

Volume 9  
September 2013

**GIT**

EMEA Edition

# SECURITY

MAGAZINE FOR SAFETY AND SECURITY

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Personal Protection

Visual Alarm Devices

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Video Management for Matterhorn  
Gotthard Bahn

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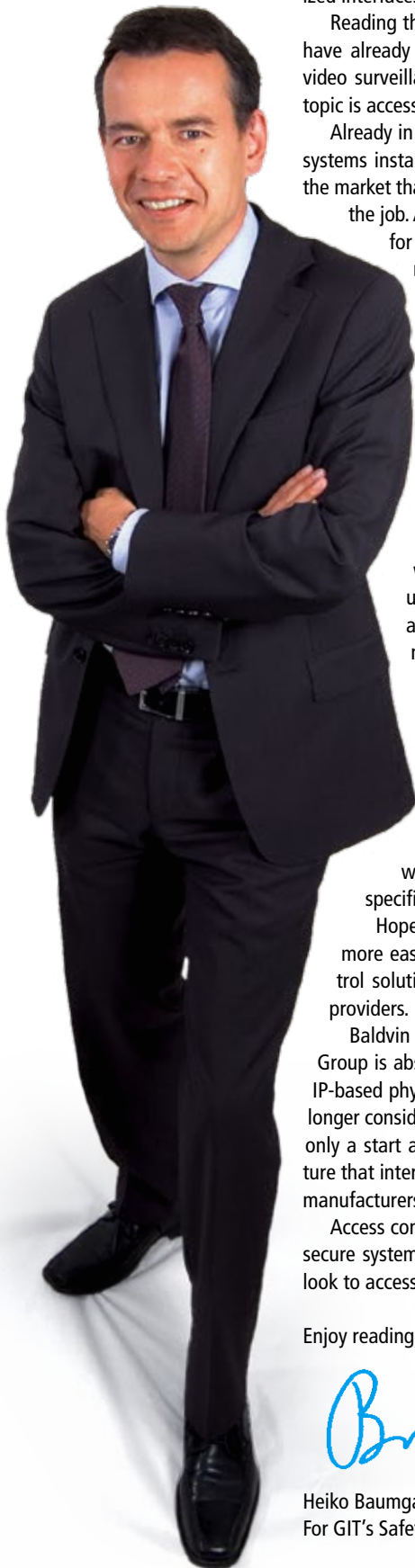


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FOR A GOOD REASON  
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# Access **the Future**



The move from analog systems to IP networks. Easy integration of devices from different manufactures into one security system. Standardized interfaces for better connectivity. Interoperability as a commodity.

Reading these lines, some of you may start to get bored since they have already read tons of articles about the latest developments in video surveillance. But I am not talking about video surveillance, my topic is access control.

Already in the past one could find great and modern access control systems installed all over the world. There are very solid products on the market that are more or less unchanged since decades. They still do the job. And there are clever solutions using the latest technology for almost any access control challenge. The access control market is a conservative market where it takes years before new product ideas conquer the market. It works if the product idea is strong enough. Off-line door systems are just one example. NFC systems probably will be the next.

Yes, we have up-to-date access control technology in the market. A look at the products nominated for GIT SECURITY Award in this issue clearly shows this. But some elements are still missing until we really can talk about the topics mentioned in my introduction.

Integration of most access control elements into networked systems is more a nightmare than plug and play unless you buy everything from one vendor or you are an absolute integration expert. Proprietary products dominate the market. But there is movement in the market that will change the game.

ONVIF, the leading global standardization initiative just recently announced the availability of the release candidate for Profile C, which enables interoperability between clients and devices of physical access control systems and network-based video systems. The new profile, which is available for review on the ONVIF website, extends the functionality of the global interface specification into physical access control.

Hopefully this is a first step to enable systems integrators to more easily deploy an integrated IP-based video and access control solution from a variety of different video and access control providers.

Baldvin Gislason Bern, Chairman of ONVIF's Profile C Working Group is absolutely right when he states that, "Integration between IP-based physical access control systems and video surveillance is no longer considered a luxury in today's market". Let us all hope, that this only a start and that we see more access control products in the future that interact without relying on complicated integrations between manufacturers.

Access control devices that work with the latest technology, enable secure systems and communicate with each other. What a great outlook to access the future.

Enjoy reading this issue!

Heiko Baumgartner  
For GIT's Safety and Security team

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# NO PATCHWORK!

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### OCS and Wavesight Deliver CCTV Network

OCS has been selected by Lincolnshire Council to supply, install, commission and deploy the communication infrastructure in a major fiber-to-wireless switch-out and IP camera upgrade in the area of Boston. In its tender, the council challenged the industry to come up with a solution capable of meeting a broad set of requirements that would effectively reduce its overall Opex costs over the lifetime of the contract. Wavesight, in conjunction with OCS Security Services, recommended the overall solution, which is due to be installed in three phases and will be achieved using 103 license-exempt Wavesight wireless radios, 61 Panasonic IP CCTV cameras, and a series of Panasonic



NVRs. At the core of the infrastructure are three town-center buildings (Pilgrim Hospital, Assembly Rooms and the Town Hall), connected in a ring using Wavemax-N wireless IP transceivers.

[www.wavesight.com](http://www.wavesight.com)

### HSM Relaunches Website

The newly designed website from HSM is available in seven languages. Simplifying navigation throughout the product ranges was one of the main focuses of the relaunch. These are now arranged according to function under shredding, cutting or pressing, simplifying navigation. The product range now has a fully integrated product finder for document shredders. The user will also find extensive information,

images, descriptive instruction videos, data sheets and operating manuals directly alongside the products. Once the user has found a document shredder, he can proceed to the purchasing procedure directly using the "Commerce Connector" e-commerce tool. The tool is in use for Germany, Austria, the Netherlands, Great Britain and Northern Ireland. [www.hsm.eu](http://www.hsm.eu)

### Moxa Receives Aon Hewitt's Best Employer 2013 Award

Aon Hewitt announced that Moxa has received its Best Employer 2013 award for Taiwan. Other recipients of the award in Taiwan include Chailease, American Express International, Fedex Express, and Schneider Electric. Michael Lin, President of the Moxa Group Executive Board's Global Infrastructure unit and a long-time company

leader, accepted the award on behalf of JE Hsu, founder and Chairman of the Board. According to Michael Lin "Moxa is a company owned by our people. Our employees are at the center of everything that we do, and we care about the long-term development of their talents and careers."

[www.moxa.com](http://www.moxa.com)

### HIS: Axis Market-leading in Network Cameras and Video Encoders

Axis Communications has announced that the Company has remained "its global market-leading position in network cameras and security cameras and has also taken first place in video encoders". This is shown in a report from information and analytics firm IHS. "We have further strengthened our position due to our long-term strategy of continuous releases of innovative network video products and the fact

that we offer high-quality security solutions in a global market in conjunction with our loyal partners," says Ray Mauritsson, the Company's President. "IHS estimates continued high market growth, however, slightly lower than previously, over the next five years. IHS also indicates the market today is more fragmented, with many vendors offering network video products for security solutions." [www.axis.com](http://www.axis.com)

### Onvif: RFQ for Updated Test Specification

Onvif has issued a public Request for Quotations to update the existing Test Specification and Test Tool for the group's global standard for the interface of IP-based physical security products. The organization's Device Test Tool is used by its members to test conformance of IP-based physical security products with the Onvif Test Specification. The RFQ will include the release of an updated version of the Device Test Tool and Test Specification for Profile S, which encompasses the

common functionalities shared by Onvif conformant video management systems and devices such as IP cameras or encoders that send, configure, request or control the streaming of media data over an IP network. Also included in the RFQ is continued development for conformance of Profile G, which oversees storage, searching, retrieval and playback of media on devices or clients that support recording capabilities and on-board storage.

[www.onvif.org](http://www.onvif.org)

### Digital Video Recording Technology with Northern Rail

With the objective of improving the playback image quality of video captured by all the cameras installed at a station and at a higher frame whilst maintaining the ability to store the recorded video for up to 31 days, Northern Rail in England has recently installed two 16-channel Samsung Techwin SRD-1673D DVRs with 4TB on-board storage at Horwich Station, Lancashire. Each unit can record 650TVL in real time across all 16 channels and, with a HDMI main monitor video output,

images in a 16-way split-screen can each be displayed at 480x270 resolution. Network bandwidth of up to 32Mbps ensures no 'jitter' or distortion in the display of video transmitted over a network. The two SRD-1673D DVRs are recording images captured by Samsung's SCB-3000 day/night cameras with intelligent video analytics and wide dynamic range technology, coping with situations where there are strong contrasting lighting conditions.

[STSecurity@samsung.com](mailto:STSecurity@samsung.com)

### Hikvision at Dubai's Grosvenor House

One of the world's largest man-made marinas, the Dubai Marina in the United Arab Emirates sits on some of the most prime commercial real estate in the UAE. Prominently located among this cluster is the Grosvenor House Dubai – the first luxury hotel built in the Dubai Marina. The Grosvenor House consists of two 45-story towers, encompassing 749 rooms, suites, and apartments. Furthermore, these towers also include a wealth of exclusive bars, restaurants, and spas, as well as spacious meeting and banqueting facilities. Mohamed Kasim, Manager of Security Solutions at HCL Infosystems MEA. (the Dubai-based integrator for this project), chose Hikvision for this project. The lighting condition in the main entrance area proved especially noteworthy. As such, Kasim chose the manufacturer's DS-2CD764FWD-EI 1.3MP WDR Dome Camera to overcome these potential pitfalls. Along with the main southern exit, as well as the hotel's auxiliary exits, the camera is required to face di-



rectly outside to accurately identify incoming and outgoing customers. As such, this dome camera faces the brunt of direct sunlight in the day and near total darkness in the evening. However, the camera's 1.3 mega-pixels (1,280 x 960) of high resolution provide the quality of image and 120dB wide dynamic range provides the technology to overcome these issues with flying colors. [www.hikvision.com](http://www.hikvision.com)

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### PPG Distributor Ezi Security Wins with Elkosta M50 Bollard

During the July Security 2013 Exhibition at the Sydney Convention & Exhibition Center, Australia, the winners of the prestigious New Product of the Year Award included PPG's Australian distributor, Ezi Security Systems who won first place with the hydraulic M50 bollard. Early in 2013 the bollard successfully passed the ASTM F2656-07 crash test at Karco Engineering in Adelanto, California. A 6.8 tonne truck impacted the bollard at a speed of 80kmh. It bollard resisted easily and reached a P2 rating. Kylie McRorie, Exhibition Manager,

said, "Winners were chosen on the basis of innovation, originality and the potential benefits the product provides to the overall security industry. This bollard was selected for its unique design and practicality." The integrated hydraulic drive unit is a new technology that minimizes the cost and labor overhead traditionally associated with bollards. The M50 can be installed anywhere a threat is deemed that has shallow foundations and needs fast operating speeds.

stephan.stephani@perimeterprotection.de

### Salto Opens New Italian Office

Salto Systems has opened an office in Bologna to support the company's growth in the Italian market. Located in a central area of the city, the focus for the office will be sales and technical support for the Italian

market, concentrating on supporting dealers and end users as well as maintaining and developing relationships with architects, security consultants, system integrators, hotels etc. [www.saltosystems.it](http://www.saltosystems.it)

### Building the Future Award



The Security Institute was chosen as this year's recipient for "The Building The Future Award 2013" at the British Security Industry Association (BSIA). The reasons for this included the development and management of the Register of Chartered Security Professionals in partnership with the Worshipful Company of Security Professionals, and providing accredited Certifi-

cate and Diploma courses in security management at levels 3 and 5 respectively. The Institute was also recognized for creating and presenting its own annual awards, such as the Wilf Knight and George Van Schalkwyk awards for academic excellence, and publishing a series of 'Good Practice Guides' for security practitioners.

di@security-institute.org.uk

### Bosch: Video Surveillance for Driverless Metro Line in Milan



The longest metro system in Italy, the Milan metro with a total length of 92 kilometers and 101 stations has a daily ridership of over one million people. To secure this important transport system, Bosch Security Systems is supporting Milan's new driverless metro line 5, which opened earlier this year, with a security solution that combines video surveillance and public address communication for managing passenger information and evacuation measures. Due to the peculiarity of the city's ancient architecture and the resultant constraints, lines of communication between the single security components needed to be

as minimally invasive as possible. This was why the decision was made to install a wireless LAN network to cover the 13 kilometers of line, along with 19 new stations, where video cameras and a public address system needed to be integrated. The main tasks of the surveillance and evacuation solution were to provide video monitoring and passenger movement control on trains and in stations. This included providing public information while guaranteeing increased passenger control and safety, as well as the management of any system alarms and diagnostics together with continuous event recording. [www.boschsecurity.com](http://www.boschsecurity.com)

### TDSi Secures Rubicon Group Holdings in Jordan

Global Entertainment Consortium, Rubicon Group Holding (RGH), is using TDSi's access control and security systems to secure its central server facility in Amman, Jordan. Locally based security installer and partner Soter Security specified and installed a Microgarde controller and two Exprox readers, supplying the manufacturer's proximity cards for authorized individuals to gain access. Rubicon Group Holding is a global transmedia company specialising in multi-platform digital production, educational content, and location-based themed entertainment. As well as securing the access to the server room, RGH also specified that it wanted to record which individuals enter and also exit the room and at what times. Soter Security therefore installed an Exprox

reader on the inside as well as outside of the secure area to keep a log of the traffic moving both ways. RGH also specified that the system be linked to the fire control system so that in the case of an emergency, the doors could be opened automatically to ensure everyone is able to exit the building. The Microgarde controller delivers a wealth of access control features and functionality. The Windows-based PC application minimizes the need for training providing users with both familiarity and confidence. With an easy-to-use interface connecting to fire and intruder alarm systems, the system also offers wider integration capabilities to other security and management systems through a simple Application Programming Interface. [www.tdsi.co.uk](http://www.tdsi.co.uk)



**Video Analytics for Car Dealership**

Xtralis announced that Secontec, a security installer in Germany, selected and installed Adpro Fasttrace 2X & i-Lids approved Intrusion Trace to protect Volkswagen and Audi dealership car lots. Several cameras are used for a variety of security applications connected to the FastTrace

2/2X with Intrusion Trace for primary detection. The system provides remote visual verification with bi-directional audio and appropriate alarm handling that secures car dealerships throughout Germany in cities such as Stuttgart, Frankfurt, Berlin, and Hamburg. The deployment of

Adpro reduced the insurance rates for the car dealerships and interrupted theft while still providing a welcoming experience for potential customers.

[www.xtralis.com](http://www.xtralis.com)

**IMS: Hikvision in Leading Position**

For the second consecutive financial year, Hikvision has held the top global position with a dominant market share of 8% of the CCTV and Video Surveillance Equipment in 2012. This is an improvement from last year's 5.9% in market share, according to a recently released report

"The World Market for CCTV and Video Surveillance Equipment – 2013 Edition", from IMS Research, now part of IHS. While maintaining its position as the world's finest DVR supplier for four consecutive years, the Company has also accomplished other notable achievements in

the fields of Network Security Cameras, rising to No.3 from last year's 4<sup>th</sup> position, and standing out by gaining 11.1% of the worldwide market share of megapixel network security cameras.

[www.hikvision.com](http://www.hikvision.com)

**BSIA Chairman's Awards**

The commitment and dedication of four industry stalwarts was recognized as this year's prestigious British Security Industry Association Chairman's Awards were presented by Association Chairman, Geoff Zeidler. The awards were presented at the Association's Annual Lunch at the London Hilton on Park Lane, in the following categories: Contribution to the Industry, Contribution to the Community, Contribution to Training and Contribution to Standards. Personally se-

lected by Geoff Zeidler, each of the winners was selected in recognition of the significant impact that their career-long contributions have had on the UK's private security industry. The Chairman's Award for Contribution to Standards was presented to Stewart Taylor of Cooper Security. The award for Contribution to Training was presented to Mike Britnell, Acting Chief Executive of Skills for Security. The Award for Contribution to the Community was presented to Owen Stanley

of Securitas Security Solutions Limited. And the highly regarded award for Contribution to the Industry recognizes those individuals who have made a career-long commitment to the ongoing success of the private security industry. This year, the award was presented to Julie Kenny CBE DL of Pyronix, the most recent Immediate Past Chair of the BSIA.

[www.bsia.com](http://www.bsia.com)

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[www.rayteccctv.com](http://www.rayteccctv.com)

### Patol Fire Detection for Colombian Coal Conveying



An automatic fire detection system from Patol has been selected to protect the main conveyer belt which handles 75% of the mining production volume at one of the world's largest thermal coal producers. The Company is supplying the detector from its Series 5000 air purged range, specifically developed to provide early warning

of fire in conveyors and transport systems through infra-red monitoring technology, importantly before a flame condition is reached. It is being installed on the coal belt conveyor BC-201 for Carbones del Cerrejón at their integrated mining and transport complex in La Guajira, northern Colombia.

[www.patol.co.uk](http://www.patol.co.uk)

### Morse Watchmans Key Control at Phoenix Airport

Key control systems from Morse Watchmans are in place at Phoenix Sky Harbor International Airport to maintain strict security procedures for the safekeeping and access of facility keys. Installed throughout the airport complex for use in all back of house operations (i.e. mechanical, fleet pool, maintenance, etc.), the various Illuminated key control cabinets enable controlled access to keys and provide forensic capabilities such as automated tracking, alarm and reporting functions. The cabinets can be used

to hold keys needed for access to secured areas of facilities that are restricted from the general public. Authorized users who have permission to enter these restricted areas can access keys which they have been pre-programmed to use by entering their PIN code and swiping a pre-issued badge. If the criteria entered matches the information stored in the system database, the key cabinet will unlock and the necessary key can be removed or returned.

[morse@morsewatchman.com](mailto:morse@morsewatchman.com)

### ONVIF Publishes Profile G

Onvif announced the Release Candidate for Profile G, the specification designed to store, search, retrieve and playback media on devices or clients that support recording capabilities and on-board storage. As with Profile S, which the organization introduced in 2012 as the standard interface to stream video and audio between conformant devices and clients, Profile G now brings video playback into the Profile concept. Having global interface specifications, with specific functionalities easily identified by Profiles, makes it easier for end users, integrators, consultants and manufacturers to harness the opportunities offered by network

video technology. Profile G will encompass devices ranging from cameras and encoders to networked video recorders (NVR) and client systems such as video management systems, building management systems and physical security information management (PSIM) systems, among others. For example, Profile G can be deployed between a PSIM solution integrating video playback from a NVR, including specific features such as starting and ending recording; searching video using various filters such as time, event or metadata; video retrieval and playback; and, on the receiver side, creating a source of IP media.

[www.onvif.org](http://www.onvif.org)

### Milan Show Ties up with South American Events



The organization of Sicurezza, the international biennial exhibition of security and fire prevention organized by Fiera Milano, is up and running. The next edition from 12–14 November 2014 will provide the starting point for discussion through conferences, workshops, and round tables on the hot subjects of intelligence, IP Security and integration. Over the coming months, event organizers have planned actions to contact new

buyers from interesting countries around the world. The particularly promising market of Brazil, where complex social and security situations abound, will be served by Exposec, an international security exhibition, from 13–15 May 2014 and FISP, the international security and personal protection trade show, from 8–10 October 2014 in Sao Paulo at the Centro de Expositoes Imigrantes Exhibition Center.

[rosy.mazzanti@fieramilano.it](mailto:rosy.mazzanti@fieramilano.it)

### Apollo Fire Detectors Hot Favourite in Cheltenham

Located at its current site since 1898, the Cheltenham Race Course is an internationally recognised racing venue. Throughout the year it welcomes more than 700,000 visitors, with numbers reaching their peak during Festival Week, the highlight of which is the Betfred Cheltenham Gold Cup. Since 2003, more than £20m has been invested in a new enclosure and additional race day facilities with The Centaur – a new conference and events centre – at the heart of this redevelopment. Part of this investment has seen Integral UK, a UK installer, upgrade the site's fire detection equipment. Tony Marsh,

National Operations Manager (Integral Fire) at Integral UK, explains: "With the grandstand suffering from ongoing faults with its legacy detection equipment and Festival Week less than three months away, we were asked to refit the main grandstand, function rooms and boxes. The system we implemented used Advance four loop panels with Apollo XP95 equipment. We work with Apollo's products on a regular basis and chose the XP95 range because it is a robust, cost effective and easy to install suite of fire detection products, ideally suited to this type of environment."

[www.apollo-fire.com](http://www.apollo-fire.com)

### Licensing Program: Vidicore and Objectvideo

Vidicore and Objectvideo announced that the video analytics embedded in Vidicore's Riva branded product portfolio are fully licensed under the Objectvideo patent licensing program. The patent license protects systems integrators, security directors and anyone who installs or uses Riva intelligent IP cameras and encoders from Vidicore. "We take a proactive approach to protecting systems

integrators and security directors who use our Riva products from intellectual property concerns," said Achim Hauschke, CEO of Vidicore. "This agreement eliminates all those concerns for our partners and gives us freedom to continue to develop new and improved video analytic features that meet our customers' business intelligence and security needs."

[www.vidicore.com](http://www.vidicore.com)

**Elmdene Appoints Business Develop Manager**

Elmdene International, subsidiary of Potter Electric Signal, announced the appointment of Hannah Broadhurst as Business Development Manager to help drive forward the company's ambitious growth plans. Hannah Broadhurst has already spent eleven years in the security sector, the last six focusing specifically on intruder products. [www.elmdene.co.uk](http://www.elmdene.co.uk)



**Bosch Partners with Seetec**

Seetec is the latest member of the Bosch Integration Partner Program which is designed to promote and enhance interoperability between Bosch products and other leading security products, applications, software or systems. Companies of any size using Seetec video management solutions can now benefit from the features of the latest of the manufacturer's IP video cameras as well as from its product range for indoor and outdoor applications. This comprises the Dinion, Autodome and Flexidome families of IP cameras, the Videojet encoders, VIP network video servers.

[www.seetec.de](http://www.seetec.de)

**Hikvision: Good Surveillance for Our Lady of Good Counsel**

In Tirana, Albania, Our Lady of Good Counsel is a Catholic university-hospital complex comprised of five buildings. Their vision is to heal the sick through research and treatment and to provide young people with an education for life. Ensuring the physical safety of patients and security of premises is of paramount importance. The existing analog surveillance cameras were not able to capture sufficient detail. Hikvision installed the DS-2CD2032-I 3MP IR bullet network cameras with a resolution of 2,048x1,526 and H.264/MJPEG compression, the DS-2CD2132-I and DS-2CD7153-E vandal-proof mini dome network cameras with day/night auto switch as well as the DS-7732NI-ST 32-channel and DS-7608NI-ST 8-channel network video recorders with VGA, HDMI and USB interfaces. The new cost-efficient system addressed all the former problems by producing real-time, high quality video and playback. Our Lady of Good Counsel can now focus on the sick and young, thus accomplishing their vision and attaining the noble purposes they set to achieve.

[hanfei@hikvision.com](mailto:hanfei@hikvision.com)

**Ocularis Integration with Elerts**

An integration between Onssi's Ocularis video management software (VMS) platform and the Elerts software solution enables security personnel to receive immediate, actionable information about incidents occurring anywhere within a facility, campus or transit system. Now any individual with a smartphone can be an active participant in maintaining a more secure environment. When an individual with

a smartphone submits an incident report using the Elerts application, the manufacturer's cloud-based software matches the GPS location of that smartphone with a database of camera field of view polygons. Information is instantly sent to Ocularis, which then automatically pushes live footage from the camera closest to the incident to a command center or other display.

[info@onssi.com](mailto:info@onssi.com)

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## URBAN SECURITY

# Integrated Safety and Security for Smart Cities

Enabling Cities to Be Safe, Competitive and Resilient

Urbanization is one of the megatrends of our time. According to the United Nations, by the year 2025 the global population will have grown to over eight billion, with significantly more than half living in major conurbations. As people, and the infrastructure required to support them, are increasingly concentrated in urban spaces, this presents a number of challenges. The safety and security of urban environments is a basic prerequisite for modern cities to thrive and prosper. However, urbanization also increases the vulnerability of cities: terrorist attacks, crime, social unrest and heightened impact of natural disasters are just some of the safety and security issues that need to be addressed. The public and private sector have to work together to find effective solutions.

Authorities are faced with managing cities that are growing rapidly and becoming increasingly complex, often developing organically to meet increased demands and changing social and economic patterns – often without any long-term strategic planning. Towering skyscrapers, packed transportation networks, multi-tenant buildings and untold thousands of people flocking to sports and entertainment venues mean that more and more people are being squeezed into ever tighter spaces. Anonymous crowds of people are ideal soft targets for criminals and terrorists, as illustrated so vividly during the recent attack in Boston. Smart city concepts, which are networked across all disciplines and where traffic, people and transportation flows can be controlled holistically, can provide a counterbalance.

In general, there is a clear correlation between the size of a city and its crime rate. The cost implications of criminal activity are significant: The World Bank has estimated that, depending on the country, the total cost of crime can be as much as 25 percent of the gross domestic product (GDP). According to estimates by

the European Commission, even in the comparatively safe EU the costs associated with crime and natural disasters account for at least 5 percent of the joint GDP.

The majority of these enormous costs are borne by the public sector. Civic authorities are responsible for delivering continued access to education, employment, health care, utilities and transportation, all of which have a fundamental need for safety and security. As business continuity becomes an ever greater issue in ensuring the ongoing economic prosperity of a city, the concept of “urban security” – protecting city residents and critical urban infrastructures such as airports, data centers, roads and power grids – takes on vital significance. Ultimately, urban safety and security gives cities advantages in the global competition for investors and well educated citizens who value their quality of life.

