in octuple modules for up to 32 signals. The installation can be subsequently expanded to 96 signals at any time. The octuple input cards can be flexibly configured per input, whereby 23 different input types are available. The installation engineer uses the browser's control interface to organise the employed inputs into groups, and connects up the outputs as relays or as open collector outputs. In the basic casing, there is the option of individual LED display for up to 32 groups.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code TFSK

Wagner Group Air Sampling Smoke System TITANUS SL

With the development of the innovative TITANUS SL air sampling smoke system, WAGNER has succeeded in significantly reducing the noise produced by air sampling systems. The combination of innovative fan technology with flow and vibration-reducing measures has reduced the noise intensity level to 23 dB (A), so that even the strict WHO "Guidelines for Community Noise" limits for healthy sleep (30 dB (A)) can easily be achieved. The silent very early fire detection system also provides noise-sensitive areas for the first time with a decisive time advantage for rescue teams, and is suitable for installation in locations such as hospitals, retirement homes, hotels and offices.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 8SYV

Category C: CCTV

Aasset – Camera SNC-B2335P

Samsung Electronics and Aasset Security presented its new generation A1 series of CCTV cameras at IFSEC to bring to the market a new level of camera performance in terms of both image quality and user benefits. The A1 camera series are equipped with the all new Samsung Electronics A1 DSP (Digital Signal Processor) engine, which has been developed in house by Samsung Electronics to deliver increased image resolution, reduced picture noise and provide enhanced contrast.

Diverse technologies are utilised in the A1 chipset, enabling the latest generation of Samsung Electronics' CCTV cameras to deliver performance technology including 'motion adaptive DNR'.

This technology is the result of the utilisation of both 2D and 3D filters which reduce noise in the brightness of the image and noise caused by movement, providing a distinct and clear image under even the most demanding of lighting conditions.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code SB2Q

Axis Communications
AXIS Q6032-E PTZ Dome Network Camera

AXIS Q6032-E meets demanding requirements for superb video quality, high zoom for detailed inspection, fast and precise pan/tilt performance and reliable operation in extreme climates. Arctic Temperature Control, a new and unique functionality from Axis, is introduced for the first time in AXIS Q6032-E. It allows the camera to not only function at -40 °C (-40 °F) but also power up at that temperature following a power failure. The camera can operate in temperatures ranging from -40 °C to 50 °C (-40 °F to 122 °F) and has an IP66-rated protection against dust and water.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 358X

GIT SECURITY AWARD 2010 NOMINEE

Basler Vision Technologies
Basler BIP-1600c-dn

Basler's day/night series is equipped with a selection of the best Sony CCD sensors (VGA to 2 megapixel), which provides optimized sensitivity not only for daytime conditions but especially for night and low light applications. The camera is equipped with an automatically retractable infrared (IR) cut filter The unique Area of Interest (AOI) feature lets users define customized regions within the original field of view. The selected areas of interest can be streamed and encoded separately. This approach allows, for example, the customized use of multiple MJPEG streams while also using an MPEG-4 or H.264 encoded stream. An ultra-compact, all-metal housing with an 89.2 mm x 29 mm x 44 mm size and a weight of only 230 grams makes these the smallest day/night IP cameras in their class. These characteristics contribute to a flexible, easy installation.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code WALU

Dallmeier Electronic
VideoIP Range "a Tribute to Amadeus"

Professional IP video networks may well be compared to timeless musical masterpieces. Just as Mozart through perfect composition and brilliant instrumentation, created an ingenious body of work, individual high-value IP components can be used to realise top-quality video network solutions. Like instruments in an orchestra, devices operate in perfect harmony, controlled by the operator, who, like a conductor, keeps things firmly in hand. The Dallmeier IP solution remains variable and flexible. Its composition can range from a duo of camera and streamer to a large ensemble of different elements.

Dallmeier's high requirements regarding image quality and reliability also apply when it comes to IP solutions. With the IP range "a tribute to Amadeus" the high standards of CCTV applications combine with the benefits of pure IP solutions. The best of both worlds, a star-studded ensemble with guaranteed success!

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 4ULX

Everfocus Electronics
EZ 550 – 1/3" Outdoor Long Range IR Camera

Within the comprehensive range of CCTV cameras, the 1/3" outdoor long range IR camera EZ 550 is one of the highlights. Besides the excellent video resolution of 530 TV lines in colour/day mode (b/w mode 560 TV lines), EZ 550 features automatic day/night switching, built-in motion detection with 4 zones and an integrated motorised 6~50mm DC varifocal lens. The IR distance of 50 m can easily be enhanced to max. 70 metres by adding the optional IR illuminator kit EIR 100. EZ 550 comes with a suitable wall mount bracket; an optional ceiling mount bracket (EZ CMB) is also available.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 9CHZ

Fujinon – 3-Megapixel Day/Night Vari-Focal Lens YV2.1x2.8SR4A-SA2

Fujinon introduces a new lens to complement the line-up of 3 megapixel varifocal lenses: The YV2.1x2.8SR4A-SA2 for 1/3" sensors offers both: high resolution of 3 megapixel and Fujinon´s day/night technology for the use with day/night cameras. With a focal length range of 2.8 to 6mm, an aperture range of F1.3 to T360 and a 101-degree horizontal angle of view at the wide end (2.8mm), the light weight and compact design makes the YV2.1x2.8SR4A-SA2 ideal for use in outdoor domes and other outdoor applications requiring a light, compact lens. Locking screws for zoom

and focus, metal mounts and Fujinon´s proprietary "AT" aspherical technology are standard features of the 3 megapixel day/night varifocal lens as well as the auto iris function (DC iris).

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code RS59

Pentax Varifocal Plus – TS3VP213ED-M

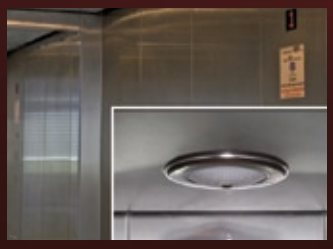
The Varifocal Plus is the perfect solution for IP cameras solving the unique installation issues these cameras have with short latency and lower frame rates when trying to set the lens angle on install. The 1/3" CS mount lens has a focusing range of 2.6–8mm, covering the most common focal length range required in the industry. The DC iris has a maximum optical aperture is F1.3. Due to the patented tracking focus mechanism, PENTAX provides a unique solution to the problem of defocusing during set-

up. The lens meets the need for better image clarity, higher resolution and even better depth of field while saving on install time and hassle.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code SARU

Mobotix Hemispheric Camera Q24M

The new MOBOTIX Q24M Hemispheric camera is the most user-friendly system solution for room surveillance without any blind spots, including video and audio. High-Resolution 180° Panorama View: Everything in view from wall to wall without any blind spots – one single Q24M with 3.1 megapixels replaces several standard cameras and provides a better room overview. Recording In The Camera: An integrated MicroSD card replaces external storage devices and provides up to 80 hours continuous recording with audio.



Complete Solution Including Software: The video management software and all updates are included for free – without any hidden costs or additional license fees. Indoor And Outdoor Use: The weatherproof cameras operate fail-safe from -30 to +60 °C.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 6HHE

Samsung Techwin SVR-1680

The SVR-1680 DVR is capable of simultaneous real-time recording at full D1 (704 x 480) resolution across all of its 16 channels. Compatible with Samsung's powerful CMS software, which gives users full control of the DVR's functionality, the SVR-1680 includes multiple monitor outputs, fast DVD back up and a built-in web server. Simultaneous MPEG-4/JPEG streaming, sixteen channel audio recording capability, the capacity for up to 4 Internal SATA HDDs, two front panel USB ports for easy back up & mouse control, five monitor out-

puts and Pan / Tilt / Zoom support (Multi-protocol, make the SVR-1680 an ideal and cost effective choice for small to medium sized CCTV systems. The SVR-1680 is supplied as standard with a built-in DVD writer and has an ATM/POS transaction data recording and search function.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code EYRB

Panasonic WJ-ND400 Network Video Recorder

The new WJ-ND400 by Panasonic is ideal for large scale surveillance systems with 9 serial ATA HDD slots with each optional extension unit also containing 9 serial ATA HDD slots for additional capacity. Up to 64 network cameras can be connected to the WJ-ND400 and their high quality images and audio data recorded simultaneously. The WJ-ND400 comes with hot plug support which enables drives to be replaced without any downtime, allowing for continuous 24/7 operation. In addition, the WJ-ND400 allows the operator to

search recordings with its intelligent VMD function. The VMD function allows movement in a specified area in the recorded images to be quickly searched.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 9F92

Videor E. Hartig GmbH Digital Recorder BCR-3016

The eneo BCR-3016 digital recorder with 16 channels offers a internal hard disk capacity of 820GB plus numerous other professional features. Thanks pentaplex operation the BCR recorder manages five functions at the same time: record, playback, live mode, backup and network functions. He has a maximum recording resolution of 704 x 576 pixels; the MPEG4 ASP standard guarantees even higher image quality along with a low memory requirement. BCR models come with a DVD writer and Viewer Software. Furthermore CMS: Set-up of

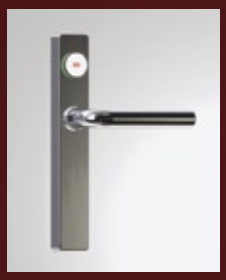
different groups and site maps, Event list, PTZ control, Drag&drop function for single cameras (Live), Playback with search function (by time & event).

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 9B6D

Category D:
Access Control + Intruder Alarms

DOM – DOM Fitting Reader

This stainless steel fitting reader, winner of the reddot Design Award 2009/2010 features a simple and timeless design language and is meant to be an asthetic interface between human beings and the product. The option to accommodate all necessary components in the outer side presents an essential innovative aspect. This technical innovation allows a high level of security and functionality. The design of the construction frame allows the fitter to be installed in all doors commonly used in Europe.



Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 6SAE

Future Fibre Technologies – Secure Zone

Secure Zone is a fibre-optic intrusion detection system that is easily installed on the perimeter fences of facilities such as industrial complexes, Government facilities and power plants. It has up to 16 independent hardware zones, each up to 500 metres and can be configured so that if the cable is cut in one zone, the remaining 15 zones continue operating normally.

Secure Zone can interface and activate CCTV systems, lighting, gates, email, plus a broad range of external devices and systems. It

incorporates FFT's advanced signal processing technology to overcome the common problem of nuisance alarms. It requires no electronics or power in the field.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 5TDV

Gretsch-Unitas Electrically Locking Panic Lock "EVP"

With its integral escape door lock function, the electrically locking panic lock (EVP) saves the installation of separate bolting elements: the latch of the electric escape lock is ideally positioned in the panic lock case. Thus, additional millings in the upper area of door leaf or frame are no longer required. Time-consuming planning and installation work are a matter of the past. The lock can be installed in any standard DIN lockcase and is therefore ideally

suited for retrofitting. The automatic latchbolt ensures that the door pulled shut is already locked. No need to lock the door by key. The EVP lock optimally unites escape door locking and burglar protection in one system.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code KJ5Q

Ident Technologies GmbH – SmartFIS

SmartFIS will help you make use keys that you always have to hand: your fingers! With our new, network-capable "smartFIS" finger identification sensor you have available a compact solution for user-friendly access security, control and management that requires only one finger clearly to identify a person. And, of course, everybody always has their fingers with them. They are non-transferrable, absolutely unique and all but resistant to wear. The product operates very safely and reliably. The intelligent device encompasses all necessary technology for encoding, storing and identifying up to 500 fingers. The pow-

erful system ensures that doors and gates will open only for those who are entitled to access, and then only at precisely defined times. Not just the safety aspects alone, but also the considerable benefits of ease-of-use – these are the distinguishing features of smartFIS.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 1M5A

Interflex – Multi-reader Terminal IF-712 BS

The multi-reader terminal IF-712 BS (barcode scanner) has dual reading technology for card and ticket standards. Both season cards with integrated RFID chips and paper tickets with barcodes are commonly used at stadiums and events. The IF-712 BS terminal can read both via its integrated, contactless reader. Furthermore, a signal tower provides for visualization of defined statuses. The option to verify barcodes printed on paper or self-adhesive labels also allows for cost-effective visitor management within the existing access control system.

Thus, the visiting period encoded in the barcode can also be checked.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 3DBU

GIT SECURITY AWARD 2010 NOMINEE

KABA – KABA TouchGo

The Kaba TouchGo electronic locking system allows doors to be unlocked without having to pick up a key or access card. By simply touching the door handle, the lock recognizes if the person is carrying an authorized Kaba TouchGo transponder in the form of a key fob or card holder. This is made possible by the new RCID identification technology. The RCID-Technology (Resistive Capacitive Identification) has been developed by Kaba. This new system offers enormeous convenience to the user: no unneccessary search for the key, free hands

and still the usual high security standard of a Kaba locking system.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code N2N3

Phg Peter Hengstler – Voxio Fingerprint

Voxio Fingerprint offers numerous customization options. The fingerprint reader is equipped as standard with an optical touch sensor. The concept is designed in such a way that further sensor and module technologies can be integrated. The well-known methods \"identification\" and \"verification\" are supported as modes of operation. Modular concept for biometric fingerprint recognition • optical touch sensor • sabotage detection • one "full colour" LED and one buzzer • large range of input voltage (10 to 30V DC) • protection class: IP54 • frontfoil and keyboard can be

customized • optional as desktop version (enrolmentstation) • optional with keyboard • optional with RFID reader

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 1EE9

Sorex Wireless Solutions – Sorex Wireless Key

The Sorex Wireless Key is a high-secure access system, which makes your Bluetooth compatible mobile phone to an electronic key. This technology enjoys all the advantages in your privacy and even so as special solution for your company. The high felxibility of the Sorex Wireless Key changes special exigencies in many trendsetting industries. For example: parking garages, bounds, hospitals, freight- and logistccentres, hotels,... The mobile phone cannot be imagined without the workaday life. The

company Sorex Wireless Solutions GmbH has opend all the doors for the future.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code RLMW

TST Biometrics GmbH – BiRD 3

The fingerprint is captured touch less by the sensor. Genuine images are generated by a CEMOS camera in combination with the TST own illumination system. Max. recognition rate even by weakly distinct finger lines; dry, humid, high soiled fingers. Sensor stays free of residues, dirt, bacteria; highest hygienic requirements; no latent fingerprints. Independent optical methods analyse authenticity of the finger. Life and false finger detection. Individual Integration, range of use: -20 °C to +50 °C. OEM, various

housings and interfaces (Ethernet, USB, RS485 etc.). For high security data capturing/verification/identification, access control, time attendance, health, finance and governmental applications.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code CXBG

Aug. Winkhaus – ActivPilot Control RFID

With its pioneering technological design activPilot Control RFID, Winkhaus is setting new standards for window surveillance systems. activPilot Control RFID provides the best possible protection against deliberate damage and tampering with its state-of-the-art technology. In this currently unique window fitting, the magnetic alarm contact used in other such systems is replaced by an RFID-controlled lock sensor.

