

# SECURITY

MAGAZINE FOR SAFETY AND SECURITY

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Access Control

Security for Banking

Emergency Evacuation

Stadium Security

Fire Protection

Security Essen 2012

**COVER: SICK**  
A Virtual Lock –  
Logistic Access Control

**SAMSUNG**

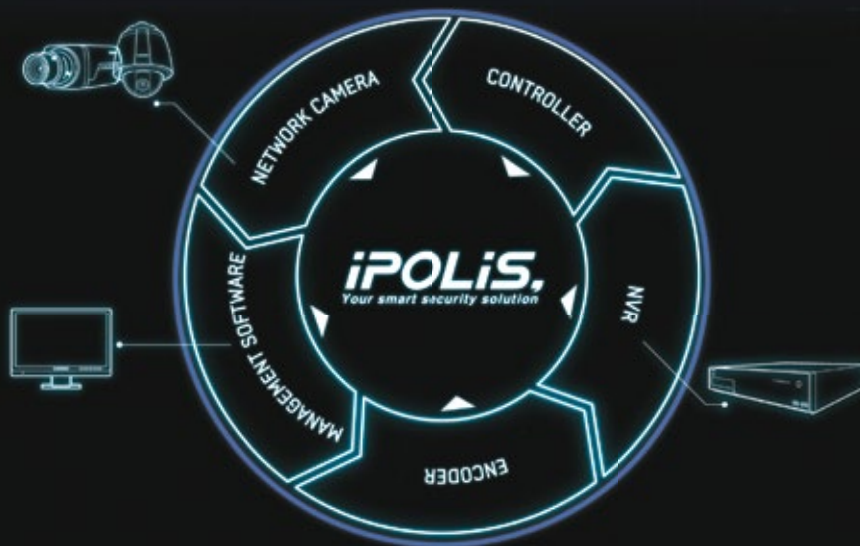
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# First Choice

September is a month full of choice for you

For the eighth time now, we are presenting GIT SECURITY AWARD to an international audience. Our jury has made a preselection for you from the many products that have been submitted. In this issue we present the products to choose from on the pages 34 to 45. There you will find the details about how to vote and how to win the reader's price, a Pentax camera. It was very difficult for the jury to select only a few products from the large number of products entered and we are curious how our reader's vote.

The other choice you have is between the around 1,100 exhibitors that will be present at Security Essen this year. Security Essen will offer the whole world of security and fire protection technology under one roof and will give visitors a comprehensive overview about new security technologies and security concepts. If you go through this issue you will find a lot of interesting products and solutions in the different fields of security and fire protection. We have marked all information from companies that exhibit in Essen to make your choice easier who you visit at the show.

If you attend Security Essen, please make sure that you visit our stand in hall 2 at stand 506. You are more than welcome to see our team there. We will present our security publications and websites plus a selection of Wiley titles that can help you with your daily work. And if you have collected enough information during the day, we can offer you an alternative to adding another mile on the exhibition ground: Each day from 5 pm until the show ends you can enjoy a cool drink at our cocktail bar.

Enjoy reading this issue!

Heiko Baumgartner  
For GIT's Safety and Security team

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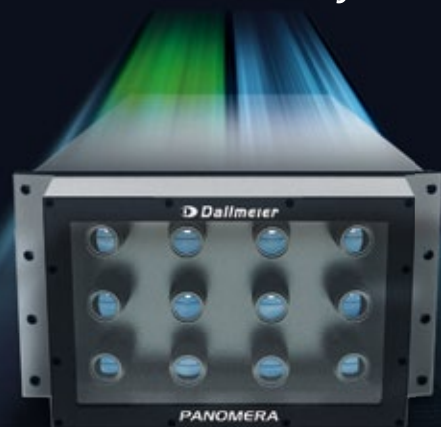
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**PANOMERA®**  
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The Colani Panomera®-Truck will start its European Tour at the 2012 Security Show in Essen.

Visit the truck!



**Gunnebo Wins Major Order from Riyadh, Saudi Arabia**

The King Abdullah Petroleum Studies and Research Center (Kapsarc) has placed an order for access control solutions worth just over 1.1 million Euro for its headquarters in the Saudi capital of Riyadh. "We chose Gunnebo since its products comply with the Aramco Functional Specification Document. The products are required to be high-quality in design and easy to maintain," states Engr. Ihab N. Gazawi, Security Systems Engineer, Saudi Business Machines.

"Winning the order for this iconic and state-of-the-art complex is considered a vote of confidence for our company from all parties involved in the project, from the client's representative to the architect and the contractor," comments Jacob Touma, Country Manager, Gunnebo Middle East. Kapsarc, a non-profit energy and environmental research organization, is an autonomous institution funded by proceeds from its own endowment. [www.gunnebo.com](http://www.gunnebo.com)

**K. Yamanouchi Vice President of Sony Professional Solutions Europe**

Sony announced the appointment of Katsunori Yamanouchi as Vice President of its Professional Solutions Europe (PSE) business. He replaces Naomi Climer, who after six years leading the PSE business, has been promoted to a new global post within the Sony group. Based at the Sony Pictures studio lot in L.A., Climer will lead the development of a new global business focused on the provision of media cloud services. Yamanouchi joined the Company in 1989 and has gained extensive international management experience through

roles in the European, US and Asia-Pacific regions. From 2003–09 he successfully lead the Company's professional business in the CIS, MEA and German-speaking territories. In 2009, he returned to his native Japan, heading up Planning & Marketing Dept., Content Creation Solutions Division, a role in which he took global responsibility for the core product and solutions developments [www.underpinning.com](http://www.underpinning.com). Yamanouchi joined the Company in 1989 and has gained extensive international management experience through

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

**AS&E: New Branch Office in Saudi Arabia**

American Science and Engineering (AS&E) has expanded its Middle East operations with the opening of a new branch office in Riyadh, Saudi Arabia. This is its second branch office location in the Middle East; the Company also operates a branch office in Abu Dhabi, United Arab Emirates. These offices allow to better serve a rapidly ex-

panding market with service and support and a complete range of X-ray detection solutions to combat terrorism, trade fraud and smuggling, the Company says. It has branch and/or subsidiary office locations in Saudi Arabia, United Arab Emirates, Mexico, Brazil, the United Kingdom, the Netherlands, and Singapore. [www.as-e.com](http://www.as-e.com)

**Ansell to Acquire Comasec**

Ansell has announced its intention to acquire Comasec SAS, subject to regulatory approval. Comasec, which is headquartered in Gennevilliers, north of Paris, offers industrial hand protection solutions and has the capacity to manufacture over 200 million pairs of gloves annually. It has manufacturing plants in Malaysia and Portugal and employs over 1,200 people. The acquisition will help strengthen Ansell's position in the rapidly growing but

fragmented 7bn US-\$ industrial hand protection market, the Company says. It will also significantly enhance the Company's presence in a number of important verticals including mechanical, chemical, food and utilities. CEO, Magnus Nicolin commented; "Comasec's business is a strong fit strategically for our Industrial and Specialty Markets Global Business Unit (GBU)."

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

**Morpho Deploys Identification System in Sweden**

Morpho announced the first European deployment of its identification system Morpho-BIS to the Swedish National Police Board (Rikspolisstyrelsen). This Automated Fingerprint Identification System (AFIS) is used for investigation, identification and verification in law enforcement applications. Already deployed to police services in the United States and Canada, this AFIS provides unrivalled speed and accuracy, allowing more

crimes to be solved more quickly. The system is compliant with the European Union's Prüm Regulation, which allows the police forces of the 30 signatory countries to compare and exchange data more easily. The Swedish National Police Board is a long-term customer of Morpho. By choosing the company to upgrade their AFIS, Sweden has renewed their trust in Morpho's advanced biometric solutions.