## Resilient Cities Are Better Prepared

Each city has facilities whose protection is particularly vital. When such critical infrastructures are attacked or subject to a natural disaster, the consequences are far-reaching, as demonstrated

so graphically by the flooding of the River Elbe in Germany or Hurricane Katrina in the U.S. Therefore, it is crucial that suitable preventive measures be taken to ensure the reliability and resilience of infrastructures and business processes. They must first help manage critical situations as efficiently as possible and then enable a quick return to normal operations.

Airports are a good example. As vital regional hubs they are prime potential targets for terrorist attacks, which would have a lasting debilitating effect on the entire region. The ever present threat to air travel, and the many national and international regulations subsequently passed to secure it, have led to a dramatic increase in the range of security solutions deployed. Today's airports are large and complex facilities which require a multi-layered security strategy – from the perimeter to the terminal buildings.

Public facilities, including airports, are highly reliant on their IT infrastructure. For this reason, the protection of data centers has dramatically increased in importance and is now part of virtually any critical infrastructure scenario. Similarly, there are very few organizations in the private sector which are not in some way or another dependent on data. Cyber threats are obviously an important part of the equation, but it is just as vital that network security measures be backed by physical security provisions. Again, the trend is towards integrated systems whose open architecture facilitates the development of ever "smarter" security solutions.

### Safe Evacuation of Crowds

Whether it is a busy train station during commuter rush hour or a major sporting event at a stadium, large numbers of people in a confined area present their own challenges in terms of safety and security. In the event of a threat, the first priority is to remove people from the source of danger. However, this is easier said than done: The right instructions need to be delivered in the right way and at the right time to avoid panic and to ensure people are evacuated as quickly and as reliably as possible.

Crowd simulation research has helped to identify how people react in different scenarios. Instructions based on real-time data and managed from a central command and control point have consistently proven to be the most effective. This relies on the different elements of safety and security systems working together and drawing information from a variety of sources to allow those tasked with responding to the incident to do so quickly and efficiently.

### The Four Phases of the Safety and Security Cycle

The sheer diversity of safety and security challenges faced by today's cities means that a holistic approach is becoming the strategy of choice. Solutions providers are moving away from standalone products and systems and towards networked solutions which cover all stages of the



If an incident occurs an immediate and effective respond is needed

entire security concept. There are essentially four stages in the safety and security cycle: prevention, protection, response and recovery.

Prevention can be subdivided into two areas: prevention of emergencies or accidents, and prevention of crime. An example of the first area are fire safety and extinguishing procedures to ensure continuity of power supply in the event of a fire. Prevention of crime is a more wide-ranging field, particularly in urban environments where the threats are many and varied: vandalism and graffiti, anti-social behavior, robberies, burglaries, political demonstrations, organized crime and political terrorism to name but a few.

Similarly, protection can be divided into two areas: protection of the physical infrastructure and IT networks, which are at the core of the smart city. Cities are a collection of urban infrastructures housing key resources such as universities, museums and churches, public buildings, private sector facilities including offices and production sites, transportation networks, and critical infrastructures such as airports and data centers. The protection of this "virtual backbone" is becoming more and more critical.

If an incident does occur, it is important to have in place the means and protective measures to respond immediately and effectively. The speed with which intervention resources are able to mobilize, and the clarity and immediacy of the information they have to work with, are vital factors, as are the coordination of the resources and the support provided to first responders.

How resilient and failsafe urban infrastructures ultimately are can be measured by how quickly normal operations are resumed after an incident. Getting back to a normal state of operation as quickly and as smoothly as possible is the objective, whether it is as simple as reopening a tunnel after a traffic accident or as com-

plex as rerouting public transport after a terrorist attack on a strategically important building.

### Integrating Safety and Security Systems with Command and Control Centers

By adopting systems which are able to integrate the different elements of the safety and security cycle, those responsible for protecting a city are able to do so much more effectively. The systems in place need to be able to accommodate the complexities of the city environment as well as the needs of the various stakeholders, from private-sector corporations to public authorities and intervention forces.

In the event of an incident, city authorities may well need to call on the services of several different law-enforcement or emergency agencies – from police and fire department to transportation and traffic management to private security resources. Only if those authorities have a complete overview of the situation and the available operating resources can they make meaningful decisions on how to deal with the incident. By integrating a variety of systems – communication, automatic alarm, information and video surveillance systems – into a central command and control platform, comprehensive and consistent incident response can be achieved. This is at the very heart of a smart, resilient and safe city.

### ► CONTACT

Siemens Building Technologies  
Zug, Switzerland  
Tel.: +41 41 724 24 24  
info.sbt@siemens.com  
www.buildingtechnologies.siemens.com



RiMatrix S is a complete data centre: a defined number of server and network racks, climate control, power supply, and back-up, as well as monitoring features. Together, they form a complete server module.

## DATA CENTRE MANAGEMENT

# Now Possible: Standardized Data Centre Construction

## Standardized Modules – Revolution in Data Centre Construction

With a system called "RiMatrix S" the systems supplier of IT infrastructure solutions Rittal is introducing the world's first concept for standardized data centre construction. While data centres previously used to be planned solely on a made-to-measure basis and were correspondingly time-consuming and costly, Rittal is now setting new standards with its RiMatrix S. Based on pre-planned, pre-configured and coordinated data centre modules, both new data centres can be built and extensions to existing ones made quickly and easily and at any time. Indeed, this makes Rittal the world's first provider of standardized data centre construction.

In the past, the individual planning and configuration of data centres was complex and time consuming. Highly variable demands on availability and safety, as well as a variety of structural conditions and budgets, have made planning and construction phases that lasted several months an inevitability.

"With the RiMatrix S, Rittal is making a paradigm shift in the IT world, because never before has a complete data centre been available under a single article number," explained Bernd Hanstein, Vice President, Product Management IT at Rittal. "RiMatrix S is the answer to such IT requirements as speed, efficiency, security, and flexibility." In future, customers will no longer have to reckon with long planning and delivery times: RiMatrix S can be delivered within six weeks of ordering.



By concentrating on standardised data centre modules and perfectly coordinated components, RiMatrix S achieves a very low PUE (power usage effectiveness) value of 1.15.

### Complete Server Modules

RiMatrix S is a complete data centre that comprises the following standard components: a defined number of so called "TS IT" server and network racks, climate control, power supply, and back-up, as well as monitoring features. Together, they form a complete server module.

To allow a higher packing density of the server and network components, Rittal has developed a new climate control system (zero-U-space cooling system, ZUCS) for the RiMatrix S, completely implemented within a false floor. The air/water heat exchangers are located directly below the server frame. The related fans blow the cool air through a perforated base plate directly in front of the server level. Because the doors and side panels, and the server racks would only impede the flow of air, only frame fans are installed in the RiMatrix S. The cold and warm air zones are carefully separated from each other by the partitioning between frame, ceiling, and the 19" level. High availability is




  
*RiMatrix S is the answer to such  
 IT requirements as speed,  
 efficiency, security, and flexibility.*


**Bernd Hanstein,**  
 Vice President,  
 Product Management IT  
 at Rittal

also achieved in terms of climate control by an n+1 redundancy.

### The Emphasis Is on Customer Benefit

Rittal also focuses benefits to the customer when it comes to uninterruptible power supply: Power supply and distribution are already pre-configured in the RiMatrix S, so either the customer existing UPS can be used or a new UPS can be easily installed. The power distribution in the RiMatrix S is designed for the redundant A and B supply paths, where the B path is backed

up by a UPS system. The UPS is a rack-mounted modular system and follows the principle of n+1 redundancy. When the "Rittal PDU Managed" power distribution unit is installed, it is even possible to measure the power consumption right down to the individual socket.

The Rittal CMC III (Computer Multi Control) monitoring system takes over the entire monitoring procedure: Consisting of a processing unit and up to 32 interacting sensors, it records every physical parameter such as temperature, humidity, or smoke. All these measured values

are displayed via the RiZone software, which the administrator can also use to intervene. A fire extinguishing system for the server module can also be provided as an option.

### Larger Units Through Combination

The smallest RiMatrix S variant, the Single 6, consists of six racks to accommodate servers and an additional frame for network technology. The larger version, the Single 9, has nine server racks. One major aspect is the compatibility of the server modules with larger units: Both the mirrored arrangement, which leads to a joint cold or hot zone, as well as arranging servers in bays to form long rows, can be easily and quickly implemented. RiMatrix S is both perfectly suited for the construction of a new data centre in permanent structures with additional aisle containment, as well as for the installation of a new data centre in an outdoor area using high-cube containers. The extension of an existing data centre and its accommodation in the security room by Rittal are easily possible with this global innovation.

### Expansion And Addition

Rittal is expanding its IT infrastructure range with the concept of a standardised data centre. "A data centre planned and built by the customer with individual RiMatrix components is a choice that still remains, of course. This is the only way we can offer a data centre that best fits the needs of each customer," Mr Hanstein stressed

### ► CONTACT

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## TIME + ACCESS

# More than Just Coming and Going

## Isgus Celebrates Its 125<sup>th</sup> Anniversary

Time recording systems have been available from Isgus since 1888 when the Company was established developing time and attendance clocks. These days it's no longer just about recording the IN's and OUT's of employees, but above all optimizing processes. Matthias Erler of GIT SECURITY asked the Managing Director of Isgus, Stefan Beetz, to explain all that's involved.



**GIT SECURITY:** Mr Beetz, this year we are celebrating the 10<sup>th</sup> anniversary of our international edition GIT SECURITY, the sister publication to GIT SICHERHEIT. This looks quite modest when compared to the 125 Isgus years of Isgus longevity. Back then, 125 years ago, in principle the most important thing for time recording already existed – the time stamp clock developed by your Company in 1888 that could clearly record attendance times. Would you agree with that?

**Stefan Beetz:** This slightly provocative theory of yours could mean that there have been no fundamental innovations at Isgus in the past 125 years. The opposite is in fact the case: only through our constant innovations have we been able to look back on such a long company history. Otherwise we would have gone the same way as many other companies in our town, formerly the largest clock town in the world: we would have disappeared from the market!

Could you sketch roughly what has changed over this period?

**Stefan Beetz:** 125 years ago it was all about recording the points in time when employees came to work and went home. The evaluation and interpretation of these time stamps was a manual process completed by employees in the personnel department. Nowadays the term time recording embraces a whole lot more. It's not just about recording event times – the customer today expects fully automatic solutions that calculate the hours worked taking into account all the legal and negotiated rules and regulations. It goes without saying that the data is forwarded to a wages and salary program. Such a modern time recording system is also present in a company to make processes more transparent and to discover ways of improvement or potential for optimization. The term 'time recording' no longer only covers the area of staff time recording but also includes the recording of times that are needed for tasks, projects or customer jobs; the operational and machine data recording. Also the planning of staff and resources as well as access control are important elements of our product portfolio. You can see how much innovation and added value can be found in our products and services compared with time recording 125 years ago.

**I'm totally convinced ... not least because you have just come from CeBIT where you naturally see things that you couldn't possibly imagine in the year 1888. What were the highlights at your booth?**

**Stefan Beetz:** At this year's CeBIT we were able to present a complete barrier-free workflow according to the BITV standard. This is of particular interest to the Civil Service and public service buildings as the use of barrier-free software is compulsory here. Our solution also enables employees with sight impairment to look after their 'time card' themselves or to request holidays via the system. We also showed a further developed version of the RPS module (Resource Planning), with whose help a company can very quickly and transparently obtain an overview of the utilization of the production capacity and may promptly react to variations (through illness, failure of a machine etc.). A further innovation is our web-based visitor administration with which the customer administers visitors and controls access to the buildings.

**CeBIT had the headline theme of 'Share-economy' – this is supposed to describe the**



„change of corporate understanding from having to sharing“. Does this theme echo your own time management, access control and staff scheduling solutions?

**Stefan Beetz:** The subject of sharing is very important both for us and our customers as it involves the sharing of information that has been gathered with the help of our systems. Whereas earlier the focus was on the collection and recording of values, our customers today expect the captured values to be correspondingly prepared, interpreted and made available. This covers the optimum use of people, machinery and other resources in operational activity. This can only be achieved by quickly informing all those involved.

**Could you give us an example?**

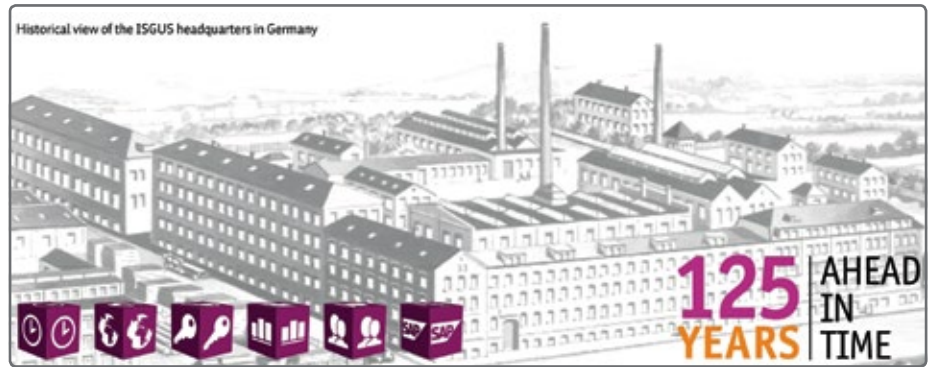
**Stefan Beetz:** If a machine was out of action because of a fault, the foreman or factory manager was informed and he would then begin to build up a picture of the effects of this downtime and then to initiate appropriate measures. Today Zeus provides the foreman not only with the information that the machine is out of action but also what the effects will be on current customer projects and orders. By using this information the foreman can now look at alternatives, such as whether the job can be produced on another machine. Zeus also supports him with this process by showing the available machines and staff.

**You could say that the subject of time recording increasingly involves company divisions and processes that are either directly or indirectly connected with it ...**

**Stefan Beetz:** That is one aspect – the Internet is also taking on an ever more important role in addition: for this reason we are providing more and more functions and information available in a web browser through the continued development of our Zeus WebServices that, if required, can be accessed worldwide.

**How are these improvements received in practice? Is there a discrepancy between innovation and demand?**

**Stefan Beetz:** It is practically impossible to achieve complete satisfaction between innovation and demand as we are moving in a very dynamic market where our customers as well as our solutions are constantly changing. Our customers are our most important source of ideas for new solutions; this feedback enables us to achieve the best possible match between innovation and demand. It is our job to gather the most varied customer ideas, to group them together and to incorporate them into new developments. This ensures that our solutions are always oriented toward the needs of our potential and existing customers.



**What about future developments?**

**Stefan Beetz:** A great deal. Our customers as well as ourselves develop new ideas daily that don't all necessarily appear in new products but show the vitality of the market. In the future this will be about extending the processes around time and data recording and thereby putting a tool in the hands of our customers that helps them to analyze the processes and, as a result, enables an optimization of these. The subject of the Internet, including worldwide access to important company data and information, also provides a whole raft of new, innovative ideas that are keeping us busy. We and our customers certainly won't be lacking ideas.

**Mr Beetz, throughout Europe there are, as your website also states, 14,000 Isgus installations – but perhaps you could tell us about one or two important current reference projects?**

**Stefan Beetz:** A project that would certainly mean something to most readers would be the Olympic Summer games in London last year. As previously in Vancouver, the Isgus Group was a Partner of the German house and equipped it with a complete access control system, including accreditation via the Internet. Such a project is a challenge for all involved and impressively proves the capability of our solutions. I can say to you that we are already looking forward to the next Olympic Winter games in Sotschi. Our Zeus solution is however also installed in the Bundesministerium für Wirtschaft und Technologie (Federal Ministry of Economy and Technology) in Berlin, at the Dachser, Schenker and DSV freight companies, Metro Germany, Intersport Germany, the Europapark in Rust and is in use at many other well-known customers. We also have numerous customers in traditional medium-sized companies. We have the largest number of installations in Germany here of course, in all branches of industry and in all sizes of company.

**In which of these industries are you growing quickest and where do you believe the largest potential lies?**

**Stefan Beetz:** This question is difficult to answer as our Zeus solutions is suitable for all industries and sizes of company. What we can say for sure though is that the area of traditional time recording from where we have come is viewed by many customers today as standard and it is increasingly important to provide complex solutions in which our personnel deployment planning, operational data recording, access control, WebWorkflow or RPS modules are used. These solutions cannot be island solutions but must instead be seamlessly integrated into the EDP/IT environment of the customer. One can also say, with just time recording alone we would no longer be able to perform in the market so successfully. It is essential as a basis for the other modules, but is not enough for our customers on its own.

**And how does it look with growth from a geographic perspective?**

**Stefan Beetz:** Isgus has always been an internationally operational organization that has not just concentrated on the German home market. We still follow this strategy of internationalization today. For sure it was easy before to sell a product (namely a time recorder) worldwide because it just had to correctly print the time and date. These days we have to support the legal structures and trade agreements of each country in which we sell our products, which represents quite a challenge. We have however taken the conscious decision to continue this way and are represented today, as well as in Germany and the German-speaking countries of Austria and Switzerland, in almost all European countries, the United Arab Emirates and North America. These countries will provide interesting growth opportunities for Isgus in the coming years that we want to seize.

**Mr Beetz, many thanks for the conversation.**

## ▶ CONTACT

**Britta Bausch**

Isgus, Villingen-Schwenningen, Germany  
Tel.: +49 7720 393 180 · www.isgus.de





## EVENT

# Facing the Threat

## Transport Security Expo 2013 Convenes in London as Potential New Threats Emerge

Transport Security Expo, the annual gathering of professionals within the aviation, maritime and public transport arenas, convenes again 13–14 November 2013, against a backdrop of the industry being at a developmental crossroads in terms of both its regulation and ability to respond to current and emerging threats. This key event will gather policy makers, world leading experts, technologists and industry operators together in London, to examine current protective measures, assess the threat horizon and determine how best to maintain traveler safety in a changing and increasingly hostile world in austere economic times.

Through an in-depth conference, extensive program of workshops and by way of a world-class exhibition, delegates and visitors will immerse themselves in the challenges transport operators face in maintaining high levels of security and the solutions to them, during a two-day event held at the Olympia Conference and Exhibition Center. For the first time in its long history as the premier gathering for industry professionals, the event introduces the “Major Threats to Transport Security” plenary session this year.

This entirely new addition to an already extensive program has been developed to clearly identify overarching threats common across all transport interests and foster convergence of thought. The plenary session will deliver a ‘360° Global Threat Assessment’, feature extensive debate about managing the risk to transport networks from terrorism and other crimes, discussion as to how best to protect national and global transport systems from acts of terrorism and other security threats and examine the extent of the cyber threat to transport industries.

### Cyber Security

Transport Security Expo has identified that the industry wide problem of cyber security is becoming acute, thus the prominence being afforded this issue during the forthcoming event. The transport industries depend on information technology and would likely grind to a halt without ready access to data required for day-to-day operations. This imposes a requirement that the systems deployed across the transport networks are both robust and secure.

The traditional approach to cyber security has been to focus most resources on the crucial

system components and protect against the biggest known threats. This approach is insufficient in the interconnected world of today, where a much more holistic approach to cyber security across transport networks is absolutely vital.

The cyber security issue is considered to be particularly acute in the aviation sphere given next generation aircraft currently being introduced into service are e-enabled via secure Internet Protocol (IP) communication channels passing data back and forth between ground and on-board systems. Currently the Airbus A380 and the Boeing 787 are the only e-enabled commercial aircraft in service, but the coming Bombardier CSeries and the Airbus A350 will also adopt this feature. Real time direct communication allows airlines to directly monitor aircraft health, pass relevant operational information to air crew and enable such like as e-commerce in the air.

Such systems also provide an interface with a piece of equipment known as the Electronic Flight Bag (EFB). This is a series of software tools that allow pilots to automate tasks such as weight and balance, along with allowing pilots to track routes with weather overlays. Concern is high that EFB connectivity could deliver a path for malicious code to enter into airborne systems aboard e-enabled aircraft, given that a recent study revealed that only 40% of airlines actively deploying EFB solutions have an appropriate cyber security plan in place.

### Rail Threat

Europe’s high-speed railway network may also be at risk of attack, according to recent media reports citing leaked National Security Agency

(NSA) warnings. The reports suggest that al-Qa'ida has been plotting attacks across the network with potential targets including trains, tunnels, sabotaged track and electrical systems. Public transport systems in Europe have been a prime target for Islamist-linked terrorists in the past and Transport Security Expo continues to bring focus this challenging issue. The NSA warning is understood to have resulted from an intercepted conference call between top Al-Qaeda operatives, in which the terrorist attacks were reportedly a central topic.

The deadly Madrid train bombing in 2004 and the 2005 London underground bombing were reportedly carried out by al Qaeda-inspired terrorist cells, although there has been no evidence the group was directly involved in plotting or executing the attacks.

### Maritime Woes

Acts of piracy and myriad of other security issues continue to bedevil the shipping companies and their customers. Whilst the piracy issue appears to have diminished due partly to the deployment armed private security guards on vessels traversing dangerous waters, there is evidence to suggest that this is due to widespread under-reporting of attacks for a variety of reasons.

These include the possible loss of business if cargo owners perceive a particular shipping

company or route to be unsafe, the delay incurred in diverting to port to file reports and the fear of liability in the event of innocent parties being injured or killed. It is thought that for every two pirate attack which are reported somewhere in the order of twelve others go unreported to the proper agencies.

Such underreporting significantly degrades the ability to collect accurate intelligence on the movement of pirates and deliver meaningful protective cover in the event of an attack. Concern is also building over the possibility of a rise in terrorist activity directly or indirectly targeted at the maritime sector within the Middle East region and across North Africa.

Some parts of the region have been in a state of turmoil following the uprisings of recent years and consequently have weakened or diminished counterterrorism capabilities, border control mechanisms, internal security priorities, and other shortcomings. The rise of new or transitional governments in Egypt, Tunisia, Yemen, and Libya, and ongoing unrest in Syria and Mali, has offered new opportunities for established affiliates to the likes of al-Qa'ida, other aspiring terrorist groups, and like-minded individuals to conduct attacks against western interests across the region.

Resurgent terrorist activity could have serious consequence on Western economies that

are heavily dependent upon uninterrupted energy supplies as well as unfettered access to seaways such as the strategically vital Suez. Transport Security Expo will examine this issue and debate whether a recent upswing in jihadist inspired terrorist activity across the Middle East & North Africa may have implication on the free flow of energy and other supplies traditionally shipped by sea.

Delegates attending the forthcoming event will gather detailed insight on all of the challenges faced through in-depth aviation, maritime and public transport conferences. The event features an extensive programme of knowledge centric workshops delivering valuable learning opportunities and is supported by a world-class exhibition of software and hardware by leading vendors from across the globe.

Transport Security Expo will be held at London's Olympia Conference & Exhibition Centre from 13-14 November 2013.

### CONTACT

Nineteen Events, Wimbledon, UK

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## EVENT

# Shenzhen – the Global Security Capital

## CPSE 2013 – the 14<sup>th</sup> China Public Security Expo Is Bound to Be the Global Focus Again

CPSE 2013 is scheduled to be held from October 29th to November 1st this year in Shenzhen, the Global Security Capital. This year's CPSE will again be the only security exhibition in China that has been certified by BPA. Up to date, the show has attracted over 1,500 exhibitors from more than 30 countries. Among them 55 of the Fortune Global 500 enterprises in the Exhibition. 120,000 professional visitors are expected to come to Shenzhen Convention & Exhibition Center, to explore and purchase the most sophisticated security products and seek out global business opportunities.



Although after 25 years of effort and development, China Public Security Expo has grown to be the professional security expo of the largest scale in the world, organisers are still keen on achieving a new height. The 13<sup>th</sup> CPSE in 2011 was a historical breakthrough for the organisers for expanding the exhibition area to all nine halls in the Exhibition Centre. This year, the exhibition area will be further expanded to 110,000 square meters. Due to the conspicuous success in the 13th session, CPSE, as China's No. 1 Security Expo, has been recognized as the most authoritative and influential security expo in Asia and rated as a must-go by international security professionals.

According to our survey, 96% of the exhibitors in CPSE 2011 will have their presence this year too. Over 900 top companies in the industry, including Huawei, Honeywell, Panasonic, Samsung, Sanyo and Siemens, will again show up in this year's CPSE and showcase the latest developments of the industry. Key highlights of the Expo will include technologies and products about video surveillance, access control, burglar alarm, building intercom, smart home and parking management. Moreover, the debut of fire-fighting equipment, anti-counterfeiting products, police equipment, intelligent transportation systems, information security, intelligent analysis, network security technologies and anti-terrorism equipment will become a spectacle this year.

In addition to the four-day exhibition, the Organizer of the CPSE will prepare a series of parallel activities, such as Samsung – 11th China Security Forum, CPSE Golden Excellence Awards



Ceremony 2013, and Global Security Alliance Congress. More than just a stage for showcasing products and services, the Organizer would like to make these activities a catalyst for exchanging advanced technologies and information, understanding the latest development and trend, promoting global trade and communication in the public security industry and building this market an international one. The Organizer would also like to build the Expo an integral part of the international arena.

Professional associations and delegations of leading enterprises on security around the world will also participate in this year's CPSE. The organisers received letters from associations and enterprises in Germany, Brazil, the United Arab Emirates and other countries and regions, expressing their great interest and strong desire to

participate in the event. With the annual market growth of 25% in China's security industry, the CPSE will continue to attract overseas exhibitors and professional buyers, and bring more business opportunities worldwide.