The high level of security provided by the RFID system is a result of contactless data transmission between the window sash and the window frame. The transponder is integrated into the sash while the

corresponding lock sensor is incorporated into the frame. These two components communicate with one another as a unique pair via an individually coded connection. The system is VdS certified in class C.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code RPCA

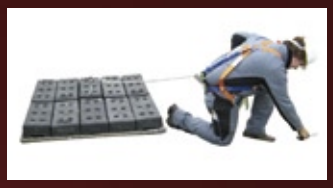
Category E: Industrial Safety

3M – Speedglas 9100 Welding Shield with Auto-Darkening Filter

The 3M Speedglas 9100 is the new generation of the premium Speedglas product range. It not only creates an impression with its perfect design, but also sets new standards for user comfort and safety. The new patented headband embodies the insights of both Western and traditional Chinese medicine and reduces pressure on sensitive parts of the head, while a lowered centre of gravity ensures optimum stability and helps to avoid neck problems. The high-tech auto darkening filter has also been enhanced to include a large number of additional functions, such as a comfort mode for tack welding. When designing the helmet, 3M again worked together with a leading international design company from Sweden, renowned for its user-focused solutions.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 8G18

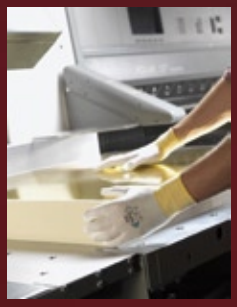
ABS Safety GmbH – ABS-Lock EG 260



The ABS-Lock EG 260 is a mobile attachment point for platform roofs that offers reliable fall protection for one person. The special about the system: the EG 260 is being charged with easy to carry weights made of plastic. The weights are equipped with convenient handles that allow users to move the complete system easily in five to ten minutes. The EG 260 guarantees both, safe working and high mobility at the same time – and the roof stays intact. The mobile attachment point EG 260 is placed on a weather-resistant and antiskid mat that protects the roofing. The system is CE-tested and EN 795 certified as a class E attachment point. The EG 260 is made of stainless steel and offers excellent corrosion protection.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 45J6

Ansell GmbH – HyFlex 11-400 and 11-401



The new, water-based polyurethane HyFlex gloves are a radical leap forward in long-term safety and care for the environment. Using water instead of dimethylformamide solvent in the manufacture of polyurethane gloves increases the safety of Ansell workers. Furthermore, it results in much more environmentally friendly manufacturing. Finally, our customers also benefit from this manufacturing technique: water-based polyurethane enhances the dexterity and comfort of the glove, as the polyurethane doesn't penetrate inside it. The gloves are available in 2 versions: HyFlex 11-400: white und HyFlex 11-401: black.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code HU16

asecos – Mobile Underbench Cabinet

A new construction detail make asecos underbench cabinets easily movable to every position required. A 30 mm high plinth panel and castors render it possible. Utilisation of the castors is pretty simple: By means of a wrench the integrated arresting device can be screwed out or in through the small orifices and fixes the underbench cabinet at the required position. At the same time uneven floor can be adjusted. If the locking device is screwed in the cabinet can be moved again. As a matter of course the standard characteristics of asecos underbench cabinets such as easy and safe opening of the drawers and doors as well as safe and approved storage of hazardous materials, are obtained.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code WP9W

Düperthal – FLOW line – Drum Station XL

Up to now it wasn't allowed to transfer flammables inside safety cabinets. But in praxis often small amounts of media is needed for work also at the storage place. The FLOW line filling station combines two seperate cabinet units (removal- and storage unit), connected with media pipe both requirements. The media will pumped out of the drum by pump, into removal unit and filled in smaller cans. The station achieve all regulations of storage of hazardous subs. The station is made for filling out of drums at work places according to TRbF 20-L, TRbF 30, classified Type 90 and it is as a system solution certified from TUEV Süd. The conformity to EN 14470-1 and EN 14727 is confirmed by TUEV Süd.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 3P6U

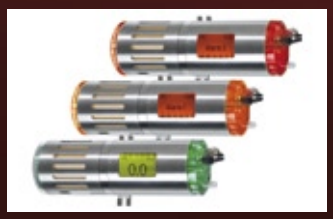
GIT SECURITY AWARD 2010 NOMINEE

Eska – Safety Data Sheets e-SDB

The safety datasheet informs the User of chemicals about the risk of substances and products and how to protect against them. Recently the REACH-Regulation renews the responsibility of the producers and importers. Mainly for small and medium sized enterprises this duty is a complex task. Plenty knowledge about chemical/physical information and regulations are needed to solve this task. A certain solution offers the eSDB. It is quite simple for the User. Login to the website fill in the company information, use the latest BDI-standard phrases and select the ingredients from the integrated substance list Appendix I Directive 67/548/EC. Now the completed datasheet could be saved as PDF and EDASX-File on your local PC for further use.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code 9TRL

GfG – IR-Transmitter IR29 Pathfinder



Within the range of stationary gas warning systems the innovative transmitters IR29 convinces with its patented 4-wavelength infrared technology (NDIR). For the first time this innovative feature allows the precise monitoring of ppm, %UEG to VOL.-% of inflammable gases and vapours. Also the toxicity of combustible gases is monitored. The IR29 provides high measuring accuracy and long-term stability even under extrem climatic conditions. Additionally the recorded measuring values (histogram) can be indicated on the large, coloured and 180° reversable display. The IR29 fulfills the requirements for the use in zone 0 and provides the user unequalled safety advantages and enormous economical saving potential.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code R23G

Infraserv Hoechst Multimedia Briefing System ZEUS

Between outsourcing, EU enlargement and globalization, more and more people are working at industrial sites. But before these people can enter the site, they have to be quickly and cost-effectively briefed on basic safety rules. Infraserv Höchst has met this need with ZEUS: a multimedia briefing system for visitors and contractor employees that sets new standards for user friendliness and briefing speed (3 to 5 minutes). An integrated quiz verifies that users have really understood the training material. The self-explanatory, fully automated system can be integrated into ID-management and access-control systems. It also offers the benefit of a flexible, modular design and low maintenance and purchasing costs.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code RFRY

KÖTTER Security – KÖTTER SOS-Phone

The KÖTTER SOS-Phone has been developed in order to guarantee quick first aid in case of accidents, assistance of first-aiders and reliable communication with and among the rescue team. It will be applied all-over, where long escape routes, large areas, high passenger volume or changing building sites and production areas have an impact on localisation, evacuation or medical care of injured people. Equipment ranges from GSM-technology for alarm transmission on mobile phone to fire extinguisher. As different as the fields of application so flexible may the KÖTTER SOS-Phone be upgraded: from evacuation function by visual and acoustical transmitter to the logistics module with LED panel for truck control.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code XS71

Zweibrüder Optoelectronics – LED Lenser X21

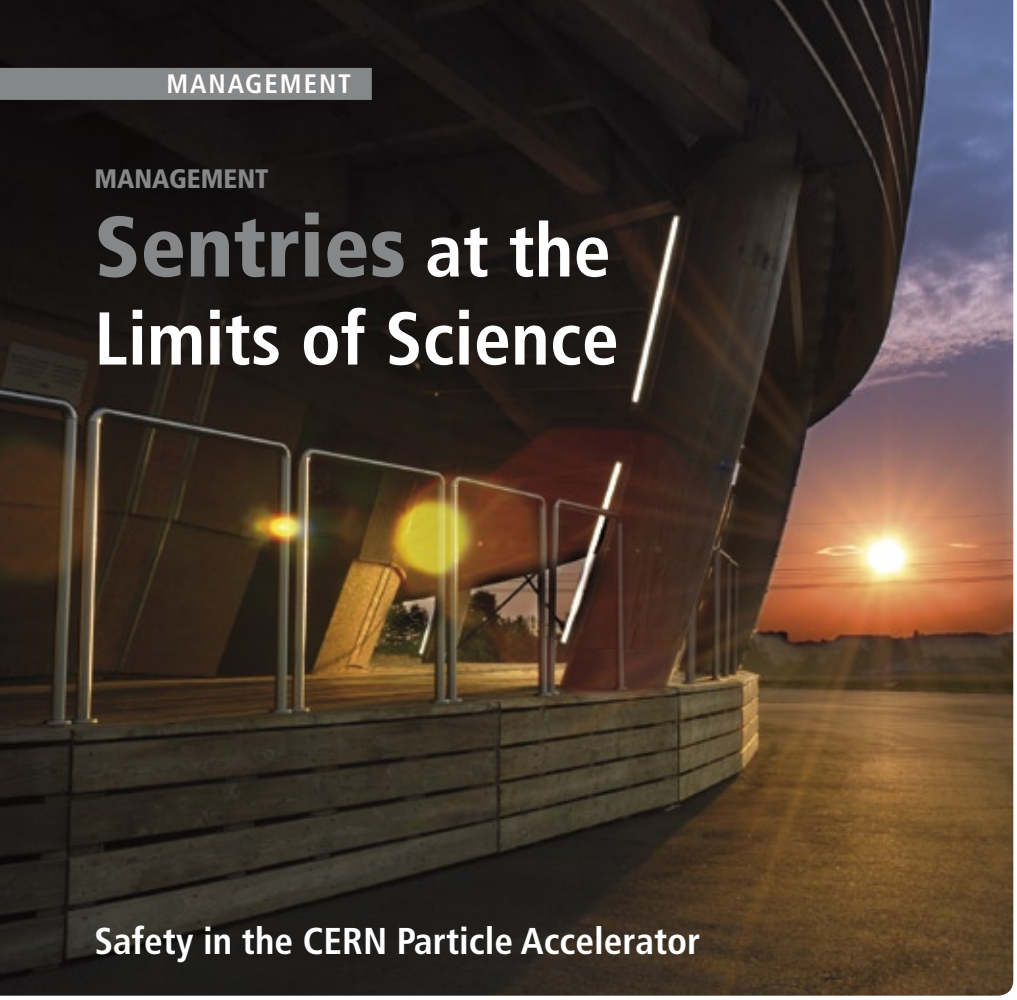
The X21 will cause a sensation because it allows for a whole range of new applications in light engineering. The lamp has a light output of up to 1,500 lumens. Thanks to the Advanced Focus System, the light cone can be adjusted dynamically.

The X21 offers a broad, circular low beam as well as a sharply focused searchlight beam. Seven ultra-bright high-performance chips and seven terminator lenses produce a quality of light that you have never experienced before – a blazing beam that makes even car headlights look pale in comparison. This lamp's lighting range is already legendary. And its impressive appearance radiates power and authority.

Further Information at www.PRO-4-PRO.com/gitsecurityaward
Direct Code XQ7E

MANAGEMENT

Sentries at the Limits of Science



Safety in the CERN Particle Accelerator

A particle accelerator is used for fundamental scientific research at the European Organization for Nuclear Research (CERN) in Geneva. Nobody is allowed to be in the tunnel while experiments are taking place – the radiation would be deadly. A key management system from Deister ensures that this cannot happen.

An atom was considered by the ancient Greeks to be 'unsliceable' – you couldn't get any smaller. Today's physicists don't find it so easy to stop at the smallest particle – there is apparently always something even smaller beyond that. And in the world of particles, for example, "small" means that just the core of the atom is comparatively as big as a pinhead lying on a football field (the case). At one tenth the size of this core you reach the protons, and if you reduce the size by a factor of one thousand you reach the quarks.

The security engineer by contrast normally works in an entirely different dimension, that of card forgers or heavyweight lock pickers. The tiny particles only become apparent to him when physicists, such as those at CERN, impose their will on these building blocks of our universe – when they chase them through the particle accelerator and make them dangerous to humans.

Standing Here Would Be Life-threatening

Around 7,000 highly-qualified scientists from 80 countries are investigating material here in this way. Strong electrical and magnetic fields abound in the kilometer-long circular accelerator about 100 meters underground. They ensure that the particles gain energy with each lap of the accelerator. The CERN physicists are currently building the most powerful accelerator of all time. This LHC (Large Hadron Collider) will be 27 km long.

A lot of security equipment is also built in amongst the large amount of densely-packed equipment and instruments. The operators must be absolutely certain that no-one is in the accelerator tunnel as long as experiments are taking place.

First of all, a doubly-secured safety door with a fingerprint reader and video cameras already ensures at check-in that only authorized people can enter the complex. Security is heightened by a weighing system – in this way, only one person can enter at a time. The second door can only be opened by someone when the first door has been closed behind them. A Prox Safe Mini key management system from Deister Electronic is mounted at this second door and administers eight keys behind an automatic steel cover.

A Clear Overview: Safe and Well-arranged

Only an authorized person who takes a key from the system can get to the inner regions of the complex. In this way, the system knows exactly who is in the tunnel at any time. But even more importantly: before the particle accelerator can be activated, an automatic and compulsory check takes place to see if someone is still in the tunnel. A green light and the ability to activate the accelerator are only given when every one of the eight keys are inserted in the Prox Safe Mini.

The system doesn't just rely on electronics here. Because it's a matter of life or death, it was important for the CERN scientists that the system could cope with either a power failure or a computer failure. For this reason, there must also be a real physical connection between the key and the cylinder before clearance is given. The Prox Cylinder also ensures that no unauthorized person can use one of the keys. A special stick prevents anything else making the mechanical contact for as long as the correct key is not inserted in the lock.

Contactless And Wear-free

The doors are automatically opened and closed by the system. This avoids alarms that would otherwise be raised but often not heeded because of their frequency. A further advantage arises from the use of RFID technology: the Prox Cylinder and the Proxsafe tag on the key work together without contacts and therefore without wear and maintenance. The system is controlled from a web server. Any contactless reader from any manufacturer can be integrated into all existing systems.

Deister Electronic was the only company that could meet all the safety and technical requirements contained in the international tender, as Paul Gilardi of Deister reports. Also some purely practical advantages, such as the roll door construction of the housing that avoids bulky doors in narrow spaces, were welcomed by CERN. The use of Deister systems is already planned for other applications.

► CONTACT BusinessPartner

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info@deister.com · www.deister.com

EVENT

All-over-IP Business Forum in Moscow

System Integrators and End-users to Meet Global Vendors

On November 19th 2009 Groteck Business Media holds the Second Annual All-over-IP Business Forum at Sokolniki Expo in Moscow. This IP focused event offers global vendors to meet 1000 prequalified customers. All-over-IP'2009 introduces CCTV Pro Show. We did ask Alexander Vlasov, Business Development Executive at Groteck Business Media about the event.

A lot of security companies say All-over-IP Forum brings a unique format to business events in Russia. What does it mean?

A. Vlasov: Companies have never paid so much attention to their marketing ROI before like they do in the current economic situation. Considering their participation in any business event, each professional wants to get the answer to a single question – What will I get for spending 8 hours of my precious time and money? All-over-IP Forum has been designed to let each person get maximum results from the time, money and intellectual efforts invested.

What differentiates All-over-IP Forum other events in Russia?

A. Vlasov: First of all, we have secured that all 1000 system integrators, distributors and corporate end-users are carefully prequalified. Before any person is registered, we make sure they are decision-makers who have open purchasing budgets for the next year or aim at expanding the pool of vendors they distribute. Second, the Forum offers a variety of approaches to communication with the customer: an exhibition area, seminars, conferences, master classes, workshops, contests, club events and VIP meeting rooms. Third, the Forum exhibitors and visitors are provided with an elaborate media network to inform each other in advance about their goals and offers. Groteck collects this information and makes a cross distribution of it.

Alexander Vlasov
Groteck Business Media

What new features does All-over-IP Forum offer to its exhibitors and visitors this year?