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

**L-3 Receives 29 Million US-\$ Order from TSA**

L-3 Security & Detection Systems (L-3 SDS) announced that the U.S. Transportation Security Administration (TSA) has purchased an additional 200 Pro Vision ATD personnel screening systems for use at aviation checkpoints. The contract value of this order is over 29 million US-\$. More than 500 units with the software have already been deployed at more than

100 U.S. airports. The millimeter wave-based system automatically detects potential threats and highlights their location on a generic image that appears on a monitor attached to the system. It uses safe radio waves and features automatic target recognition software that addresses passenger privacy concerns.

[www.L-3com.com/sds](http://www.L-3com.com/sds)

**Complete Pixel Entries Middle East Market**

Complete Pixel, a manufacturers' representative group specializing in leading-edge security products, begins operations in the Middle East region. The new company's entry into the security products marketplace represents a new business model for manufacturer representation in the industry. "Complete Pixel brings to market well-known

manufacturers from the U.S. and U.K. markets. What is unique in our model is that there are no competitive lines. Instead, these manufacturers are all technology partners. With our combined portfolio, security professionals can provide best-in-class, total solutions," said COO and Managing Director Andrew Patterson. [www.completepixel.com](http://www.completepixel.com)

**Salto and Icomply: Partnership Agreement**

Icomply has entered into a technology partnership agreement with Salto Systems. The UK software developers of V-Tas Pro, a PSIM integration platform, Icomply provide integration solutions for CNI, government, retail and transportation applications. Under the technology

partnership, Icomply have committed to fully integrating Salto's range of access control technology into the V-Tas Pro software platform, to enable seamless control of the Salto product range through the V-Tas Pro software.

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

**Gunnebo Acquires Hamilton Safe Companies**

The Gunnebo Security Group signed an agreement with the main shareholders to acquire all the shares in the USA's second largest producer and supplier of physical security products to banks and government, Hamilton Safe Companies. The privately owned Hamilton Safe Companies was founded in 1967, and has an annual sale of 70 million

US-\$ (2011). It has 300 employees split into seven legal entities located in Cincinnati, Ohio, USA. Sales are predominantly made in the US and Canada under the main Hamilton Safe brand, and customers are largely US banks and public administration authorities.

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





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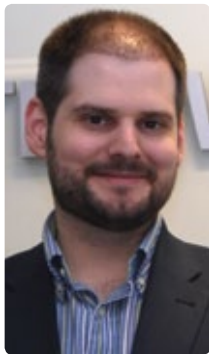
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**Samsung Appoints Access Control Product Manager**

Greg Nunez has been appointed Access Control Product Manager for Samsung Techwin Europe. His key area of responsibility will be to ensure that the best possible pre and post sales support is available to installers, system integrators and consultants across Europe who choose to specify and install the manufacturer's access control systems. Prior to joining Samsung, Greg Nunez was the Product Manager for the Integrated Access Control Software division of smartcard experts, Dot Origin. Whilst working in Spain between 2005 and 2009, he performed the role of Product Manager for the Kaba access control range. "Access Control," Nunez says, "is playing a crucial part in



our strategy to become a full security solutions provider. I will be working hard to promote the benefits and provide first class support for our comprehensive range of access control solutions to our fast growing European network of customers."

[greg.nunez@samsung.com](mailto:greg.nunez@samsung.com)

**Technology Partnership: Talk-A-Phone and Fluidmesh**

Talk-A-Phone has partnered with Fluidmesh Networks, to provide an integrated wireless solution for its Voip-500 Series phones and Webs mass notification systems. "Now you can have the same Talk-A-Phone experience anywhere," commented Alek Kireyenka, marketing manager for Talk-A-Phone. "The lev-

el of reliability that Fluidmesh wireless products offer makes the total solution dependable and easy to deploy." Fluidmesh is an innovator in wireless systems and offers solutions spanning point-to-point, point-to-multipoint, and mesh networks.

[www.talkaphone.com](http://www.talkaphone.com)  
[www.fluidmesh.com](http://www.fluidmesh.com)

**Geutebruck's New Product Strategist**

Jan Schwager (32) was appointed as product strategist at Geutebruck responsible for the area of system management & operation. Having worked for the Company for more than ten years, Schwager has gained experience in various specialist areas. For the last three years he led the international Geutebruck Academy delivering training courses for sales partners and clients at home and abroad. This contact with business partners and users has acquainted him well with their experiences and expectations of modern system management systems and operating interfaces. Together, his detailed market



knowledge and his technical know-how about Geutebruck security solutions form an excellent basis for meeting his new responsibilities.

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

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**Samsung Cameras for Grange Tower Bridge Hotel**

London's Grange Tower Bridge Hotel has installed a 187 camera video surveillance system from Samsung to enable security personnel to monitor activity in all its public areas. The Grange Tower Bridge Hotel, which as its name suggests, is within walking distance of Tower Bridge and the Tower of London, has 370 rooms and suites spread over 14 floors. Ultra modern in design, it has facilities to attract both business people and tourists, with several restaurants, 10 conference rooms, a half Olympic size swimming pool and a spa area. The hotel incorporates renewable solar and photovoltaic panels, and has an on-site borehole to reduce water consumption. 151 of the cameras are Samsung SCD-2080E dome cameras. It is able to capture high-resolution color images at 600 TV lines in daylight conditions during the day, and 700 TV lines monochrome images in low light environments. Additional features include eight motion detection zones, twelve privacy-masking



zones and Highlight Compensation technology which identifies and neutralizes excessively bright areas in an image to reveal the detail behind it. Third generation Samsung Super Noise Reduction (SSNRIII) technology eliminates image noise in low-light conditions without creating ghosting or blurring and with the additional benefit of up to 70% reduction in bandwidth requirements or video storage space, compared to standard cameras.

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

**Geutebruck: New Sales Manager Eastern Europe**

Margarete Betger has joined Geutebruck as an area sales manager. Her role is focused on the Eastern European sales area and on strengthening and expanding the Geutebruck partner network there. A graduate photographic engineer, Ms Betger (34) has five years experience in Eastern European sales which she gained with another well-known CCTV supplier. She therefore brings to the task both a specialist technical background and extensive market knowledge.



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

**Samsung: Distribution Agreement with Norbain**

Samsung Techwin Europe signs a new distribution agreement with Norbain SD. This news follows on from the announcement on 2<sup>nd</sup> July 2012 that Norbain's UK operation has been acquired by Newbury Investments (UK), in a pre-pack arrangement from the administrators, KPMG. "Our priority has always been to ensure our customers have access to Samsung Techwin

products through the distribution channel of their choice," said Gary Rowden, Sales and Marketing Director of Samsung Techwin Europe. "Following the completion of our discussions with Norbain, I am very pleased to be able to confirm that this objective has been achieved and we are looking forward to working closely with the new Norbain organization." [www.norbain.com](http://www.norbain.com)

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## SECURITY MANAGEMENT

# Prepared for a Crisis

Challenging Risk in a Dangerous World: the CRISYS Project View

The world has always been a dangerous place for Homo sapiens and it seems every time society finds what might be a comprehensive solution, some new threat or risk arises that challenges or even defeats that security. In fact there is a well arguable case that the more interdependent and connected we become as a global society, the greater the risk of communal vulnerability.