As the global security product manufacturing center, Shenzhen has always played a crucial role in this industry. Driven by the need of infrastructure and engineering construction of a growing number of safe cities and smart cities, the security industry in China has kept a momentum of rapid growth and features huge market potential. In this context, CPSE 2013 is an ideal place for establishing international economic cooperation and connection.

### ▶ CONTACT

[www.cpse.com.cn](http://www.cpse.com.cn)

## CONTROL ROOM EQUIPMENT

# A World's First 70-Inch

For the First Time: eyevis with New EC-70-LWQX-1000-Cube

eyevis' new 70-inch WQXGA cubes are a first choice for setting up seamless video walls with maximum resolution. With this new cube version with WQXGA resolution (2,560x1,600 Pixel) eyevis presents a high-end cube for demanding applications and display systems in broadcast control rooms, TV studios, or video editing workflows. eyevis presented the new EC-70-LWQX-1000-Cube for the first time at IBC trade show, from 13<sup>th</sup> to 17<sup>th</sup> September 2013 in Amsterdam.



Thanks to the use of innovative cluster-LED technology, the new cube versions from the EC-1000 series provide up to 30% brighter pictures than cubes with standard LED technology. High quality screens applied to the cubes guarantee stable brightness and colours from various viewing angles.

This way even concave shaped video walls in studio backgrounds and camera shots from different angles are possible. In control rooms the cubes allow a consistent quality view from all work places.

### Also for Broadcast Control Rooms

The long lifetime of the LEDs with more than 60,000 hours, the maintenance-free cooling system and the service-friendly design enable long service intervals and a reliable operation of the system. With their ultra-high resolution the EC-LWQX-1000-Cube is also an excellent solution for broad-

cast control rooms. Here, combined with a multi-viewer output device, the display of several signals in highest resolution on one screen is possible.

The same applies for similar applications in control rooms for security of process management where multiple video signals or complex diagrams can be displayed in pin-sharp resolution. Thanks to their "Zero-Bezel-Design", the cubes can be stacked to seamless video walls of almost infinite configurations with a huge high-resolution combined desktop surface.

### ► CONTACT

**Martin Wagner**

eyevis, Reutlingen, Germany

Tel.: +49 7121 43303 135 · m.wagner@eyevis.de · www.eyevis.de

## CURIOUS..?



**EU-SP**  
European Security Partners

[www.eu-sp.com/curious.html](http://www.eu-sp.com/curious.html)

**LG**  
Life's Good

# Take Part and Win a Camera

## Your Vote for the GIT SECURITY AWARD 2014, Volume 9

GIT SECURITY AWARD is in its 9<sup>th</sup> year. Again a neutral Jury had to nominate ten finalists in each of the categories – which products offer the most innovations, the best use, the strongest USP?

The jury, with representatives from the BHE, TÜV, VDMA, ZVEI and users has nominated products from five categories – see next pages. From these, three winners will be elected. With your vote, you decide which product will be the winner in each category.

### Vote now

**Via Internet:** go to [www.PRO-4-PRO.com/go/GSA2014](http://www.PRO-4-PRO.com/go/GSA2014) and vote with clicks. There you will also find information about the products, which you can access via the relevant direct code.

**Direct Code** 

Employees of participating companies may not vote for their own product. Employees of the publisher are not entitled to vote. There is no legal right of appeal.

**Or via Fax:** Fill in the voting sheet (see loose insert) and fax it to us.

**Or via E-Mail:** Send us an e-mail with the category and your favourite (only one for each category) to [GSA@gitverlag.com](mailto:GSA@gitverlag.com). Private persons are not entitled to vote, a business address is essential.



### Win the reader prize!

With a little luck, you will be the owner of a digital cam. So please vote in the GIT SECURITY AWARD. Select your favourite of each category to take part in the draw. The Pentax has impressive technical highlights, which enable you to take professional photos. We would like to thank Pentax for their support.

The Jury, meeting at Wiley and GIT



Heated discussions: Lars Komrowski (2nd) und Prof. Reinhard Ries (3rd) with Steffen Ebert and Dr Heiko Baumgartner



Had the most difficult job to do: Heiner Jerofsky, Manfred Guegel, Joerg Crauser, Thomas Kunz, Dr Heiko Baumgartner and Steffen Ebert (f.l.t.r.)



Had to decide real hardship cases: f.l.t.r Dr Heiko Baumgartner, Peter Krapp, Heiner Jerofsky, Juergen Warmbier, Juergen Junghans and Steffen Ebert

**GIT**  
**SICHERHEIT**  
**AWARD**  
**2014**  
**FINALIST**

**GIT VERLAG**  
A Wiley Brand

Your votes until November 1<sup>st</sup>,  
2013 in all categories.

You have 5 votes –  
1 for each category.

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



# GIT SECURITY AWARD 2014 FINALIST

## Category A: Safe Automation

### Bernstein: CSMS (Contactless Safety Monitoring Sensor) Contactless Coded Safety Sensor

The CSMS is a safety sensor based on RFID technology. Safety series circuits of up to 32 sensors, compliance to PL e / SIL 3 (category 4) can be achieved without the need of additional monitoring devices. As there is no need for external monitoring and associated accessories, costs are greatly reduced. M12 modular connectivity provides fast, easy and simple system installation as standard. The coding

level of the CSMS already complies with prEN14119 draft regulations. Protective device system errors are located quickly and easily with the help of the diagnostic interface. At any time the system status of each of the 32 CSMS can be transmitted to the control system via Profibus.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)  
Direct Code **VWGB**



### E. Dold: Multifunctional Safety Module (UG 6970) Monitor Two Circuits Simultaneously

The UG 6970 multifunctional safety module, from the Safemaster family made by Dold, monitors two independent safety functions. These can be freely chosen from the basic functions such as Emergency Off, Safety Door, Two-Hand Control, Switch Mat/Strip and Light Beam. The device thereby fulfills all the requirements up to performance level (PL) e/ cat 4 and/or SIL3. The settings of the Safemaster are made without programming via three rotary switches. The device is configured for 2 channel switching with adjustable cross fault monitoring. For small systems, the safety module is also available with just one of 5 selectable safety functions.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)  
Direct Code **X551**



### Dehn + Söhne: DEHNsecure DEHNsecure Protects d.c. Applications

The modular devices of the DEHNsecure product family are coordinated lightning current arresters with a discharge capacity of 25 kA (10/350) and a functional design. They can be energy coordinated with type 2 surge arresters of the DEHN Red/Line product family without additional cable length. The DEHNsecure arresters combine high performance and user-friendliness in a single device. Their electrical parameters were

rated for the most stringent requirements in lightning and surge protection systems. The modular design of the DEHNsecure arresters makes them safe and user-friendly. The vibration-proof module locking system, for example, is unique. The mechanically coded base part and protection module ensure against installing an incorrect replacement module.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)  
Direct Code **FA43**

### eks Engel: x-light (optical bypass) For more security in case of failures

X-light is an optical bypass that supports all Ethernet based protocols as well as all fieldbuses. In case of failures, it ensures the permanent data transmission in bus or line topologies. Thanks to an optical relay, the signals at the input in question are not transmitted to the corresponding output but to the second input so that the data communication is still working even in case of multiple points of failure. Furthermore, the system can be controlled flexibly via the trigger input, e.g. in case of service or failures. The optical bypass can be used within a temperature range of -30°C to +70°C.



Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)  
Direct Code **X1BJ**

### K.A. Schmersal: AZM 300 Innovative Solenoid Interlock

Core element of the solenoid interlock AZM 300 is the newly developed interlocking system in form of a maltese cross. The advantages: One and the same model can be used on all types of guard doors (left- and right-hand side hinges and sliding doors), the latching force is adjustable, and additional components like door stop and latching element are integrated. The customer can choose between three different types of coding and, in this way, minimize the risk of tampering. The AZM 300 fulfils the requirements of Performance Level e resp. Safety Integrity Level 3. It is resistant to

many cleaning agents and, thanks to protection class IP 69K, suitable for use in hygiene-sensitive areas.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)  
Direct Code **S8ZA**



### Omron: Sysmac Safety Controller Easy Integration of Safety Into Machine Automation

The Sysmac Safety concept fulfills perfectly the market needs for integrating machine automation and machine safety to a scalable overall system. The Sysmac Safety System consists of safety controller and safety I/O units. Controller and up to 128 safety I/O modules can be freely distributed in any I/O rack throughout the network. The communication is based on the Ether-CAT protocol FSoE. All the Safety



components do not require special couplers or network topology. Although safety is integrated, changes in standard I/O configuration do not affect the safety configuration. That means, safety validation has not to be done again, which is additionally improving the scalability.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code  **9A81**

### Siemens: SIRIUS 3SK1 Safety Relays Have Never Been So Simple and Flexible



Convincing safety solution for machines – The new safety relays are characterized by ease of understanding, a clear product portfolio, and a high degree of flexibility. The safety relays are packed with a host of functions that can be parameterized using DIP switches. This reduces device variance while retaining maximum functionality. Thanks to the low number of devices, selection is simplified, and costs for storage, maintenance and engineering are minimized. The modularity of the 3SK1 system enables adaptation to new requirements in the application at any time. This secures flexibility, and enables customized solutions with the 3SK1 system. [siemens.com/safety-relays](http://siemens.com/safety-relays).

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code  **JX2Y**

### Pilz: Safety Relay PNOZ s50 Safe, Contactless Control of Two Brakes

The new safety relay PNOZ s50 from Pilz can safely control two powerful brakes simultaneously without the use of contacts. As such it provides the required level of safety, particularly in the field of vertical axes: on loading and unloading gantries, machine tools, lifting devices and in stage technology, for example, a suspended load's own weight may be enough to allow the axis to fall unintentionally. The safe-

ty relay PNOZ s50 with emergency stop function is designed to control holding brakes or safety brakes in the 24/48 Volt DC range on vertical axes up to PL e of EN ISO 13849-1 or SIL CL 3 of EN/IEC 62061. It offers a high level of safety due to fast shutdown of the power circuits.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code  **JK47**



### SICK: Flexi Loop Cost-Saving, Safe Sensor Cascade Including Diagnosis

With the decentralized integration concept Flexi Loop, SICK meets the demand for a cost-saving possibility to cascade safety switches and sensors within a machine while maintaining the highest level of security. Therefore, up to eight sensor cascades with up to 32 safety sensors can be connected to a safety controller. For each sensor detailed

diagnostic information are available. Integrated switching signals allow the use of interlocks, buttons and lamps. A cascade with Flexi Loop only needs one safe input. All sensors are supplied with energy and only unscreened standard cables with M12 plugs are used.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code  **WNFR**

### steute: Wireless Safety Foot Switch Wireless Foot Switch for Safety Applications

Safety foot switches of the GFSI range enable a safe and ergonomic programming of machines and robots. As long as the operator keeps the pedal pressed, he is able to operate the machine with limited speed while the safety guard remains open. When conventional foot switches are employed, the cable restricts the flexibility of the operator, and it also is a source of danger because of the risk of stumbling. The new variant RF GFSL 2.4 GHz-safe-b makes do without the cable. Instead, it transmits the sig-

nals via a wireless protocol developed by steute. Energy is supplied by a rechargeable battery.



Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code  **7624**



# GIT SECURITY AWARD 2014 FINALIST

## Category B: Fire and Explosion Protection, Industrial Safety

### FLIR Systems: K-Series Handheld Thermal Imaging Cameras for Fire Fighting Applications



The K-Series enables fire fighters to see through smoke. This helps them to find victims in smoke filled rooms and to see if a fire is burning behind a wall. This knowledge can help them to avoid dangerous "back drafts". For these applications infrared camera world market leader Flir Systems now offers the Flir K50 (320 x 240 pixels) and the Flir K40 (240 x 180

pixels) – both have a large bright 4" display and feature 5 different color modes for every situation. The K-series withstands a drop from 2 meters on a concrete floor, is water resistant to IP67 and fully operating up to +85 °C and up to 260 °C for 5 minutes – and it can be operated with fire fighters gloves. Flir offers 2 years warranty on the camera and 10 years on the detector.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **AT58**

### Siemens Switzerland: SWING Wireless Fire Detection

With its SWING fire detection system (Siemens Wireless Next Generation), Siemens is introducing a wireless fire detection solution which offers a high level of reliability and flexibility. SWING combines a failsafe wireless network with patented ASA technology (Advanced Signal Analysis) to ensure optimal fire detection. The system is especially suitable for use in locations where the wiring of fire detectors is impossible or undesirable. The system is based on mesh technology, which maximizes communications redundancy and thus matches the

security and reliability of a cable-based solution.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **N2SJ**



### Guenzburger Steigtechnik: clip-step coating (R 13) Non-Slip Coating for Step Ladders

The new clip-step coating (R 13) is a certified, non-slip surface for step ladders made by Günzburger Steigtechnik. The clip-step R 13 surface, a plastic profile with corundum, fulfils the demands of the R 13 criteria and was classified V6 for repressing

area. Clip-step R 13 offers a higher level of working safety in wet or oily areas. The institute for work safety (IFA) of the German Legal Insurance for Accidents (DGUV) confirms this safety in its certificate. Besides completely equipped

ladders, this coating is also available as retrofit kit for all other step ladders made by Günzburger Steigtechnik.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **TFRL**

### i.safe Mobile: Innovation 2.0 Smartphone with Atex Zone

The Android 4.1 Smartphone with ATEX Zone 1/21 certification offers new possibilities of communication and data processing nad LWP. The extremely rugged Smartphone Innovation 2.0, brings all Android Apps into the explosion hazardous area like for mobile maintenance, plant documentation, logistic administration, device-calibration, or plant control. It has only 210 grams in weight and extremely robust with IP 67 and with the capacitive touch screen it can be operated like any Smartphone. The auto-focus rear camera with 5 mega pixels



and flash allows the use as Barcode scanner. Navigation with GPS allows LWP with tracking.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **14YK**

### Hochiki: FIREscape+ Integration of Fire Detection and Emergency Lighting

Hochiki Europe's FIREscape+ is a unique system that integrates addressable fire detection and emergency lighting technology to provide an intelligent way-finding solution that represents a step-change in how people safely evacuate buildings. Manufactured in the UK, FIREscape+ is EN50172 compliant. It comprises an addressable combined fire detection and emergency lighting control panel with battery back-up, Hochiki's addressable range of fire detection devices, and a range of self-contain-



ned light emitting diode (LED) luminaires and signage that is connected via low voltage (40V) cabling. Uniquely, this is all powered and configured on the same loop via a single panel giving high levels of control via an automatic system.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **NRVX**

## Sifat Road Safety: Driving Simulator Driving Simulator For Fire Fighters



Since the training of operations with special rights in cities is usually not allowed, according to traffic regulations, can use the simulator of Sifat Road Safety. Blue light journeys are practiced. Machinists are charged extremely high for rescue operations. The risk of being

involved with activated blue lights and sirens in an accident is about 17- times higher than usual. Such stress is reached in the simulator of Sifat. Increase in pulse rate and sweating indicate that approx. 220 reportable accidents involving serious injuries per year in Germany, which caused 75% of fire departments, are reason enough to train engineers of realistic simulators preventive.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **Q798**

## Wenzel Consult: Fire Department Database DIN-14675 Download of more than 440 Technical Connection Conditions

The fire department database of Technical Connection Conditions (TCC) for fire alarm systems is a unique and central platform for the defined connection conditions that are binding across Germany. They are available for download free of charge in table form. A name

search feature is offered for the location (city, administrative district). The postal code proximity search is very helpful: here the TCCs are displayed within the desired radius on a map of Germany. Naturally the revision level of each TCC is displayed. New or updated TCCs



Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **4B7B**

are marked in colour on the TCC map in order to highlight changes. In addition, the last 10 updates are displayed in a column.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **G8FS**

## Wagner: OxyReduct VPSA Active Fire Prevention with VPSA technology



OxyReduct with Vacuum Pressure Swing Adsorption (VPSA) technology by Wagner is a system for active fire prevention based on oxygen reduction, which is particularly well-suited for large storage areas. Using a physical process to separate gas mixtures, this innovative technology produces nitrogen to

reduce the oxygen level in the risk. Using positive and negative pressure, the surrounding air is split into nitrogen and oxygen directly on-site. Thus the energy consumption to generate one cubic metre of nitrogen can be reduced by up to 50% under certain conditions compared to conventional PSA technology. OxyReduct VPSA works extremely efficiently and is especially used for large production volumes of nitrogen.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **1K1U**

## Zweibrüeder Optoelectronics: LED LENSER M17R Rechargeable Safety LED Torch

Innovative inventions ensure overwhelming light power for this rechargeable, performance-optimized lamp with its new rechargeable battery technology. This new technology, on the basis of lithium-ion-phosphate (Safety Ytrion Cell), is more durable and safer than regular rechargeable batteries. Due to an electronically controlled rechargeable battery technology the lighting power is very consistent. The new switch mechanism of the Fast Action Switch allows for a fast change in between light programs. A special feature of the M17R is its emergency light function- if the lamp is in the charging station, it



will turn on automatically if the power supply is cut off. With lighting power of 850 Lumen this lamp is definitely a great support for any security personnel.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **1REP**

# GIT SECURITY AWARD 2014 FINALIST

## Category C: CCTV

### Arecont Vision: 12 MP WDR 180 Panoramic Camera SurroundVideo IP Video Surveillance Camera

Arecont offers the world's first 12 megapixel 180 degree panoramic dome camera with Wide Dynamic Range (WDR). Arecont Vision's 12 MP WDR 180 degree panoramic camera is 25% smaller than previous SurroundVideo models. Our WDR technology delivers a dynamic range of up to 100dB at full resolution and without lowering frame rates. The WDR performance of



Arecont Vision cameras represents up to 50dB improvements (300X) in dynamic range compared to non-WDR cameras. The camera uses four 3 MP WDR image sensors for a total resolution of 8,192 x 1,536 pixels. IP66 and IK10 enclosure.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **G9LH**

### Avigilon: HD Micro Dome Small High Definition Micro Dome Camera

Avigilon's HD Micro Dome camera, available in 1 MP and 2 MP resolutions, is the industry's smallest high-definition dome camera, enabling a cost-effective transition to HD video surveillance and all the advantages of the Avigilon Control Center software. It operates on Avigilon's H3 platform with enhanced High-Definition Stream Management (HDSM) features. With a horizontal angle of view of 88°, this camera



can cover an entire room from a single location while providing unparalleled image detail. Featuring an IP66 rating and 30 images per second at full resolution, the camera delivers a versatile solution for discreetly monitoring activities in a variety of environments – retail, commercial, indoor or outdoor building entrances and hallways.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **CK21**

### Mobotix: M15 IP Camera Allround Dual Camera

The camera M15 builds on Mobotix' innovative camera platform concept and offers two exchangeable 5 Megapixel sensor modules. In this way, it can be adapted to current and future needs at any time, regardless of the original mounting place. Five different sensor combinations are currently available.

By using 5 Megapixel sensors, the users will gain more than four times better light sensitivity, a frame rate of up to 30 frames per second and an increased zoom in color and in black-and-white. The M15 is equipped with the new MxActivitySensor technology for intelligent motion analysis that reduces false alarms

considerably. Furthermore, it is IP66-certified and is successfully tested at a temperature range from -30 °C to +60 °C.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **5RFM**

### lunaHD: L-DS-1200 HD-SDI Highspeed Dome Camera

lunaHD L-DS-1200 is a 2,1 megapixel PTZ high speed dome camera with 20x zoom and HD-SDI output. The result is the best possible image quality in Full HD (1080p) without compression loss and latencies. The SDI-signal is carried over by using 75 Ohm coaxial cable. The DSP of the camera takes care of numerous settings for optimum picture quality, maintained by the camera's OSD, even under difficult lighting conditions (like 3D-DNR, BLC, WDR and much more). The camera has 7 alarm-inputs and 2 alarm-outputs and is built weather-



proof (IP67) with 4000V over-voltage-protection. With its privacy masking the dome can be operated conformable to law in almost any situation. Power supply (24V) and installation material is supplied.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **LTKB**

### MHM Electronic: VAV 119/219 Patented Self Adjusting CCTV Equalizer with Automatic Cable Detection

In the field of CCTV the video equalizer VAV has a new patented signal processing and non-aging electrical isolation for optimum output and ensures maximum protection of downstream systems. Fully automatically recognizes the VAV coaxial or twisted pair cable, impedance, signal polarity, asymmetry, attenuation, color system, video standard and sets them even at very long cable lengths. The signal processor recognizes transmitter side



impedance mismatch (balun), switch signal dependent noise filters and monitors all functions. The integrated data interface allows remote monitoring, camera control (star hub), or text display information via OSD (POS). Commissioning is only the tool-free connection of the input and output cables and an AC/DC-supply.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **1UK5**

**Moxa: VPort 26A-1MP  
HD IP Camera for Extreme Weather Applications**

VPort 26A-1MP is the world's first dome-type extreme weather HD IP camera designed to operate reliably in a -40 to 75°C temperature range without a fan or heater. The camera for day and night outdoor surveillance in harsh environments delivers superior video performance, DNR and WDR, and IP bandwidth optimization. It delivers 1280 x 720 HD resolution at 30 FPS simultaneously over 3 video streams (2 x H.264 plus 1 x MJPEG). Its vari-focal megapixel



lens offers a 3-9 mm focal length. It is EN 50121-4 compliant for railway, public safety, and high humidity applications, including tunnels, and offshore and heavy duty industries. VPort 26-1MP uses Moxa's own DynaStream flexible frame rate control technology and CBR Pro flow control technology.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)  
**Direct Code** **ZVE1**

**Samsung Techwin Europe: SNP-6200RH  
PTZ-Network Dome Camera**

The SNP-6200RH is a 20x optical zoom IR PTZ network dome camera able to capture superb quality Full HD (1920x 1080) images. An IR function illuminates objects at a distance of up to 100m by focusing the beam as the camera zooms, resulting in clear imaging even when the field of view is in total darkness. The ONVIF conformant SNP-6200RH is equipped with Wide Dynamic Range (WDR) technology for environments where there may be strong contrasting lighting conditions. It is also weatherproof to

IP66 as well as IK10 vandal resistant, and can withstand high temperature variations of -50°C to +55°C making it ideal for demanding applications such as airports, ports and other transport facilities, as well as car parks, retail and industrial estates.



Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)  
**Direct Code** **HR5V**

**Panasonic: WV-SW598  
New Panasonic Full-HD Dome Camera with  
30x Optical Zoom and Rain Wash Coating**

The new WV-SW598 from Panasonic comes with a set of features that permit it to be installed outside in challenging climatic conditions. The casing comes with a so-called rain wash coating that amounts to an unpaid window cleaner coming by every time it rains. The coating ensures that flatter water droplets take dust and dirt with them when they roll down the outer housing as they cannot form the usual globular shape on the special surface coating. The super high resolution of the ca-



mera at Full HD / 1920 x 1080 pixels ensures that fine detail is maintained, and transmitted at up to 30 fps over multiple H.264 (high profile) and JPEG streams that allow simultaneous real time monitoring and high resolution recording by the new Uniphier, Panasonic's proprietary LSI platform.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)  
**Direct Code** **FEUF**

**Tyco/American Dynamics: illustra 625 PTZ  
Full HD IP PTZ Camera with Low Latency**

The Illustra 625 PTZ High Performance and High Definition (HD) camera is designed for applications where locating, tracking and zooming in on subject details are critical. Building upon the American Dynamics base of IP camera technology and its years of analogue PTZ innovation and design, this fastest HD PTZ in the industry delivers precise pan and tilt



control with extremely low latency, delivering the same control precision and accuracy of analogue.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)  
**Direct Code** **A7VW**

**Raytec: VARIO IP  
VARIO IP Network Illuminators**

VARIO IP is the first network CCTV illuminator in the security industry. Now, users can not only remotely control their IP cameras but their lighting too, via an integrated web interface or VMS. VARIO IP is available in Infra-Red and White-Light LED. It allows for remote set up, commissioning and operation of all lighting from any location on the network 24/7. Users can alter their lighting to perfect CCTV images, and instantly respond to ope-

ration changes or security threats in real time, for the best CCTV and site safety. VARIO IP has a low power consumption, low running costs and requires zero maintenance. It also saves labour time and costs by reducing visits to site, whilst ensuring maximum system performance at all times.



Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)  
**Direct Code** **685N**

# GIT SECURITY AWARD 2014 FINALIST

## Category D: Access Control, Intruder Alarm, Perimeter Protection

### ABUS Security-Center: Ultivest Wireless Alarm System Plan, Configure and Secure Wireless Alarm System



The Ultivest wireless alarm system has proved to be unique in terms of innovation, high quality, design, ease of use and functionality. The Alarm system goes beyond providing classical alarm components: It combines active burglary protection that links electronic surveillance

and mechanical security, access control, IP-based video integration, app remote control and optional connection to the home automation system via KNX. Information and status messages are displayed clearly on the alarm panel's 4.3-inch color display. Buttons which light up as the situation requires and voice prompts contribute to the ease of use. An integrated fingerprint reader completes the control options.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **ZF71**

### Bosch Security Systems: AMAX AMAX Intrusion Alarm Systems – Simply Reliable

AMAX intrusion alarm systems from Bosch are designed to meet the special requirements of homes and small to medium-sized businesses. Thanks to the LCD or LED keypad which features a self-explanatory menu-driven navigation structure the operation of the intrusion alarm systems is extre-



### Atral-Secal: Outdoor Siren Wireless Outdoor Siren with Speech Output and Strobe Light

The outdoor siren has 6 languages available to select from for the speech output. The product offers twin band wireless technology with 400/800 MHz. The alarm volume is 109 dB(A) at 1m distance and can be assigned to individual areas. Combined with external motion sensors, there is an option for an acoustic pre-alarm, triggered when someone enters the grounds. This can alert the occupiers with an an-

nouncement/speech, dog barking or howling before the regular alarm sounds. Depending on the alert level, 4 different announcements or dog barks can be selected. The siren is triggered by the D22 control panel or the emergency call function key of a Daitem remote.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **9R5E**

### Geze: IQ lock AUT Self-Locking Panic Lock



Fast opening in an emergency and controlled access are the strengths of self-locking panic locks. With the IQ lock AUT, GEZE is offering a multi-functional system solution for full panic doors with automated door leaves on both sides that have a motor for unlocking active and fixed leaves. You can see the strength of this solution in com-

ination with access control systems and automatic revolving door drives in barrier-free zones. It has a motor that makes it possible to open and unlock one or both door leaves. Due to the full panic function both door leaves can simultaneously be unlocked mechanically in case of danger by pressing the panic bar. After entering, the mechanical self-locking system makes sure that the door is locked.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **GFHX**

### Gunnebo: Security Portal CompactSave EV Optimum Security at the Fastest Pace

CompactSave EV is a space-saving, rapid security portal for entrance areas. It is the only modern security portal that has been certified for escape and emergency routes. The patented lock and sensor systems are designed to keep people separate and permit the safe throughput of up to eight people per minute without using a floor pressure mat. Each portal consists of a double-winged, electro-hydraulically controlled interior and exterior door, side panels and a roof all made of steel and laminated safety glass that can be burglar-proof or bullet-proof if required. CompactSave EV

laboratories and complies the EN Grade 2 and VDS Home. To sum it up AMAX intrusion alarm systems feature the quality and reliability for which Bosch is known.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **HL2G**

can be controlled by various access systems and enhanced with biometrics. The portal is available in two widths (90cm and 1.10m) for use in various situations.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **VBD1**



## Honeywell: New Control Panel Generation MB-Secure The Modular Platform for Security Solutions

Integration without compromise. As a modular platform for intrusion detection and access control, the new control panel offers the full range of possibilities of innovative security systems. This unique flexibility is based on a modular concept: only get what you need. Thus nearly all integration and expansion requirements can be met with significantly less hardware, from simple peripheral additions to a video surveillance connection. All control panel variants of the MB-Secure are equipped with full functionality and a uniform firmware. The desired functions can be easily



activated through license keys. This allows for functionality upgrades through simple exchange of the license key.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **KHN2**

## Paxton: Net2 PaxLock in Door Handle Wireless Networked Access Control Door Handle

Net2 PaxLock is a networked access control solution in a door handle, combining a wireless access control unit and a reader in one. Net2 PaxLock can fit a standard Euro lock case, meaning that it can easily replace an existing door handle for quick and simple installation. The unit is battery powered with



a battery life of up to three years, making it completely wireless as it does not require mains power. Installation is very cost effective with minimal disruption as no cabling is required between doors. Net2 PaxLock communicates with the server PC by a secure, low power radio link, and events are reported back to the server in real-time. Net2 PaxLock fully integrates with all Net2 products and is covered by a five year guarantee.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **8TWH**



## SimonsVoss: Digital Locking Cylinder 3061 – Door Monitoring Keeping an Eye on the Door

Is the door open or closed? Has it been locked just once or is it double-locked? Is someone trying to break in through the door? Digital Locking Cylinder 3061 can detect all these situations using SimonsVoss door monitoring and report them to a main control centre. Three SimonsVoss technical innovations interact in this highly integrated door monitoring system: the intelligent fastening screw, the cam sensor and the monitoring logic. Designed to

hold the profile cylinder securely in the lock case, the fastening screw is equipped with an intelligent system which can detect whether the door is open or closed or if an authorised person is trying to open the door at any time. The cam sensor detects the position of the dead bolt and whether it has been double-locked or just locked just once.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **7LZF**

## Salto : CLAY Cloud Access Control Cloud-based Access Control System

Clay by Salto is a brand-new easy to use, secure locking solution for SME's that is revolutionary in design, usability and features. The key hardware element is the Clay IQ that serves as the hub between the wireless lock and the cloud, and is so simple to set up, users need only plug it into a standard electrical socket. Neither router configuration, nor any other cabling is required. The new product utilizes the versa-

tility of the cloud to give owners of SME businesses the ability to control their building access remotely and manage it in real-time via any device with an internet connection, providing security that is both flexible and future-proof.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **ZSEZ**



## UTC Fire & Security: Dual detector DD666AM Ceiling Mount Dual Detector with Anti-masking

The dual detector DD666AM uses Passive-Infrared and Microwave technologies to find Infrared signals and moving physical objects in a defined area. Unique in its class is the detector offers 360° protection with 18 curtains of 10 m radius and

with mounting heights up to 5.0 m. The detector provides bi-curtain processing and memory control. The unique range controlled radar avoids false alarms related to movement outside the detection pattern. The patented anti-masking

protection with active infrared and a microwave shield defends the detector for sabotage inside and outside.



Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **C5VU**

## Category E: Safety and Security Management

Advancis: WinGuard  
Software Platform to Organize Security



WinGuard is a software platform that integrates several non-connected security systems of different manufacturers, controlling them by a homogeneous user interface. The user is enabled to detect incidences and to resolve them with approved standardized procedures.

The most recent version WinGuard X3 is a solution reaching far beyond the common scope of conventional security management systems and additionally offering integration of the complete building and communication technology. The connection to higher-tier mission control systems is another enhancement compared to conventional security management. Procedures automatically initiated by the system and dynamic workflows support the user in event handling.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **RWB7**

### Bosch Communication Center: Secure Truck Parking

There is an increase in goods traffic and a raising demand for mobility in a qualitative and quantitative dimension. The lack of parking lots for trucks lead to a high number of traffic fatalities and rising crime by freight theft due to increasing values of goods, parking lots searching, parking in restricted areas

and tiredness of drivers. Bosch Secure Truck Parking (BSTP) combines three components: 1) Online booking platform 2) Video surveillance 3) Intervention via Monitoring Center In combining technical with personnel methods, which contains both an intelligent booking system and physical security, BSTP prevents

## GIT SECURITY AWARD 2014 FINALIST



### Bosch Security Systems: UGM 2040 Universal Security System

UGM 2040 is a fire detection platform in 19" design with an open interface to connect subsystems such as video surveillance or access control – even from other manufacturers. It can process up to 200,000 data points making it the ideal choice for large companies with decentralized system structures, such as airports or energy supply companies. Networking is via Ethernet and serial interfaces, allowing to bridge the gap between current and future

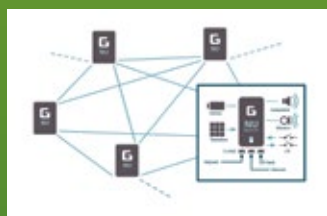
systems and to build cost-efficient custom-made solutions with high-speed data transfer – not confined to specific manufacturers. The operation on a color touchscreen is scenario-oriented with full text searching and numerous filter functions and allows even complex situations to be presented clearly.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **5H7P**

### Gehrke Sales: NeuroKom IP Serverless Technology Platform for Intercom 3.0

NeuroKom IP is based on artificial neuronal networks and completely waives on central components. The intelligence of the system increases with the number of units, the stand-alone NeuroUnits. NeuroKom implements a neuronal communication for voice, data and more, and each functionality can be assumed by one or more of NeuroUnits. A NeuroUnit is in principle capable loudspeaker, microphone, inputs and outputs, keys, keyboard, and – using the USB port and I2C adapter – other devices, such as video



cameras, access control readers, to integrate into a NeuroKom concept.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **ZVR8**

### Geutebruck: G-SIM Security Information Management High Performance Security Information Management System

G-SIM is an intuitively operated security information management system for medium to extremely large (10,000-camera) video security solutions with seamless integration in the Geutebruck system world. Centralized user management, easy control of site-plan-based control elements as well as centralized logging of all relevant operating and system processes set this software system apart. Its system architecture is freely scalable and designed to enable effortless interaction between users whether



they are within the network or access it remotely. This allows large powerful systems to be operated very efficiently with tasks distributed flexibly across many different workstations. Key data from a reference project: 340 recorders, 150 sites, 4500 cameras.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **NMRM**

## Infraserv: ZEUS Instructing Visitors and Contractors in Matters of Safety

Instructing external persons about safety regulations at company premises, construction and installation sites, and production, manufacturing, and research facilities is essential and even regulated by law. ZEUS – an image-based electronic instructing system with multi-language support – runs on touchscreen terminals, which are easily to use. Increasing legal compliance, the instruction is completed with a comprehension quiz. With ZEUS you can lo-



wer your regular operating expenses, improve visitor safety, significantly reduce your liability as an operator and present your company as a cutting-edge organization. ZEUS is flexible, intelligently designed and can be linked to other electronic systems such as electronic access control or visitor management system or business card and ID scanners.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **ESLM**

## Milestone Systems: XProtect Expert Powerful Control

Milestone XProtect Expert is an advanced open platform IP video management software (VMS) for medium and large installations. Its powerful central management interface allows large systems with multiple Recording Servers to be efficiently managed as one uniform system. Using scheduled and event-driven rules, it is easy to automate security actions and control external systems, reducing the amount of manual tasks. Three unique viewing clients provide seamless access to live and recorded video for different personnel responsibilities. With

multi-layered and interactive maps, the software provides situational awareness even in large installations with hundreds of cameras.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **GL23**



## Securiton GmbH: IPS VideoManager Intelligent 3D Video Management and Video Analysis Software



IPS VideoManager is a geo-referencing 3D video surveillance system with automated image analysis and a real-time alarm system. The IP-based, unlimited scalable platform combines video management and new concepts in image analysis with multi-sensor video image analysis. The software solution analyses

images from CCTV systems and immediately issues an alarm. Defined incidents – for example when an invisible line is crossed – trigger an automatic signal and the system can keep track of objects using geo-referencing 3D data and cross-camera detection. The basic product can be upgraded by adding analysis

plug-ins, which can be applied modularly depending on your needs, e.g. to identify wrongly parked vehicles, suspect baggage or fire and smoke.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **GWVG**

## Secusmart GmbH: SecuSUITE for BlackBerry 10 Tap-Proof Mobile Communication

SecuSUITE for BlackBerry 10 is the new high security solution from the Düsseldorf company, Secusmart GmbH. The German national government has already made the decision to protect all the mobile telecommunications of their agencies and departments using the new anti-eavesdropping solution. Sensitive company data can also be protected effectively in this way. SecuSUITE for BlackBerry 10 combines high class protection from electronic eavesdropping for voice, text messages, emails and PIM



with the usual level of smartphone comfort for both business and personal use, all in one smartphone device. You can easily switch between business and personal areas with a single swipe. SecuSUITE for BlackBerry 10 is based on the secure voice product SecuVOICE, which German governmental agencies have been using since 2009.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **T8N4**

## SimonsVoss Technologies: Protect Function Protection in a Flash

SimonsVoss has enhanced its Electronic Locking and Access Control System 3060 with a newly designed protection function. With it, door locking devices can be activated or deactivated in a split second in the event of an emergency. People want to be able to act very swiftly in the event of a fire alarm or attacks on people, such as a shooting incident in a school. This new protection function provides three responses in such emergency situations: a simple press of a button makes it impossible to open a door from the outside – intruders can no longer get inside as a result. By the same token, means of escape can also be immediately provided by

pressing the button to deactivate the locking device concerned.

Further Information at [www.PRO-4-PRO.com/go/GSA2014-en](http://www.PRO-4-PRO.com/go/GSA2014-en)

Direct Code **1SA6**





## 10 YEAR TRENDS

# Meeting the Needs of the First Responder in the Modern World

Mass Spectrometry: By Dr. Chris Petty, Co-founder and VP of Business Development at 908 Devices

With the threat to society from toxic chemicals and explosives increasing exponentially, the need for portable devices that can detect and analyze a broad array of hazardous chemicals and weapons at trace amounts has never been greater. The availability of compact analyzers that are rugged enough to meet military standards and reliable enough to be trusted in the field, as well as being simple to operate will have a significant impact on the safety and security markets.

Traditionally confined to centralized laboratories and operated by highly trained specialists, mass spectrometry systems still have a relatively untapped potential within the safety and security markets to provide hazardous chemical detection and analysis at the point of need. Over the past few decades, a number of smaller mass spectrometers have been developed. They typically attempt to shrink and ruggedize the same technological approach used in laboratory systems but while they demonstrate improvements in these areas, a gap in the market still exists for tools that are truly portable, rugged, accurate and easy to operate. The demand for these devices within the safety and security markets represents a significant opportunity, as well as a challenge for the mass spectrometry industry.

## Miniaturization Successes

The successful miniaturization of technologies such as Raman, Ion Mobility Spectrometry and FTIR, combined with the clear demand for handheld devices that can detect and identify a wide range of substances suggests that the time for mass spectrometry to emerge from laboratories into the hands of the non-expert user has arrived. No single technique or approach can handle the wide array of detection and identification challenges faced by first responders in the modern world which means that it will be important for first responders to have a number of different technologies and tools at their disposal.

Raman spectroscopy identifies unknown chemicals by recording how their vibrating molecular bonds scatter incident laser light into distinct frequencies. The Raman technique has been

used since 1928, undergoing many improvements to increase the sensitivity and flexibility of laboratory systems. By the mid-1990's, most Raman systems weighed 200lb, and though they were complicated and expensive, their analytical capability was still increasing.

However, due to their complex and fragile optical systems, they were difficult to run consistently and were not practical for use in field analysis. By taking a radically different approach to the technology – utilizing ruggedized optical components and design techniques from the telecom industry – Ahura Scientific developed a battery-operated Raman system which weighed just 2lbs. In 2004 Ahura shipped its first products and within a decade, many thousands of MilSpec-tested Raman systems were being used in desert locations to identify explosives in IEDs, to check in-coming raw materials at the loading docks of pharmaceutical plants and to identify illegal drugs on city streets around the world. The widespread use of this technology demonstrates the impact that the use of handheld devices can have.

Raman spectroscopy has a number of advantages including being highly selective (having the ability to differentiate between 10,000+ different compounds) and being able to identify compounds through glass or translucent materials, which can potentially reducing the risk of exposure to toxic chemicals. However, Raman is primarily used as a 'bulk' technique which means that a relatively large amount of sample is required in order to make a measurement and it is rarely suitable for looking at low (or 'trace') concentrations.

Ion Mobility Spectrometry (IMS) is an instrumental analytical method that separates ionized molecules according to size, mass and geometry. Previously based in the laboratory, handheld IMS products such as Smiths Detection's Lightweight Chemical Detector (LCD) or desktop systems such as the Itemizer 3 from Morpho Detection are currently widely deployed in the military and in airports respectively as 'trace' techniques. This means that IMS can detect very low (ppb level) concentrations of target explosives or chemical weapons. Small, robust and relatively simple, IMS systems have been successfully used to give troops early warning of the presence of potentially harmful chemicals and explosives – helping to save lives.

This mature technology fulfils its current purpose however, compared to the forensic selectivity of mass spectrometry, IMS technology has a fundamental limitation in that it cannot move beyond detection of a limited number of chemicals to the broader array of threats we face today. It is crucial that the next generation of technology keeps up with the continually expanding and evolving list of chemicals that can be used as threats. Achieving this requires a leap in technological capabilities.

## Government Investment

Despite current budget cuts, detection of chemical and explosive threats remains a priority. As an example, the US Government's Next Generation Chemical Detector (NGCD) program continues to gather speed, demonstrating the fact that there is a recognized need for investment in the development of new technology. Existing

The Mass Spectrometer  
'Core' of the 908  
Devices' Handheld  
System



Dr. Chris Petty,  
co-founder and  
VP of Business  
Development  
with 908 Devices

technology is no longer able to deal with the complexity of new chemicals and the NGCD program is designed to develop and procure detectors for Chemical Warfare Agents (CWAs), Toxic Industrial Chemicals (TICs), and Non-Traditional Agents (NTAs).

The detectors are intended for use by the military for a wide range of missions and the program will award contracts to multiple vendors for system prototypes. Procurement is due in 2016 for what is expected to be one of the most significant CBRN equipment contracts in the world. The ultimate aim is to replace existing technology with battery-operated, rugged devices that have the ability to deal with low levels of detection as well cover a wider range of threats. The creation of simple and purpose-built battery-powered mass spectrometry tools that are selective and sensitive could provide the ideal solution.

As a further example, in April 2013 908 Devices, an innovator in field-portable chemical analysis, entered into a strategic partnership with In-Q-Tel the independent strategic investment firm that identifies innovative technology solutions to support the missions of the U.S. intelligence community. The investment will contribute to 908 Devices' development of handheld mass spectrometry tools and demonstrates that the unprecedented chemical detection and analysis capabilities of this technology are aligned with national security needs and demand within the commercial market.

### Portable Mass Spectrometry

Mass spectrometry is an analytical technique for measuring the mass of charged molecules and can be used to identify potentially toxic chemicals and explosives. Although the technology behind conventional systems is well established, due to their cumbersome size, fragility and complex operation and service, they are not suitable for use by untrained users operating in the field. It is these first responders such as the military, bomb squads, the police and fire fighters who would benefit dramatically from the use of truly portable mass spectrometry technology that could be deployed at the time and place it is needed most.

Existing 'person-portable' mass spectrometry devices, or 'luggables' as they are commonly referred to, have been developed over the past several decades as adjuncts to the capabilities of laboratory systems. Among the 'luggable' products available on the market today are the Guardian and Hapsite systems from Torion Technologies and Inficon respectively. Both weigh around 30-35lbs, cost in the region of \$100k+ and are considerably less rugged than typical military equipment.

The Hapsite chemical identification system is a portable gas chromatograph/mass spectrometer designed for on-scene detection, identification and quantification of toxic industrial chemicals. Used by environmental agencies, military units and dedicated response teams, Hapsite

### About 908 Devices

908 Devices is bringing the powerful capabilities of Mass Spectrometry out of the confines of centralized laboratories. 908 Devices' products range from rugged, handheld chemical detection tools to compact, dedicated analyzers for researchers, serving a range of industries including safety and security, food science, biotechnology and clinical diagnostics. Founded in 2012 by a proven team of industry and technology veterans, 908 Devices is based in Boston's Innovation District. [www.908devices.com](http://www.908devices.com)

has enabled users to identify hazardous chemicals enabling them to make decisions faster and more reliably. Torion Technologies launched Guardian, in partnership with Smiths Detection in 2012, providing a measurement time of 3 minutes or less and the capability to run 30 samples on a single battery charge. Both products are improvements over laboratory systems for field operation but despite the fact that 10 years have passed between the development of these 2 products, there has not been a significant leap in the technology around size and weight, complexity, ruggedness or cost and there are still limitations. Conventional approaches to mass spectrometry are only driving improvements in these areas at a very slow pace.

### Limitations

Existing portable mass spectrometry devices undoubtedly represent a significant step forward in the creation of portable mass spectrometers that are suitable for use in the field. However, from a user perspective they are still not delivering the ideal solution as they are still relatively complicated to use and are dependent on a user having completed comprehensive training to be able to interpret the data. In addition, they are not fully hardened for routine operation in harsh conditions or for rough handling. Consequently, market penetration has been somewhat limited to small numbers of specialists.

The development of existing portable mass spectrometry instruments has always started with the components of complex laboratory systems being reduced in size and the software being simplified using shortcuts and then putting the system in a robust box. Despite now being smaller in size and slightly less complex, they are still relatively fragile and are therefore not always suitable for use in hostile environments. Rather than taking the existing systems and attempting to make them smaller, the tools need to be built from scratch to be purpose-built and as effective as possible.

### Future Possibilities

Looking at how other technologies have been successfully miniaturized, can suggest how ultra-compact mass spectrometry tools could be developed to meet the needs of security personnel

and first responders. The most successful miniaturized technologies have been developed with the needs of the end-user in mind and are focused on solving a specific problem rather than as general purpose analyzers. They deliver a radically different technological approach to the size, weight and power capabilities while also having the appropriate built-in ruggedness and reliability. Ultimately this technology delivers answers to non-expert users allowing technology specialists to operate in a broader support role.

Mass spectrometry is currently the gold standard for analytical testing in laboratories. Making the technology more widely available by moving analysis to the point of need will lead to a sea change in how chemicals and explosives can be detected. By bringing the analysis directly to the samples at the time and place it is needed will dramatically improve the capability of first responders to respond to threats effectively.

908 Devices is committed to bringing the powerful capabilities of mass spectrometry out of the confines of the laboratory into the hands of the first responder. The demand for handheld mass spectrometry tools will generate several billion dollars in sales over the next 10 years if tools that are sufficiently rugged and simple to use are developed. The expert team at 908 Devices are developing simple and purpose-built, battery-powered tools that provide chemical detection and analysis at the point-of-need - untethered from permanent facilities or mobile laboratories. Truly handheld and weighing only a few pounds, these analyzers are far beyond the unwieldy and complex 'luggable' systems available today. 908 Devices' proprietary High Pressure Mass Spectrometry (HPMS™) technology is a breakthrough that enables this leap in size, robustness and simplicity. The systems will give non-specialist field personnel analysis with extreme sensitivity – to the part-per-billion level – while simultaneously distinguishing hundreds of different chemicals.

Miniaturized mass spectrometry development is being driven by industry and customer needs such as those identified by the NGCD program, which will be the catalyst for additional large-scale commercial opportunities. The introduction of handheld devices that are both sufficiently sensitive and selective to a wide range of substances will open up a wealth of possibilities in the safety and security markets protecting the public against constantly evolving chemical, biological and explosive materials. Mass spectrometry has been waiting for a technological breakthrough. In this constantly evolving world, there has never been a better time to take the powerful capabilities of mass spectrometry out of the laboratories into the field.

### ▶ CONTACT

**Dr. Chris Petty**

908 Devices Inc., Boston/USA

Tel.: +1 608 358-6357 · [cpetty@908devices.com](mailto:cpetty@908devices.com)

# CPSE<sup>TM</sup> 2013

## THE 14TH CHINA PUBLIC SECURITY EXPO

Oct 29 - Nov 1, 2013 | SHENZHEN CHINA

[www.cpse.com.cn](http://www.cpse.com.cn)

The CPSE Golden Excellence Award 2013

CPS Forum 2013 - The 11th China Public Security Forum

The Public Security Academic Forum



Exhibitor partial list



From 5–8 November the International Congress of A+A – Safety and Health at Work – will be held for the 33rd time now at the Düsseldorf Congress Center. The organiser, Basi, invites all experts to use the four congress days to gather information on and discuss the complete spectrum of current issues in safety, health and ergonomics.



## EVENT

# Work and Health

## A+A Trade Fair and Conference with Strong Focus on Prevention

In 60 lecture series presented at the Congress running concurrently with the A+A trade fair, 350 high-calibre experts from political, research and practical fields concerned with safety and health at work will discuss current developments in society, reform projects in national and European policy, technical and organisational innovations as well as the latest scientific findings. 5,000 delegates are expected to attend the Congress. The partner country of A+A 2013 is Turkey. This is why the Turkish Labour Minister Faruk Celik is expected to be present at the opening event.

### Mega Theme “Work and Health”

The “Work and Health” theme currently enjoys as much public attention as ever. Especially stress, psychological strain and disorders as well as the “burn-out syndrome” as a focal health problem (at least in Germany) are nearly omnipresent in the media but also in politics and business.

The public visibility of occupational safety and health themes does not always correspond to their “real” importance for prevention. In its “Stressreport Deutschland 2012” the Federal Institute for Occupational Safety and Health (BAuA) has now submitted facts and figures for this theme on the basis of a survey of the employed conducted jointly with the Federal Institute for Vocational Training (BiBB) in 2011/12.

58% of the in total 20,000 people polled mentioned multi-tasking as a job profile requirement followed by pressure to perform (52%), repetitive work processes (50%) and disruptions at the workplace (44%). Workers perceived time pressure and the pressure to perform as constituting a particular burden for them (34% of those polled). The “Stressreport” also narrows down the on-going restructuring activities in modern working life as a particular focus of pressure. In the opinion of those polled, however, the level of psychological strain as a whole has remained almost unchanged since 2006.

This means “mental” requirements and stress in the widest sense of the word in fact rank top of today’s stress agenda. And there are many indications that a “burnt-out” man who is exposed to a kind of communication overkill and constantly expected to be creative and positive and ready to perfectly organise and market himself, could basically become the prototype for the negative consequences of the modern working (and living) conditions on health. (Carmen Losmann has covered this new working world in her impressive film “Work Hard – Play Hard”, which will also be screened at A+A as part of the art and theatre festival complete with a Q&A session with the film director). Many studies also evidence the most important “antidotes” such as good leadership, general support

especially from superiors and colleagues as well as sufficient recreation and building resilience.

The importance of stress and psychological as well as organisational burdens by no means belittles such physical burdens as noise, hazardous substances or lifting and carrying of heavy loads. The BAuA’s aforementioned large-scale survey already provided evidence of these burdens. With the exception of extreme physical burdens and fatal risks these have not decreased across the board – on the contrary, they have increased in many areas – like in the construction industry where numbers are rising – or completely new areas. Irrespective of this, the growing significance of mental stress and disorders is almost symbolic of the turning point facing the field of health and safety at work.

### Potential in Prevention

The concept of occupational health originated as a human issue. This ethical-political focus continues to serve as a compass and main driver. Compared to the situation 30 years ago, however, safety and health at the workplace now feature in a new economic context. Today, we can clearly evidence that economically sustainable, “safe and healthy” companies depend on safe, healthy and ergonomic working conditions.