A. Vlasov: The video surveillance market has been growing 40% for the last 5 years. Russian customers have purchased enormous amounts of CCTV equipment, most of it analogue. Now that CCTV like no other market is ruled by IPzation, customers are concerned on their investments protection. The key question the customer faces is how they can make a seamless migration to IP. CCTV Pro Show is designed to cover all the range of video solutions – traditional, IP, digital and analogue. This is a perfect place for analogue and IP vendors to compete for the customer's preferences.

www.all-over-ip.ru/eng

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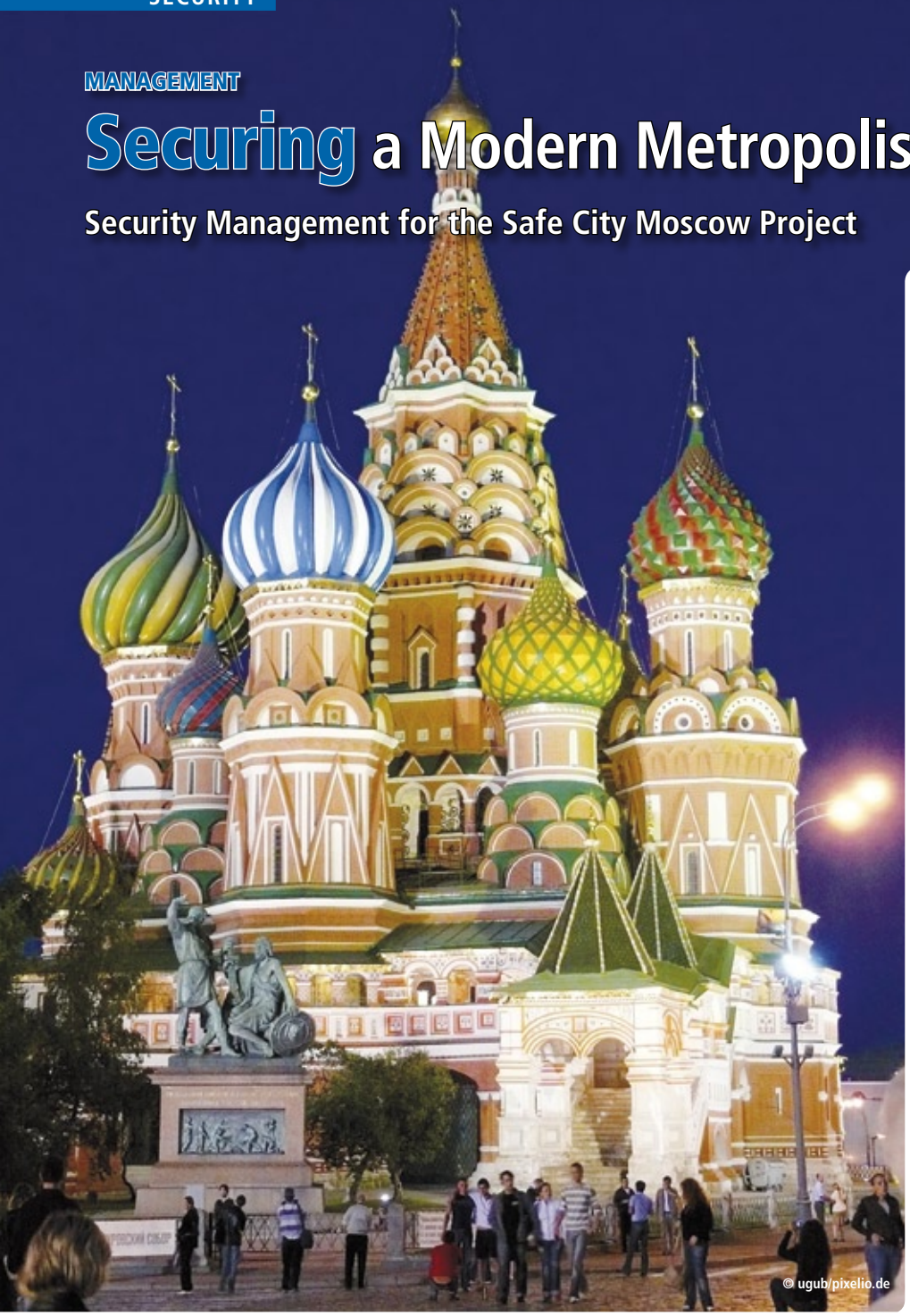
MANAGEMENT

Securing a Modern Metropolis

Security Management for the Safe City Moscow Project



Carlos Angeles

Torsten Anstaedt

At the moment there are are lot of discussions about an internal report by the Metropolitan police in London about the use of CCTV in city centers. The effectiveness of CCTV as a weapon against crime was thrown into doubt because figures in this report showed that only one crime per year is solved in London for every 1000 cameras. This shows that today's municipal security has to go far beyond the monitoring of selected sites. Modern integrated security systems must not only record and stream video but also analyze it intelligently, monitor all types of sensors, and provide automatic responses to problems. At the Safe City Moscow project Axxon has combined hardware, software and operational measures to provide video security, technical safety, and manage utilities and other distributed services. SafeCity is a multifunctional expandable solution built on an integrated modular distributed platform – Axxon Enterprise – with embedded intelligent data analysis.

Key Challenges

High crime rates, as well as a hostage taking in the Dubrovka Theater Center, threatened Moscow. Two-thirds of its residents felt unsafe in the face of crime. As a result, the city launched a program called Safety for Moscow and Muscovites. A city-wide electronic monitoring and response system was a critical part of this program, with specific requirements:

1. Comprehensiveness. SafeCity had to work with and integrate any brand of equipment, sensor, task and units from different devices.
2. Centralized and remote control. Local and remote administration was required to make implementation standardized and simpler.
3. Scalable. SafeCity had to be infinitely scalable while maintaining fine-grained control.
4. Hybrid system, allowing the user to monitor both IP and analogue video cameras, as well as bidirectional audio link for safety usage from panic buttons spread out throughout the whole city.
5. Reliable and stable. Most importantly, SafeCity had to be functional around the clock.

A single proprietary product could not match the needs of a city the size of Moscow. The SafeCity project would provide an integrated, hybrid solution to city-sized security.

Implementation

In March 2002, Planir Holdings Group worked on the first stage in the SafeCity project in the Tverskoy district, using Axxon Enterprise. Meanwhile, several other districts launched similar projects based on alternative platforms, but it was quickly apparent that the other systems were much less powerful and functional. As a result, Axxon Enterprise was selected as the platform upon which Moscow's citywide security system would be built.

The initial SafeCity plan was to cover Moscow with a distributed network of panic buttons supporting direct video link and bidirectional audio connection with each security control room. Video was black & white and monitoring reaction was mainly after-the-fact. Additional considerations prompted a more comprehensive multilevel system, expanding the system functionality via video analytics and enhancing image quality (colour cameras, more resolution, more images per second stored). SafeCity would in this new approach protect sites including

group dwellings, life support systems, schools, mass circulation areas, airports and railway stations, trains and subways, transportation and motorways, and television towers. The SafeCity implementation included over 26,000 CCTV cameras in Moscow, controlling over 10,000 doorways and mass circulation areas in ten districts. These sites are now covered by a single distributed scalable system controlled from a single center using the Axxon Enterprise integrated security platform. Currently, SafeCity Moscow is a +85,000 CCTV camera system including IP and megapixel cameras controlled and monitored from 80 control rooms in different districts of the city.

Vandal-resistant cameras monitor public areas, while access control prevents unauthorized entry, and flood, fire, and smoke sensors alert emergency personnel of problems. Meanwhile, water, gas, and electricity consumption is monitored to provide accurate billing and planning, and prevent leakage, overloads, and short circuits.

Panic buttons and emergency hotlines provide quick access to the police and militia in areas of mass circulation, while facial recognition enables identification and tracking of criminal suspects at airports and railway stations. Train and subway safety is ensured through video surveillance, as well as a permanent online link between all drivers and transport police officers. All stations and cars are equipped with fire fighting systems such as automatic fog scanners and ventilation units. PTZ cameras on motorways assist the police in resolving accident disputes, and surveillance of parking and business centers reduces theft. If a vehicle is stolen, video license plate recognition at key points in the city enables police to find it.

Results

According to the Main Internal Affairs Directorate of Moscow, the SafeCity implementation has caused a dramatic reduction in burglaries and vandalism – drops of 12.5% and 33% respectively in the first six months of operation alone. Crime-solving rates have also increased. Alexander Chumachenko, Deputy Executive of Moscow Main Internal Affairs Directorate, believes that SafeCity had a role to play: "The presence of CCTV cameras makes people more disciplined, and provides an excellent deterrent to crime." Implementation uncovered other unforeseen benefi ts. Video surveillance now enables the government to monitor and control the quality of utility service providers' work. Building control systems allow for tight control over personnel activities, leading to more accurate accounting and technical supervision. And the number of actual residents can be calculated from utility resource usage – useful for checking migration law and tax compliance. SafeCity has been crowned a success by the professional community, as well. At the National Security International contest during the InterPolyTech 2004 International Exhibition, Axxon was awarded a medal and a 'Guaranteed Quality and Safety' nomination diploma "for the development of the SafeCity digital integrated security system as the basis of the centralized city-wide video monitoring solution in Moscow."

The Future

SafeCity Moscow is a permanently evolving and expanding project. It's designed for expansion so that existing systems can remain in use as new ones are installed. SafeCity will soon incorporate the Auto-Axxon Enterprise subsystem, which provides traffic control and automated license plate recognition. Ian Yafayev, SafeCity CTO, notes that Auto-Axxon Enterprise is "a very effective tool to deal with traffic congestion." As well, all doorways in Moscow will be equipped with cameras. Other cities are starting to deploy SafeCity, including St. Petersburg. SafeCity's modular structure means that each city can approach implementation in its own way as funds and resources become available.

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The JOD Group

COVER STORY

Creative Monitoring

Laser Measurement Systems Protect Art and Property

Matthias Mezger
Sick AG, Reute,
Germany

Visitors who cannot restrain their desire to touch, art thieves who are becoming more refined in response to rising prices on the art market, and acts of vandalism are increasingly leading those in museum circles to consider how best to protect their works of art. LMS120 Laser Measurement Systems are the answer in numerous museums. As a result of their targeted but flexible area monitoring, they can reliably detect theft and vandalism – and thus pre-emptively prevent them – whilst reducing the number of guards.

The LMS120 system prevents spurious triggering and false alarms in order to ensure a high level of acceptance of the protective function of the LMS120 amongst visitors and guards by generating a dimensionally accurate, invisible optical curtain in front of one or more exhibits.

The devices generate a dimensionally accurate, invisible optical curtain in front of one or more exhibits – adapted to room geometries and the arrangement of artworks – providing an unrestricted view, but simultaneously rapidly and reliably detecting touching, damage or attempted theft. Whether for a permanent or visiting exhibition, the creativity of the monitoring scenarios possible is almost as great as that of the artists themselves. At the same time, the TÜV-tested LMS120, currently undergoing certification by the VdS (the German insurers' association), offers all the possibilities for integration in higher-ranking monitoring and alarm concepts.

The Building Security Solution in the Building Automation Sector

In the protection of buildings and their security, the laser measurement technology of the LMS120 has, in numerous cases, proved the ideal economical and technical solution. It minimises the risk of theft and damage to artworks

The Baroque architecture of the Palais de Rohan has accommodated three museums since the end of the 19th century: the Archaeological Museum, the Museum of Applied Arts and the Museum of Fine Arts.

without impairing visitors' views. The fact that the device is tamperproof is also important for users, as is the possibility of activating video monitoring and alarm systems via the volt-free relay outputs. Use of laser measurement technology achieves both optimum security for the exhibits and optimum utilisation of the resources available regarding the interaction between a museum's mechanical protective measures, electronic hazard-signalling equipment, and personnel/organisational measures.

Why Is the Monitoring of Exhibits with the LMS120 so Creative?

Almost no building security solution offers adaptation to the requirements of exhibit monitoring, spatial conditions, and differing day and night scenarios that is as versatile as the LMS120. This is made possible by the functional principle of the LMS120. The active scanner of the measurement system transmits invisible fan-shaped laser pulses with an angular resolution of 0.5° and scanning frequency of up to 50 Hz within a 270° angle and measures the time to reception of the reflections. This ensures gap-free monitoring. "Dark bodies" at night – with only a few per cent reflectivity of the emitted laser light – are just as reliably detected as persons in broad daylight. No supplementary illumination sources are necessary because the laser provides its own light. Regardless of the light relationships in a room, and effectively protected against strong light incidence or deliberate dazzling, the LMS120 Laser Measurement System thus offers maximum detection reliability at all times. And because the scanners operate within a low laser protection class they can neither injure persons nor cause any damage to the exhibits.

With all its functionalities, the LMS120 is itself a work of art. The basic housing is available in over 200 different colour tones (based on the RAL colour system). The device is small, consumes little power, and offers a power input of 9–30 V, i.e. it is also ideal for mobile applications on service robots in museums, or building security systems, as a further creative form of monitoring.

The LMS operates without a supplementary IT infrastructure. Regardless of the size and geometry of a room or building, up to ten monitored fields can easily be set up via coded device access according to the size of each of the exhibits and their placement and arrangement on the wall within the fan of laser beams generated by the LMS120. Whereby the room architecture, close examination by art-lovers, and the reading of information about the exhibit is just as unimpaired as the cleaning work carried out below a painting or around a sculpture or installation after the museum has closed. At the same time, though, ensuring maximum security against removal, touching, the cutting out of a picture from its frame, or any other undesirable contact. Whereby Laser Measurement Systems permit the flexible utilisation of space and wall areas because any changes in the room structure, e.g. through the erection of walls, screens or sculptures, or the relocation of pictures of differing formats, can easily be taken into account. Thus temporary exhibitions with differing exhibits and rooms can also be simply and effectively protected. The LMS120 is also recommended for protecting display cabinets, as long as large areas are monitored. The advantages are particularly apparent with variable day and night switching. Thus, during the day, the interior of the display cabinet is protected whereas, during the night, any approach towards the cabinet triggers the alarm.

High Detection Reliability, Low Rate of Spurious and False Alarms

The time-of-flight of the emitted light pulses changes – leading to the triggering of an alarm signal – as soon as a person reaches into or enters the protective field. The double-pulse evaluation of the measurement points, combined with integrated distance measurement, makes field monitoring extremely stable and allows very precise localisation of any infringement of the field. As the system not only detects the person as such, but also their position in space, monitoring cameras can also be focused and guided (for tracking purposes) with pin-point accuracy via the LMS120. Decisively, persons intending theft or vandalism can thus be detected before they act and a guard alerted. Moreover, the course of the criminal can subsequently be reconstructed.

It is essential that the system prevents spurious triggering and false alarms in order to ensure a high level of acceptance of the protective function of the LMS120 amongst visitors and guards. On the one hand, this is achieved by limiting the monitored fields by means of programming, so that work in the room (e.g. the cleaning of floors beneath a picture, or an information plaque next to one) is permitted without triggering any alarm. On the other hand, the scanning sensor technology in the LMS120 is designed so robustly that, for example, heat changes, light, or radio waves cannot impair monitoring. The LMS120 also has an operating range of 18 m, so that the system – protected from inquisitive glances and out of range of persons – can be mounted out-of-reach within a room, safe from any tampering. This positioning potential also prevents any possible interference with the consideration of works of art. Curators and visitors will be grateful for this.

Palais de Rohan: Reliable Protection for Fine Arts

Works of art can now feel even more secure at the Museum of Fine Art at the Palais de Rohan in Strasbourg. SICK has installed LMS120 Laser Measurement Systems here to monitor the pic-

The time-of-flight of the emitted light pulses changes – leading to the triggering of an alarm signal by the LMS120 – as soon as a person reaches into or enters the protective field.

The actively scanning LMS120 transmits invisible fan-shaped laser pulses with an angular resolution of 0.25° and scanning frequency of up to 50 Hz within a 270° angle.

tures to prevent vandalism. The stand-alone installation achieved with standard components – in collaboration with the French integrator Cegelec – triggers an acoustic alarm signal as soon as a visitor gets too close to the works of art. The Museum wants to reduce vandalism and even theft, and ensure that they are absolutely ruled out. As a result of the excellent supplementary properties of the LMS120 it is also possible to rapidly and accurately control installed cameras so that specific portrait pictures of the offender can now be produced. Contrary to the previous situation, with the LMS120 the French guards now each have not just one but four exhibition rooms in secure view. The LMS120 detects the entire 18 m long and 6 m high wall. The detection field only stops about 20 cm in front of the work of art, so that any approaching finger, ball-point pen or knife is detected. Only the entry and exit areas are cut out by the scanner – so that the visitors are not accompanied by alarm sirens when entering or leaving the exhibition room.