It's then not surprising that, even within the highly developed and technically proficient European Union, inhabitants regularly suffer from the harmful and disruptive consequences of natural and man-made events. Although these vary in severity, the cumulative effects on natural, social and economic environments often adversely affect the health and well-being of European citizens. Europe's situation is often seen as simpler than other countries or continents, but against this background, the obvious need to improve risk preparedness cannot be ignored.

The EU Seventh Framework Program "FP7-SEC-2010.4.1-1 Aftermath crisis management-phase 1" call for research proposals to suggest integrated and scalable solutions in the aftermath of disasters is therefore timely. The broad

objective was to develop a strategic roadmap that could progress to a full demonstration of capability.

## Combined Forces

A consortium led by the European Organization for Security – a corporation based in Brussels representing 39 European civil security sector companies – successfully proposed a project entitled 'Critical Response in Security and Safety Emergencies'. This recently concluded its first phase study after a 16-month work cycle and some of the interesting findings and its suggestions are outlined below. There was a desire to engage both public and private actors and the success of the project really depended upon finding a professionally acceptable framework that was robust yet flexible enough to meet the multiple needs that emerge during diverse emergencies with durations from hours to months.

## The Whole Team

In order to achieve a manageable outcome, a framework was constructed that enabled the responses from workshops in Finland, France, Germany, Greece, Italy, Portugal, Romania, The Netherlands and the United Kingdom to be collated and analyzed. This focused upon four operational scenarios – Earthquake and Landslides, Wildfire, Flood and Technical Failure – as well as eight key capabilities: Communications, Situational Awareness, Command and Decision Support, Logistics and Resource Planning, Fast Deployment in Harsh Environments, Search and Rescue, Medical Care and finally Restoration of Basic Services.

## The outcome of this investigation produced conclusions that suggested:

1. One single body should coordinate EU action
2. A more systemic approach for crisis response was required
3. A common operating framework was needed to unify response
4. Fuller interoperability is needed
5. Increased interoperability between civil protection assets and civil-military assets was called for by all major actors
6. Situational awareness needs to be enhanced
7. Better insight into asset availability was key to capacity building and effective response
8. Improved logistics should be set up
9. Open access to training and planning to aid understanding and quality was wanted
10. Citizen engagement should be incorporated in response requirements
11. A shortage in infrastructure, technology and/or tools existed.

As the outcomes were collated, recommendations for improvement were classified into the four domains of Operations, Assets, Learning/Public Awareness and IT Communications. Within these domains, common themes for improvement arose, practical solutions emerged and, working with end users at a validation workshop, prioritization levels were introduced as shown in the table.

## Conversation Clarifies

A further major benefit from this open dialog was better understanding of what was meant when actors spoke about interoperability, mu-



tual aid, common doctrine or strategic oversight. The workshops presented the project team with its own challenge of "how to do a practical demonstration of a scalable solution".

The results were visualised and became the CRISYS Concept Model that illustrates how the four domains combine with the eight capabilities and the operational command and control sectors (3-tiered responsibility) to create the multi-layered and multi-dimensional crisis management process to be improved upon.

**The Matrix**

At the core of the concept was a second model, the CRISYS Operating Model that allowed the movement of data and information. The complexity of data provision and delivery is dependent upon the differing levels of data fusion meeting the three Strategic/National, Tactical/Regional and Operational/Local sector requirements. The COM offers a solution to this complex data task, providing an overview of all capabilities and serves as a guide for classification of capabilities, identification of available practices, technology solutions and tools. The model is the core of the CRISYS Concept Model and seeks maximal reuse of legacy systems with readily available tools and technologies.

**The COM has three main functional layers:**

1. A Command Reconnaissance, Planning and Deployment layer representing preparedness to continuously 'listen' to the undisturbed environment for signals that, when activated, opens a continuous loop crisis response management cycle that in turn creates the deployment plan.
2. The Data Collection, Storage, Transformation and Distribution layer meeting the hunger for data from many sources that differ in semantics, syntactic, protocols and technologies. This is the 'information highway' of advanced communications and data capture and has functions for translation of data incompatibility, storage and fast search purposes, access authorization for security purposes and multi-channel delivery and distribution.
3. The Dynamic and Static Data Supply layer where data is collected without suppliers having to comply with fixed standards and protocols and where data can come from any type of device, instrument, system or source as data, audio, video, imagery, email or in any other processable format, so enabling citizens to be involved in recognizance and response.

**Threats Abound**

The final part of the project was to construct three demonstration scenarios that reflect Europe but are also transferable to global humanitarian aid efforts, showing how the proposed models would work in practice:

Prioritised Domain Capabilities	
Operations	Assets
Incident Command System <i>Need for common understanding Map national ICS onto local systems Local plans must have a receive aid component</i>	Identification and tracking system <i>Need to ensure the educational component is included in Phase II</i>
Response Framework	Availability recognition tools
Risk assessment capture and analysis <i>Need is already established</i>	Attribute capture classification system <i>Example of mass CBRN decontamination</i>
External actors protocols and networking <i>Define actors and Stakeholder protocols Clarity needed about who and what role the stakeholder fulfills</i>	Equipment and vehicle needs <i>Essential to ensure the right tools are available</i>
Command and Control protocols <i>Links to ICS</i>	Specialist modularised assets
Lexicon and language augmentation <i>Common definitions required Ownership by DG ECHO</i>	Logistics hub & collation logistics system
Situational awareness tools and integration <i>Linked to Decision Management</i>	Transportation and supply chain systems <i>Linked to pre planning knowledge base</i>
Communication protocols	Improvement of assets interoperability <i>Need to improve ability to interchange and support tools in the field</i> <i>Note: Common recovery and cost control system needed</i>
Recording review and evaluation system <i>Evaluation in the operational focus is not a high priority Low in Operations and higher in Education</i> <i>Note: Well-being of stakeholders to work under pressure</i>	
Learning and Public Awareness	ITC
On Line E Learning systems <i>Existing systems can help and the platform is just technology</i>	Mobile data systems for harsh environments Information Management system <i>Link to legacy systems important</i>
Access controls and protocols <i>Open and professional levels needed</i>	Information capture toolkit <i>Use of smart technologies</i>
Public learning programmes	GIS visualisation overlays & simulation tools <i>Simulation tools should be seen as distinct Visualisation should have same system reference (symbology and iconology)</i>
Alert and reverse alarms <i>Open to all Stakeholders across borders</i>	Data verification, warehousing and data mining
Lessons Learnt capture & dissemination system	Data encryption
Stakeholders exercise and training <i>E learning Table top and virtualisation could be extremely cost effective for strategic managers</i>	Information formats and verification systems <i>Includes an educational platform component Social media application that links to officially verified CM system</i>
Competency and skill verification system	Control room design and implementation <i>Upgraded to common EU minimum standard Configured to meet incoming assets</i>
<b>Red = high, Orange = medium, Green = low</b>	Mobilisation and dynamic information management

1. Earthquake Scenario: this scripts an earthquake event in a remote area with limited accessibility and represents one of the more frequent EU disasters of earthquakes or landslides. This tests the eight CRISYS Operating Model capabilities on their qualities for deployment in a harsh, remote area.

2. Toxic Gas Release Scenario: the second scripts an ongoing escalation of threats of different nature and impact in a densely populated, diverse habitat. It represents the less frequent but high-impact EU disaster scenario of failure, both technical and man-made.