2011 saw over 178,000 people retire from active working life for medical reasons in Ger-



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# Ansell



many. A current study puts the social costs of early retirement at over EUR 20 billion per year; half of these costs can be seen as a consequence of labour-induced burdens.

With an average incapacity to work of 12.6 days per worker, Germany posted 460.6 million days of absenteeism in 2011. Depending on the volume of incapacity to work, the Federal Institute for Occupational Safety and Health estimates that the resulting production losses impacting the national economy total EUR 45.7 billion and puts the loss of gross value added at EUR 79.5 billion.

Prevention is an investment in the future. Retaining and promoting staff health and their ability to perform is therefore increasing in importance for the business community and for social security and policy-makers. A safe and healthy working environment decisively contributes to companies' ability to innovate and compete. Many corporate case studies prove that safety and health measures at the workplace result in lower staff turnaround, improved process and product quality and improve the company's image.

Health protection and promotion are essential prerequisites for staff motivation and creativity. Especially in highly developed economies the "human factor", human skills and the quality of work, is of vital importance in the global competition between different locations. This has also become especially clear in the past economic crisis despite the doubtlessly negative consequences above all in the "short-term economy". Effective and efficient prevention can sustainably improve a person's quality of life, mobility and ability to perform and reduce a major share of the otherwise required (consequential) costs of illness. All too soon, economising on

safety, health and ergonomics often proves bad planning also in business terms.

This means that safety and health at the workplace benefits not only the workforce. The economic potential of prevention is also substantial and must therefore be exploited markedly better especially in view of the "ageing" societies in Europe. This is precisely the strategy pursued by modern-day occupational safety and health when incorporated in business process flows as a discipline. Today, it can depend on a great awareness for safety and health risks and favourable economic arguments in Germany and Europe but increasingly also in the rest of the world.

#### A+A International

The international sessions of the A+A Congress programme particularly feature the International Labour Organisation (ILO), the International Social Security Association (ISSA), the European OH&S Agency, Turkey as a partner country of A+A 2013, international OSH associations and the technical sessions with German/English interpretation. The focal themes of the international technical sessions revolve around such classic health & safety themes as Personal Protective Equipment, occupational diseases, testing and certification, transport and road safety, international education standards in prevention as well as safety coordinators on construction sites.

#### ILO Conference "Make it Visible – Occupational Diseases"

The recognition, prevention of and damages paid for occupational diseases on a global scale are the subjects of the 2-day conference of the International Labour Organisation (ILO) as part

of the A+A Congress. The primary issues addressed will be asbestos-induced and musculoskeletal disorders as well as psycho-mental illnesses. Also centre stage at the event will be the creation of a national, legal framework as well as the role of labour inspectorates and the two sides of industry.

#### Partner Country Turkey

Turkey is the partner country of A+A 2013. The Turkish Labour Minister, Mr. Faruk Celik, is expected to attend the A+A opening event. As part of the partner country activities a Turkish-German OSH dialogue will be held on the afternoon of the opening day of A+A. This expert discussion will focus on the OSH strategies of both countries, PPE and risk assessment, to name but a few topics.

#### Health & Safety in Logistics and Transport, Security at Construction Sites

A 1-day event organised in partnership with the European OH&S Agency and the German Road Safety Council will deal with health & safety at work and road safety in logistics and transport on a European scale.

#### ▶ CONTACT

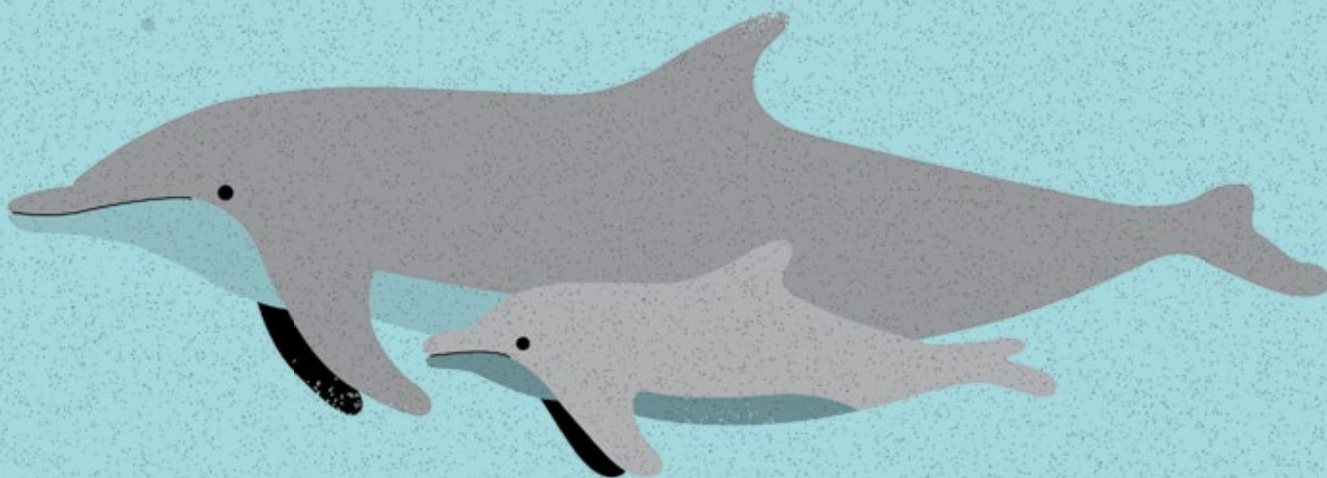
Messe Düsseldorf, Düsseldorf, Germany  
Tel.: +49 211 45 60 900  
www.messe-duesseldorf.com

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## SAFETY

# Well Suited

## Viking Haztech Dry Suit in Cold Water Diving Tests



© Vegard Sandvik

Ansell, a global leader in protection solutions, has announced that the Viking Haztech has passed the EN ISO 7854 flex test method for flex cracking at low temperatures with very good margins and shows no visible changes or pressure failures at all for cold weather conditions. Ansell is now moving forward in supplying customers who live, work and dive in areas of the globe where extreme cold water conditions exist.

The Viking Haztech dry suit was launched onto the diving market in April 2012. Since that time, sales have grown steadily in the sectors for which it was originally intended, namely light contaminated water use, in normal to warm water areas. As a result of the success of this suit, customers have requested that suits be supplied in areas of cold water diving. It was necessary that flex testing be carried out to ensure that the Haztech would perform equally well in more extreme cold conditions.

"This represents another example of Ansell working together with our customers to fulfill their specialized needs" says Thomas Draskovics, President and General Manager of Ansell Specialty Markets. "These results reflect Ansell's commitment to testing and validating the performance of its products to ensure they meet the necessary safety requirements of its customers".

Under the European dry diving suit standard EN14225-2:2005, a cold donning and doffing

exercise is completed at temperatures of -20 °C. As such, this test is not only for the suit, but the diver is tested as well. Viking Haztech has previously passed this test and possesses the above EN 14225-2 certification. Ansell employed an external testing facility to test the Viking Haztech material for flex cracking at low temperatures according to the EN ISO 7854 flex test method. The material was flexed for more than 200 cycles at temperatures of -20 °C, -30 °C and -40 °C with results showing no visible changes or pressure failures at all.

### ► CONTACT

#### Martin Lundström

Ansell Healthcare Europe NV, Brussels

Tel.: +46 10 205 1816

[martin.lundstrom@ansell.com](mailto:martin.lundstrom@ansell.com)

[www.anselleurope.com](http://www.anselleurope.com)

### Fire Alarm Control Panels Integrated

Aeos now offers integration of the Notifier fire alarm system within its web-based user-interface. All statuses of Fire Control Panels are shown in the interface so all relevant functionality can be handled from one web based application. The integration enables users to react faster. In case of a fire alarm, the location of it will be automatically shown in the Aeos Graphical Alarm Handler. The relevant camera will immediately pop-up so users can see real-time footage and details of who has

entered and left the specific area. This enables users to make fast, accurate decisions about what action to take. It also allows for automatic responses to events. The interface enables users to design customized responses to scenarios enabling them to plan carefully for incidents before they happen. So in a panic situation the user can activate the appropriate, pre-defined settings with just one button, maintaining the applying policy in case of fire.

[nienke.bomers@nedap.com](mailto:nienke.bomers@nedap.com)

### Accredited Calibration of Field Strength Meters

Narda Safety Test Solutions has been awarded accreditation for electric and magnetic field strengths by DAkkS, the national accreditation body of the Federal Republic of Germany. This enables the Company to offer accredited, internationally recognized calibration of field strength meters to their customers. The calibration laboratory is accredited for electric field strengths in the frequency range 9kHz to 18GHz. The calibration range covers up

to 300V/m depending on the frequency, and extends down to 2V/m – i.e. field strengths that are relevant when it comes to measurements for human safety and environmental field exposure. The accreditation certificate confirms that the laboratory meets the "general requirements of competence for test and calibration laboratories" according to DIN EN ISO/IEC 17025:2005.

[www.narda-sts.de](http://www.narda-sts.de)



### Intrinsically Safe Infrared-transmitter for Explosion Prevention

For detecting flammable Gases, GfG has designed the intrinsically safe infrared Transmitter IR29, with his worldwide patented 4-beam and 4-wavelength measurement technology. The IR29 is compensated to the outside influences pressure, temperature and humidity. In addition to the zener (safety) barrier SB1 the Transmitter becomes intrinsically safe. So use and service under tension is possible also in Ex-Zone 0. The body is made of V4A high quality steel and Polycarbonate and reaches the



casing protection guard level IP67. The optional Display is readable in each mounting position.

[www.gfgeurope.com](http://www.gfgeurope.com)

### Control Unit for Hold Open Systems

The Control unit for hold open systems FSZ Basis is an electric power supply, a manual button, an alarm memory and a reset-button all in one device. The FSZ Basis fits on doors and gates and equates the guidelines of DIN EN 14637 as well as the test regulations of the DIBT of 2012. With these characteristics the FSZ is not only technically up to date but also with standard specifications. It is compatible to several predecessors of Hekatron and to consisting pipeline networks. It's a cost-efficient solution, especially for gradually upgrading. The FSZ Basis is also very reliable



for complex environmental conditions because of the protection category IP 54, the keypad and the line monitoring refer to DIN 14637.

[www.hekatron.de](http://www.hekatron.de)

### Gas Monitor Using DualSense Technology

The Tango TX1 is the first single gas monitor using DualSense Technology. Unlike conventional gas detectors, Tango uses two identical sensors to measure a single gas: CO, H<sub>2</sub>S, SO<sub>2</sub> or NO<sub>2</sub>. The two sensor readings are processed through an algorithm and displayed as a single reading to the user. If one sensor fails, the Tango will continue to operate as a single-sensor instrument. Probability of a failure event is thus significantly reduced and users are much safer, regardless of bump test frequency. Additionally, a three-year runtime and warranty provide the user cost savings. [www.indsci.com](http://www.indsci.com)



### Ex-approved VoIP Communication Point for Industrial Safety

Stentofon's latest IP station range for communication in extreme environments includes an Ex and IP-66 approved VoIP Intercom Station. Conforming to requirements for industrial and offshore environments, as well as for ATEX Zone 1 operations, it offers crystal clear audio with high output through a 1.2W internal amplifier and 78mm speaker. Active Noise Reduction and Acoustic Echo Cancelling allows for hands-free two-way communication in extremely noisy environments. Used together with Stentofon's communication platform or in an existing or new iPBX utilizing SIP capabilities, the station is a natural evolution of the highly acclaimed Stentofon Turbine series, enhancing industrial safety through communications over IP. [www.zenitel.com](http://www.zenitel.com)



### Low Profile Multi-megapixel Cameras



Arecont has introduced its small form factor product line, Micro Dome. The ultra low profile multi-megapixel cameras are designed for applications where both high-resolution and a small footprint are required. The cameras are available in resolutions of 1.3-megapixels (MP), 1,080p, 3MP and 5MP, with Wide Dynamic Range (WDR) up to 100dB at full resolution available at resolu-

tions of 1,080p and 3MP. Indoor models with an innovative in-ceiling mount are being released first, and will soon be followed by indoor/outdoor surface mount models. The in-ceiling configurations have three spring arms at the top of the camera that easily fit through the small installation hole and then expand and lock to secure the camera into place.

[www.arecontvision.com](http://www.arecontvision.com)

### Compact Illuminators

G-Lite Compact is Geutebruck's new series of discreet and unobtrusive illuminators for use with day and night cameras. While the latest generation of SMT LEDs gives them a very long range, their flexible nature enables them to provide even illumination in any situation. Beam angles can be adjusted to accurately match the camera's field of view both by swiveling the individual illuminators and by swapping the diffusers with the alternative ones provided. The IP66 weatherproof housing is suitable for outdoor and indoor applications, and the polycarbonate front cover provides protection against vandalism. High



efficiency diodes and the efficient heat dissipating design ensure low power consumption and a long lifetime of constant use. With an integral wide-range PSU G-Lite is designed for easy installation for any surveillance system.

[www.geutebruck.com](http://www.geutebruck.com)

## FIRE DETECTION

# Silent Alarm Standard

## Shedding Light on the New Standard for Visual Alarm Devices



Paul Pope,  
Apollo Fire Detectors

The introduction of a new standard [EN54-23: Fire alarm devices – Visual alarm devices] has been postponed until 31 December 2013, but manufacturers need to act now to ensure their products meet the standard's requirements. Paul Pope of Apollo Fire Detectors considers the implications of this new European product standard and the reasons behind its introduction.

The aim of EN54-23 is to ensure that any individual with a hearing impairment is notified in the event of a fire. This includes individuals that are classed as deaf or hard of hearing, and also individuals whose hearing may be temporarily affected by external factors such as areas of high ambient background noise, the use of ear defenders, or even the intentional limiting of an audible alarm. In these situations, audible alarms – sounders – are not considered effective as the only device used as a means of warning.

Following the introduction of the Equality Act, one solution that has become popular is a combination of audible and Visual Alarm Devices (VADs), historically known as beacons. VADs are particularly useful in areas such as hotels, hospitals, care homes and shopping centers to name a few typical points of application. VADs should be positioned wherever hearing impaired individuals may be unaccompanied e.g. bathrooms, toilets and bedrooms. They are not, however, intended to waken people from sleep.

### How Bright Is Bright

Until as recently as 2010, no European product standard existed to determine the light output performance criteria and installation requirements of VADs. This resulted in inconsistency across how manufacturers declared their products' performance. This is all set to change with the introduction of EN54-23 because, from 31st December 2013, manufacturers will have to meet specific requirements, test methods and performance criteria for VADs. It is hoped that this will enable those responsible for specifying a fire detection and alarm system to compare like with like and to identify the best VAD for each application.

EN54-23 will address light distribution patterns or specifically, a product's coverage volume performance. VADs will be classified into three categories depending on the application in which they will be used: ceiling mounted, wall mounted and open class devices. The size of each product's coverage volume will be determined by the distance at which the illumination of a surface perpendicular to the light source achieves illumination of 0.4 lux (0.4 lm/m<sup>2</sup>).

For the wall and ceiling mounted categories, the VAD has to achieve a specific dispersion pattern, whereas the guidance for open class devices is intended to allow some existing designs to be used or cater for specialized applications. The specifics for wall-mounted devices are that



“EVERY YEAR AROUND  
THE WORLD SOME  
270 MILLION  
ACCIDENTS  
HAPPEN AT WORK”\*

the mounting height is limited to a minimum of 2.4m and illumination is set to 0.4lux over a cubical space. Ceiling mounting heights are fixed at 3m, 6m and 9m (using VADs at heights above 9m becomes inefficient) and ceiling devices are required to illuminate cylindrical space. In the open class of device, the manufacturer is permitted to set the coverage shape as there may be an advantage to using the product in specialized applications.

#### External Testing

Manufacturers will have to appoint an EU Notified Body to test and certify a VAD's coverage volume. When tested, each VAD will be given a coverage volume specification code. Manufacturers will have to make this available on the product itself or on supporting documentation. Apollo, for example, will declare this code in its product guides.

Other EN54-23 requirements that manufacturers must ensure their VADs comply with relate to luminous intensity (min. 1 cd or 70% of all measurement points and max. 500cd for any measurement point to prevent glare), a flash rate of between 0.5 Hz and 2 Hz (to avoid the risk of photosensitive epileptic seizures) and the use of only white or red flashes. Importantly, the chosen color must be consistent across the whole site, which is particularly important when extending an existing system.

#### Blindingly Obvious

Where an assessment has been conducted and the need for EN54-

23 VADs within escape corridors or staircases has been identified, there is little guidance in the codes that helps to mitigate the risk of glare to the occupants during evacuation using the new high output VADs. The LPS1652 Code of Practice for Visual Alarm Devices used for Fire Warning codes places high responsibility on the designer to provide the highest background level lighting. This may result in excessive glare to the occupants during an alarm condition in periods of low light. If glare occurs, it is possible that susceptible individuals will suffer from visual impairment. This must be considered as part the of evacuation strategy for those at risk.

If they have not already done so, it is high time for those responsible for specifying fire detection and alarm systems to review the changes to the standards and codes, consult with the relevant interested parties very early on during the consultation and design stage, refer to the risk assessment and evacuation strategy for guidance on where VADs are actually needed and make a sensible decision based on each individual application.

#### ▶ CONTACT

Apollo Fire Detectors, Havant, UK  
Tel.: +44 2392 492 412  
marketing@apollo-fire.co.uk  
www.apollo-fire.co.uk

→ Safety and security are essential for the protection of employees and thus for the success of any company. A+A provides inspiration for the market and is the most important event in the industry. Here you will experience product innovations of the future, meet experts from around the world and close any safety gaps!

\*Source: International Social Security Association/ISSA

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## COVER STORY

# A Look to the Hills

## Effective Video Management Increases Safety on the Matterhorn Gotthard Bahn

Thinking of railways in Switzerland unavoidably conjures up images of the famous Glacier Express. And it's true that the Matterhorn Gotthard Bahn does operate this internationally famous tourist experience train together with the Rhätische Bahn. But the Matterhorn Gotthard Bahn also plays a leading role in operating regional transport in the Gotthard region, operates the Autoverlad Furka and brings guests and goods into car-free Zermatt. More than six million passengers use its routes each year. Since the end of 2012, customer information services have improved and traveling with the MGBahn has become even safer through the use of modern video technology.

When the decision was taken to introduce a video surveillance system on the Matterhorn Gotthard Bahn, the need for better security on the stations or the fight against vandalism had lower priority. Much more important was the desire to have a better ability to generally provide the passengers with more information on the platforms, to be able to see even the most remote station at a central point at any time so that staff could react effectively to specific situations and any possible danger. It should be noted that the numerous stops to be monitored along the lines of the MGBahn present many different operating conditions. The palette ranges from a busy city station – such as Brig for example – to the request stop up in the mountains, where the station only operates for a few hours, and only on sunny days.

### The Project

After issuing a tender, the MGBahn decided in the middle of 2011 to work together with Ruf Multimedia AG as integrator. The decision for Ruf Multimedia AG fell not least because of successful cooperation on previous projects and because of the capability of the company to integrate both passenger information and video surveillance into one solution. The long-established Ruf Group, with its headquarters in

Schlieren near Zürich housing 200 employees, is internationally active and specializes in solutions for public authorities and public transport.

This was no easy task for Project Manager Sven Schraven and his team: first of all eight stations should be centrally monitored in the pilot project, the final size being 43 stations. The video data should be gathered in the central operations room together with all other data relevant for rail transport safety and made available to the company's own highly-qualified team. The team works around the clock ensuring the safety of passengers and, as well as providing safe rail travel, also supplies the passengers with all relevant information.

### Video Surveillance

In an early phase it already became clear that the operations room must have access to recorded data as well as the live images coming in from the cameras on all stations. The video data should therefore be stored locally in full definition at each station so as not to overload the data circuits leading to the central control room (1GB network) that are also used for other purposes.

To keep the installation effort to a minimum but nevertheless receive high-definition images it was decided to use three Megapixel camera

models from Axis for the outside areas that all deliver pictures in HD: the Axis P1344 E, Axis P3344 VE and Axis Q 1755 E with 10x optical zoom for monitoring the platforms.

Those who know the weather in Switzerland and the conditions at the stations also know that the cameras up in the mountains are exposed to extreme climatic conditions. Installation and any maintenance work on the overhead lines are extremely difficult and rail service must sometimes be suspended for a while. It was then all the more reassuring to find that, during the entire 6-month test phase through a hard Swiss Winter, not one camera failed. That saves costs and avoids stoppages.

### Manage the Data and Maintain an Overview

The team in the central operations room of the MGBahn must have both the video data and the information relating to train operation in view. A flexible layout of the GUI on the workstations was requested for different operators, so when choosing the video management system the very simple and user-friendly software XProtect from Milestone Systems was an obvious choice. What was needed was a robust and easy-to-install software that met the needs for local storage and central management.



Traveller information, voice information and video surveillance combined at one station



The control room has everything in view

Project Manager Sven Schraven has never regretted the decision to employ the XProtect Enterprise solution from Milestone: „The Enterprise solution allows us to store on many commonly administered servers and easily copes with the 100 or so cameras in the final configuration. The software fulfills the need for a robust centrally-managed system. We store the video data as legally required for 72 hours on our local servers that are running XProtect Enterprise. The central control room has access to all the high-definition data at any time if needed should the H.264 compressed and continuously transmitted live streams in VGA-resolution not be sufficient. Training the staff was very easy and the Smart Client user interface appealed to them with its intuitive layout. The problem-free operation means that we have virtually no questions from the users. They and we are totally happy with the system.“

### One Solution, Many Advantages

The system has been running now for many months without any problems and construction of the final stage has now begun. The hurdle of increasing the information available and the safety of the passengers has already been easily cleared by this solution. It is also groundbreaking because of the integration of the video



An Axis P 1344 E in use at Brig station

surveillance with the modern passenger information system developed together by ib datentechnik and PSI Transcom. No-one waits on the platform anymore with no idea what to do. The central control room now has images of the local situation and can inform passengers with announcements and via the display boards.

### ▶ CONTACT

#### Roger Meier

Milestone Systems, Wiesbaden, Germany  
Tel.: +49 611 97774 425 · [www.milestonesys.de](http://www.milestonesys.de)

#### Sven Schraven

Ruf Multimedia AG, Schlieren, Switzerland  
Tel.: +41 44 733 82 64  
[sven.schraven@ruf.ch](mailto:sven.schraven@ruf.ch) · [www.ruf.ch](http://www.ruf.ch)

## VIDEO MARKET

# Video Security in the Year 2020

Gazing into the Crystal Ball –  
By Dr. Magnus Ekerot (Part 1)

Like any other industry, it is hard to say what the future holds for video security.

Global political developments, economic crises and similar are all influencing

factors that can play a key role. Of course, it is possible to draw some

conclusions from current developments. Dr. Magnus Ekerot, Chief Sales

Officer at Mobotix AG, looks to the future.

You don't have to be a fortune-teller to assume that more and more applications will run over the network in the future. This also applies to video security as the trend toward digital solutions continues to be strong. Users are set to profit from the flexibility, higher image quality and new options digital technology has to offer.

## Network Without Boundaries?

It is possible to combine and control many applications over the network in a „large system.“ However, the network then becomes a bottleneck because more and more applications are running over the same network. If you take into account the trend toward higher image qualities in video systems, you then have very large amounts of data that require a well-dimensioned network for rapid data transfer. This should not be reason to refrain from increasing image quality or modernizing and extending the network. A sound, cost-efficient balance between feasibility, technical concepts and actual requirements will be the best solution in the future. In terms of image quality, I anticipate 5 to 10 megapixel resolution as the future standard.

## More Mobile, More Flexible?

The mobility trend is likely to continue to increase. Customer and integrator requirements of the future are likely to include the ability to directly control cameras and access camera data or set up the complete system remotely, import updates or make other changes in the system configuration. Providers have to react. However, in doing so, they cannot afford to lose sight of a key factor: user friendliness. One solution is special app offers that allow complete video management or the setup of complete systems via mobile end devices, without any restrictions

Dr Magnus Ekerot in Mobotix' own production hall in Langmeil/Germany: the Chief Sales Officer knows how to look at video security in the year 2020

in the data transfer rate or image quality. This requires new codices and streaming methods as well as a certain degree of product intelligence.

The system has to be flexible in terms of expansion capabilities with new cameras as well as in terms of sustainability. It must be possible to add new functions to old models using updates. Flexibility will mean even more in the future as development efforts move toward the idea of a platform rather than an individual product. In a nutshell, it means that the customer does not have to define unchangeable camera features when choosing a camera. Instead, the user can select the sensor modules from a kind of construction kit. This way, systems can be quickly adapted to new requirements or technical changes.

This creates enormous advantages for system integrators. On the one hand, it puts them in a position to generate updates and added value for customers without incurring major additional costs. On the other, they can implement future customer requirements into appropriate solutions with lower storage capacity.

#### What Generates Added Value?

Future video security system requirements are sure to include video analysis, which is set to become more popular in the future. Analyses such as heat maps or counting lines will deliver additional information in many areas. Here, providers with integrated added value features can score points where users want to pay as little as possible or demand these services in the overall package without additional costs.