Building Exteriors. Also Suitable for Securing Open Spaces and Outer Skins

If it is hard enough to find simple, reliable detection systems that are highly tamperproof and have a low false alarm rate for interior areas, it is even more difficult for external areas. Which is why the LMS120 family of devices from SICK also includes a version suitable for outdoor use, with which objects and persons can be reliably detected in open spaces – regardless of the weather, time of day, or their size and surface properties. This version has an additional software module that also ensures the reliable detection of facades, roofs and open spaces in rain, snow or fog. Thus even the intention to break in, and thus damage a door, window or roof, can be detected in advance. Connection to a monitoring system can take place via Ethernet, RS 232 or CAN Bus. The CAN Bus interface also allows direct communication between two LMS120 units, offering completely new possibilities in the evaluation of monitored areas. Several signalling zones can be defined with the monitored field. Thus segmented alarm signals can be generated, e.g. layered for the increasing proximity of a person to the building. As a result of this information, it is possible to generate differing protective measures depending on the level of the threat to the building – from the triggering of a siren, through the alerting of a team of guards, to information provided to specific persons by SMS and e-mail. It is also possible to activate the alarm lighting of museum or company grounds, switch specific views for guards to examine on their monitors, and increase the recording rate of video monitors for easier identification of intruders, who can be identified on the basis of the video recordings of persons and vehicles remotely called-up via LAN and ISDN. This prevents trouble and reduces costs – something that the insurance sector greatly appreciates.

Summary

The LMS120 masters the art of non-contact and barrier-free protection of paintings and sculptures in museums. Its certified laser measurement offers maximum flexibility and supplementary advantages – in terms of both reduced stress for guards as well as integration in higher-ranking monitoring concepts. Whether indoors or outdoors – the highly tamperproof devices and the prevention of unnecessary false alarms ensures that this monitoring solution gains a high level of acceptance amongst both visitors and users as a monitoring system in building management.

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CCTV

Verified Alarms

A Wireless Security Solution for Home and Small Businesses

Thierry Petri, Senior Product Manager, RSI Video Technologies

RSI Video Technologies develops intrusion security solutions with a real dedication to technological innovation. During the 90s, the team worked on radio circuits with very low power consumption and high integration. It developed, industrialized and manufactured numerous radio products including FM pagers, the first electronic shelf labels used by retailers and the electronics devices used for traffic school exams. GIT SECURITY + MANAGEMENT spoke with Thierry Petri, Senior Product Manager of the company.

GIT SECURITY: Mr. Petri, could you tell us something about the specialties of your company or your USPs?

T. Petri: RSI Video Technologies is a specialist in the design and manufacturing of alarm panels that are totally wireless, are bi-directional and battery powered, and also provide video verification. More than 100 thousand systems are now in use worldwide. We offer a full range of products and services to our customers, who include monitoring stations and installers.

What are the latest developments in products and services that seem most important for you at this time?

T. Petri: Video and audio verification are the most important features we can offer to the monitoring station. They are the key functions to manage false alarms. The other important point for our customer is the cost. Our alarm systems are easy to install because they use wireless and are quick to set up. Additionally, they don't require any maintenance within the 4 first years because they run on batteries. They cost about the same as the products from most of our competitors.

You will soon launch a new alarm panel – what will be the most important features of this product?

T. Petri: Yes, we will launch a new panel in the coming weeks. This is the result of many years of experience in video and audio verification, RF and low current consumption technologies and is fully compatible with all our sensors and devices. It will complement our GPRS panel by offering more features, such as audio and video verification on GSM & GPRS networks, an embedded siren, a tag reader and touchpad in a new and modern design. This panel has been designed around new components that will allow us to maintain a competitive market price for such a product.

You have also developed new management software for monitoring stations. Could you describe this system for our readers?

T. Petri: We have developed a software suite to manage all the features of our hardware. Frontel applications have been designed for easy connection to popular software suites such as Manitou Bold, Mastermind, SIMs, DICE, Sentinel, Esi V1 and others that are found in many monitoring stations around the world. All necessary information regarding the implementation of our IP link is free of charge and available on demand.

Which markets and industries are you targeting with these new products?

T. Petri: With the panel, we are targeting the mass market of monitored residential and small professional protection. This model has been developed to provide the most important features for the monitoring station at a cost-effective price and in a modern design for the end customer.

What other new products or services are you planning in the next months or years?

T. Petri: This GSM/GPRS panel is the first of a new family of products. We are working on other panels that will have dual communication links, such as Ethernet and GPRS or PSTN and GPRS, and in addition a voice communicator. We are also working on a product that will add communication backup and video verification upgrades to existing installations.

Thank you for your time Mr. Petri.

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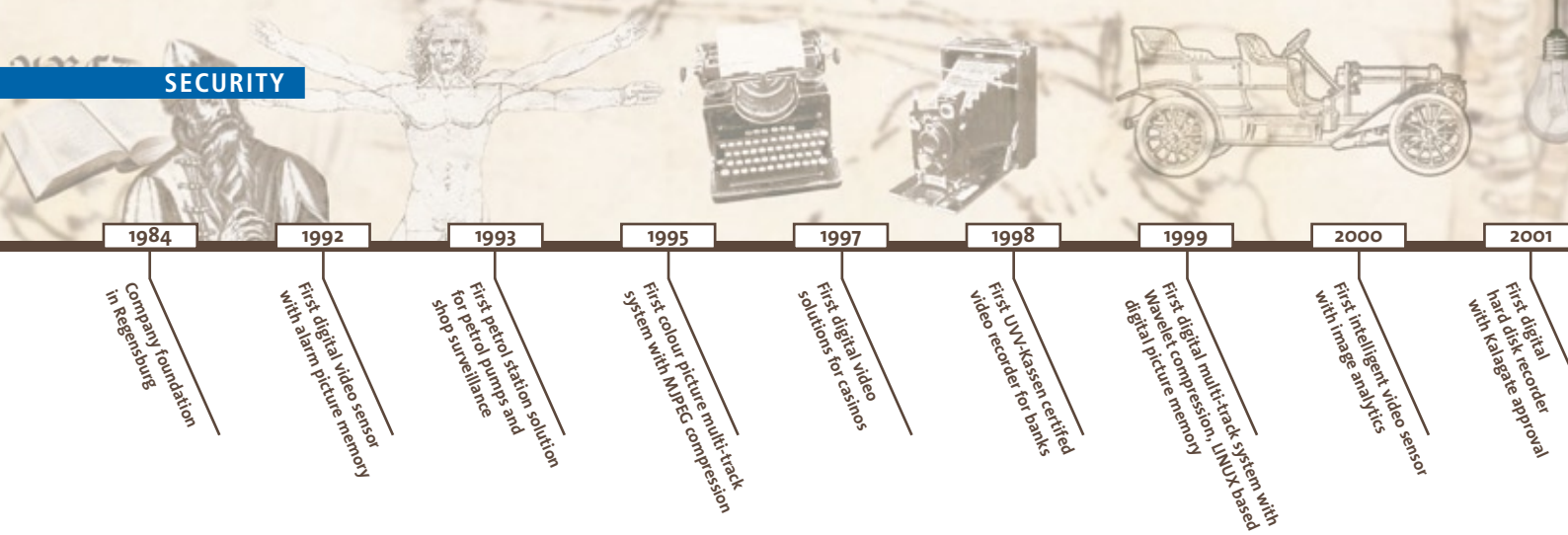


CCTV

25 Years of Pioneering Video Security

An Interview with Dieter Dallmeier about His Company's 25th Anniversary

A quarter of a century has passed since Dallmeier was founded in 1984. In the meantime, the Regensburg based company has built up an international reputation and is known as a leading provider of network-based video surveillance systems. The company has come a long way and we spoke with its founder, Dieter Dallmeier, who recalled the story of the past twenty-five years for us.

GIT SECURITY: Mr. Dallmeier, how did it all begin and how did you manage to establish the company internationally?

D. Dallmeier: In 1984 I decided to go into business for myself as a master television technician. For many years, the company rested upon two people, my wife Christina and me. It took some time and wasn't always easy to come to where we are now with around 300 employees. There have repeatedly been hard times, some lasted longer than others and some passed by quicker.

That is why today, I am particularly proud that we have remained persistent through all those years and always believed in our visions and ideas. Eventually, Dallmeier was able to decisively influence the market. The development of the world's first digital video sensor with digital picture memory, which was introduced to experts in 1992, represents a milestone in the evolution of the industry and also in digital technology for security equipment.
In 1997 we made our breakthrough with the development of the first digital solution for gaming tables for the Crown Casino in Australia. The rising demand for Dallmeier products allowed us to stabilize the business and to achieve constant growth up to this day.

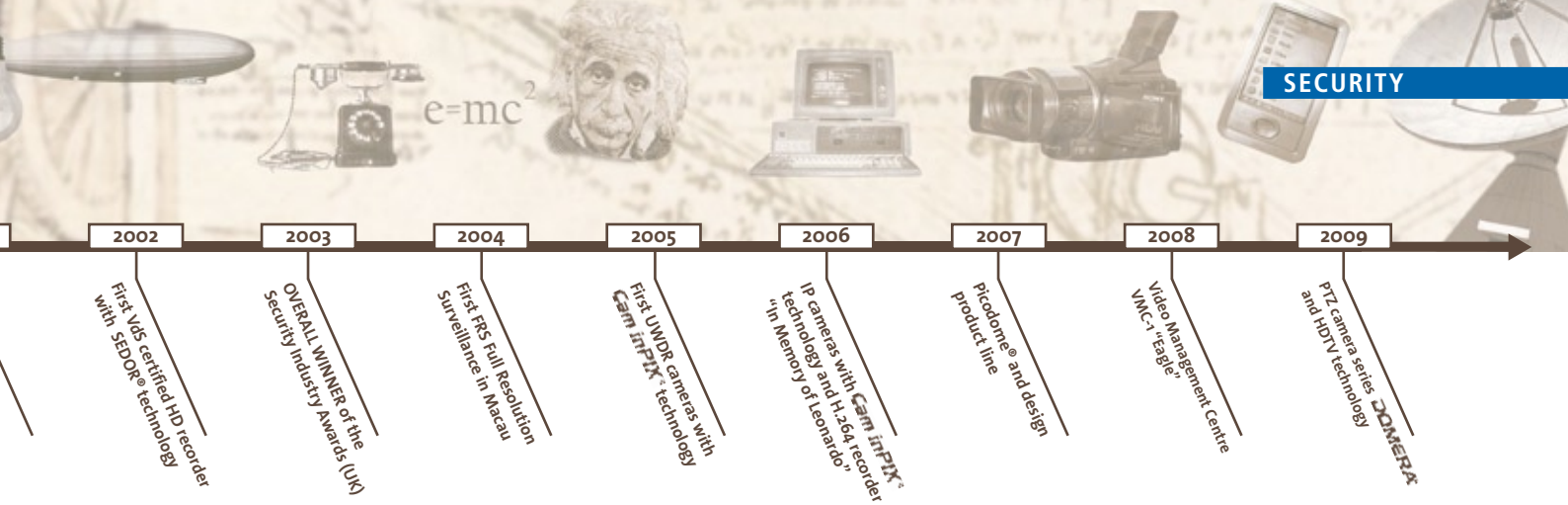
It has truly been a long way. What motivated you to keep working hard through all those years?

D. Dallmeier: I was mainly driven by passion and enthusiasm for developing as well as advancing forward-looking technologies. In doing so, I have never shied away from pursuing unconventional approaches. It has been very rewarding to produce pioneer work in video security technology over all those years. It is still incredibly exciting to repeatedly give new impetus to the market and to see the direct effects that it can have on an entire industry.

That passion for our work has also become an integral part of our corporate philosophy and is also shared by the entire workforce. That is why we manage to break new moulds, again and again, with undeviating faith in what we do, and why we are always able to be a step ahead. I am particularly happy that our employees share my passion and that every one of them puts their hearts and souls into their work.

You have always been able to bank on the right trends. How did you do that?

D. Dallmeier: It has shown that long-term planning and an uncompromising focus on quality always pay off in the long run. Trends, whether in the stock market or in technical areas, are very often short-lived. Only a few technological hypes have been able to establish themselves. While others were still trying to proclaim the unique, a follow-up technology had caught up with them or even overtaken them.



25
1984 - 2009
25 Years Dallmeier

Often it isn't easy to recognize technological change early on and incorporate it into one's own development plans at the right time. In this regard we have always been guided by one thought: how can the customer benefit from this technology? By systematically concentrating our development on functionality and ease of use, we managed to create reliable and practically-oriented solutions for professional video security on every occasion.

How do you feel about issues like environmental protection and social responsibility?

D. Dallmeier: From the very beginning, Dallmeier has not only felt committed to economic success. For me as the founder and head of the company, it is equally important that we recognize our social responsibility. This conviction shapes all our corporate activities. In the past, Dallmeier has been pioneering in video security technology in many ways and will continue to develop innovative products which set the benchmark for the industry. With the same energy that the company uses to promote its economic success, it also devotes itself to taking up social responsibility.

Various aspects of our corporate culture prove that this is not just lip service. The working atmosphere at Dallmeier is characterized by mutual respect, open-mindedness and interest for the work of colleagues. Introducing ones own ideas and helping each other are equally prominent aspects of that atmosphere. Dallmeier aims at representing the idea of being there for each other to the outside world as well and thus supports a number of aid groups around the world. When it comes to environmental protection Dallmeier is amongst those companies that not only strictly adhere to existing laws. Rather we voluntarily impose even more demanding requirements on our corporate activity wherever it seems prudent and possible.

Dallmeier pursues economic success, of course, and asks to be measured by the satisfaction of its customers. However, in doing so, we do not allow benevolence to fall by the wayside.

How will the future look for Dallmeier?

D. Dallmeier: Of course, I can't predict what the coming years will bring. But I am looking forward to continue working on our vision and face future challenges and to do so together with my wife Christina, my son Thomas, who is already active in the firm and shares my passion, and with all our employees.

We have many ideas and always push the development of trendsetting solutions for video security. In doing so, the requirements of our customers still come first.

Many thanks for this interview.

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CCTV

Outdoor Surveillance

New Security Trends for Harsh Exterior Environments

Outdoor security is essential for many businesses, with the outdoor perimeter of a site often representing an important security gateway. The threshold between the company's land and the space beyond presents a clear opportunity to implement video surveillance technology. Outdoor security systems provide the first view of visitors, intruders or other members of the public, providing the most time to react effectively, if needed.

Alastair Hayfield, Senior Market Research Analyst at IMS Research, believes that robust, efficient outdoor surveillance is becoming more and more important to security professionals. "IMS Research is forecasting long-term double digit revenue growth for applications that require outdoor surveillance, particularly public area surveillance and perimeter protection," he says.

Overview surveillance. Perimeter protection. Facial identification. License plate recognition. For many industries, from education and government to industry and retail, outdoor surveillance is just as essential to their overall security picture as the indoor system. Often, more so. Each outdoor application has special demands, but successful video surveillance demands suitable image quality and equipment reliability regardless of conditions, as well as cost-effective installation and user-friendly operation.

"It is imperative that outdoor cameras have the highest build quality possible to cope with the full assault of the weather - from freezing snow storms to dusty, hot deserts," explains Hayfield. "Since outdoor cameras are often located in difficult to reach places, reliability is key as maintenance or replacement can be expensive, time-consuming and difficult." Maintenance also often requires specialist equipment, which is not likely to be easily – or cheaply – accessible.

Reliability in Extreme Conditions

Unlike indoor locations, where most variables can be held within narrow and predictable ranges, outdoor locations strain video surveillance to its limits. Outdoor security systems are required to endure exposure to wind, rain, variations in temperature (from extreme heat to extreme cold), humidity, dust, vibration, corrosive environments and acts of vandalism – and those systems that fail to live up to these requirements can pose a serious security risk.

Changes in the natural environment must also be taken into consideration. For example, trees can grow very quickly and block the intended

High-performance Camera Solutions for All Outdoor Conditions, from Axis Communications

Axis Communications has recently launched a new range of unique outdoor products, designed to withstand the rigours of outdoor placement whilst delivering the excellent quality of our most successful indoor cameras. All products have been designed with the installers and end users in mind, making the implementation process quick, easy and painless.