3. Coronal Mass Ejection Scenario: the third scripts an extreme natural event in an urban location, is new and tests the COM's capabilities to handle sustained operation during a long aftermath period of multiple serious health and safety risks for large numbers of people while vital rescue and infrastructure services fail, bringing long periods of continuous data capture and high level intervention by many agencies.

**Meeting the Challenge**

The study has clearly shown there are real possibilities to improve. The suggested 4-year Road Map will provide adequate proof of concept that enables the CRISYS Concept and Operating Models to give improved crisis management capabilities. Primary among those calls are the engagement of the citizen, a single framework and easier access to better tools. Users also made it clear that their localized risks, the high cost of obtaining and maintaining existing assets for meeting those threats, the practical aspects of training and the cooperation practices they al-

ready undertake require constant investment in material and human resources. If we are to improve crisis management, the solution must therefore be imaginative and acceptable to those who look crisis in the face.

The scope of this study is very comprehensive and unfortunately too long to be published in full length here. We have therefore made the unabridged version available online at [www.crisys-project.eu](http://www.crisys-project.eu).

**Participating in FP7**

FP7 is the short name for the Seventh Framework Programme for Research and Technological Development. This is the EU's main instrument for funding research in Europe through open international competitions and it will run from 2007–2013. Any company, university, research center, organization or individual, legally established in any country, may participate in a collaborative project (known as an indirect action) provided that the minimum conditions laid down in the Rules for Participation are fulfilled. For more information on how to participate and when new calls are released please scan the following link.



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## INTERVIEW

# Business Intelligence Video Systems

Panasonic's new Concept brings Real Time Insight to improve Business Performance

Earlier this year Panasonic announced a new organization called Panasonic System Communications Company Europe (PSCEU) which integrates twelve BtoB product categories plus project management into one organization. Dedicated to offer customers a single point of contact, the PSCEU Pro-Camera solutions business offers camera systems as a key business component for providing solutions. GIT SECURITY had the opportunity to talk to José Riobos, Security Category Manager Europe, about the new approach to the market that Panasonic will present at Security Essen.

**GIT SECURITY:** Some weeks ago at a sales channel event held at Milestone Systems in Denmark, Panasonic's SP500 series Full HD camera was voted best against competitors. Will demonstrating superior product quality be in the focus of your presentation at Security Essen?

**José Riobos:** We are actually shifting our focus at Essen this year. Everybody in the market knows that camera quality is crucial to build a good security system. Factors like bandwidth usage, light and color reproduction, image clarity and accuracy are important, but we think it is more important that we engage with the visitors to Security Essen on a different level and share with them our new concept of Business Intelligence Video Systems.

**What can visitors expect at the Panasonic stand?**

**José Riobos:** The Panasonic stand at Security Essen 2012 gives visitors business specific surveillance demonstrations from industries including Retail, Banking, Public Transportation and Logistics.

**Presenting security solutions for vertical markets helps customers to better understand the offering of a company for their specific needs, but offering vertical solutions is not exactly a new concept.**

**José Riobos:** That is true, if you only look at security needs. What we will present to the market is a completely new approach. From our point of view, security should not primarily be a cost factor. We are confident that it can lead to a profit. The question is how to turn security products into Business Intelligence tools? We want to explain how Business Intelligence

Video Systems are renewing the sector and how they will change the perception of what security stands for. Industry-specific Business Intelligence Video Systems bring Real Time Insight to improve business performance, enhancing operational excellence and execution across Operations, Marketing, Quality and Customer Service.

**What is the technological basis of Business Intelligence Video Systems?**

**José Riobos:** In the past stand-alone-systems for video surveillance were isolated systems with only one purpose: To watch and record the scene for security needs. In the networked world the first step to improve operations is to converge security functions with video surveillance, access control, alarm notification, visitor management systems, intrusion detection and fire alarms in one system. If you have established a robust and integrated IP network system, there is no limit for the use of data. Once this is achieved it is worth taking a look on how one can use the data to improve business processes. Advances in video content analysis, the use of algorithms to intelligently analyze video for specific actions, provide new ways not only to watch the scene and to react, but also to optimize business performance. We call it Business Intelligence Video Systems.

**Does that mean that by installing an IP video system, the customer automatically gets a system that helps him to improve his business?**

**José Riobos:** By investing in the right hardware from the start it's an easier system to develop. First of all you need a really stable system established to secure the network performance and data quality. Intelligent video systems need a special design.

**What feed-back did you get from the market?**

**José Riobos:** The first intelligent video solutions in the market do not work properly, they are lacking quality, stability and are difficult to set up. As we are talking a lot to end-users we hear that they are complaining. They said that all the different providers are pointing at each other when there is a problem. Hardware providers point at software developers and vice versa. They've asked us to help them, not just to provide more products, but to deliver solutions that work. As we are recognized for high quality, stable performance and for offering the best TCO, we see in this changing demand our new destiny. It is to help the market to grow further in the area of value generation by security systems.

**How can our readers get more information about the intelligent video systems concept?**

**José Riobos:** Panasonic is facilitating the activities of the knowledge-sharing platform In-Sight Forum. This forum provides a focal point to raise the level of discussion on the development and meaning of intelligent video systems. The Forum has published a visionary Whitepaper in which it explains how intelligent video systems are renewing the sector. A copy of this Whitepaper is available at the Panasonic stand in Essen or can be downloaded from the in-sight forum homepage [www.in-sightforum.com](http://www.in-sightforum.com).

Security, Hall 2, Stand 219

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## COMPANY SECURITY

# Chemical Know-how for Public Danger Prevention

Security Concepts, Preventative Measures and the New Security Control Room: Exclusive Interview with Merck Head of Security



Answering point in the Merck security center: cooperation with the town

Liquid crystals for TVs, medication against multiple sclerosis: with around 40,700 employees in 67 countries, 10,900 of those in Germany and some 8,100 the main Darmstadt factory alone, Merck is one of the best-known pharmaceutical and chemicals companies worldwide. Since Friedrich Jacob Merck laid the foundation stone in 1668, the name of Merck stands for medicines and chemical products. The company is known worldwide for its innovations in pharmaceuticals, chemicals and life-science in its Merck Serono, Consumer Health Care, Merck Millipore and Performance Materials divisions. The total turnover last year was over 10 billion Euro. Our scientific editor, Heiner Jerofsky, asked Juergen Warmbier about his security concepts, preventative measures and also about the new state-of-the-art security control room in the main Darmstadt factory.

[www.GIT-SECURITY.com](http://www.GIT-SECURITY.com)

**Mr. Warmbier, you have been responsible for the security of one of the best-known pharmaceutical and chemicals companies at its two main locations in Germany, Darmstadt and Gernsheim, for seven years now. What security philosophy do you follow and what priority do prevention and tailored security concepts have in your job?**

**Juergen Warmbier:** All measures are designed to act in a preventative manner. Prevention is paramount. That applies equally to all activities in the German locations as well as worldwide. Our security standards that are applicable worldwide guarantee a comprehensive and uniform security philosophy and likewise set quality standards.

**Security concepts are well known to be the result of current danger and threat analyses. Where are the greatest dangers in your opinion for a concern like yours, and how do you estimate the current risk and threat situation in Germany, Europe and worldwide?**

**Juergen Warmbier:** Currently I see no reason to dwell on any special security measures. There are nevertheless subjects that are always rel-

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**Hall 3,  
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evant and require action on our part. As a pharmaceutical company one must always be on the lookout for counterfeit products. Pharmaceutical companies that carry out research always have to be aware of 'militant activists', in the guise of 'animal rights campaigners'. We cooperate closely here with our Corporate Security division and act with foresight.