#### Where Will Data Be Stored?

A key question is where will camera data be stored in the future? Within the camera itself? In the cloud? Or via DVR? One thing is certain: An increasing amount of data will be stored inside the camera in the not too distant future. It will be stored in HDTV resolution and for up to several weeks. Data storage in the cloud is also set to increase. The advantages are plain to see. DVR is no longer necessary for data storage and

users can look at video from anywhere using Internet-enabled devices. Hosted video is likely to be a growth market, particularly for smaller companies and private individuals. Does this development mark the end of DVR and on-site data storage? Not quite. Large companies in particular will either want to store sensitive data inside the camera on a permanent basis or in the supposedly less secure global „data cloud.“

#### Growth, Yes, But Where?

Today, most video security systems are in operation in retail stores. With innovative improvements to network cameras and their range of applications, this technology will be interesting for many other industries and markets. I expect high growth rates in a number of different areas. This will include public security, too. Looking at current developments and ongoing discussions, it is safe to assume that video security is set to become standard in public areas, airports, train stations and other areas where large numbers of people are present – and digital technology comes into play here. In terms of image quality for video security in public spaces, it is likely that we will see legislation in place by 2020 that will ensure a minimum image quality. A minimum resolution of one megapixel would be appropriate in order to guarantee that the images can be used to prosecute offenders. Other growth industries include transport, healthcare and education. And, indeed, private users are increasingly seen as customers.

#### What Are The Most Important Sales Regions?

Europe and the U.S. will remain the core markets for video systems. The markets are already saturated, however, the technological conversion from analog to digital systems by 2020 will continue to bring high turnover. India and China with their huge population base and high growth rates will be the key drivers in the Asian market. A high level of demand for digital video systems can also be expected in regions with strong broadband infrastructure growth. Fiber optics is a keyword here. I think research firm

RNCOS' prediction of annual growth of 14 percent through 2017 is absolutely realistic.

#### Who Benefits?

It's impossible to say. However, it is clear that users will definitely benefit from the technical innovations and new options, be it higher image quality, mobile solutions or other analysis options. Video security solution providers must orient themselves toward customer requirements and not the other way around. Success on the market requires providers to face a number of challenges that need to be taken into account in the company's corporate strategy. They have to deliver technological solutions that can fulfill current and future requirements, making it necessary to continuously reinvent the company. This requires a balance between the synergies and uniqueness of the products. Manufacturers need a portfolio that has an attractive mix of „bestsellers“ for the majority of applications and innovative „high-end“ solutions that will gradually develop into bestsellers. At the same time, it is important to strike the right balance between price and product features. Corporate success requires technological developments as well as continuous growth, both in terms of market shares and an international presence. To this end, it is crucial to retain control over all of the key processes and new structures that come hand in hand with growth. This is the means to an end: The goal is to be competitive in the future.

#### ▶ CONTACT



Dr Magnus Ekerot

Mobotix AG, Langmeil, Germany

Tel.: +49 6302 9816 111

publicrelations@mobotix.com · www.mobotix.com

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## VIDEO MANAGEMENT

# Sensitive Trackers

See More, Understand Better, Perform Faster

SeeTec has introduced the successor of the SeeTec 5 video management software: "SeeTec Cayuga" is named after a North American Indian tribe. The continent's original inhabitants inspired the developers with their ability to read tracks and to take decisions on the basis of this information, as Stephan Rasp, Chief Executive Officer at SeeTec explained in conversation with GIT SECURITY.



Stephan Rasp,  
Chairman of the  
Board of Seetec

**GIT SECURITY:** Mr. Rasp, as the new CEO at SeeTec you have started the year very optimistically. Not least the developments in the market for video management software have given you hope for SeeTec as a global player with potential. Has your impression been reinforced recently and, if so, for what reasons?

**Stephan Rasp:** As a highly innovative company, SeeTec has initiated many developments in the IP security industry or helped bring them to market. I am very pleased that we are now reaping the fruits of our labor. The projects in which we are involved nowadays have become more numerous and larger. We're talking here not just about installations with 10 or 20 cameras but systems with a four-digit number of camera channels.

**Could you give us an idea what strategic steps you are taking to make the most of this global potential?**

**Stephan Rasp:** Our stated aim is, above all, to support large projects as much as possible and to satisfy their requirements in the best possible way. Our new software product, SeeTec Cayuga, provides a number of different features that exactly meet the requirements of such installations. Amongst others it contains a new internal redundancy concept and provides the option to set up hierarchical administration structures.

**You would like to expand further internationally. What are the most important markets that you have in your sights?**

**Stephan Rasp:** In our expansion plan we will continue to concentrate very strongly on Europe and especially on Great Britain. Although classic security applications have traditionally been very popular in Great Britain, further possibilities that IP video provides together with business solutions are a long way from being widespread. This is a market for us in Europe whose potential has not yet been realized by far. Asia and in particular Russia are also interesting markets for us and we are watching developments there closely.

**Your sales structure is based on a partnership with distributors and integrators – presumably you will keep this?**

**Stephan Rasp:** We get support by reliable partners in every country we do business in. In some cases, these partnerships have been in existence as long as SeeTec itself. As a medium-sized company, we make use of the potential that our partners provide through their contacts and customers. Our partners play a key role in our communication with the end-users. Our main aim is always to understand and meet the demands of our customers as well as possible - who can help us better than a well-networked partner in the respective region? We look for the interac-



tion together and learn so much about the demands placed on video systems. This gives us important input not only for the project but also for our products in general.

**You have just set up a partner program – with which aims and content?**

**Stephan Rasp:** Our partner program has already proved it's worth over the years. We have almost 500 certified partners worldwide meanwhile as well as 300 so-called "Entry Partners". As we want to make the cooperation as profitable as possible for both parties we have adapted our partner program to match current needs. "Partnership by design" is the catchphrase: that way we want to demonstrate the central role our partners play for us. We concentrate on four prime elements, namely sales, support, our new license model and the product.

**What does that mean in detail?**

**Stephan Rasp:** Our own sales force will help our partners to acquire new end-user customers and to support them. With regard to support, we are continually investing here to help our partners to improve their support for their own customers – end-user support will continue to be provided by our local partners for whom this is often a part of their own business model. Our new simplified license model will assist and support our partners in providing competitive tenders. We have altered the product itself so that it is simple for our partners to configure and so that the end-users can reliably obtain added value from it.

**You just mentioned your new license program. How does it look like and in which direction is it heading?**

**Stephan Rasp:** It is primarily a simplification of the product structure. Instead of offering numerous individual additional options, we are concentrating on three basic packets with different capacity: S50 for up to 50 cameras, S100 for up to 100 cameras and Infinity for an unrestricted number of cameras. Extension packages are also available for SeeTec Cayuga S50 and Infinity that provide additional functionality.

**The new SeeTec Cayuga video management software will be available as from September. It supersedes SeeTec 5 – why did you decide on the name "Cayuga" instead of "SeeTec 6"? What does this exotic-sounding name mean?**

**Stephan Rasp:** SeeTec 5 as a product has been with us now for many years. It was the basis of our success and has been continuously developed over the years. The new software version will now allow us to move into areas of application that have not been served by classic video technology so far – supporting our business processes is of prime importance here. This innovative approach should be reflected in the name of the new software and so we decided to name our new releases as from SeeTec 6 after North American Indian tribes – after all, the Indians are known for their ability to follow tracks using their finely tuned senses and then make the right decisions. This is what SeeTec Cayuga is all about: seeing more, understanding better and performing faster.

**Could you give us an insight into the most important new aspects of the program?**

**Stephan Rasp:** The most obvious change is the GUI – it has been totally redesigned by working together with user interface design specialists and has an appealing layout that permits very intuitive operation, above all, through the use of modern colors and a clearly structured design raster. We also apply the advantages of modern usage concepts, such as those already well known by users of tablets or smartphones, and Cayuga now supports, for example, touch-controlled input devices. SeeTec Cayuga is however not just visually up-to-date but also serves a raft of new areas of application and customer requirements. The new redundancy concept provides uninterrupted operation even if the server should go down – it doesn't matter whether a recording server or a central administration server is no longer reachable. The multi-level administration permits the creation of distributed responsibility (e.g. for various different locations) within the SeeTec rights system.

**What else will change?**

**Stephan Rasp:** With regard to video analysis we have followed the strategy to date of providing the customer with powerful video analysis tools through a solution deep within the system that can also be easily configured without the use of third-party software. We won't move away from this principle in SeeTec Cayuga. However, we are now additionally making a generic analytics interface available that, for example, provides the option of using camera-based image evaluation or server-based analytics tools from third parties with the SeeTec software and processing the images further. This makes industry-specific applications even easier to implement.

**You want to move in new directions in vertical solutions with your new "Open Digital Systems" strategy – for retail, logistics and**

**the finance industry. What is new in your approach?**

**Stephan Rasp:** The increasing complexity of tasks requires support of the most varied software components. For this we use various different "modules", approach such integrations openly and consider ourselves responsible for the integration on behalf of our partners and end-users. We actively take on responsibility for the solution. Even if our system is just one part of a larger installation, the successful conclusion of the whole project is very important for us. We achieve this by working as closely as possible with our partners to ensure a smooth and professional implementation.

**Could you give us some practical examples?**

**Stephan Rasp:** One current example is the integration of the Siemens product SiPass integrated. Initiated by a joint project, the final solution is above all user-friendly and field proven. This is a powerful, flexible and scalable access control system that has already proved itself worldwide in many thousands of installations. The combination of access control and linked-in video surveillance provides the user with a time-saving and particularly easy solution to secure access routes. For example, it allows attempts by unauthorized people to gain access that raise an alarm in the access control system to be forwarded to the SeeTec software. The security staff are informed via an alarm situation in the SeeTec GUI so that an overview of the situation can be obtained and the necessary action taken with the help of cameras.

**Could you also describe some other reference projects that have been realized with your system recently?**

**Stephan Rasp:** We are very proud of our installation in Sochi / Russia for the Olympic Winter Games in 2014. The stations here have been equipped with our software to ensure safe travel for all the sportsmen and women, visitors and staff. Our analytics tools here were the deciding factor for the customer. We have brought more than 570 analytics channels together – more than ever before for a single project. We are working with our local partners to complete everything before the start of the Games in Winter 2014.

**▶ CONTACT**

SeeTec AG, Philippsburg  
Tel.: +49 7256 8086 14  
marketing@seetec.de · www.seetec.de

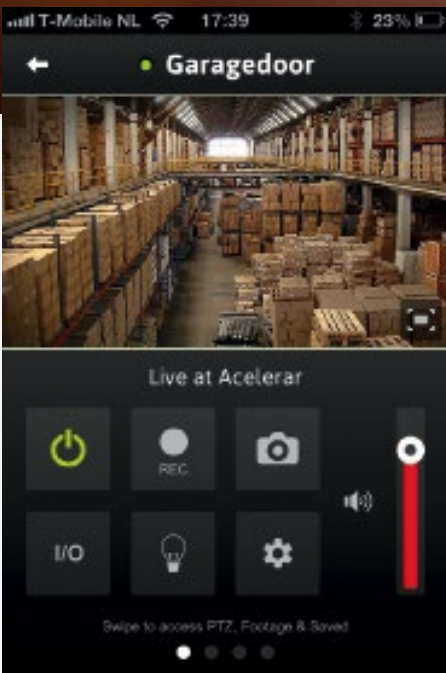


VIDEO MANAGEMENT

# In the Cloud and on Safe Ground

Panasonic Strengthens its Security Business with the Acquisition of Cameranager.com

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Having a strong base in the security camera business, Panasonic took a big step towards becoming a solution provider for the security industry by acquiring a leading provider of Video Surveillance as-a-Service (VSaaS) in Europe. The acquisition of the cloud-based video solutions company reinforces Panasonic's existing security business as it looks to extend its cloud-based solutions to the business and consumer markets.

#### Video Surveillance As-a-Service

At a press conference in Amsterdam Panasonic pointed out that as part of the acquisition, the Cameramanager.com team will join Panasonic Europe. Cameramanager.com provides online video management for security cameras, managing over 40,000 camera connections globally. Founded in 2007 by Tijmen Vos and Rishi Lodhia, Cameramanager.com is based in Amsterdam and has customers in the Netherlands, Belgium, Denmark, Sweden, Norway, Germany, Poland, Switzerland, Brazil, Latvia, Russia and Turkey.

Cameramanager lets you manage IP cameras fully in the cloud. Besides cloud-based video management, the company offers storage packages up to HD 1080p. By using technologies such as H.264, the company created a high availability HD cloud storage platform. The data is stored in well secured data centers across the globe and bank-level SSL security is used to encrypt data to prevent unauthorized access. Cameramanager is an affordable solution that fits well for home security applications and small to medium size businesses due to a low monthly fee per camera.

"Since its inception in 2007, Cameramanager.com has gone

from strength to strength and we're now ready to take the next step in the company's development by joining forces with Panasonic to bring end-to-end, cloud-based surveillance to a wider market," said Rishi Lodhia, CEO Cameramanager.com. "We're delighted to join a company that will continue to support the innovative culture that is the foundation of our business and together we remain committed to delivering excellence in online security"

#### A Step Forward Towards Solution Business

"This acquisition is an important strategic step towards enhancing our smart and connected services offering in the European and CIS market", said Laurent Abadie, Chairman and CEO, Panasonic Europe. "With Cameramanager.com's bespoke software and cloud-based solutions complementing our existing security business, we will be able to significantly enhance our presence in this space, by bring-

ing together technical know-how and software skills and equipping us with the necessary assets to respond to future demands in cloud services".

#### ▶ CONTACT

**Joost Laurijssen**

Panasonic Cloud Management Service Europe  
joost.laurijssen@cameramanager.com  
<http://business.panasonic.eu/cloud-management-service>

## BYE-BYE LIMITS OF PERCEPTION. HELLO INSPIRED SENSE!



### SEETEC CAYUGA NEXT GENERATION VIDEO MANAGEMENT

SeeTec Cayuga sets a new benchmark for the potential of video management. The combination of easy interaction, improved perception and better understanding creates a new kind of video management software – inspired by users' needs and by the technical means of our time. We call that "inspired sense".

The clear and modern user interface provides easy operation. Intelligent analytics and an integrated failover strategy guarantee maximum reliability. As the core of the SeeTec Multi Solution Platform, SeeTec Cayuga enables flexible, scalable and customized solutions for video management projects of any size – from simple building surveillance to multi-site installations in global companies.

[www.seetec.eu](http://www.seetec.eu)

**SeeTec**



## VIDEO SURVEILLANCE

# Really Old **Meets** Really New

## Dallmeier HD Cameras Watch over Saint Nicholas

Protection for a very special pilgrimage church: the relics of Saint Nicholas are held in the sacred care of the Basilica di San Nicola in Bari, Italy. Following their translation from Myra to Bari in 1087, the bones of Saint Nicholas were laid to rest in the former Benedictine church and entrusted to a detail of armed watchmen. Today, the task of guarding the precious remains of the patron saint of Bari has been taken up by the 'electronic eyes' of Dallmeier's HD cameras: the Papal Basilica di San Nicola, the Dominican monastery and the crypt housing the grave of Saint Nicholas all benefit from the protection of a modern, innovative video surveillance system.

Throughout the history of the Church, the reverence associated with Saint Nicholas has been exceeded only by that afforded to the Virgin Mary herself. As a man of immense compassion, he was famed for his generosity to the poor and needy. In 1087, a band of some 60 seamen took possession of his remains and transported them from Myra to Bari. Here, their arrival on 9 May was greeted with an outpouring of indescribable public jubilation. Accordingly, Nicholas of Myra is sometimes also referred to as Nicholas of Bari, the city that watches over his earthly body to this day.

The seamen delivered the bones into the care of Elia, the abbot of the Benedictine monastery, who immediately gave orders for a church to be built to accommodate the saint's earthly body. Even today, the majestic basilica consecrated to Saint Nicholas remains an extremely popular pilgrimage destination and bears ageless witness to the profound reverence in which believers hold this great man of God. The basilica itself is an imposing building that blends well with its historic surroundings in the Old City of Bari. Its massive, simple and austere construction is typical of Romanesque architecture.

### Technology Protects Precious Relics

Since 1951 the upkeep of the renowned Basilica di San Nicola has been the task of the Dominican order (Ordo Fratrum Praedicatorum), one of the most highly respected orders of the Church. The new rector, P. Lorenzo Lorusso O.P. saw that it was essential to equip the basilica and the grave of the saint from Myra with a powerful, modern HDTV security system. It is because of his commitment that a video system was installed at the same time as the renovation works were carried out that would allow unobstructed access to the crypt. In this way, he was able to satisfy the wishes of every devotee of the patron saint of Bari.

"The system that was installed for the Basilica di San Nicola is based entirely on the HD or HDTV standard", explains Dr. Francesco Rana, who has overall responsibility for the security of the Comunità Nicolaiana in Bari: "From the development phase all the way through to implementation and final commissioning, this HD IP video monitoring system has demonstrated outstanding performance and visual fidelity with its high-resolution cameras. Exception quality



Weather-proof IP cameras were chosen for the outdoor areas



Dallmeier HD cameras keep an eye on Saint Nicholas

has been achieved, worthy of the important and revered site it is designed to safeguard."

P. Lorenzo Lorusso O.P., the current prior of the monastery and rector of the basilica, also expressed his personal appreciation of the very high quality of the images and the professionalism of the suppliers. Dr. Pierpaolo Piracci of Dallmeier Italia and the local partner Delta System Technology provided extensive support in the selection of the technology most suitable for satisfying the security requirements for the basilica and the adjacent monastery. Naturally, the entire project was carried out with the most meticulous regard for the difficult and complex challenges associated with such a venerated site as the Basilica di San Nicola, in terms of both the design and implementation phases of the project.

Dr. Pierpaolo Piracci is completely satisfied with the successful installation of the HD video system and remarked: "I am deeply moved to have had the honour and joy of participating personally in the installation of security equipment in the Basilica di San Nicola; I would particularly like to express my thanks to the highly knowledgeable Dr. Rana, and to P. Lorenzo for entrusting me with this undertaking!"

### High-resolution Surveillance

Video security technology and IT security are becoming more and more inextricably entwined. Sophisticated, high-quality surveillance cameras represent the front-line element in a video surveillance system and should therefore be chosen with particular care. With its video IP products, Dallmeier offers full-coverage solutions, both for

video surveillance (physical security) and for the integration of video technology in IT security. For each security concept, a suitable model from the range of box, dome or PTZ cameras (analog, IP or HD) or Panomera is available.

For the outdoor areas of the Papal Basilica di San Nicola, such as the Largo Abate Elia street, the DF4910HD-DN/IR network box camera was selected from the range of HD cameras: it is a weatherproof 3-megapixel high-definition IP network box camera with Cam inPIX technology and integrated IR (infrared) illumination. The camera features automatic day/night operation supported by integrated ambient light sensing, a removable IR cut filter (ICR) and an integrated homogeneous IR illumination provided by semi-covert 850 nm high power LEDs.

The fast (large maximum aperture) and motor-driven megapixel varifocal lens (F1.0 / 2.8-11 mm) which allows adjustment of the focal length and the focus conveniently via web browser as well as the digital image shift function which provides a subsequent digital fine alignment of the image section ensure a straightforward installation process. Built into an IP66-rated weather-proof enclosure, the camera is designed for both indoor and for outdoor applications. The camera is operated via Power over Ethernet (PoE Class 0, IEEE 802.3af) which allows for an easy, quick and cost-effective installation.

The DF4910HD and DF4510HD cameras were used for the interior of the Papal Basilica di San Nicola in the area between the transepts, in the apse and in the crypt where Saint Nicholas is buried. The first is a 5-megapixel high-definition

IP network box camera which, like the IR camera, is based on Cam\_inPIX technology. The camera provides real-time Full HD video (1080p/30) using the H.264 codec that is currently the most sophisticated standard for high-efficiency video compression. Besides a comprehensive set of automatic and manual image optimization functions, the camera features many other setting options, especially useful for demanding surveillance applications. According to requirements, the camera can be supplied conventionally with 12V DC or conveniently operated via Power over Ethernet (PoE Class 0, IEEE 802.3af). A DMS 240 IPS HD recorder stores the generated images.

### Aesthetic Discretion and Uncompromising Functionality

Andrea Bigliardi, Managing Director of Dallmeier Italia, says: "It was a tremendous challenge to equip such a venerated, culturally significant site, which holds treasures of immeasurable religious and historical value, with a modern video surveillance system that would combine the requisite aesthetic discretion with outstanding functional capabilities. We are very happy with the result we have achieved, and I wish to thank P. Lorenzo Lorusso O.P. for the confidence he placed in us, and Dr. Francesco Rana for his invaluable expertise in designing and coordinating this project."

### ▶ CONTACT

Dallmeier electronic GmbH & Co. KG, Regensburg  
Tel.: +49 941 8700 0  
info@dallmeier.com · www.dallmeier.com



NAS

SAN

VIDEO MANAGEMENT

# Plenty of Alternatives, Plenty of Confusion

Storage for VMS: Storage Area Network or Network Attached Storage



**Justin Schorn,**  
Vice President,  
Product Management

Recently there has been a lot of confusion about what storage technology to use on multi-server video projects. Small, single server deployments are straightforward because local storage is normally a reasonable option and easy to deploy. The storage strategy for larger projects is more complex and dictated by many factors: the size of the project, the scope and scale of the existing infrastructure, and of course, the IT budget. The critical decision is choosing between a storage area network (SAN) and network attached storage (NAS). The factors affecting that decision have changed, as both SAN and NAS technology have evolved and virtualization has become a major factor. Network infrastructure may also be a decisive factor; especially if Fibre Channel fabric is already in place or if 10 Gig Ethernet is already in the plan.

Let's begin by clarifying the difference between a SAN and NAS. Understanding the differences and similarities will go a long way towards understanding where each is useful and appropriate.

A SAN is a block storage device. Any device that exposes its storage externally as a block device falls into this category such as an external hard drive or Direct Attach Storage (DAS). We call it an external hard drive when we attach it to a desktop. We call it a DAS when we attach it directly to a server. We call it a SAN when we add some form of networking, generally a switch and a fibre-based cabling system, between the device and the server that is consuming the storage. Common protocols for communicating with block storage include iSCSI and Fibre Channel. In the end, a computer attaching to a block storage device will always see the storage presented as a disk drive.

A NAS is a file storage device. This means that it exposes its storage as a network filesystem. So any computer attaching to this storage does not see a disk drive but instead sees a filesystem. Users and servers attach to the NAS primarily using TCP/IP over Ethernet, and the NAS has its own IP address. Common protocols for communicating with file storage devices include NFS, SMB / CIFS and AFP.

## The Difference

What separates block storage and file storage is the type of interface that they present to the outside world. Both types have the option of providing extended features beneath the "demarcation point" before they hand off the storage to the outside. Both may (or may not) provide RAID, logical volume management, monitoring, etc.

While both potentially can sit on a network and allow multiple computers to attach to them,

only a file storage device has the ability to arbitrate that access. This is very important and cannot be glossed over. Block storage appears as a disk drive. Only one server can write or change the data at once. A file storage device, on the other hand, has natural arbitration as the NAS itself handles the communications for access to the file system.

This distinction is what makes a NAS attractive to VMS. Conventionally, a SAN was used to provide the needed performance on large scale VMS projects. With a SAN using fibre channel instead of network protocols for data transfer (required by a NAS), it reduces latency and improves performance. However using block storage adds complexity since there is a need to statically map each server to a defined RAID target, or LUN in SCSI terms.

Thus, the larger the system, the more mappings will exist. In times when outages are ex-

perienced (such as a VMS server failing or network disruption), the need to statically map the LUNS from one VMS server to another occurs. This results in the loss of access to recorded video while the LUNS are re-mapped to the new server.

Conversely, using a NAS storage element, no re-mapping of video storage is necessary since it can provide a single volume that all VMS servers can simultaneously access on demand. Think of this as a big C: drive but accessible via an IP address. Some NAS providers have this single volume functionality across multiple nodes, which is referred to in the industry as Scale-Out NAS. This flexibility makes it easy to leverage advanced VMS features such as automatic server failover, load balancing and scalability (since any server can get access to any recorded video). A Scale-Out NAS system can provide access to the same data from any node and, thus, can scale linearly in capacity and performance. For example, an Isilon NAS cluster can provide up to 40PB in a single volume, making failover and automatic load balancing easy. All servers simply record to a single name space and no re-mappings of storage location per camera is ever required. Though data transfer rates may still be slightly higher for SANs, the gap is closing and the overall value proposition of a NAS is stronger than a SAN in almost all scenarios.

### A Single NAS or a Group of NAS

If a single enterprise class NAS is out of your budget, using a group of smaller mid-market NAS devices can be considered such as Iomega StorCenter Network Storage devices. Aimetis Symphony 6.12 offers the ability to automatically record video redundantly to more than one NAS or use recording failover functionality to record to a redundant NAS. In this case, each NAS operates independently but any server can gain access to any recorded video regardless of which NAS was used, since storage locations are nothing more than network shares. While a NAS can be used with all Symphony redundancy configurations, a SAN can still be used if each LUN is only being accessed by one server in the farm.

To be fair, there are ways of sharing storage from a block device, but this is not handled by the block storage device itself. Block storage devices are made "shareable" by using a clustered file system. This setup can be complex, making the attractiveness of this approach less appealing as the technology improvements in both Ethernet and file storage devices have closed the performance gap dramatically.

There are situations when block storage is the best choice. In single server deployments such as banking or retail, virtual machines (VM) are becoming increasingly common, with the VMS server running as a VM to reduce the number of physical servers IT needs to manage. Server virtualization offers advanced features such as high availability, or the ability to move a running VM from one host to another. Block storage is very common for virtual servers and works well, but with all server virtualization products now supporting the NFS protocol, NAS devices can provide a worthy, cost-effective alternative to fiber channel SANs for shared storage between VMs.