New arrivals include the AXIS 215 PTZ-E and AXIS Q6032-E PTZ dome network cameras, and the AXIS P33 and AXIS P13 network camera series. Axis outdoor products withstand the toughest conditions, providing protection from rain, snow, sun, dust, extremes in temperature, vibrations and vandalism.

Both dome network cameras are dustproof and protected against dust and water, complete with IP66 classification and a wide operating temperature range – made possible by built-in heater and fan, and removable sunshield. The AXIS Q6032-E offers temperature control for intense Arctic temperatures, with quick and secure start-up after power loss at temperatures as low as -40 °C (-40 °F), and pre-heating to avoid PTZ motor damage.

Axis's outdoor-ready cameras are vandal-protected, with hardened casings and active tampering alarms – and, importantly, they offer quick and easy installation. Outdoor camera features include bracket prepared for cabling along wall & pole; power, video and remote PTZ through same cable; bayonet connector on camera housing; pre-mounted wall bracket; multifunctional mounting plate for wall, ceiling or junction box; and quick and firm snap-in of camera unit. Cameras are easy to configure, with remote zoom, remote focus and pixel counter (AXIS P33 and AXIS P13 models).

AXIS Q6032: Temperature control plus pre-heating to avoid PTZ motor damage

Designed for tough conditions: AXIS 215 PTZ-E camera

Of course, image quality is never compromised in Axis's outdoor cameras. Incorporating a high-quality transparent dome cover to minimize any effects on image quality, the cameras adjust to changing lighting conditions using iris control and automatic day and night functionality for improved light sensitivity in low light conditions. The cameras also benefit from electronic image stabilization to reduce motion blur - particularly important for PTZ cameras mounted in windy environments – and progressive scan for crisp images of moving objects.

field of view – which is why a comprehensive site survey before installation is essential.

Weather

In many outdoor surveillance situations, cameras are likely to experience certain amounts of adverse weather. This can range from rain and snow, to thunderstorms and extreme cold or heat. Outdoor surveillance equipment must be designed with these factors in mind, and built with the ability to withstand the toughest conditions. It is important to prevent water ingress by using an IP (Ingress Protection) rated housing to ensure that the equipment does not suffer water damage. IP ratings are given to outdoor surveillance equipment to communicate their resistance to water and dust.

Tampering and Vandalism

By their very nature, surveillance cameras can be unpopular with individuals who don't wish their actions to be monitored. It's therefore important for cameras to be able to fend off attempts to disable them – with vandal-resistant design, hardened casings and active tampering alarms. It also helps to use equipment that is unobtrusive in design, diverting attention away from it.

Image Quality

But it's not enough merely to be able to operate in harsh conditions: cameras also need to deliver high resolution image quality coupled with high frame rates – very important when dealing with fast-moving subjects and varying lighting conditions. High image quality is especially important in applications such as parking lot and city/perimeter surveillance and at airports/seaports and train stations, in order to clearly identify people and vehicles.

Factors such as extremes of light and dark, shadows and fast-moving objects can also adversely affect the effectiveness of the security camera. Constantly changing light conditions are the norm for outdoor surveillance installations, from one minute to the next and from brightest daylight to darkest night. Security cameras need to be able to cope with all levels of lighting, utilizing infrared technology at night and iris control in bright sunlight to ensure exceptional image quality at all times.

Ease of Installation

Whilst image usability is one of the most important considerations when choosing an outdoor security camera, the needs of the security consultants and integrators must also be kept in mind. The need to be able to competitively install, commission and support the systems you're recommending and selling is an undeniably important issue. An outdoor surveillance solution needs to be easy to install, saving time and resources, whilst being resilient and producing excellent image quality.

Whether a site needs five cameras or five hundred, installation is critical and often costly. Outdoor network cameras are often placed in difficult areas, high up on walls, ceilings or poles, for example. In large-scale systems with hundreds of cameras, all time-savings during installation significantly reduce the system cost. The easier the installation and configuration, the bigger the benefits to both customer and installer.

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SECURITY FOR BANKING AND FINANCE

Look, Don't Touch

Intrusion Detector Technology in a Banking Environment

Bank customers today want light, airy, open-plan spaces where they can meet bank staff face-to-face to discuss business. As well as handling money and financial information, banks are also secure storage areas for deeds, bonds, company books, records and other items of value such as jewelry and artwork. Customers often have access to the large open spaces and small offices in which secure documents and valuables are present. Prevention of tampering with the security system then becomes more difficult.

Criminal acts have become more sophisticated in this open environment. The preferred method is to gain access to financial information such as bank account details, passwords and other transactions. Success depends on the thief getting the information without the banks knowledge. Banks may use elaborate software to protect data, files and financial information in the virtual world, but in the real world they need to protect their detailed hard copy records.

An increasingly common practice is the holding of art exhibitions in the bank. While visitors are free to browse around the bank looking at the valuable exhibits on display, the opportunities for criminals unfortunately increase. One method used by criminals is to mask the intruder detectors and then hide away in the bank, intending to emerge after the bank is locked-up. Intruder detectors are vulnerable to attack by many methods. A piece of card in front of the device or a quick spray of paint across the detector will make most conventional intruder detectors useless when the alarm comes on after the close of business.

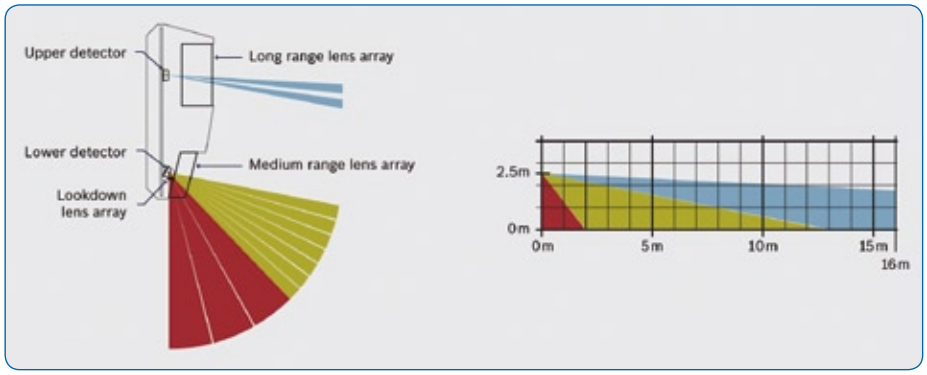
Five Are Better than One

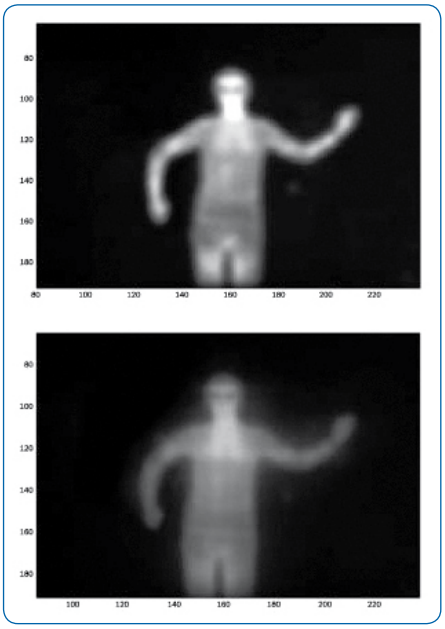
The Bosch Professional series intrusion detector's fusion of five different sensors in one device is designed to meet the needs of today's banks. It is an intrusion detector with high reliability – that is, the capacity to detect an intruder while ignoring false alarms - and anti-mask technology to resist sabotage by potential criminals. The five sensors are analyzed using a sophisticated set of algorithms; the signals from two passive infra-red(PIR) detectors with trifocus optics, a microwave Doppler radar, a white light detector and a high ambient temperature detector are integrated to give consistent, reliable, intruder detection. The patented optics system uses two separate PIR detectors and three engineered lenses, giving even coverage at short, medium and long range and wall-to-wall detection. Some detectors use mirrors for focusing instead of which, when focused on the middle of a room will leave foreground and background fuzzy. The proprietary Bosch lens design delivers even signal distribution across large spaces and equally in meeting rooms and offices.

Two Legs or Four

While radar will detect the presence and movement of an intruder in a room, it has difficulty deciding the size and lacks depth perception. A rat scuttling across the floor 5 meters away can give the same signal return as a human at 15 meters. Microwave range-adaptive radar technology simultaneously integrates information from both PIR detectors with the radar return. Automatic target range adjustments then determine size in a similar way to the human eye.

Modern banks have large areas of glass to let in the light and suggest an airy sense of space. At night, car headlamps, lightning flashes and street lights though the windows can acti-





vate an alarm. All PIR detectors therefore need to be immune to extraneous white light sources, sometimes shone intentionally by potential intruders, that might flood a detector and generate a false alarm. The Professional series uses a dedicated white light sensor integrated with the other signals to neutralize the presence of any white light sources.

Another source of false alarms is high room temperatures from weather or excessive heating. As the ambient temperature approaches human body temperature, the usable signal produced decreases so common practice is to make IR detectors more sensitive at higher ambient temperatures or switch-off the IR part. Bosch uses dynamic temperature compensation to adjust sensitivity around a defined critical range. As human body and room temperatures converge, sensitivity increases in a narrow band, enabling the detection of subtle temperature differences at higher temperatures.

Ocean, Take a Lesson

Intruder detectors used in public bank areas are vulnerable to tampering. During office hours, with the alarm system disabled, criminals have the opportunity to spray paint or other substances on the lenses, or place objects in front of detectors, making them unusable without anyone being aware. Anti-mask detection technology defeats these attempts by using four active IR emitters and three IR sensors. Bounce back technology creates a bubble of infrared energy about 30 cm in front of the detector. If an object covers the detector, the IR energy rises above expected levels. Any substance sprayed on the outside will alter the multi-prismatic light pipe's reflectivity. Likewise, through-the-lens technology can determine if anyone has placed IR opaque material across the front of the detector. Any rise or fall in expected IR energy on a photodiode will cause the detector to set a trouble signal.

With these new combined technologies, the prize-winning Professional series meets both EN50131 Grade 3 and VdS Class C requirements for anti-mask performance. They also meet the European standard for motion detector performance, EN50131-2 on catch performance and false alarm immunity and anti-mask detection capability. CNPP (France) independently test the Professional series detectors by type for a given application security risk to grade level 2 and 3, the high-risk application category.

Bosch Professional series intrusion detectors have won three prestigious prizes; the Intruder Alarm Product of the Year Award at the IFSEC Exhibition 2008, selection for inclusion in the 'Gallery of New Products' at the SICUR Exhibition 2008 and the best innovative solution in security and safety technologies at the XIVth International Forum & Exhibition on Security and Safety Technologies at the Crocus Expo in Moscow.ct

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ACCESS CONTROL

The Ins and Outs of Banking

Special Security for Austrian Hypo Bank Uses Contactless Technology

During renovation and extension work at Hypo state bank, Gantner also upgraded and modernised the bank's Legic system. The Hypo Vorarlberg Group's headcount has more than doubled in the last ten years, making the existing building fit to burst. The main idea was to combine customer convenience with highest security levels, and contactless Legic technology offered many advantages here.

Hypo's head office building in Bregenz was in urgent need of renovation, so full-scale conversion and extension work was begun in April 2007. Head office floor space was increased by a total of around 1,000 m². The ambitious new construction plans concentrated on deploying the very latest environmentally-friendly building technologies as well as on the architect's language and the inclusion of contemporary art.

Gantner as Project Coordinator

After a three-month project planning phase during which Gantner coordinated all the trades involved, from electricians through to door producers, the next challenge was to install the contactless smart card-based access control and time and attendance system which had to be integrated seamlessly into the existing technological landscape.

Besides Bregenz, a total of almost 250 Gantner time recording and access control terminals for more than 1,000 employees are in use at 31 other Hypo locations and subsidiaries in Austria; together they form an integrated Legic based system. Effective teamwork meant that this far from easy undertaking was successfully completed in a record time of around six weeks. The new building in Bregenz alone houses 550 staff and 5,000 access control operations must be performed every day. Organising all this requires 62 online and 40 offline terminals; time stamping takes place at one of eight time-registration terminals which were specially manufactured for Hypo as a stainless steel version.

High Security Requirements

The system in Bregenz on Lake Constance includes a few special features which cater specifically for the increased security requirements that are appropriate to a bank. The use of lifts and access to individual floors are strictly controlled, for example. An employee's chip card must additionally be verified by means of a code in order to gain access to the banking area both from outside and from within the office area.

The entire building is split into a total of 15 alarm areas which can be activated and deactivated via the access control or time registration terminals. GAT building overview software ensures that staff who are responsible for security have a complete overview of all events, door states and alarm situations. This software also allows various scenarios to be stored and triggered as appropriate.

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CCTV

Always In Focus

New Range of CCTV Products from Taiwan

EverFocus presented their latest CCTV product developments at Ifsec 2009 in Birmingham earlier this year. Visitors saw video recorders, conventional and IP cameras as well as management software from the company.

The new Paragon MPEG-4 DVR series was shown and incorporates pentaplex operation for simultaneous live monitoring, recording, playback, archiving and remote viewing. Network accessible, they have a pre-alarm buffer and feature an extended schedule setting to include holiday calendars and express schedules. The Ecor DVR series has improved network image transmission speed and extended recording settings to enable almost universal application. Users can command the DVR through graphic icons on the GUI.

Cameras for Here and There

The EZ 550 1/3" outdoor long-range camera is an infra-red high-light. It features automatic day/night switching, built-in 4-zone motion detection and a motorized 6-50mm varifocal lens. The latest additions to the speed dome range are the EPTZ 3600 day/night cameras with 36x optical zoom and the EPTZ 2700, both available as indoor and outdoor models. The EAN range includes network cameras providing high definition images of fast moving objects and supporting H.264, MPEG4 and MJPEG multistream output. They include a built-in digital motion detection function and support Power over Ethernet to ease installation and maintenance.

Multi-channel Recording

The IP camera range covers advanced day/night network usage, vandal-proof CCDs with H.264/MPEG4/MJPEG multistream and outdoor versions with motorized lens and optical zoom. Th ENR 3200, 1600 and 800 network video recorders handle 32/16/8 sources respectively from multi-brand megapixel IP cameras and video servers. Local and remote PTZ control, digital PTZ, bidirectional audio and integrated video analytics are available. All EverFocus IP products are supported by PowerCon 4.x management software, either pure or in a combined hard/software solution.

EZ 550 1/3"

Paragon MPEG-4

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PERFECT VISUAL SOLUTIONS

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Thermal Imaging Cameras for One of Europe's Largest Refineries

Polski Koncern Naftowy Orlen, better known as PKN Orlen, is one of the largest crude oil refineries in Europe. More than 20,000 employees run the company's seven refineries, of which three are in Poland at Plock, Trzebinia and Jedlicze. The company has further locations in the Czech Republic and a refinery in Lithuania. It has recently started to use SR-100 thermal imaging cameras from FLIR Systems.

The pipeline that delivers crude ‚Ural' oil to PKN Orlen is called "Friendship", or "Druschba" in Russian. The Polish company has specialized in the processing of this crude oil into unleaded petrol, diesel, heating oil and kerosene for aircraft – but plastics and other crude oil products are also part of the process. As well as this, the company runs a large sales network to sell to end-users.

Security for the Main Factory in Plock

The main petrochemical plant is the refinery complex in Plock, some two hours' drive from Warsaw. The plant stretches over more than 800 hectares and is one of the most modern and progressive factories of its type in the whole of Europe. Top priority is to prevent unauthorized access – not only at the main gate: the whole compound is highly secured.