**What security concepts and plans help you to minimize the risks and dangers?**

**Juergen Warmbier:** All our concepts and plans are top-down processes. That means, standards for all Merck locations are derived from danger analyses. This enables us not only to attain uniform quality standards but also supports the relevant location-specific requirements. So the same standards apply for all locations with regard to access to the premises, to buildings and rooms. Corresponding security measures are taken depending upon their classification.

**The valuable factories and systems on the premises are open to many different dangers. How and with what measures do you prevent and deal with business disruptions, criminal activity (such as theft, sabotage, espionage or terroristic attacks) and natural disasters?**

**Juergen Warmbier:** As I said, prevention has the highest priority. Therefore, an effective communication network with the security units of other companies as well as to security authorities is an essential component. Locally seen, a functioning access control system is the first step in danger prevention. An awareness of the comprehensive subject of factory security can be fostered in all employees through targeted programs. There are also computer-supported simulations for special scenarios that prepare our people very well and allow them to act precisely when needed.

**Merck and other chemical companies in Germany and Austria make the know-how of their company-internal fire brigades available to the public through TUIS. What can the man in the street understand from this abbreviation?**

**Juergen Warmbier:** TUIS stands for the Transport, Accident Information and Assistance system. It was brought into being as long ago as 1982 by the association of chemical industries in Germany. It is based on the principle of 're-

◀ **Juergen Warmbier, Head of Central Fire Protection and Security at the chemical and pharmacies giant Merck in Darmstadt: comprehensive warning system**



# HIGH-TECH AT YOUR FINGERTIPS.



New security control room at Merck: worldwide emergency call reception center

sponsible care' to which the chemical industry has committed itself. The support consists of three levels: firstly, advice by telephone; secondly, specialist advice on the scene and, thirdly, through our own company fire brigade directly at the scene, for example by using specialist equipment. The company fire brigades of the chemical industry provide support for over 1,000 incidents annually in Germany.

**How close is the cooperation, the partnership with other fire brigades and rescue services specifically with regard to training or the use of special equipment? Are there some topical examples?**

**Juergen Warmbier:** Cooperation with the public fire brigades, the aid organizations, the police and the governmental disaster relief organization is extremely good. Not only the cooperation with the town of Darmstadt functions well, but also equally well with the surrounding communities and nearby towns. The Messkonzept Südhessen (south Hesse measurement plan) is an excellent example of implemented cooperation. The concept describes the joint activities when dangerous substances are set loose. In these cases, special measurement vehicles are brought in to establish the concentration and dispersion of the leaked substance and these are controlled by the measurement office of the Merck works fire brigade for the whole of south Hesse. In this way we can make our specialist chemical knowledge available and support the public hazard prevention agencies. This is responsibility in practice, the Responsible Care I mentioned before.

**A brand new emergency call and service control room has just been opened on the Darm-**

**stadt premises, and this has been housed in a new building. First of all, this is a large investment, but also an important step towards better security. Could you explain the most important functions and tasks of this state-of-the-art security HQ?**

**Juergen Warmbier:** Our security control room serves as the worldwide emergency call reception center for Merck. No matter what happens in the Merck world, the relevant messages all arrive here. The control room is of course the 'heart' of all imaginable security services for the Darmstadt location. Around 30,000 automatic messages arrive here together – for example from intruder alarms, fire alarms and building services systems – and are processed and controlled here with the most modern technology. Also the daily security-relevant tasks are coordinated here by the control room. When events occur, this is the home of the crisis communication, the factory team control and the technical team control. To ensure effective danger prevention when dangerous substances leak, control of operative resources, such as the public and factory fire brigades, takes place in the so-called 'Dangerous Substance A,B,C measurement center'.

**Does the security control room conform to the new EN 50518 standard from a building (Part 1) and technical (Part 2) point of view and does it therefore meet the operational requirements (Part 3)?**

**Juergen Warmbier:** The standard describes the state-of-the-art of technology. Taking the standard into consideration, we have oriented ourselves particularly strongly towards operational matters.



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Fire tender of the Merck company fire brigade: municipal fire brigade training, control center training and plant security

The control center staff have a particularly important and responsible key position in factory security. What qualification certificates and particular abilities do these employees have?

**Juergen Warmbier:** We are an integrated control room. This means that all manner of tasks are addressed by them, such as fire protection, technical assistance, rescue services as well as factory protection. As a result of this, all employees are qualified in these areas. Apart from the required municipal fire brigade training and con-

trol room tutorials, these employees have also undergone rescue service training – paramedic, emergency medical technician – as well as obtained a qualification for plant security activities, as a specialist or service resource for protection and security or plant protection specialist. As we are an internationally active organization, it is natural that our personnel can also communicate in English. Internal audits are carried out to ensure the required process quality in our control room is maintained, also in the form of a ‘test call’ from somewhere in the whole wide world.

Merck company fire brigade with vacuum truck: comprehensive warning system ▼



**One of the preventative measures is reconciliation of the alarm and danger prevention plans with the respective authorities. A very important aspect of this is a neighborhood information system. How does this work in Darmstadt and have you also improved protection of the public with the new control room?**

**Juergen Warmbier:** Our neighborhood information system is currently also being brought up to the latest state of technology. In future we will be part of the warning system of the town. Conversely this means that we are also users of the public warning system. This cooperation with the town takes place with the agreement of the relevant authorities and provides benefits for both sides. I see here a sensible and economic approach that uses the synergies to create a comprehensive warning system.

**As well as firemen, your department also employs engineers, specialists and protection and security technicians as well as paramedics. What other professions from the world of security do you also employ – and provide training for – and where do you see an increased need for personnel in the future?**

**Juergen Warmbier:** We are a recognized training center for company fire brigade personnel, paramedics and emergency medical technicians. We at Merck were largely involved in the development and introduction of the new recognized profession of ‘company fireman’. We also offer the opportunity to train for the certificate of ‘Protection and Security Specialist’. As long as the conditions can be met, we also offer extra-occupational studies in the security sector where required. A young employee who has already obtained her Bachelors in Security Management is currently completing an internship with us. With regard to your question about future staff requirements it should be noted that our company will be particularly affected by demographic change, or rather, it already has been. In the next few years, a competition among young, qualified applicants will be visible – the so-called ‘War of Talents’.

**How do you manage to get the employees but also the visitors and suppliers to take fire protection measures, the adherence to accident prevention regulations and also measures against crime seriously and to comply with them?**

**Juergen Warmbier:** Our aim is the person themselves and their required behaviour. The message must reach the addressee. It is therefore essential to send clear messages that anyone can understand and plausibly follow the reasons behind them. Visitors must be spoken to and informed, and relevant flyers are distributed in addition. People who remain on site for longer periods must watch a security film and demonstrate in a test that they have understood the content. There are special programs on security in the factory for our own employees. At the end of the day, however, everything only functions when the consequences of not following the rules are made clear.

**Mr Warmbier, many thanks for the enlightening and informative conversation!**

Scientific Editor  
Heiner Jerofsky







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## CONTROL ROOMS

# Are You Sitting Comfortably?

## Big Screen Advantages in the Control Room

Over recent years, Eyevis has become an ever more frequent supplier of professional control room equipment, in particular for large screen systems, displays and monitors. Their decades of experience in the sector and has brought them contracts for various high-security projects and control centers of different branches all over the world.