Finally, it is common today for storage devices to include both block storage and file storage from the same device. The EMC VNX Series is an example of a unified storage system. With unified storage, how the device is configured determines whether it behaves as block storage (SAN) or file storage (NAS). This drives home the point that this is purely a protocol or interface distinction, not one of size, capability, reliability, performance and features. Ultimately, both block or file storage can be used on your video project, but do not prematurely overlook file storage as the value proposition has significantly improved for projects of any size.

### ▶ CONTACT

**Justin Schorn**  
Aimetis Corporation, Waterloo, Canada  
Tel.: +1 519 746 8888  
info@aimetis.com · www.aimetis.com



## Securing Your Most Precious Asset

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## ACCESS CONTROL

# The New Key to Eternal Youth

## High-tech Access Transponders for Young Homes

Affordable accommodation is difficult to find these days, particularly for students and career starters. The online provider Stuworl in the Netherlands lends a helping hand and brings owners of low-priced apartments together with potential tenants to provide both parties with a full service suited to their needs. Stuworl also carries out its own residential development projects with local partners, such as the new rental properties currently being built in Breda and Tilburg. No compromises are made when it comes to security: the German-made locking and access control system from SimonsVoss is already used at four locations, including the head office and all new buildings.

Stuworl concentrates on a specific market segment of affordable living in Holland, in towns such as Venlo, Amsterdam, The Hague, Leiden or Groningen. Prospective tenants, mostly young students and career starters, can seek out suitable apartments, low-priced insurance and stylish household items online. Landlords placed more than 1,500 rooms, studios and apartments for rent on the site in August 2012 and the number of rental properties has been rising ever since. The company accepts available accommodation into their online database free of charge and will take over all estate management for landlords upon request, including finance, administration, technical services and marketing.

### Safe and Modern

The all-inclusive service offered to its clients includes care and support for tenants and landlords, apartment visits, administration and property maintenance. Something is always in need of repair: a broken window, damage caused by water or the heating breaks down. The operations and maintenance teams have everything under control at their headquarters in Vught, near Eindhoven, as well as at their locations in Breda and Tilburg where Stuworl's main new building projects are currently under way. Noth-

ing is left to chance when it comes to security either. Guus van der Salm, Marketing and Communications expert at Stuworl, explains: "The mechanical locking system which we had used for a long time provided too few system management options and did not meet our long-term security requirements. Our rental portfolio is expanding rapidly and we therefore wanted greater flexibility and control with regard to access management." The team also attaches great importance to the ease of use. Van der Salm continued: "The next thing that we really wanted to do was to change over to modern lock technology, which is operated electronically, and suited to our mainly young, technology-savvy tenants."

The switch took place in the second quarter of 2011. The project started with a new technology partner, the German manufacturer SimonsVoss, which impressed the Dutch with its digital system and transponder technology for access control and management. "The SimonsVoss range was ideal for our purposes. We were not only excited by the options for networking and restricted authorization, but also by the look and feel. The products all have a modern and stylish appearance."

Today, all Stuworl employees, the roughly 800 tenants and a number of external service

providers, such as tradesmen and cleaners, no longer carry keys in their pockets, but have a neat little transponder instead. Just one press and users can open main entrances, inside doors, garage doors and barriers. Even the lifts and alarm systems can be controlled with the versatile, digital key replacement. Everything works like clockwork. "We are all quite taken with the locking system, both the tenants and the team here," confirms van der Salm.

### Full Control

Of course, only those who have the corresponding authorization gain access. Authorizations are easily issued online with just a few clicks of the mouse. The communications specialist enthuses: "Everything is so easy now with online programming and the LSM locking system software. We have the flexible option to decide who may enter a particular room and open a particular door at a particular time, according to need. We can control access for each tenant, employee and external service provider on an individual basis by simply issuing or removing their authorization. In short, we finally have complete control at all of our important locations." All team members at the Stuworl headquarters work with the same administration software; employees at other





The rental stock of Stuworld is growing rapidly. That requires the flexibility and control of digital access control.

locations also have access to the software. The multi-user and multi-tenant SimonsVoss technology thus provides permanent networking.

Once a great challenge, lost employee or tenant keys are now easily dealt with in a matter of minutes, an enormous increase in security in van der Salm's opinion: "We no longer need to worry if a transponder is lost or stolen. It is easily blocked and a new one created."

### Holland Is Happy

Stuworld also required that the system upgrades should be quick to implement without any major architectural modifications. "A digital cylinder is installed in just a few minutes. This is because it fits into all customary doors because of its standard Euro profile and is installed without any wiring or structural alterations. Moreover, it is also certified by the German Insurance Association, confirming that it provides optimum security. In addition to the Stuworld head office in Vught, rental properties have also been successfully retrofitted with the system. The new system was in place by October 2012. The new buildings in Breda with 52 dwellings and in Tilburg with 114 dwellings are currently being equipped."

Van der Salm: "We are really happy and hope that we continue to work with SimonsVoss

a long time into the future. When I now think about how many hours we used to spend just on copying keys, I remember how expensive and unsatisfactory that was. Digital technology is much more cost-effective and secure. From an investment point of view, the system pays for itself very quickly. In my opinion, this is the best solution for new buildings at present. We currently have more plans in the pipeline."

### ▶ CONTACT

SimonsVoss Technologies GmbH,  
Unterföhring, Germany  
Tel.: +49 89 99228 0  
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## ACCESS CONTROL

# The End of Dealing with Legacy Security Systems

Dealing with legacy systems is a repetitive problem in the security management industry. Meeting the security policy with legacy systems can be tough, maintenance is expensive and integration with other systems is challenging at best; the problems associated with legacy systems are well known.



The Health Care sector is increasingly required to demonstrate best value, and security is often seen as simply a drain on resources, rather than as a way to add value and provide additional services, making the decision to replace legacy systems harder than ever. Ross Bale, a security professional, is explaining the difficulties of dealing with legacy systems and offers a solution for the ever existing legacy problem.

## The Problem with Legacy Systems

We frequently talk to both NHS and privately owned Hospitals who have one or more existing access control systems which cannot simply be replaced. Most hospitals in the past have either purchased an access product for a specific area or areas which over time have multiplied into a number of different legacy systems, managed by a variety of different people across the site. This means there is no consistent policy across the hospital and people may require one or more cards or access tokens to gain access to the entire hospital.

Trying to add in other future demands such as lockdown, integration of CCTV and locker management is impossible or inflexible with some legacy systems. In addition to these more technical constraints, budgets often mean that hospital security managers are tied to their existing systems. This is unfortunate as upgrading a legacy system might not resolve all of the problems identified above.

## The Benefits of Open Standards

An open platform that enables the integration and management of a wide range of different systems into a single infrastructure enables the hospital to achieve their desires with regard to security without significant capital expenditure. This requires a platform based on open IT standards. With a suitable solution, the security

manager is free to choose the “best of breed” components such as Card Readers, Intercoms and CCTV cameras from any manufacturer without having to wait for integration work or software to be developed to support new products as they are released.

## Integration Saves Money

Being able to re-use existing cabled infrastructure or card technologies, whilst providing new functionality and features, minimizes disruption and keeps costs down. In an environment which is already under significant cost limits, by integrating additional security verticals such as CCTV, Intrusion Detection and fire with Access Control, into a single platform, can deliver a return on investment of around 30 percent. This is without sacrificing functionality or performance compared to installing separate, isolated systems.

By seamlessly integrating electronic locker management into the access control platform, it ensures that the maximum number of lockers are available for staff to use. This reduces the number of physical lockers and space required. Eliminating keys also removes the day to day administration typically involved with a conventional locker solution.

## Consistent Site-wide Policy

When the security platform provides distributed control, some wards retain the ability to manage security in their area giving the same feel of ownership and control whilst utilising the one central security system. In this way a consistent security policy is maintained whilst people feel they have control of their own area. This is particularly important for highly restricted areas within a typical hospital such as the Pharmacy and High Dependency Units, where access should be greatly restricted and controlled.

## Automatic Response

An integrated security platform can respond to situations that occur across any part of the security platform. In this way, it is easy to pre-define responses to specific situations such as emergencies or lockdown policies. The security manager can predefine what should happen when a specific situation occurs. This can either be activated manually by a security manager, or the system can automatically react. For example, if the fire alarm system is activated in a specific location, the access control system may react automatically by unlocking certain doors whilst locking other doors to facilitate a controlled evacuation away from the fire.

## Always Ready for Future Changes

In conclusion, an integrated security management platform based on open standards saves costs. This is done by bringing everything onto a single server and infrastructure platform. This way you can re-use what’s already implemented and reduce server and infrastructure commonly associated with multiple isolated systems.

More importantly, the new system is able to meet the security policy, whilst retaining freedom for different areas within the hospital. In addition, usability is improved through a single intuitive user interface in which all security management tasks can be performed. An integrated security solution as described provides no end of life or restriction as to what can be achieved in the future.

## ▶ CONTACT

Nedap Security Management,  
Groenlo, The Netherlands  
Tel.: +31 544 471666  
[www.nedapsecurity.com](http://www.nedapsecurity.com)

### App Updated

Vivotek has completed its iViewer app update for the iOS platform. Aimed at bringing a more intuitive and friendly user experience, the manufacturer has redesigned the user interface and adjusted several features of the app, enhancing the viewing quality and enabling smoother video accessibility. iViewer, designed for live streaming video from hundreds of cameras managed by the Company's professional central management software Vast, video management software ST7501 and NVR (Network Video Recorder) series, enables users to access surveillance camera video right on their iOS mobile device anytime, anywhere for highly flexible security admin-



istration. The new version supports features such as a favorites list, multi-channel live view and single channel playback, PTZ Control, vertical (portrait) or horizontal (landscape) mode rotation, PIP (Picture in Picture) control, snapshot and fisheye view.

[www.vivotek.com](http://www.vivotek.com)

### H.264 Camera with WDR and Edge Capabilities

IQinVision's new Alliance-pro H.264 camera models feature Wide Dynamic Range (WDR) functionality, enabling them to produce clear, crisp images, even in the most challenging lighting conditions. This enhancement is available in the 720p, 1,080p, and 3.1MP resolution models, thus catering to the majority of market applications. Designed with the integrator in mind, installation is quick and easy thanks to the remote motorized zoom and focus (with A2 and A3 lens options), a hinged pivoting shroud, and 3-axis gimbal. In addition, the ONVIF and PSIA compliant



Alliance-pro offers many advanced capabilities "on the edge" including on-camera storage, Direct-to-Storage recording, Video Analytics and exacqVision Edge VMS server.

[www.iqeye.com](http://www.iqeye.com)

### FullHD With Huge Zoom

LG's LNP3020T is a vandal resistant FullHD PTZ camera that offers a huge zoom capability combined with many features of modern IP CCTV cameras. The extreme high 30x optical zoom combined with a digital zoom allows the user to observe a wide area. Together with features like defog to remove fog automatically, wide dynamic range, exact auto tracking and local recording on to SDHC card, customers get a camera that fulfills all CCTV needs. The operator can use up to 7 independent streams for integration into 3<sup>rd</sup> party platforms, via browser or the option to view the camera on mobile devices. POE+ or 24VAC power supply, -20° operation temperature and



all necessary approvals including Chinese police approval make this camera one of the best choice on the market.

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\*The World Market for Electronic Physical Access Control Equipment Report, IMS Research, June 2013.

## ACCESS CONTROL

# Pins for Pads

## Intelligent Management of Mobile Devices in Education

One of the biggest trends in twenty-first century education has been the delivery of teaching materials by digital means, usually through student use of laptop computers, notebooks and tablet devices. The intrinsic value of these assets, the license value of the software loaded onto them and the time invested in preparation have made it imperative that establishments should ensure the equipment is available to the widest possible student population while also maintaining control, visibility and individual accountability.



Increasing scrutiny of expenditure in the state and private sectors has seen stakeholders demand that the location and usage of any shared portable device should be monitored in real-time and that comprehensive audit trails are available. RFID lockers can automate the issue, tracking and cataloging of assets. They demonstrate the logistical efficiency of RFID technology in the education sector and support the current vogue for e-learning. The return on investment (ROI) of RFID can be surprisingly positive.

Traka's recent experience across schools, colleges and universities shows that facilities managers expect IT assets and other scientific equipment to be available such that students have appropriate tools at all times with the correct learning materials loaded, a fully-charged battery and the device being fit for purpose.

### No Escape

Advances in RFID tagging technology and the integration of that technology into lockers have allowed innovative manufacturers to meet these requirements even to the point of creating a 'closed loop', such that a student is unable to leave a library or e-learning center until an asset such as a laptop has been returned to a dedicated locker and is being prepared for the next user. Premium suppliers including Traka have developed their RFID products in line with the evolution of teaching and learning methods.

It is common to restrict access to a locker (and thus an asset) to students who can identify themselves appropriately via PIN, magnetic

card or biometric reader and these technologies can even be used to create a hierarchy of user privileges. Furthermore, to retain ultimate control over assets in lockers, each device can be RFID tagged. This means the system automatically records when a locker is opened and by whom, and the RFID sensors will record if and when the asset is physically removed from the locker and also when it is returned and by whom. Client feedback indicates that RFID lockers instill a degree of responsibility and maturity in children (and even undergraduates) when they use the system, making them aware that they are handling an item of value that needs to be used with care for their own benefit and that of their peers.

Management software will not only create continuous audit trails for facility supervisors but will also create alerts by exception such as a teacher or IT manager receiving a message when a 'curfew' is breached i.e. a student has not returned an item to an appropriate locker in time. This can result in the device being automatically disabled if it is within reach of the institution's Wi-Fi. The status of an individual asset within a large pool or across a network becomes readily available.

### Core Business

Any observer of the education sector will know that teachers are under increasing pressure to ensure that classroom time is devoted exclusively to educational rather than ancillary processes. RFID asset tracking should therefore prove attractive in that it creates asset invento-

ries automatically, so freeing up staff time for the core competence of teaching, and reducing non-added value administrative hours spent on the ancillary activity of physically searching for assets. Automated inventories also conserve teacher time in that they are performed instantaneously, do not require movement around extensive (often multi-campus) premises and can report on (or lock down) faulty laptops including those that are not charging. Manual inventories are often compromised by the traffic of assets during the time it takes to perform the inventory.

The education sector also has an increasing need for lockers that will simply secure and charge a device that has been issued on an individual basis for a whole year or is owned by the student. Often this compartment space will also allow a student to store their regular belongings. In the interests of promoting continuity rather than disruption and also by way of showing duty of care, most schools and colleges will direct resources at ensuring that students can charge their own electronic devices in personal lockers during breaks, with the lockers being used in a similar way to those provided in gyms and sports centers. This type of usage is referred to in the industry as 'temporary assignment'.

### Age No Problem

Judicious installation of the right kind of personal locker for storage of non-pool assets often mean that colleges can offer the lockers to adult learners attending evening classes. In England, this kind of dual usage in Academy schools is

# HIGH-TECH AT YOUR FINGERTIPS.



attractive to the Department for Education who are more likely to release funds since the total number of lockers required can be reduced and capital outlay is optimized.

The requirement of senior students to have occasional access to laptops in order to work independently on individual projects makes only moderate demands on the physical aspects of locker administration. The revolution in recent years has been the need to issue tablet devices to large numbers of young children and with material for individual lessons (as opposed to software programs) loaded onto the devices. IT managers are often obliged to upload this information to numerous iPads en masse. Intelligent iPad lockers allow for information to be uploaded to self-docked devices at once while also charging them in situ. Lockers with dedicated synchronization and charging solutions for tablet devices are available from Traka.

Experience of the education sector shows that it is an adaptable market and laptops, and more recently iPads, have been observed being distributed to increasingly broad student population types. With tablets, as opposed to laptops, has come growing recognition that the devices need to be managed, maintained, primed and available with appropriate material at the point of desired use.

## Off Their Trolley

Locker systems compare favorably with the far cruder option of laptop charging/storage trolleys. When fully populated, these devices are about as manageable as a heavily laden supermarket trolley and even a cursory Google search produces Health and Safety Executive alerts. The alerts are not limited to the risk of collisions but also cover the electrical integrity of the units which has at times proved deficient. In 2009 a teacher at a school in Bradford required hospital treatment after he received a powerful electric shock when unplugging a laptop storage trolley from the mains.

A disadvantage of this approach is that it is difficult to track the progress of a trolley around a school so any audit trail must be created manually. Trolleys are simple volume storage devices;



they have one door and one key so individual issue of items cannot be logged automatically. The products do not appear to be well suited to the environment in which they are used. By contrast, Traka and other manufacturers of RFID lockers have developed products in conjunction with schools and have worked on networking issues after listening to client feedback.

## Opening Market

The RFID approach to asset tracking in education contributes to the current trend for 'convergence.' Thus, management software for RFID lockers such as Traka Web can be integrated with a school's access control, cashless vending and e-registration systems, so bringing the school or college nearer to the goal of a single facilities management umbrella. The child or student is allocated access to doors and lockers on a 'need-to-have' basis and with the inclusion of facility management for supervisors, the truly 'intelligent building' becomes more of a reality. If a child uses biometrics or a proximity card/fob to move around the building they do not have to memorize a code and the system is unlikely to be defeated accidentally by atypical behavior.

Provision of RFID technology to the education market is proving as responsive to client demand as any sector-specific aspect of the access control, CCTV and perimeter protection industries. To date, R & D has kept pace with changes in teaching methods across the state and private sectors. But likely developments including a possible boom in 'free schools' (a school in England funded by taxpayers and free to attend but not controlled by a local authority) or their equivalent abroad must be anticipated so that intelligent access control offerings continue to be fit for purpose and have the shelf life demanded by stakeholders and all those who scrutinize expenditure.

## ▶ CONTACT

Traka Ltd., Olney, UK  
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Adam Stroud,  
Group Chief Executive of The Paxton Group

## ACCESS CONTROL

# Simplicity First

## British Access Control Manufacturer Paxton Expands on the European Mainland

Paxton's electronic access control systems are found around the world. In its home country of Great Britain it is the largest of its kind. The company has been growing strongly since its establishment in 1985. Its next plan is to conquer the German access control mass market.

GIT SECURITY talked to Adam Stroud, Group Chief Executive at Paxton.

**GIT SECURITY:** Mr. Stroud, your Company specializes in access control solutions. Could you give those of our readers who are not yet familiar with your products a short and sweet introduction to your firm?

**Adam Stroud:** The first thing to say is that Paxton is a manufacturer of access and security products. We're a private Company that has been around for 25 years now, and today it is number one in the UK market. For the last ten years we have had an average organic growth of 25%, having doubled in size every three or four years.

**What are the reasons for being so successful in Britain?**

**Adam Stroud:** The reason for this is that we are concentrating on the quality of our products and focusing on what we do well. We have our entire product range manufactured within Europe. What is more, we are always aware of the fact that our products are not suited equally well in every context. That is why we specialize in areas where we are particularly competitive, meaning that Paxton does not, for instance, provide solutions for large skyscrapers, but rather focuses on the mass market: small to medium size enterprises, schools, shops, commercial premises and industrial premises. In our typical projects we are dealing with ten to thirty doors. At the same time we are of

course capable of scaling up and expanding systems, so we have a number of installations with nearly 1,000 doors. But this is not our main focus.

**How are your sales and distribution efforts organized?**

**Adam Stroud:** Because we focus on the mass market, we concentrate our energy in terms of sales support on the installers rather than on the end customer. We are not very large as a Company but we support installers intensively. That is quite an achievement considering the fact that every single day 25 buildings world-wide have our Net2 Entry System installed! And there is one more thing I would like to add in that context: as a Company we are absolutely focused on long term growth. This means that we reinvest all of our net profit into the business: one half goes into our development department, the other half is invested in new sales offices for our international expansion.

**What would you say are the main characteristics of your access control solutions when compared to your competitor's products?**

**Adam Stroud:** In one word: simplicity. We work very hard to obtain products that are very simple to specify, to install and for the end user to use. For example, as an installer you can learn to implement our solution within thirty minutes.

This is important because access control is usually supplementary for an installer whose core business is to sell gates, locksmith services or CCTV. Access is usually an add-on for them. That is why access solutions must be easy to install, otherwise the installer would not add them to their product range in the first place.

**What are the latest and most important technical improvements of your products?**

**Adam Stroud:** I can give you one example: we have just launched an IP video entry system that uses both IPv6 and PoE – two core new technologies. PoE is a very important technical improvement because we only need one cable going to the product. And with IPv6 we can have a product that we can connect to the computer network without the need for any configuration



The Net2 Entry  
Monitor and Panel  
from Paxton



Paxton marketing team in Brighton, England

at all: plug and play. That is how we are using the latest technology to make things easier for installers and customers.

**Mr. Stroud, access control systems are often integrated with other systems like time recording and video surveillance. What is Paxton's way of handling this integration?**

**Adam Stroud:** Some of these systems we do ourselves – time recording is one of them. But we do also actively promote integration into third party fire alarms, intruder alarms and DVR systems. We have a very open approach.

**Could you tell us a bit more about your support?**

**Adam Stroud:** We offer a comprehensive range of support measures like telephone support. Generally we provide high quality help at any time. Another important part of this is the local training that we offer to installers, which is completely free of charge. The participants on our training courses not only learn how to install our products but also how to sell them. Another example for our service approach is our ultimate returns policy. This is very unusual and I think it underlines the extent of our high-quality commitment. Our customers can send back our products for any reason within five years and get a replacement if it is defective. We

can do this because we feel very confident of our product's quality, and an overall return rate of less than 1% confirms this assessment.

**Talking of business strategy – what else can we expect from Paxton in the next few years?**

**Adam Stroud:** Paxton's future lies in the diversification of its markets. We're number one in the United Kingdom but we want to grow in other markets too. We will also diversify our range of products. For example we are investing in the development of a video entry solution that is often used together with access control systems. Next year, for example, we will invest in mobile technology involving Near Field Communication, Bluetooth technology etc. Large parts of our engineering resources will be committed to this.

**You are planning now to expand your efforts in Germany – why and how?**

**Adam Stroud:** Germany is the largest market in Europe and we have already had German staff for over ten years. We believe that we have even more opportunities there because our uncomplicated approach opens up a considerable share of the market. In Germany there are lots of companies responding to the needs of large projects but only very few are addressing the mass market the way we do. That

is why we have invested this year in forming Paxton GmbH and in acquiring new local support staff. In addition to that, we are investing heavily into a radical hands-on training seminar plan: we expect to train 1,000 installation companies

in different locations around Germany in 2013, free of charge.

**Mr. Stroud, the British Royal Academy of Engineering has introduced an award called the Queen Elizabeth Prize for Engineering. Have you already applied for this distinguished prize?**

**Adam Stroud:** No, not yet. This is because we tend to be quite focused on our products – but we might apply in future...

## ▶ CONTACT

**Bernd Rehorn**  
Paxton GmbH  
Tel.: +49 33232 238807  
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## ACCESS CONTROL

# Who's in the Pool

## International Scottish Swim Center Selects Salto for Access Control

Scotland's newest international sporting facility, the Tollcross International Swimming Center in Glasgow, has installed Salto RFID electronic locks to provide a state-of-the-art access control solution as part of its overall security package.

The center has just re-opened its doors to the public after a £13.8 million refurbishment to make it ready to host the Glasgow 2014 Commonwealth Games. The 2015 IPC World Swimming Championships have also been awarded to the venue and it is also at the heart of the city's bid to host the 2018 Youth Olympic Games. Now one of the largest facilities of its kind in Europe, with its seating capacity doubled to 2,000 with a further 3,000 temporary seats to be added for the Games, plus a new-look 10 lane 50 meter competition pool and a completely new six lane 50 meter warm-up pool, the 19 month construction project was funded by Glasgow City Council (£13.15 million) and sportscotland (£650,000).

As well as the pool improvements, Tollcross will also be a community facility. The fitness suite has been doubled in size to become one of the biggest and best equipped gyms in the city with 85 cardiovascular and strength conditioning stations, and a range of equipment is available for people with disabilities, including three hand cycles and six fixed resistance machines.

### Sleek Steel

To handle security into and within the facility, Tollcross International Swimming Center has deployed a contactless RFID access control solution from Salto Systems and fitted it to a variety of internal room and storeroom doors. David Brown from Scotdor, Salto's local part-



© NinaMalyna - Fotolia.com

ner that won the contract and carried out the installation, comments: "We fitted a range of standalone battery powered RFID products from Salto's XS4 and GEO range including 79 E9451 handle sets in stainless steel, two double sided XS4 units, three online doors and three GEO electronic cylinder controlled doors.

For the online doors, we were required to install a separate network from the main system to comply with the client's requirements and the Data Protection Act not to transfer data for these doors across from the main network. This was no problem, and we were able to install and set up the controlling software for these doors completely to the client's satisfaction."

### Follow the Trail

Brown continues: "The center has been very impressed with the technical ability of the products, in particular the ability to control access via the Mifare smart ID cards. Since most access-related information is kept encrypted on these cards, the locks are able to update and receive information from the cards at any time. So not only is the system easy to use, but its functionality has practically all the benefits of a fully on-line access control system at the cost of a standalone system.

The 'smart' access cards build up 'on-card' audit trails through normal use, giving the center complete control over access and enabling the movement of staff to be controlled

and tracked if and when required. This enables a complete access profile of each individual to be established and updated as necessary as well as having the ability to see who accessed what door, where and when. Cards can be programmed to allow access to specific rooms or areas within the center for selected periods only, with the doors auto locking at pre-specified times as required. And if card security is breached due to the loss or theft of a card, it can be instantly deleted without the need or cost of rekeying or changing locks – saving the center time and money."