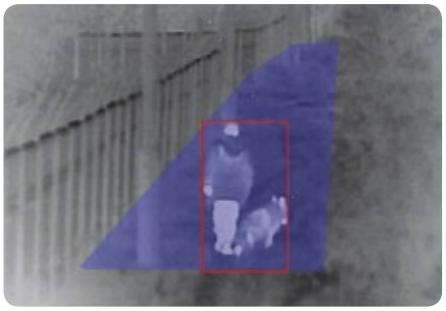
The reason for the extensive security measures lies, for example, not only in the fact that unauthorized persons might endanger the 24-hour production. A facility where so many different chemical processes are taking place must also be secured for other reasons, one of which is protection against theft. It is easy to overlook the amount of valuable equipment and materials that are in use: copper and other metals are valuable raw materials that can inspire theft and the running of stolen goods.

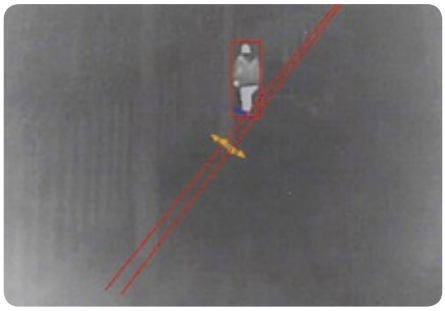
It is not easy to secure such a compound, as Jacek Kotulski, security expert and coordinator at PKN Orlen in Plock explains. "The factory consists of almost 70 individual production systems that are spread over an area of over 800 hectares. As in any other high security area, we have installed a palette of different security measures and equipment to be sure that no one enters the factory compound without us knowing about it. CCTV surveillance cameras, video analysis, fences – all these are installed at various places within the compound and work together to keep trespassers out."

Thermal Images – when It's Dark, Foggy, Smoky or Steamy

It is a special challenge also to ensure the security of this large site when it's dark – the solution was found in thermal imaging technology. "I already knew about thermal imaging technology and therefore made contact with Mr. Swies of Agtes, a distributor of FLIR Systems in Poland, who showed me the systems in action", explains Jacek Kotulski. "We decided almost immediately to purchase and install a number of thermal imaging cameras, in this case the SR-100 model. The reason why we chose this specific model was because of its excellent range. The SR-100 will already discover a target the size of a grown man at a distance of not less than 1.6 km. And that in total darkness under all conceivable weather conditions."

The SR-100 thermal imaging cameras were installed along the entire perimeter and also in particularly sensitive high-security areas. The cameras are permanently mounted and constantly monitor the same area. There is always a video surveillance system in the direct vicinity with CCTV dome cameras. "If an alarm is raised and weather conditions permit, we can get a more accurate view of the specific situation from the surveillance cameras. Other-





wise we will dispatch a patrol to get a report on the situation", says the security coordinator.

The thermal imaging technology is also very helpful on the frequent foggy days in Plock. "Although the range of the thermal imaging cameras is also affected by fog, they allow us to see a lot more than is possible with a conventional CCTV surveillance camera", says Jacek Kotulski. "There are of course a number of production processes in the refinery that create a lot of steam and smoke. The SR-100 thermal imaging cameras have also proven to be very useful here to see through the steam and smoke. That's just not possible with normal surveillance cameras."

Thermal Imaging Technology and Video Evaluation

One reason for the choice of fixed thermal imaging cameras is their good compatibility with the video evaluation in the refinery. Jacek Kotulski: "By choosing fixed systems instead of the optional pan/tilt mechanism we have reduced the number of false alarms. The thermal imaging cameras from FLIR Systems work very well with our existing image analysis system. One of the advantages of thermal imaging cameras lies in the high-contrast image that they provide, not only at night but also under difficult light conditions where a conventional CCTV surveillance camera would not deliver a useable contrast level. That makes thermal imaging technology the best partner for our Object Video evaluation system", adds Kotulski.

The images from the SR-100 cameras are transmitted via a BNC/fiber optic convertor over a fiber optic cable. At the end of this fiber optic cable another BNC/fiber optic convertor receives the signals and sends them to the Object Video processor. From there, the images are sent via Ethernet so that they can be seen anywhere. Jacek Kotulski: "But most of the time we are not looking at the thermal images ourselves because the computer does it for us. We run Object Video VEW 5.0 over the digital signal processing. Object Video Forensics is also installed as an additional add-on. Object Video uses algorithms to recognize objects and immediately generates meaningful messages such as real-time alarms or trigger signals for the automatic start of other applications".

One of the algorithms, "trip wires", sets off an alarm when someone or something crosses a specific line that can be defined in Object Video. Another algorithm is called "areas of special interest" (AOI). AOI makes it possible to define an area to which no access is allowed. An alarm will also be automatically raised here if this area is entered or an imaginary border is crossed. To limit the number of false alarms, the program has a number of filters. One of the automated actions that is controlled by Object Video is the immediate display of the thermal image on the monitor in the control room if an alarm is raised. As soon as that happens, the operator decides if it is necessary to implement further steps.

Jacek Kotulskis' opinion is extremely positive: "The SR-100 cameras have proven to be a valuable tool for our security. They help us with perimeter protection, not only at night but also during the day – under all possible and impossible weather conditions."

Bertrand Völckers
FLIR Systems

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flir@flir.com · www.flir.com

VideoIP range
"a tribute to Amadeus"

VideoIP solutions from a single source

Dallmeier has planned and realised the biggest real-time IP systems worldwide. The extensive know-how has been used in the development of the VideoIP range "a tribute to Amadeus".
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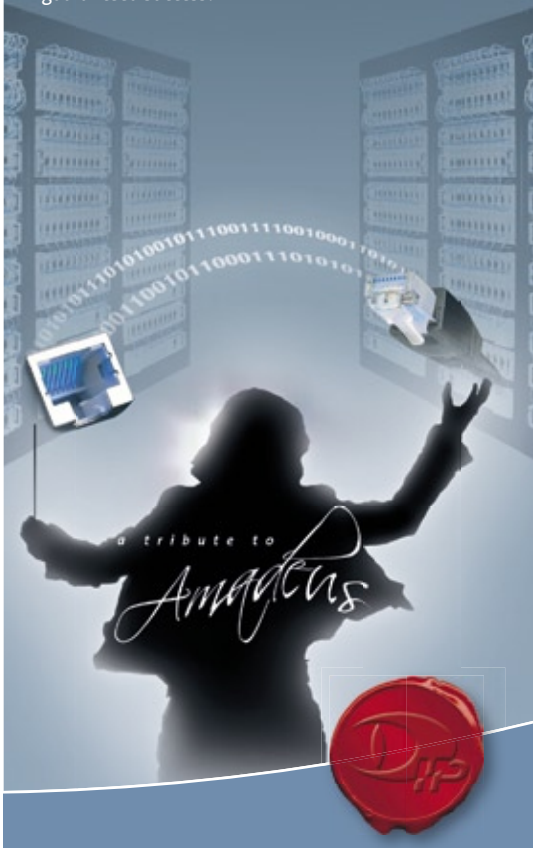

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Perimeter Protection

Many readers of our interview with Alfonso Caprile of Bunker Seguridad in GIT SECURITY + MANAGMENT 4/09 have shown interest in the company's portfolio. We are pleased to provide you with an overview: Perimeter Security Beam Towers: used for housing Active Infrared Beams. Active Infrared Beams: Initially producing Beam Towers for use with active infrared beams produced by world class manufacturers, the company has taken the initiative to expand their range of products to include innovations such as the Malta, CAV, CAV-W and Spiro security garden guard lamps and the IRIS long range outdoor PIR series. Polycarbonate Shields: They allow the infrared beams to pass through whilst at the same time offer protection against solar and ultraviolet radiation, steel frames to add resistance and stability, heavy-duty ABS plastic covers, and a complete hardware kit with EPDM sealing strips to facilitate its installation in the large majority of scenarios. Concrete Bases and Guide Wires: A complete range of accessories are available to meet the most demanding installations such as heaters, concrete bases, anti-climb tamper switches, and guide wires for extreme wind forces. Garden Lamppost Enclosures: They offer the same degree of security as the towers but oriented to protect perimeters for villas, private residences, hotels and locations where appearance and visual appeal matter whilst offering the possibility to illuminate the location in which they are set.
www.bunkerseguridad.es/eng/soluciones.html

Large Screen Solutions

Eyevis is specialized in the development and production of high-quality large screen systems. The EC Cube Series include high-end DLP rear-projection cubes. They are available as modular and stand-alone versions with screen diagonals from 50 – 100", in image resolutions from XGA to SXGA+ and with single or double-lamp systems. The Netpix Controller Series consists of high-end graphics controllers for large screen desktop systems. The controllers are available in various versions; there are also redundant and multi-expandable versions available. The Open Warp Image Combiner is especially designed for single- or multi-channel projections for presentations, simulations and VR environments. It enables softedge blending, image warping, high-definition multiscreening, image mixing, switching, and combining, and multi window split control. The Eyecon wall management software gives the operator control over the connected sources. According to the company, its Eye-LCD4000M/W & 4600M/W displays have the smallest bezel of all TFT LCD displays on the market.
www.eyevis.com

Telezoom for Day & Night

The latest 32x Megapixel Zoom lens enlarges the continuously growing product range of Megapixel lenses from Fujinon. The D32x15.6HR4D is designed for 1/2" sensors and offers a focal length range of f = 15.6 ~ 500 mm. The lens also supports high resolutions up to 1.3 Megapixel and features a wide aperture of F3.9 as well as auto iris (DC or Video type) including preset function. Equipped with the company's "Day&Night technology" surveillance with sharp and high-quality images by day and night is possible without focus shift when switching between day and night mode. The small size and light weight of only 2.7 kg allows installation of a compact long range surveillance system for airports or harbours. The Telezoom lens is suited as a companion to the company's other two 1.3 Megapixel zoom lenses: the D32x10HR4D (f = 10 ~ 320 mm, F2.5, Day & Night) and the D8x7.8HA (f = 7.8 ~ 63 mm, F1.2).
www.fujinon.de

Digital Color Camera

Everfocus has launched ist EQ 200 E 1/3" digital color camera EQ 200 E. I provides 380 TV lines horizontal resolution with a sensitivity of 0,3 lux (F = 1.2) Further features include: flickerless function; On/off switch for b/w mode under low light condition; VD/DD switchable lens control; support of both C-mount and CS-mount lenses; audio function.
www.everfocus.de

Smart Surveillance Technology

Bosch Security Systems is enhancing its camera range with new smart surveillance technology. Embodied in the recently introduced Dinion 2X Day/Night fixed camera and the Flexidome 2X Day/Night dome camera, the company's new smart surveillance technology provides customers with a truly advanced level of imaging for the most demanding surveillance applications. The cameras combine a proprietary wide dynamic range CCD sensor (Charged Coupled Device) with a 20-bit digital signal processor (DSP) with many times the computational power of conventional cameras. These features deliver mproved detail reproduction and better image quality in low-light conditions. The same level of performance is achieved in the Dinion 2X fixed body cameras and FlexiDome 2X fixed dome cameras.
www.boschsecurity.com

Video Management

Milestone Xprotect Enterprise is a video management solution that handles unlimited numbers of cameras, servers, users and sites. Distributed server architecture optimizes bandwidth usage, keeping video data traffic between all the elements to a minimum. Version 7.0 will provide security system administrators with significant improvements through an intuitive new Graphical User Interface (GUI) and a series of powerful tools for ultimate usability – e.g.: System configuration wizards quickly set video quality, online scheduling, frame rates, storage, archiving schedules, and more. Automated device discovery uses fast Universal Plug-and-Play (UPnP) and broadcast detection in addition to IP range scanning. Smart bulk configuration options apply to both devices and users. Adaptable application behavior guides novices and aids experts in optimizations.
www.milestonesys.com

IP Video Networking and Traffic Analytics

Optelecom-NKF announced its partnership with AID expert, Traficon, and Swedish systems integrator, ISG, in presenting the Siqura Traffic Server at ITS Stockholm 2009 (September 21–25, 2009). The companies initiated their collaboration in 2008 with the intention of developing the industry's first ever codec module incorporating AID algorithms and storage. With Optelecom-NKF's expertise in field-hardened surveillance solutions and Traficon's proficiency in video detection technology, the joint development has led to the creation of the Siqura Traffic Server. This intelligent platform provides authorities moving towards IP solutions with a sophisticated instrument to improve traffic flow and safety.
www.optelecom-nkf.com

Making Security Easy

Easy Series is an intrusion control panel for private households and small businesses. Easy Series characterizes through easy operation and attractive design. Voice messages guiding through the system and for operation are available in 35 languages. The system is EN50131 Grade-2 tested. It can also be used for convenience features such as lighting control, control of garage doors or roller shutters via the help of the Internet. The system can also be connected to a monitoring center or to any other PC. Mobile Internet connectivity for alarm transmission via GPRS/GSM offers the important benefit of allowing the connection to be monitored continuously. An interruption of this connection is being detected and reported in less than 5 minutes.
www.bosch.com

PERIMETER PROTECTION

Flowing Across the Border

Contract Awarded to Secure U.S. Water Purification Plants

Sicurit Alarmitalia Spa, a manufacturer of advanced perimeter protection systems, and Safeguards Technology LLC, Sicurit's exclusive partner in the USA and also a provider of perimeter security solutions, have announced a contract award for a perimeter intrusion detection system for a U.S. Department of Works facility. The contract award includes Sicurit's unique Absolute IR/MW dual technology barriers.

This barrier is an outdoor perimeter protection system that utilizes both infrared and microwave technologies working together and enclosed inside an extruded aluminum column. The system ensures maximum reliability of intruder detection with minimum false alarms. Absolute columns can be custom designed to any height and component array to suit each particular security application. The combination of infrared and microwave technologies allows maximum perimeter protection with coverage of up to 200m between transmitter and receiver columns.

Sicurit Alarmitalia Spa is engaged in the development, manufacturing and marketing of outdoor perimeter security systems which automatically detect, locate and identify the nature of unauthorized intrusions. The company's products are currently used in more than 25 countries worldwide to protect national borders, airports, correctional facilities, nuclear power stations, prisons and other sensitive facilities from terrorism, theft and other threats. Italy-based Sicurit has subsidiaries in the Czech Republic, China, and partners in the U.S.A., Germany, Spain, France, Belgium, Sweden, Ukraine, South Africa, Korea and Australia. It employs more than 100 people in R&D, administration, sales, marketing and production.