When a massive project is on the line, one is only willing to take as little risk as possible. Mission success, whether you are launching a rocket or managing a security system, often relies on a secure and effective control room, operated by a team of professionals working as a single unit. No matter what the application, one component is often found in these control rooms: a large screen display system. However, are these display systems really necessary in a control room? What are the benefits of having one?

### Concentration and Focus

In addition to the aesthetic and marketing benefits, the practical benefits of having a large screen display system in a control room are overwhelming: firstly, it unifies a control room team and helps to focus the synergy and attention of the group. Secondly, it allows management and senior staff to instantly assess a situation and take quick, decisive action. Finally, a large display system provides a single place to view multiple source types, and allows for 24/7 operations.

The company's partners in providing the complete turnkey installation are of course important, one of whom is Recaro who have contributed their expertise on healthy sitting in control rooms. It is important to have a professional chair, in order for the employees in front of the video wall to stay healthy and focused. When working in a control room environment, it is important to remain concentrated all the time, without your back hurting or any other factors distracting you.

### Coordination and Efficiency

In a control room full of operators, each individual person is usually assigned to a specific task. For example, in a security center, one person is assigned to monitoring security camera feeds, another to alarm systems, another to access codes, and so forth. This configuration is essential, because different professionals specialize in different components of the overall task at

hand. However, this can also result in a loss of central focus if each person becomes too concentrated on his or her individual job, and the control room can become uncoordinated and inefficient with potentially severe consequences.

This is where a large screen display comes into effect. With a continuously updated mission summary shown at the front of a control room, the operators can focus on their individual tasks while keeping updated on the grand scheme of things with just a glance towards the front of the room. In the example of the security center, this means that when an alarm is tripped, the security camera operator can provide a feed of that area while the access operator can lock down that sector.

Of course, not only the operators in the room benefit from this. When a manager faces a situation in which an important decision must be made, he or she wants clear, accurate information as quickly as possible. A large display system helps managers and decision-takers to instantly assess a situation with a single glance because all of the necessary information is neatly displayed together at the front of the control room. Where seconds count, this clarity cannot be given in a verbal report or taken from an individual operator's monitor. For this reason, it's also important that the information is readily available at all hours of the day or night. This significantly lowers the risk of poor decision-making and a potentially ruined project or facility.





**Continuous Operation without Burn-in**  
LCD monitors cannot accomplish the same tasks that a large screen display does. One of the greatest distinguishing factors between a large screen display and the individual LCD screen is the ability to function around the clock. Of

course, for such an essential control room investment, the reliability and functionality of the large screen display is paramount; large screen display systems are often designed to be operated 24 hours a day, 7 days a week, year round. This is particularly true when static images must

be displayed (such as a security camera feed or the valve systems of a refinery), because while most operator desk monitors are subject to burn-in or 'ghost' effects, rear-projection cube systems are much more resilient and the same image can be shown most of the time, but have no disruptive screen effects in the event that you need to display a new image or feed.

Apart from the strictly operation-based benefits, a large screen display system can be a highly impressive tool to show to visitors and investors of your company. A neatly organized, well-focused control room sends a strong message about your company values, and emphasizes a healthy concern for structure, functionality, efficiency and employee health. Large screen display systems help to unify a control room for a clear and concentrated working environment with an intuitive information flow.

Security, Hall 1, Stand 407

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## INTERVIEW

# Determined to Have a Smart Future

## Samsung Concentrates on Customer Support to Grow Further

Gary Rowden was appointed to the role of Sales & Marketing Director for Samsung Techwin Europe Ltd in February 2012. This was a new position and was created as a result of a wide ranging review of how the company promotes and supports its products throughout Europe. In this interview with GIT SECURITY, Gary provides an insight into how the company is committed to a strategy that will allow it to better respond to the sales and technical support requirements of its customers.

**Gary, you have been in your new role for a number of months and although time has a habit of flying by, are you yet at a stage where you are able to talk about any major changes the company intends to make?**

**Gary Rowden:** I am fortunate to be leading a highly professional team which has achieved significant success over the last five years and so I see my role primarily to be about introducing new ideas which builds on that success rather than making any radical changes to the existing sales and technical teams infrastructure.

**Which areas of the business do you think can be improved?**

**Gary Rowden:** Our overall objective is to reinforce Samsung's position as a security brand which can be trusted and that we are a company that people like dealing with.

**Can you explain what you mean by this?**

**Gary Rowden:** Samsung has been acknowledged by independent research companies as one of the top three European security brands and although until recently our strength has predominantly been with analogue technology, we now also have a comprehensive range of IP & network products. It is however simply not be enough to be a one-stop-shop for access control



**Gary Rowden,**  
Sales & Marketing Director  
for Samsung Techwin Europe

and video surveillance solutions or to have products, many of which incorporate technology that is unique to Samsung, that are regarded as 'Best in Class'. In co-operation with our network of distributors we need therefore to back-up these high performance, reliable and price competitive products with unbeatable support services.

**Do you think that Samsung has been offering the required level of pre and post sales support to its customers?**

**Gary Rowden:** In the main, categorically yes. The feedback I have received from the marketplace is that the vast majority of our customers are full of praise for the efforts we make to help them win new business and they are equally impressed with the expertise of our technical teams. There is no doubt that the free system design service and the free technical support that we offer is highly valued, as is the three year warranty which underscores our confidence in the reliabil-

ity and robustness of our products. However, to establish trust, you have to sometimes be brutally honest with yourself and with customers and in this respect, there is no doubt that in some areas of our operation we have been a victim of our own success and need to do better.

**What do you mean by saying that you have been 'a victim of your own success'?**

**Gary Rowden:** A: Put simply, our sales growth over the last couple of years in particular has exceeded even our high expectations and as a result we have experienced growing pains in that the demand for our pre and post sales support services has increased almost exponentially? Offering free technical support is an excellent way to generate goodwill but you have to be able to be resourced to deliver it.

**Is this not a major stumbling block for Samsung?**



**Gary Rowden:** We are determined that it will not be. We are reacting to the challenge by recruiting additional experienced and knowledgeable technical support personnel who will be based at our head office. It is equally important of course that we have people on the ground at a local level who can speak the relevant language and understand local market conditions.



That is why we have already invested in people who are based at our offices in France, Germany, Italy, Czech Republic, Spain and Russia, as well as at our head office in the UK. Our products come from Korea but the future of Samsung Techwin Europe Ltd will be driven by local managers who will be able to get close to customers to listen, understand and fulfil their service level requirements. As well as recruiting good people, we are also putting processes in place to ensure new and existing customers can more readily obtain the information they require. We will shortly be launching a new multi-language Pan-European website where installers, system integrators, consultants and end-users will have access to comprehensive information on the full range of Samsung's product and solutions and as a result, will be able to choose the correct combination of products for their project.

**What does the future hold for the professional security division of Samsung?**

**Gary Rowden:** With the continued support of our loyal customers all across Europe, and we intend to do all that is necessary to continue to earn their trust and loyalty, we have an extremely exciting future. Our IP network based product portfolio places us in an excellent position to work with our customers to win new business. Until recently, Video over IP was only perceived as a solution for large projects but we are now seeing the technology increasingly utilised in small to medium sized installations and so the potential for growth is enormous. To make it easy for customers who are looking for a gradual transition from an existing analogue system to a full IP network based surveillance solution we have also accelerated our programme to integrate Samsung cameras, DVRs and NVRs with video management software offered by leading independent software development companies. This provides customers with the option for Samsung products to be controlled and monitored alongside equipment produced by other manufacturers. Axxon, Aimetis, Digifort, Griffid, Ipronet, Exacq, Genetec, ISS, Milestone, Mirasys, ONssi and Seetec are among the list of VMS companies that we have been working with because of their ability to offer 'open' software.