Andy Crichton, Salto Sales Manager Scotland, adds: "Our company has vast experience of working with leisure facilities across the globe and understand the challenging security issues faced by these establishments. We are pleased to have been able to work with the Tollcross International Swimming Center to improve their security and provide a long-lasting, flexible solution to their access control needs. In particular, installing a Mifare-based proximity smart card system operating on the Salto XS4 and GEO platform means their security will not be compromised if a member of staff loses their key."

### ▶ CONTACT

Salto Systems Ltd., Oiartzun, Spain  
Tel.: +34 943 344 550 · www.saltosystems.com



**IP-based Video Surveillance and Central Data Storage in One**



Synology's All-in-one solution is IP-based video surveillance and central data storage in one. Thanks to numerous functions, the Synology operating system DiskStation Manager (DSM) allows to use video management/analysis software Surveillance Station on all Synology NAS systems. As a centralized management interface for IP cameras it offers a wide range of applications for professional video

surveillance as well as a Central Management System (CMS) for large-scale operations across different locations. With two HDMI ports the VS240HD is an energy saving live monitoring companion for all Synology NAS that does not need a PC. The free iOS & Android app DS cam allows mobile monitoring right on mobile devices.

[www.synology.com](http://www.synology.com)

**Network Camera with Ipela Engine EX**

The SNC-VM630 minidome network camera of Sony's G6 series delivers a new level of performance for an HD surveillance camera, with a maximum resolution of 1,920x1,080 and improved sensitivity thanks to a new Exmor CMOS sensor. The camera offers more than double the sensitivity of 5<sup>th</sup> generation cameras, with a minimum illumination of 0.1lx in colour mode and 0.07lx in B/W mode. The high frame rate mode with a maximum of 60fps delivers smoother, more natural movement



in the video and reduces blur when recording fast moving objects. This makes the SNC-VM360 an ideal gadget for users like casinos that have to capture a lot of movement.

[www.samsungsecurity.co.uk](http://www.samsungsecurity.co.uk)

**Full-HD Stand-alone Network Recorder**

The NR16H is a full-HD stand-alone network recorder. On the up to five hard drives, all up to 16 cameras of the whole PixelPro series can be recorded in full-HD and real time. The integrated PoE Switch powers the cameras directly. A free video management software, that allows the integration of multiple recorder, is included. Is the recorder connected with the Internet, access via Smartphone app is also possible. The simple device is particularly worth



highlighting. True to the phrase "Plug & record", the recorder sets up automatically all connected cameras. This saves considerable time during the installation.

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## In Focus: Canon VBH-610D

With the VBH 610D, Canon offers a Full-HD dome camera for indoor use. Top class Full-HD-image quality is provided by the Canon DIGIC DV III image processor. Optimised noise reduction (Noise Reduction – NR) and first class colour reproduction even at low light levels promise clear colours even with poor illumination. The network camera is equipped with additional functions and analysis functions such as detection of changes in noise level (in addition to visual events, the camera also detects audible events) and detection of movement. The camera supports the ONVIF standard ONVIF V2.2 (Profile S). A practical electronic mechanism to adapt the camera to the particular conditions makes configuration especially easy: after the camera has been mounted, the settings for pan/tilt/rotation/zoom can be remotely set from a computer in the network.



## CAMERA TEST

### Performance

#### Assessment of performance at 1,000 Lux

With good illumination conditions, the Canon camera delivers a very good colour image. The very crisp white balance is notable. The good overall image is impaired by slight noise; however this is not significant under optimum conditions.

#### Assessment of performance below 1,000 Lux

A notable, highly positive feature of the camera is the sharp imaging. Even with reducing illumination, the test sequences are depicted with brilliant sharpness. Colour depiction remains good, however a minimal deterioration can be detected. With a light intensity below 1000 Lux a slight increase in image noise is also observed. Below 0.5 Lux the test values suffer noticeably, however this behaviour is frequently noticed.

#### Assessment of performance in backlight situations

In backlight situations, the Canon requires an acceptable switchover time of 3 seconds. With a larger-than-average light beam there is wide area illumination of the situation. The individual test values (sharpness, movement blur, image noise) are appropriate for this situation. The only disturbing factor is the colour cast: the image has an unnatural red cast, which is accompanied by a slight smearing effect.

#### Assessment of performance in use: bandwidth measurement

The Canon demonstrates a constant behaviour with the variable image rate setting. The use of bandwidth does not show any significant deviations upwards or downwards. The average usage value is 4.9 MB/sec. The camera only attempts to compensate for a lack of light by increasing the bandwidth at low levels of illumination. For brief periods there is a peak value of about 8 MB/sec.

#### Conclusion

Image sharpness is the characteristic which should be highlighted for the Canon. Under all lighting conditions there were very good or good results. The homogeneous performance can also be applied to the depiction of colours. Here, in spite of low Lux values, impressive test results were obtained. The camera is equipped with a b/w option (night mode).

#### Technical data for the camera test

Manufacturer	Canon
Model	VBH-610D
Firmware version	1.1.0
Distance to test chart	0.20 m
Lens used	2.8 mm– 8.4 mm 1:1,2 – 2,0 111,0° – 36,5° integriert
*Focal length set	ca. 4 mm
*Compression method	H.264
*Max. Resolution	1920x1080
*Compression	–
I-Frame-interval	1 second
Max. stream bandwidth	4,096 Kbit/s
Measured frame rate	30 fps
Average bandwidth	8.3 Mbit/s

\* The camera was integrated into the test system using ‚default‘ settings and modified with the test criteria listed above.

#### Assessment with differing illumination conditions

Criteria   Lux values	1000 Lux	100 Lux	10 Lux	0,5 Lux	0 Lux + *BL1
Colours	2	2	2	2.5	3
Contrast	2	2	2.5	3	3
Focus	1.5	1.5	2	3	2.5
Motion sharpness	2	2	2	2	2
Image noise	2.5	2.5	2.5	3	2.5
Recovery from backlight	–	–	–	–	2.5
Performance against backlight	–	–	–	–	2.5

Assessment according to the following grades: 1 (Excellent) 2 (good), 3 (average), 4 (satisfactory), 5 (limited), 6 (poor). BL= Backlight \*in the beam of a white light LED

# Test the Best!

Seetec and GIT SECURITY test video cameras in the test lab of the Hardware Competence Center at SeeTec under standardized conditions. The results provide a solid basis for the planning of IP video projects and help to avoid embarrassing surprises. For the test procedure video sequences are created under various different fixed lighting conditions and subsequently evaluated. Movement in the picture as well as night and backlight conditions are also included.

## Performance

### Assessment of performance at 1,000 Lu

The Samsung SND performs excellently in the very well illuminated initial situation. The excellent sharpness and brilliant colours are especially worth mentioning. However, a slight distortion of blue colours must be stated. Under the given conditions, the recorded image is fluid at an image rate of 30 fps.

### Assessment of performance below 1,000 Lux

Even with lightin values below 1000 Lux colour depiction, sharpness and contrast remain largely constant. A minimal deterioration of both sharpness and contrast only occurs below 10 Lux. At 0.5 Lux the camera switches from colour into b/w mode and even with poor illumination it delivers a comparably high contrast and sharp image.

### Assessment of performance in backlight situations

The camera initially remains in b/w mode, even on the sudden occurrence of backlight. The compensation time of about 5 seconds is comparably long. In spite of the large blooming area, details in the edge regions are relatively easily recognised. Because of this, movements are also well illuminated and no smearing effect is noticeable. Image noise is considerably better than at low light levels, so that overall, the performance of the camera in backlight situations is better than at low lighting levels such as 0.5 Lux.

### Assessment of performance in use: bandwidth measurement

The Samsung SND has a very constant use of bandwidth. Both in the "variable" and "constant" settings, the recorded results were identical. The use of bandwidth by the camera is low, at about 5 MB/sec. Below 0.5 Lux, the use of bandwidth reduces even further, due to the switchover from colour to b/w mode.

### Conclusion

In all of the tested areas, the Samsung SND delivers very good results. The only restriction is the relatively long compensation time in backlight situations. The infra-red light ring integrated into the camera should be mentioned; however for reasons of comparability, this was not taken into account in the test. The test run was performed at 30 fps, although the camera can deliver 60 fps in Full HD.

## In Focus: Samsung SND-6084-R

The SND-6084 is a dome camera for use indoors, from the new Samsung camera series equipped with the WiseNetIII- chip set. The Full HD network camera delivers high resolution 2 megapixel images and is equipped with a whole series for modern functions, e.g. 100dB WDR for difficult lighting conditions such as backlight. It promises clear colour images even in poor light down to 0.1 lux (F1.2, 50IRE) and has an integrated, motorised varifocal lens for simple focussing. The camera power supply is via PoE. There are simple image analysis algorithms directly on the camera. Further features are De-Fog (guarantees clear images, even under misty conditions), Face Detection (detects faces, but does not classify them), Smart Codec (division of the recorded image into areas with different quality) Audio Event- Detection.



## CAMERA TEST

### Technical data for the camera test

Manufacturer	Samsung
Model	SND-6084R
Firmware version	1.00_1200412
Distance to test chart	0.6 m
Lens used	3-8.5mm (2.8x) motorized varifocal F1.2 (festes Objektiv)
* Focal length set	ca. 6 mm
*Compression method	H.264
*Resolution	1920x1080
*Compression	50%
I-Frame-interval	1 second
Max. stream bandwidth	4,096 Kbit/s
Measured frame rate	30 fps
Average bandwidth	5.24 Mbit/s

\*The camera was integrated into the test system with the "default" settings. The settings were modified according to the test criteria listed above.

### Assessment with differing illumination conditions

Criteria   Lux values	1000 Lux	100 Lux	10 Lux	0,5 Lux	0 Lux + *BL1
Colours	2	2	2	b/w	b/w
Contrast	1.5	1.5	2	2.5	3
Focus	1	1	1.5	2	2
Motion sharpness	2.5	2.5	2.5	3	2
Image noise	1.5	1.5	2	2.5	2
Recovery from backlight	-	-	-	-	4
Performance against backlight	-	-	-	-	1.5

Assessment was performed according to the rating system of 1 (very good) to 6 (unsatisfactory). BL= Backlight \*in the beam of a white light LED

### Intelligent Indoor and Outdoor Surveillance

Vivotek launches two 2-Megapixel easy-to-use fixed dome network cameras, FD8163 and FD8363. Both cameras, also featuring 1,080p Full HD resolution with an image quality up to 30fps, are equipped with a removable IR-cut filter, 15-meter IR illuminators with Smart IR technology for avoiding overexposure under low light condition, and WDR Enhancement for unparalleled visibility in high contrast environments, securing high video quality and providing accurate identification around the clock. FD8363, as the outdoor version of FD8163, is equipped with additional special features to support operation under harsh outdoor environments, which include



the IP66-rated housing for shielding the camera against rain and dust and the metal vandal-proof housing for protecting it from vandalism. Hence, FD8363 is especially suitable for monitoring areas such as building entrances and airports, while FD8163 is ideal for lobbies and educational facilities.

[www.vivotek.com](http://www.vivotek.com)

### Multi-Sensor Thermal Security Cameras

Flir has launched its D-Series. The outdoor dome enclosure provides precision pan/tilt control while providing fully programmable scan patterns, radar slew-to-cue, and slew-to-alarm functionality. Fully enabled for control and operation over IP and serial networks. The series combine a thermal imaging camera with a color CCD camera. This makes them an alternative for day/night dome cameras, providing clear 24/7 imaging capability in an attractive, discrete dome-style enclosure. The cameras are a lot more compact. TCP/IP compatible electronics are integrated in the camera and no longer in a separate box. This also means that the series can now be mounted in ball up and ball down position, giving you more flexibility. The systems deploy a 640x480 or 320x240 pixel thermal imaging camera. The manufacturer offers a wide variety



of lenses. Longer lenses have a narrower field of view and allow you to spot intruders from further away.

[www.flir.com](http://www.flir.com)

### All-in-One Cyber Security Solution

Moxa introduces a new addition to its Gigabit-performance cyber security family: the EDR-810 series. This product is an industrial multiport secure router with Firewall/NAT/VPN and managed L2 switching functions, which allow the EDR-810 to transmit data efficiently while protecting the network and critical devices from cyber attacks. The series' integration of security and networking functionality into a single device saves

extra deployment cost and effort. Key Features are: 8+2G SFP all-in-one firewall/NAT/VPN/router/switch; Deep Modbus TCP packet inspection for firewall filtering; NAT supports N-to-1, 1-to-1, and port-forwarding deployment; Flexible configuration of multiple WAN and LAN ports; 20 VPN connections for secure remote management (VPN model); -40 to 75°C operating temperature range (T model).

[www.moxa.com](http://www.moxa.com)

### Identity Management Software

Friedman Memorial Airport, which provides air service facilities to South Central Idaho and the Sun Valley resort area, has become the first airport in the country to implement Quantum Secure's Safe for Aviation v4.5 software suite. According to the Company this physical identity and access management software solution is expected to save hundreds of man-hours for airport management by streamlining the complete lifecycle of physical identities and automating related processes. Daily oversight of security provisions at the airport is handled by the Airport Security Department. Among their security activities is ongoing supervision of approximately 1,000 identities including airport and airline employees, in-house and external (i.e. taxi, cargo) vendors, government employees, hangar owners/associations, sublease tenants, and temporary construction workers. Per TSA mandates, each individual



must undergo a TSA-adjudicated Security Threat Assessment before airport operators can issue any type of personnel identification media.

[rthompson@quantumsecure.com](mailto:rthompson@quantumsecure.com)

### Autodomes With Intelligent Tracking

Bosch Security Systems introduces the Autodome 7000 family of pan-tilt-zoom (PTZ) cameras with intelligent features that are particularly helpful in security surveillance. It comes with a powerful, automated monitoring system. The manufacturer's embedded Intelligent Video Analysis (IVA) software automatically processes video signals and alerts operators to security risks. A single PTZ camera can analyze up to ten different scenes for loitering, line crossing and other criteria. Customizable to address the specific concerns of each customer, IVA enables earlier threat detection and improved overall security. The Company's Intelligent Tracking technology uses advanced flow detection algorithms to monitor scenes for motion and to automatically track objects. Customers can define conditions that will instantly activate tracking-such as a vehicle moving through an area in a specific direction. Now, operators can also trigger tracking by clicking on a moving target within live video to prompt the camera to keep it in



the scene. The camera dynamically re-tunes zoom settings to capture the most useful, highly-detailed images of objects of interest as they move through the camera's field of view.

[www.boschsecurity.com](http://www.boschsecurity.com)

### HD Lenses With P-Iris

Fujifilm Europe has introduced high-resolution day/night Fujinon Varifocal lenses with p-iris function for Security and Machine Vision applications. Five models are now available with piris: YV2.8x2.8SR4A-JA2L (f=2.8~8mm, F1.3), and YV3.3x15SR4A-JA2L (f=15 ~ 50 mm, F1.5) for 1/2.7" cameras with 3 megapixel resolution as well as DV3.8x4SR4A-JA1L (f=4~12.5mm, F1.5), DV4x12.5SR4A-JA1L (f=12.5~50mm, F1.6), and DV10x8SR4A-JA1L (f=8~80mm, F1.6) for 1/1.8" cameras with 3 and 5 megapixel resolution. Thanks to high resolution and IR correction these lenses are suited for day/night HD CCTV solutions, industrial imaging and traffic applications. Especially suggested for traffic applications are two fixed focal length lenses for 2/3" cameras with up to 5 megapixel resolution. [cctv@fujifilm.eu](mailto:cctv@fujifilm.eu)



### Super LoLux HD-Network Camera

Equipped with a 1/3"-CMOS Full HD sensor, JVC's Super LoLux network box camera VN-H57 stands out with both its extremely high resolution (2,1MP eff.) and excellent light sensitivity. It achieves the highest standard in terms of image quality: Even under difficult conditions such as fog, mist, rain or smoke, the new image processing "Clear Logic Video Intelligence" (C.L.V.I.) enables to achieve the highest standard in terms of image quality. Owing to the in-built 3D Noise Reduction, the "True Day/Night"-function allows for ideal image results under dark light conditions. The VN-H57 comes up with a multi-codec support incl. H.264



high profile, MJPEG- and MPEG4, as well as a single-, dual-, and triple stream (up to three streams with different parameters), and on top of it, the new model convinces with a full-range auto focus mode function and a bidirectional audio system, which is powered by an advanced audio detection mode. Depending on the setting, the shooting can also be recorded on the SD-card in case of a warning or a network failure. [www.jvc.eu](http://www.jvc.eu)

### Hardware Freedom at the Door

Genetec's Synergis Master Controller (SMC) is an intelligent IP door controller engineered to allow organizations to modernize their security operations and migrate to an IP-based access control solution, while leveraging their networking infrastructure and existing equipment and wiring. Due to its open architecture, the SMC provides native support of widely-deployed and non-proprietary security hardware from leading access control hardware vendors including HID Global and Mercury Security. The solution ensures the investment in technology with an open option that will provide greater flexibility for the lifetime of the system. The SMC is different from similar products because it offers open access control. This means that the software is non-proprietary



and can be used with hardware from other vendors. Having an open system allows clients to leverage hardware that they already own thereby reducing the overall costs. Another unique benefit of the SMC is its ability to be integrated with Omnicast, Genetec's IP video surveillance system. Having access control and video surveillance tied together allows clients to adopt a unified approach to physical security. [www.genetec.com](http://www.genetec.com)

### Compact Designed Network Cameras

Messa Technologies has added three compact 1-megapixel models, which are the box-type NCB750, dome-type NDR720, and the bullet-type NCR770, in the network camera lineup. The three additions are named the Mini Series for their compact yet versatile form factors that are suited for projects demanding discreet and low profile installations, such as residences, boutiques and retail shops. Their compact profile allows the cameras to be easily deployed and fit in any environment for unobtrusive monitoring. Though small in dimensions, the NCB750, NDR720, and



NCR770 offer megapixel video quality up to 30fps, capturing every critical moment with smooth video display in great details. With features such as true day/night, PoE, and WDR, the cameras are designed with plug-and-play integration with the manufacturer's Lite Series NVR for easy installation. [www.messa.com](http://www.messa.com)

### Full HD Network Mobile Flat Dome Camera

The latest addition to Samsung Techwin's Wisenet III 2MP Full HD (1,080p) network range is a vandal-resistant camera which has been designed to meet the challenging conditions on-board trains, buses and other modes of public transport. The SNV-6012M mobile flat dome camera, which complies with the EN50155 standard, is able to operate reliably when subject to the rigorous conditions and extreme vibrations which can occur on-board and it also meets the EN50121 standard which covers electromagnetic emissions in railway environments. The camera is IP66 rated and is equipped with a rugged M12 connector that is able to withstand vibration and harsh weather environments. Utilizing bandwidth friendly H.264 compression with



the option to also use MJPEG compression, the camera can capture high quality colour images when the lighting level is as low as 0.03 lux and has a very fast frame rate of 60fps at 1,080p which results in latency free clear images. This can be particularly beneficial in a scene with moving subjects by ensuring image edges are kept sharp and clear, whilst the manufacturer's Motion Artefact Reduction technology also ensures there is no motion blur. [STSecurity@samsung.com](mailto:STSecurity@samsung.com)

### 20 x Zoom Full HD Dome Camera

Samsung Techwin's new SNP-6200RH Full HD 20x optical zoom IR network dome camera is intended to provide a cost-effective video surveillance solution for challenging environments such as airports, ports and other transport facilities, as well as car parks, open spaces, retail and industrial estates. The SNP-6200RH PTZ network dome camera is able to capture superb quality Full HD (1920x 1080). Its built-in IR LEDs can illuminate objects at a distance of up to 100m by focusing the beam as the camera zooms, resulting in clear imaging even when the field of view is in total darkness.



The ONVIF conformant SNP-6200RH is equipped with Wide Dynamic Range (WDR) technology for environments where there may be strong contrasting lighting conditions. It is also weatherproof to IP66 as well as IK10 vandal resistant, and can withstand high temperature variations of -50°C to +55°C, making it an ideal video surveillance solution in even the most challenging environmental conditions. [www.samsung.com](http://www.samsung.com)

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Fax: +49 (0) 6201 606-791  
info@gitverlag.com · www.gitverlag.com

### Managing Directors

- Jon Walmsley
- Bijan Ghawami

### Publishing Directors

- Dr. Heiko Baumgartner  
Tel.: +49 (0) 6201/606-703  
heiko.baumgartner@wiley.com

- Steffen Ebert

Tel.: +49 (0) 6201/606-709  
steffen.ebert@wiley.com

### Sales Managers

- Regina Berg-Jauernig  
Tel.: +49 (0) 6201/606-704  
regina.berg-jauernig@wiley.com
- Dr. Katina Leondaris  
Tel.: +49 (0) 6201/606-734  
katina.leondaris@wiley.com
- Dr. Michael Leising  
Tel.: +49 (0) 36 03/89 31 12
- Manfred Höring  
Tel.: +49 (0)61 59/50 55

### Editorial

- Matthias Erler  
Tel.: +49 (0) 6723/9 94 99 82  
matthias.erler@wiley.com

### Editorial Assistant

- Nina Esser  
Tel.: +49 (0) 6201/606-761  
nina.esser@wiley.com

### Production

- Christiane Potthast
- Andi Kettenbach (Layout)
- Elli Palzer (Lithography)
- Claudia Vogel (Sales Administrator)

### European Representatives

- Dave Harvett, Direct Media  
Tel.: +44 (0) 121 705 2120  
daveharvett@btconnect.com
- Oliver Haines, Impressive Marketing  
Tel.: +44 (0) 1743 369611  
impressive.marketing@virgin.net

### Bank Account

Commerzbank AG Darmstadt, Germany  
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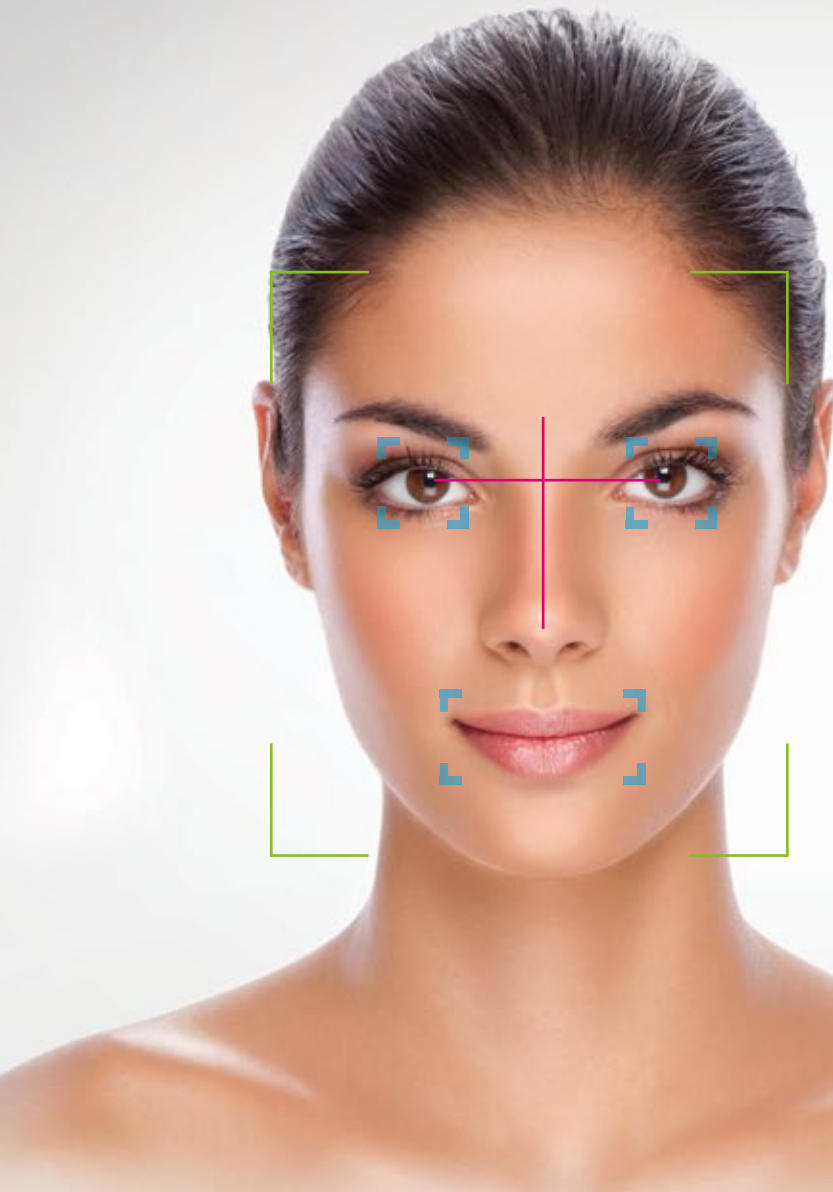
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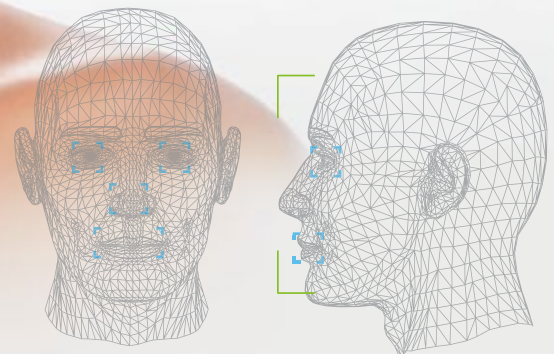
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