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+ Real time live display: 30(NTSC) / 25(PAL)fps for each channel
+ IE software for 64-CH image controll
+ IR Remote controller to control 8 DVR
+ Network Support – TCP/IP , HTTP , PPPoE , DHCP , DDNS, FTP , TSP
+ Audio : 4 in / 2 out
+ Pre/post recording function
+ Support detection trigger under video loss/motion/ alarm/HDD state
+ Support VGA output for 1280x1024 resolution
+ Watermark protection
+ Back up support up to 2 SATA HDD / DVD-RW / USB
+ RS232 and RS485 for PTZ,keyboard control,GPS, and POS support
+ Multi-language support - English/Chinese/Japanese/ French/Spanish Polish/Russian/Turkish/Italian/ Greek/Portuguese/ Korean available.
+ optional IEEE 1394 connector for external 8 HDD & 1~5 raid extension

IP CAM (Mega Pixel model released)
+ MPEG4/H.264 Dual video stream
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+ Video loss/Power loss /Network loss
+ Support Mail & FTP Function
+ Support USB Quick Setting
+ Support Image Motion Detection

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CE RoHS

New Twist on Pan & Tilt

UK-based CCTV manufacturer Conway Security Products has updated its flagship pan and tilt to include features that facilitate the unit being supplied for installation directly onto legacy systems. Pan and tilts have a heritage going back to the 1970s and remain a cornerstone of applications where limited lens options mean domes cannot always provide suitable images. Locations such as prison perimeters, motorways, infrastructure sites and civic centers still demand the highest quality picture, often specified by government departments or consultants using Rotakin. But image quality will be wasted if a pan and tilt cannot effectively track the target, whether this be a person or a vehicle. The C2090CR has a standard pan speed of 24°/second and an optional pan speed of 55°/second combined with an ability to rotate in excess of 360° without fouling cabling. The operator can thus manually track a target, concentrating only on the subject on screen and without having to consider whether the camera is going to reach an end-stop.
www.conway-cctv.com

Outdoor Day/Night Camera

Everfocus' 1/3" vandal-proof outdoor day/night dome camera ED 560 T is now available ex stock. It replaces the previous indoor model ED 550 T. The camera comes in a vandal-proof IP66 outdoor housing and features, next to max. 560 TV lines (b/w mode), built-in DNR, advanced 16-bit digital signal processor (DSP) and high infrared sensitivity. The integrated day/night function is controlled by the automatically swiveling IR cut filter. On-screen programming and 4 adjustable privacy zones are further highlights. An optional wall bracket (ED WMA) is also available. The 1/4" day/night camera EQ 2700 with 27x motorzoom lens is now available with RS-485 interface for remote control through an RS-485 control device, e.g. the multi-function keyboard EKB 500.
www.everfocus.de

Increasing CCTV System Reliability

Communication Networks of Danbury, Connecticut, doing business as Comnet, has introduced a revolutionary new fiber optic video product line that can seamlessly restore a CCTV network. The company's SHR line consists of the FVTFVR 1010 SHR single channel with data series, the FVT/FVR 4014 SHR series four video channels with four data channels and FVT/FVR 8018 SHR series eight video channels with eight data channels. All models are digital fiber optic video transmitters and receivers with bi-directional data that incorporate a unique self-healing feature. In the event of a broken fiber connection the video and data transmission is seamlessly re-routed when the system is configured in a ring topology.
www.comnet.net

World's First 37 x Optical Zoom Dome Camera

The Samsung Techwin SPD-3750T PTZ dome camera incorporates the world's first 37 x optical zoom lens as well as an automatic tracking function. These two powerful features combined equip the SPD-3750T to track subjects and zoom in on them for evidence gathering purposes without any operator intervention. Ideal for applications such as shopping centres, car parks and public space projects. the SPD-3750T features 128 x wide dynamic range, digital image stabilization and Samsung Techwin's highly acclaimed SSNRII 3D noise reduction technology. Together with the 37 x optical zoom capability, these advanced features can deliver high quality colour images of far away objects at 550 TV lines, even when lighting levels are as low as 0.7 lux.
www.samsung.com

NVR for Large-scale Operations

Verint's Nextiva EdgeVR is an enterprise-class, IP-based Network Video Recorder designed for large-scale, geographically distributed operations. Available with hybrid IP/analog capabilities, this true IP video solution more readily scales to IP video operations than analog-based, hybrid NVRs, for greater long-term value and lower migration costs. Features include high-quality imagery, optimized bandwidth utilization, a secure embedded operating system, and industry-leading system interfaces. The system delivers high-resolution images for both recording and live video viewing. Built with a powerful H.264 video compression engine, it provides superior video quality at significantly lower bit rates, reducing storage and bandwidth requirements. Available with a hybrid analog/IP video option, the NVR can support up to 32 IP and analog video cameras.
www.verint.com

8-channel DVR

Everfocus' MPEG-4 digital video recorder ECOR 8 is now available. It is based on MPEG-4 compression technology and offers both enhanced recording capacity and improved network image transmission speed with high image quality. Comprehensive features and extended recording settings enable the almost universal application of this DVR. With the intuitive graphic user interface (GUI), users can command specific actions on the DVR through graphical icons and visual indicators. All GUI functions can be operated by multiple control inputs including mouse control, front panel control, IR remote control and control through the Everfocus keyboard EKB 500 (optional). Thanks to Pentaplex control, live monitoring, recording, playback, archiving and remote viewing can be operated simultaneously. The DVR series includes several models optionally equipped with audio function and/or built-in DVD-RW drive. All models feature real-time recording and playback with up to 200 IPS.
www.everfocus.de

Biometric Keypad

Napco recently added its first indoor/outdoor biometric keypad to its line of Gemini products. With the touch of a finger, end-users can integrate the "Bioreader" keypad with most brands of alarm panels with a keyswitch or use it for standalone alarm and garage door access control. The keypad works with all Gemini and Express security systems (3 and 4-wire bus) and operates electric garage doors and lighting systems with ease. Users can arm/disarm the system and/or activate relay groups with the touch of a button and never have to worry again about losing their keys or memorizing complicated codes. The company's optical biometric fingerprint reader eliminates code pass-along and ensures reliable use by those considered hard to print, such as consumers whose fingerprints are worn out such as manual laborers, elderly, etc.
www.napcosecurity.com

Intrusion Control Panels

The Modular Alarm Platform 5000 secures a site using high-performance and cost-efficient technology. Whether light control, guard tours, access control or intrusion systems: everything can be operated from a single location. The multilingual color touch screen display can be configured quickly and can be installed anywhere. The high flexibility of the system, allows a combination of internal and external network buses. Thanks to the open interfaces, it is possible to integrate the Modular Alarm Platform 5000 into other security and building management systems. The Modular Alarm Platform 5000 also complies with the German VdS Class C safety standards.
www.bosch.com

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EVACUATION

Emergency Evacuation

In the event of an emergency, employers and building managers have a legal responsibility for the safe and swift evacuation of every person in the building; this will include employees, visitors, contractors etc. Regular fire evacuation drills are of paramount importance to ensure employees can follow the evacuation procedure and any potential issues with the procedure can be highlighted and addressed.

All emergency evacuation plans should ensure that people with mobility impairment either visible (e.g. wheelchair users) or hidden (e.g. asthma sufferers, back injuries, arthritis, heart conditions) are able to evacuate the building at the same time as other occupants. If some people are left in a refuge area while the rest of the building is being evacuated, the evacuation plan must have a procedure to transfer them from the refuge area to safety without relying on fire brigade intervention. Since its introduction in 1982, Evac+Chair has become the market leader with thousands of chairs installed in offices, hotels, shops around the world. The Evac+Chair is a lightweight, foldable type of wheelchair which requires one operator. The secret of how it works is the endless friction belting system which rotates around two ski type undercarriages, creating the continuous braking system required to slow the descent of the chair. The heavier the patient the greater the force on the „brakes", thus slowing the chair in proportion to the weight of the passenger. The Evac+Chair is designed to work on straight stairs between 280 and 390 gradient. It is CE compliant under the Medical Devices Directive and also independently tested by TUV. At the A+A show in Dusseldorf, the Evac+Chair will be presented at the stand of ESE International in hall 6 at stand A45.

▶ CONTACT BusinessPartner

ESE International
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info@evacchair.co.uk · www.evacchair.net

Aspirating Smoke Detector

Bosch Security Systems is extending its 420 Series Aspirating Smoke Detectors with a version offering very early detection and localization of fires. The Aspirating Smoke Detector TM features "Room-Ident". This feature enables individual identification of up to five rooms and quickly tracks down the source of a fire in four phases, displaying the result both on the unit itself and on the company's Modular Fire Panel 5000 Series. The new version also features a ten-digit bar graph for monitoring smoke pollution. The detector unit is capable of protecting areas of up to 400 square meters even under challenging environmental conditions. Potential application areas include hotels, small server rooms and small high-rise warehouses.
www.boschsecurity.com

Stainless Steel Enclosure

C-Tec's latest addition to its Sigtel disabled refuge range is a stylish state-of-the-art stainless steel anti-tamper enclosure. Elegantly designed to add a touch of glamour to the interior of any building, the BF359/3 brushed stainless steel enclosure has been specifically manufactured to enhance the appearance and safeguard ECU-8 disabled refuge controllers to ensure that they remain fully operational at all times. The enclosure requires one of two lock kits – the BF359/3CL cam lock kit or the BF359/3SL electromagnetic solenoid kit, the latter of which can be configured using third-party equipment to unlock the enclosure door when the system is active.
www.c-tec.co.uk

BusinessPartner

Distance Is the Crucial Point

The Berlin robotics company Robowatch develops systems and vehicles that warn people in risky situations and protect them from dangers in due time. By order of the Shanghai Fire Brigade, for example, a robotic fire engine has been developed on the basis of the eight-wheel Chrysor. The vehicle can go even in difficult areas without a driver in an autonomic and remote-controlled manner. Thus, it can enter hazardous fire areas in order to exactly position water guns and foam extinguishers. At the same time, the firemen are supplied in a safe distance with real-time data produced by infrared cameras as well as significant information from the on-board sensor system (chemical/toxic data) to enable them to properly plan their situational assignment. The vehicle itself is equipped with a special splinter shield and heat protection to withstand the extreme conditions in such dangerous situations.
www.robowatch.de

European Standard for Security Smoke Devices Welcomed

The British Security Industry Association has welcomed the publication of the new European Standard for security smoke devices – EN50131-8. The new standard started life as a BSIA code of practice and was then developed into a British Standard before progressing to Europe. The BSIA has led the way in the development of the standard throughout its transition. Alex Carmichael, BSIA Technical Director, comments: "Developing standards is essential to ensuring the supply of high quality products to the market. The Association has been at the forefront of developing this standard from its beginnings as a BSIA code of practice. Now thanks to the publication of this European Standard, Britain has led the way in raising standards right the way across Europe, an achievement from which both the industry and its customers will benefit."
www.bsia.co.uk

When false alarms are worse than inconvenient

DISCOVERY

Discovery is a high specification fire detector designed to work in a wide range of environments and keep false alarms to a minimum.

- uniquely, all five sensitivity modes have been approved to meet the requirements of EN54
- filters out transient high levels of smoke or heat
- compensates for sensor drift

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WORLD CLASS FIRE SOLUTIONS

FIRE DETECTION

Smoke Detection for Critical Areas

For certain environments standard fire detectors are not applicable. The flush-mounted smoke detector from Apollo is used in installations where it is impractical or undesirable to use a standard smoke detector. This might be for aesthetic reasons where an architect specifies unobtrusive fire detection or it might be for reasons of safety where a standard fire detector might be viewed as a hazard – for example, in a prison cell.

The flush-mounted smoke detector is fitted into a hole in the ceiling so that only the plastic cover plate is visible. It operates on the light scatter principle but the light beam is transmitted through the cover plate where it is scattered by any smoke that is close to it. The light that is scattered is registered by the receiver in the detector which will change to the alarm state after confirmation of the presence of smoke.

The flush-mounted smoke detector carries out a permanent check of the contamination on the cover plate by means of additional light-emitting and sensing components. It is able to gauge the degree of contamination present and send a fault signal in the event that it is too dirty to function normally. The detector is able to perform a self test where a dedicated control emitter and a dedicated control receiver are used to check the proper functioning of the detector.

For applications like in prison cells a version with a protective steel plate is available.

►CONTACT

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rowland.davies@apollo-fire.co.uk
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A Portable Single-Gas Detector with Data Logger

The Micro IV single-gas detector is the successor to the proven Micro III. The key features of the previous model have been retained, and there is now some impressive added functionality.

The Micro series utilizes smart, interchangeable sensor technology and also ensures low cost of ownership by operating continually on just one AA battery for up to six months. The Micro IV contains an integrated data-logger which records and time-stamps all events. This stored data can be transmitted to a PC via either the DI220 data interface station or the DS220 docking station. Three alarm levels are available (most competing instruments only offer two) in addition to STEL and TWA alarms.

The Micro IV has a very loud (95 dB) sounder and high-visibility red LED alarms. A vibration alarm is also available as an option. The large display ensures that gas concentrations can be quickly and easily read by the user. The single gases which can be detected are O_2, H_2S, CO, NO, NH_3, HCN, HCl, SO_2, H_2, C_2H_4O, SiH_4, PH_3, THT, HF, $COCl_2$, NO_2, Cl_2, O_3 and ClO_2.

Working In Real-Time

The new additional functionality of the new Micro IV includes data-logging, and an infrared interface for data communication to docking stations. There is now continuous storage of data without a PC and also a continuous display of gas concentration. As an option, there is a simple bump check and calibration via the docking station. Although the Micro IV is compact and light, it can optionally be securely fastened to the user's clothing with a durable crocodile clip. A belt clip is also available. A rubber boot can be fitted to give the instrument further protection in arduous work environments if necessary.

Well Equipped

The list of accessories includes a motorized pump to take samples in inaccessible areas such as tanks and containers that can contain deadly gas mixtures. With the Micro IV, a high-performance pump can be quickly and easily attached that can sample the gas from up to 30 meters away. The pump has its own power supply, which means the run time of the Micro IV instrument is not compromised. The separate AA battery pack gives 8 hours of continuous pump operation. The innovative DS220 docking station is a complete device management system that saves the user costs and time by performing functional tests (bump tests), calibration and documentation in one device. It is compact and portable and does not require a PC to operate.

Permanent Record

When inserted into the DS200, the detector is automatically bump checked. Alarm functions and sensor response are tested to ensure correct operation. Calibration reports can be printed out via a PC if required. The data is transferred from the detector to the DS200 via IR link and all data is recorded on a memory card. Back in the office, it can then be transferred to PC via a USB cable and evaluated directly in Excel.

The DS200 uses simple traffic-light indicators to show the user the detector status – green means go, yellow means that testing is in progress and red means that the test has failed. The device will ensure that detectors are in a safe condition and always ready to go.

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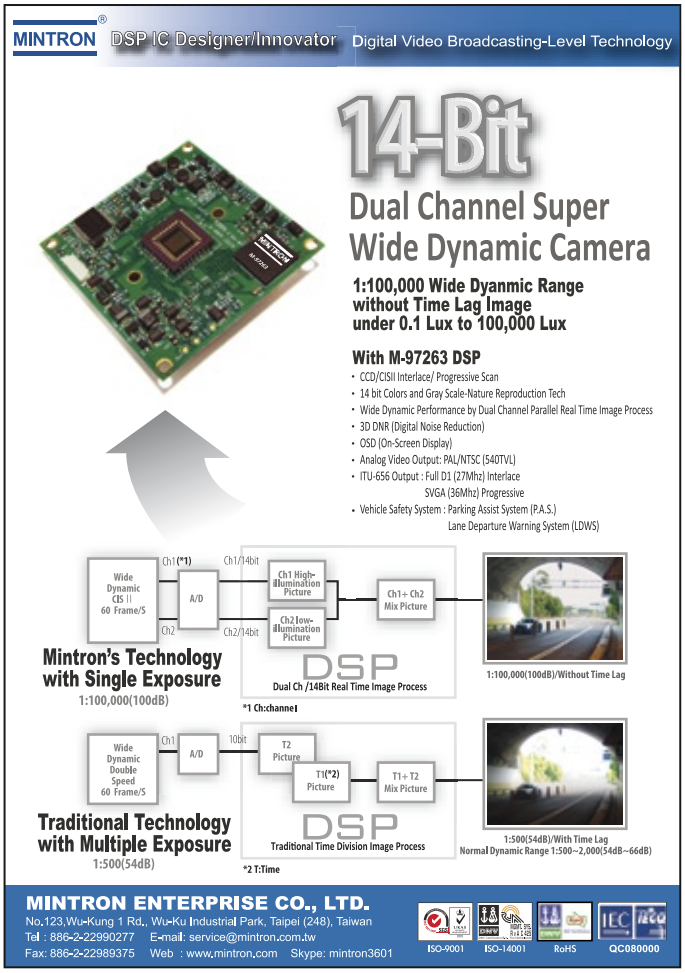

GAS DETECTION

Sniffing Out Gases

Safety through the Early Recognition of Operational Malfunctions

With ever more improved sensors, modern detection technology for flammable and hazardous gases enables the design of highly reliable gas detection systems. The foundation for planning any system is well-considered matching of the components, which are based on various technologies, to specific local conditions.