**Do you think the majority of installers have the knowledge to install a Video over IP system?**

**Gary Rowden:** For every installer or system integrator who is knowledgeable about network based security systems, there are probably still many more who do not yet know what questions to ask when they have a requirement to specify an IP network based solution. As a major stakeholder in the security industry, we feel it is essential that we share our knowledge and expertise in respect of IP network solutions and technologies with our existing and potential customers. Our Smart Security philosophy is in fact all about how customers, with our help, can upgrade from an analogue system to an IP and network based solution in the smartest way for their business. Over the coming months we will therefore be offering training courses which will educate installers and system integrators how they can recommend a Samsung IP network based security solution and be confident that it will meet, if not exceed, their expectations. We want to take the mystery out of installing an IP and network solution and by doing so, demonstrate to customers that with the correct advice and guidance, they need not have any fear of embracing what is truly an exciting technology which offers so many benefits, not the least of which is the opportunity to gain maximum advantage from the latest HD megapixel cameras.

**Do you think Samsung has created a problem by introducing so many new products and**

**technologies in what has been a relatively short period of time?**

**Gary Rowden:** Much of the technology which has been introduced by the security industry has its origins in the massive investment that companies like Samsung have made in consumer products. Other technological advances have come about as a result of a response to evolving customers' requirements. Whatever the reason, the pace at which new technology has been introduced is not generally the problem. Any difficulties have usually come because of the lack of training on how to implement the new technology and a misunderstanding of what can be achieved from it. Training is therefore at the heart of our commitment to build customer trust in Samsung and its products and with this in mind, our customers all across Europe will shortly be invited to take advantage of the education programmes being offered by the recently established SAMSUNG IP Institute (SIPI).

**What can we expect from Samsung at the Security Essen show?**

**Gary Rowden:** We will be demonstrating how customers can upgrade from an analogue system to an IP and network based solution in the smartest possible way for their businesses. Our stand will feature a 'play' table where visitors will be encouraged to get hands-on with the product. They will be able to try the latest IP video surveillance and access control products and there will be specific areas of the stand where Samsung's security solutions for the commercial, education and transport sectors will be on show. There will certainly be no shortage of new IP network based products for visitors to see when they visit our stand. The new affordable range of 1.3 & 3 megapixel HD network cameras should be of particular interest to installers as collectively they provide the flexibility to choose a camera specification which matches a client's specific requirements. These new camera models are capable of capturing evidence grade images, but are offered at a price which would make them affordable for the majority of office and retail video surveillance projects. Also on show will be our comprehensive range of RFID and Biometric technology based access control systems, which provide a cost effective solution for virtually any project, from a stand-alone single door solution, through to large or multi-sited applications.

Security, Hall 2, Stand 413

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## INTERVIEW

# Security, Flexibility and Control



F.I.t.r. Heiko Baumgartner, Marc Handels

In today's fast moving and constantly changing world buildings and workspaces need to be flexible and adaptable, ready to incorporate new technologies. Recognising this, Salto has in the recent years developed new access control concepts and a wide range of innovative products such as the Salto virtual network and the XS4 access control platform. GIT SECURITY had the opportunity to talk to Marc Handels, Vice President Global Marketing & Sales at Salto Systems, about the access control market and the changes in an ever changing and demanding security environment.

**Despite the Euro crisis, Salto seems to be a fast growing company. Is the trend towards electronic locks and access control systems the main reason for Salto growing faster than the rest of the market?**

**Marc Handels:** You are right, Salto has grown rapidly over the past few years. Many people do not know that we had a turnover of more than 46 million Euro in 2011. In 2010 we grew by 25% and in 2011 by 30%. The market for electronic locks is certainly the part of the market for access control systems which is growing most rapidly. However, the fact that we are in a growth market only partly explains these growth figures in economically challenging times. An important reason for our success is certainly that when we started the business back in the year 2000, we concentrated on the market for wireless control elements - especially for the market outside of hotel applications. Although there were already electronic systems in which the data for the access rights were saved directly to the element, there were no systems which were suitable for large applications with more than ten doors. Administration of rights was the main problem. We then developed Data-on-Card, Salto's virtual network (SVN). This technical innovation was so successful that we won projects for a wide range of applications throughout the world with this

concept. Initially, the system was mainly used in the health-care sector, in educational establishments and in public areas. It was definitely the right decision to start in this segment. It was also right not to rely on cheap systems which replace mechanical elements from the outset, but rather to use high quality elements, which although they are more expensive, offer enormous advantages in flexibility and long-term costs.

**So your success is based on the fact that you do many things differently to other companies?**

**Marc Handels:** You could put it that way. In contrast to most companies, we were a global player from the very start. Unlike other companies we did not develop the home market and then take care of exports. Initially, the Spanish market only accounted for about 8% of our sales. We knew that large companies would copy our systems, so we couldn't waste time in gaining access to the international market. A result of this attitude is that from the very beginning our modular systems could be easily adapted to the different requirements of individual countries.

**Has your system now become established?**

**Marc Handels:** The market has changed radically, especially in the past three years. While



initially our systems were often used as a substitute for mechanical locks, we now handle many large projects, where our locking systems are used from A to Z. The opposing argument of large access control companies from our early days, that „access control needs cables“ is long since a thing of the past. Interestingly, it was pressure from our end user customers which brought about the change. They told the large companies in the sector that they had good experiences with hundreds of doors which were managed offline by Salto, and that they wanted a mixture of offline and online access control points for their projects. End user customers like flexibility and want to have various elements integrated into a system for their projects. We are now definitely seeing a convergence between traditional security systems, where elements such as access control, video surveillance systems and alarm systems are linked by cable, together with offline components, which in reality are often no longer „offline“, but rather are in contact with the main system via wireless or SVN. One of the ways Salto is addressing this 'convergence' is by integrating and partnering with a wide range of major access control companies including brands such as CEM Systems, Gallagher, Gunnebo, Honeywell, Nedap and Siemens to name but a few. Such partnerships offer significant benefits to customers looking to deploy integrated solutions into their environment.

**The time to market for your new products is very short. How do you manage to do this?**

**Marc Handels:** One of the reasons for our success is that although our company is managed like an international business, we have many elements such as speed and flexibility, which are more typical for a small or medium sized business. We rely greatly on people, their motivation and passion, regardless of whether they work in sales, development or production. We must remain innovative, and we do this by rapidly implementing ideas, which come from our customers, individual employees or research facilities, in the form of products. We call this open innovation. We actively promote ideas and - most important - we do not waste time in the decision-making phase. Our Development Manager and co-founder, Juan Imedio drives ideas forward and I, with my responsibility for sales and marketing can also not wait until we have a new product on the market. It is clear to us that after the starting phase, in which although we had unique products, we had to explain a lot of things to our customers, we are now in a phase where open innovation is especially important. Competition is growing, but our customers always know that Salto is the technological leader and is continuously developing its products as well as keeping systems which have already been installed at a state-of-the-art level.