Gases are usually invisible to the unaided eye, and are often odorless. Still, they need not pose an invisible hazard to people or the environment, thanks to advanced gas detection technology that uses stationary as well as mobile solutions. Such systems offer a variety of possibilities for the measurement of flammable and hazardous gases in the atmosphere; they are applied to ensure employee health and safety in the workplace and in the prevention of incidents. To these ends, gas detection systems have established themselves as central elements of safety concepts in fields ranging from the chemical industry to mining. The high level of modern gas detection technology is illustrated by the multitude of techniques currently in use: electrochemical sensors and catalytic bead sensors are employed, along with infrared technology in point sensors and open path sensors, flame detectors, ultrasonic sensors, and gas cameras. New developments extend existing system capabilities, explains Gero Sagasser, Gas Detection Systems Portfolio Manager at Dräger. Continuous innovation has led to a differentiation of the available solutions, permitting very precise matching of measuring technology to the requirements at hand.

Gas Detection Systems Reduce the Risk

In operations that handle hazardous (in the sense of the European Seveso Directive) substances, gas detection systems play an especially important role. Such companies are obligated to evaluate the hazard potential of their production facilities, identify specific hazard areas, and evaluate the relationship of hazards to protection objectives. The resulting scenarios are based on the maximum possible release of a hazardous material. As a result of such planning, safety measures are defined and an integrated safety concept is developed. In Germany, the basis for this regulation is the Federal Immission Control

Act ("Bundes-Immissionsschutz- Gesetz") and the resulting 12th Ordinance for the Implementation of the Federal Immission Control Act (12. BImSchV, the Major Accidents Ordinance). The economic significance of a gas detection system has been increased by the implementation of EC Directive 2004/35/EC, "Environmental Liability with Regard to the Prevention and Remedying of Environmental Damage" of May 10, 2007, implemented in Germany as the Environmental Damages Act – theUmweltschadensgesetz, or UschadG.

According to this directive, the operators of an installation are liable for damages resulting from incidents. Along with information regarding dangers or the occurrence of environmental damage, the law requires measures to prevent and limit damage, as well as its remediation. Application of a modern gas detection system reduces the risk of hazardous incidents as well as their consequences; accordingly, investment in measurement technology can be applied as an argument with insurers.

More than half of all incidents in chemical engineering installations are attributable to the release of materials. These are usually triggered by technical defects (35%) and operating errors (30%). Uncontrolled chemical reactions occur in only about 20% of recorded cases. Most incidents occur during production processes (45%), more rarely in storage (15%) and other processing stages. A typical incident that may be prevented by a gas detection system is the release of flammable or hazardous (toxic) gases. Critical points within the facility, where the release of gases could occur, include all types of storage vessels, including valves and pipes, as well as machinery and pumps. Dynamic loading as a result of temperature and pressure variations, corrosion, and material fatigue are important factors that may lead to leakage. Joints and seals as well as filling and tapping points deserve special attention. In addition, technical leakage must be considered, in which material is deliberately released by means of valves, rupture diaphragms, and overflows to prevent the progression of a malfunction.

Gas Dispersion

Not every release of chemicals counts as a hazardous incident. First among these is the category "unavoidable operational malfunction," which is in turn exceeded by the "major accident despite precautions" and ultimately by the "exceptional accident," which exceeds all previous experience and calculations. It is at the stage between "operational malfunction" and "hazardous incident" that gas detection technology offers the greatest opportunity: it can make a significant contribution to very early recognition of a malfunction. This provides sufficient time for intervention by automatic emergency systems and targeted countermeasures.

To ensure that a gas detection system is able to react quickly and precisely, its components must be carefully matched to the operating facility's particular circumstances. The placement of detectors is determined, among other things, by the physical and chemical properties of the substance to be measured, assumption of the most likely leakage points, as well as the location's constructional, geographical, and meteorological conditions. The bandwidth of these data corresponds to the range of available measurement methods, based on various technologies, to enable point, line, and sector measurement using sensors of various designs. The targeted matching of a gas detection system to the specific conditions at a production facility is therefore the primary objective of any plan. The public takes particular note of incidents in which dangerous substances are released. In this form of release, gases form a cloud around the free jet exiting from the point of leakage. The edge of the cloud is a turbulent boundary zone. The expansion of the cloud is determined by the physical and chemical properties of the released substance, process-related factors such as gas release velocity and the temperature of the immediate surrounding area, and more distant climatological, geographical, and structural conditions.

Once a gas has matched the temperature of its surroundings, it may be classified on the basis of its density relative to the density of air, as a light, heavy or neutral gas. Accordingly, the gas cloud will rise in the air (light gas), spread along the ground (heavy gas), or be entirely at the mercy of the wind (neutral gas). However, a gas often behaves differently from these general patterns immediately after its release, because its process temperature is often very different from ambient temperature. Besides gaseous escaping chemicals at slight overpressures, liquids, gases liquefied by means of pressure or temperature all of them may be the source of gas clouds. The most common of these are gases liquefied by means of pressure — often far in excess of 50 bars. Upon release, part of the liquid evaporates immediately (so-called flash evaporation); the remainder forms an aerosol and a boiling pool of liquid.

The extreme increase in gas volume as a result of the flash evaporation is especially dangerous, as it leads to the expansion of the dangerous substance at a high concentration over a large volume. As in the case of gases liquefied by cooling, at first a heavy gas cloud is formed as the liquid warms up to the boiling temperature, which is below the ambient temperature. Just as clouds of different flammable and hazardous gases differ in their behavior, so too there are distinct differences between gas detection in confined spaces and in the open air. The conditions for the formation of gas clouds in interior spaces are similar to those in open air, but a cloud behaves quite differently in an enclosed space. In such cases, factors such as architecture, convective flows, and active ventilation determine the spread of the gas. Pools of heavy gases are especially dangerous, as they can form on the floors of enclosed spaces such as cellars and tanks.

Stationary gas detection systems reduce the risk of hazardous incidents.

Detailed System Planning

The prediction of the gas dispersion and most likely behaviour based on the above Considerations forms the basis for planning a sophisticated stationary gas detection system. Above all, a system consisting of arrays of single-gas point sensors is based on detailed system planning, which can be assisted by computer simulations. In the event of an operational malfunction or a hazardous incident, such a system also provides emergency services personnel with important clues to guide their tactical approach, makes it possible to warn the general public in timely fashion, and enables the implementation of safeguards for personal protection.

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AIRPORT SECURITY

Maximum Security at All Times

Both internal and external security measures form an essential part of functioning company processes. At an airport it is essential to guide customers in a way that everything runs smooth and on the other hand one has to avoid the danger of access by unauthorised persons. In addition, the possibility of sabotage and economic crime increases. Wanzl entrance, guidance and access control systems provide maximum protection and control and allow access to authorised persons.

Manage And Guide

Security is a key aspect for airports in particular: Wanzl offers elegant and technically perfect solutions for entry and exit points and for barriers in terminals. Fully automatic entrance systems, swing gates, emergency exits and turnstile systems regulate and guide the flow of passengers safely and reliably. One example of a Wanzl guidance system in operation is at Frankfurt airport: here, Technoport systems ensure that passengers reach their destination safely and fast.

Security With Advanced Design

The Wanzl turnstile Sirio guarantees secure access in combination with advanced design and technology. The elegant model with a closed stainless steel housing adapts perfectly to the architecturally sophisticated surroundings at airports. It manages access to sensitive zones reliably: only persons with access authorisation can pass through the turnstile. Wanzl offers the Sirio model as a mechanical or as a motor-driven variant. For motor-driven variants, it is possible to choose from a two- or three-arm pivotal centre, depending on customer-specific requirements. Optionally Sirio can be delivered with an anti-panic feature, releasing the route to the exit in case of an emergency. The two-arm open-gate variant offers permanent free access, the pivotal arm is activated by sensors only if unauthorised persons pass through and it then closes in the passing direction. In all Sirio variants, the pivotal-arm control can be programmed individually. It ensures that only single persons can pass and at the same time guarantees a high throughput of persons. The operating panel offers the option of simultaneously managing two turnstiles. Any necessary inputs can be input immediately. The integrated display provides information about the respective operating conditions and shows error or warning messages, for example. It is possible to flexibly choose between different turnstile release options, e.g. from an integrated card reader through to a ticketing system. The turnstile can be optionally integrated in complete facility security concepts. In this case, Wanzl offers practical additional equipment and further solutions from its product range for protection of inside and outside areas.

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Electric Cars Tested at Frankfurt Airport

Frankfurt Airport commenced comprehensive testing of the Mitsubishi i-MIEV (Mitsubishi innovative Electric Vehicle), the first electric vehicle ready for mass production in Europe. The company's director for Germany, Martin van Vugt, and Silke Lautenschläger, Hessen's minister for environment, energy, agriculture and consumer protection, handed over two cars to Fraport's executive board vice-chairman Dr. Stefan Schulte for the first major practical testing of this electric car in Germany. Dr. Schulte emphasized that the road testing at the airport was another milestone in the implementation of Fraport's sustainability strategy.
www.fraport.com

IP Video Network Video Recorders

Indigovision presents a new range of high-performance standalone Network Video Recorders (NVRs) for its complete end-to-end IP Video solution. The NVR-AS 3000 range has more than double the performance of the company's existing models and has very good green credentials with extremely low power consumption. Each NVR can record video and audio from up to 64 cameras and playback up to 20 video streams at full frame rate simultaneously. Several models are available with different storage capacities from either integrated fixed disks or hot-swappable removable drives. All the NVRs use the latest hard drive technology from Seagate, with disks that have been developed for continuous video surveillance recording. Each disk drive has a 5-year warranty.
www.indigovision.com

Colour-stable Video Wall

Barco has announced its new series of LED-lit rear-projection video wall displays. With the development of the full HD (1920 x 1080) LED-based video wall system, the company builds on many years of experience with LED displays. Next to the obvious benefits of LED-based rear-projection technology, such as low maintenance and saturated colors, the company's OL video wall series also features the unique Sense 6 color calibration and stabilization technology, which makes the video wall systems truly ready for 24/7 use.
www.barco.com

Pelco IP Video System to Protect Turkish Airport

Pelco Management announced that Istanbul Sabiha Gokcen International Airport has chosen the Pelco Endura 2.0 IP video system. The system will have more than 1,300 cameras, of which approximately 900 are Sarix megapixel cameras. About 60 NSM5200 Series Network Storage Managers will be used for recording. The company's experience in city surveillance and highway traffic management in Turkey served as important references. "Keys to this win are Endura 2.0's failover recording and Raid 6 disk management, and the auto back focus capability in our Sarix cameras," says Yusuf Ziya Oncel, Pelco Project Sales Manager. "Our dealer Corvus was confident in recommending Endura, based on its high performance and recording quality, as well as the support and customer service Corvus enjoys from Pelco."
www.pelco.com

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AIRPORT SECURITY

What Is in Pandora's Box

Non-invasive Detection of Illicit and Dangerous Substances

In the present-day high security environment, there is a need for a clear assessment of vulnerabilities in order to strengthen protection against terrorist threats that include explosive, chemical, radiological and nuclear attacks (NRCE). The most effective prevention against such attacks is detection and identification of the threat before it activates. To meet this challenge, Sodern develops innovative solutions based on advanced neutron technology that can assist security forces in detecting and identifying NRCE threats.

Sodern, a leading manufacturer of state-of-the-art neutron tubes for several decades, has developed a cutting edge "associated particle" (API) tube, created specifically to meet the demanding requirements of homeland security. Neutron tubes have been relied on for many years in systems that use neutrons to scan materials to determine their composition. Based upon the gamma rays produced by the interaction with neutrons, these systems accurately determine the material's chemistry.

The API tube uniquely enhances this technology by adding the capability to determine the location of where different chemistries exist within the material analyzed, a key requirement in security applications. This is possible thanks to the tube's directional information from the associated particle detector coupled with the time-of-flight measurement of the neutrons. API makes it possible to automatically determine the hazard level and location of an unidentified object that is, for instance, deliberately concealed in a package with other material surrounding it.

Versatile Neutrons

Sodern has spent several years developing detection instrumentation products for countering dangerous or illicit materials such as explosives or narcotics concealed in baggage or buried subsurface, such as mines or chemical weapons, by using a neutron interrogation technology. This offers an important step forward beyond the security products commonly employed everywhere today, such as X-ray based devices. This technology is highly reliable and accurate, and will help to face new threats that include liquid explosives and chemical toxins.

The company has a number of products that address specific threats. The Unattended Luggage Inspection System is a man-portable system packed in a compact case that specializes in detecting explosives, hazardous materials such as explosives, toxic chemicals or illicit materials like drugs which could be hidden in suspect luggage. The case contains the neutron and X-Ray emission system, the gamma ray detectors, an electronics module, a high-voltage power supply and a video camera. The case is connected to a distant laptop through an ethernet cable so that the ULIS case can be placed next to the suspect object and activated from a safe distance of between 10m and 30 m. The battery-powered system is used typically by inspectors and bomb squads in airports, subways, trains, railway stations or in public areas.

By Land, Sea or Air

To discover attempts to transport materials by road, the Euritrack system consists of a complete European illicit trafficking countermeasures kit. It has been created to fortify the security of seaports and detects hidden explosives or other hazardous material in shipping containers, employing an effective non-intrusive technology. A performance assessment of the Euritrack demonstrator is currently underway by the CEA (French Atomic Energy Commission).

Smuggling explosives into aircraft has been a problem for decades and is effectively countered by the INES system which employs neutron imaging for the detection of explosives in cargo holds, luggage for baggage compartments or storage rooms. Developed to strengthen airport security, its first demonstration was successfully carried out in May 2008 on real explosives, witnessed by the CEA and the DGAC (French Civil Aviation Agency).

All too often, dangerous chemicals are transported either illegally or without suitable protection. The Neutron Induced Prompt Photometer System was designed as a non-intrusive and transportable system dedicated to the detection and identification of toxic chemicals. Today, NIPPS is a product that is relied upon by the OPCW (Organization for the Prohibition of Chemical Weapons). It features a DD neutron tube that does not contain any tritium, which simplifies transport regulatory requirements.

Sodern has been working with the DGA (French Defense Procurement Agency) in the field of landmine detection since the late 80's. A successful field demonstration of a prototype system was completed in 2004. A second demonstrator was delivered in 2006, integrated into a dedicated vehicle specifically designed for land mine detection by Rheinmetall Landsysteme in collaboration with German BWB and French DGA for the Sydera project.

Microscopically Large Development

A 90% subsidiary of EADS Astrium, Sodern has been a source of solutions based on innovation since its inception. Two of its early technical challenges helped it acquire a solid technical base for its present-day core technologies. These were, firstly, the design of neutron sources for French strategic weapons and, secondly, the design and manufacture of some of the first sensors embedded on European satellites. Over the years, Sodern has continued to develop and evolve its cutting edge expertise using facilities that today cover over 10,000m², more than half of which are laboratories and clean rooms.

The company's products today are found in competitive markets worldwide, with a wide range of applications ranging from extremely small neutrons to the infinitely large in outer space. In order to maintain its leading edge and competitiveness, the approx. 300 Sodern employees are constantly advancing their innovation and technology to higher levels, while at the same time applying total quality management to their products and organizing themselves to be responsive to their customers.

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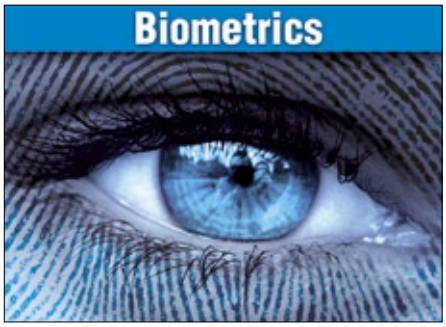

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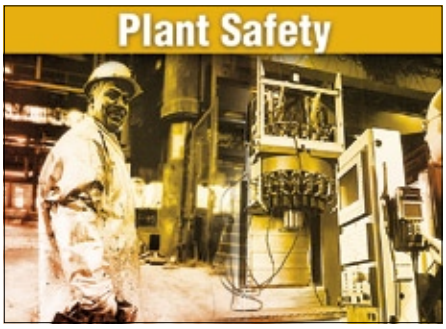

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