**Producers of more traditional access control products were arguing for years that electronic locks and access control systems are less secure and reliable than traditional systems. Is this argument still justified?**

**Marc Handels:** An access control system is only as secure as the weakest link in the chain, which usually consists of three elements: the components which lock the door, i.e. the lock, the control element and the software. We integrate all of these elements into our system. Our locks are as secure as, or even more secure than those of traditional access control companies with conventional components. The same applies for the control element, including encoding. Here, we utilise all available secure card technologies and for each of our door fittings, the customer can select those which he will use exclusively or in parallel. e.g. mifare classic, desfire, desfire evolution one or Legic. This means that according to the selection, the customer can obtain the security level which he requires - up to the very highest security standard - just as with traditional access control systems. One thing must be stated very clearly: anyone who selects a data-on-card solution and therefore a wireless solution obtains a different control element. However, anyone who previously had a mechanical lock did not have any control whatsoever, i.e. replacing such a lock with one of our offline systems increases security. Of course, not to the level of a cabled real-time system, which we also offer and sell very successfully - but which does not come into question in many cases. We offer our customers a full freedom of choice with regard to the security level. They can choose between offline and online systems and have a free choice of the card technology. What is important is to increase the security level of the entire system, taking into account the costs and the technical effort.

**You recently announced a partnership with BioCote, a provider of antimicrobial coating technology. Is the hygiene aspect only important for Health Care applications or would you consider antimicrobial coating as something which is also interesting for other markets?**

**Marc Handels:** In the field of health care spreading of germs and hand hygiene is of course an important issue and there is a great demand for antimicrobial coatings - which we have catered for. In two other fields, the food processing industry and the packaging industry, this type of coating for door fittings and access control elements is now almost standard. There are also other applications in the field of education, for example nursery schools. All of our cylinders can be equipped with Biocote coatings and for our new iCare key cabinets, Biocote coating is a factory standard.

**The move towards using Near Field Communications (NFC) technology is obvious. Is the access control market ready for NFC solutions and what does Salto offer the customer?**

**Marc Handels:** We have been involved with this topic since 2006 and are closely observing developments in this field, as you can see from the article about this technology in GIT SECURITY 2/ March 2012. In this area we have decided not to use any marketing tricks, as NFC is a very important issue and with our data-on-card technology Salto is almost predestined to use this technology. NFC is a very important topic, in which access control is only a small aspect. There have been and still are many important players in this market and over the past years there have been many changes in the technology, which we have all followed at Salto and where we were involved in a large number of developments. The Security exhibition in Essen will be the moment when we can show the first results which demonstrate the true potential of this technology.

**In 2010 you surprised the market with your first appearance at Security Essen. What can we expect from Salto in 2012?**

**Marc Handels:** At the Security Essen (Stand 108, Hall 12) we will present a new generation of products, which not only feature up-to-the-minute design, but also offer technical benefits with true added value for integrators and end users. The new presentations include a series of products, which operate with the latest Legic generation of non-contact RFID technology. The ultra-small and extremely cost-effective Legic advant platform is the perfect choice for battery-operated mechatronic locking systems. With this implementation we are reacting to the increasing demand by our customers for the integration of a security solution based on Legic advant into our leading access control system. In addition, in Essen we will be presenting a new series of electronic door fittings, new web-based software, a location tableau including radio online components, extensions to the leading range of mechatronic locking cylinders, GEO, a panic bar which can be combined with fire safety and security systems, new door handles which have been specially developed under the aspect of freedom from barriers as well as many other solutions.

Security, Hall 12, Stand 108

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## SECURITY MANAGEMENT

# Fired Up

## Taktis Panels at Security 2012

Kentec Electronics, a leading UK manufacturer of fire detection and alarm control panels, will be unveiling their new product concept at Security 2012. Going under the name Taktis, its capabilities extend beyond a very powerful and sophisticated fire detection and alarm system. Taktis offers a unique set of web-based applications that allow the systems integrator, service provider or end user to manage all aspects of their life safety systems.

Kentec will also be exhibiting their internationally approved range of analog, addressable and extinguishant fire control panels, including their EN approved Sigma XT / XT+ extinguishant panel range and UL / FM approved Sigma A-XT that has been designed to efficiently manage small to medium-sized fixed firefighting installations.



Established for over 27 years, the company's products are found in a diverse range of safety-critical environments including transport, health care, leisure, metro systems, hotels and shipping. They can be found as the Security trade fair in Essen on stand 220 in hall 1 from 25–28 September 2012.

Security, Hall 1, Stand 220

### ▶ CONTACT

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Tel.: +44 1322 222121 · Fax: +44 1322 291794  
sales@kentec.co.uk · www.kentec.co.uk

### Smart, Square, Simple

Because of its dimensions and the underlying technology this latest development by the eyevis engineers is a first choice for all kinds of applications in promotion and digital signage: eyevis' new squareTILES are square 21.6-inch LCD screens with a 1:1 aspect ratio, which makes them look quite exotic compared with the typical 16:9 screens we see today. And that's their major strength. The development of the squareTiles was inspired by the predominant measure of tiles in the U.S. and the creative colorful arrangements possible with these tiles. From there it was just a small step towards the development of a digital display counterpart. Thanks to the "ultra-super-narrow-bezel design" the eyevis squareTiles can be installed in almost seamless configurations with minimal spacing between the image contents of individual monitors. They can be used as modules to create digital display systems in a closed or any other arrangement. For example, individual squareTiles can be installed in an offset pattern, or mounted round a corner,



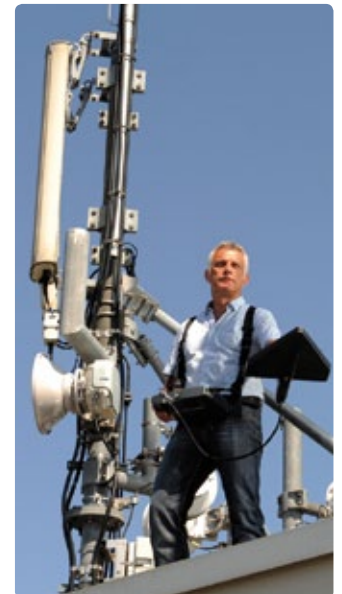
in order to achieve an eye-catching image effect. The built-in scaler and the matrix functionality provide the possibility to realise such unusual arrangements. These features allow adjusting the image easily at any position. The direct LED backlight provides a very uniform illumination of the displayed images. The high resolution of 960 x 960 pixels and wide viewing angle further contribute not only to meet the high professional standards of creative digital signage applications, but to redefine them. Thanks to their robust metal housing that is typical for eyevis products, the squareTiles are interesting even for the AV rental industry. Finally, all companies today are looking for ways to stand out at shows with their own stands from the neighbours.

info@eyevis.de

Security, Hall 1, Stand 407

### Interference and Direction Analyzer

Narda Safety Test Solutions has equipped the Interference and Direction Analyzer IDA-3106 with additional functions that allow even faster and more reliable localization of interference and unknown signal sources. It is now possible to localize pulsed or sporadic signals using a horizontal scan for direction finding – a feature that is a world first in a hand-held device, the Company claims. The spectrogram display shows the variation of the spectrum with time. Deviations from a reference trace can be seen at a glance using the delta spectrum display. The Analyzer records up to 400 compressed individual spectra for the spectrogram display and shows the signal strength in color. This visualizes the variations in the spectrum with time, which can give information about the type of signal, so that industrial control equipment with cyclical signals, mobile communi-



cations services using frequency hopping, stationary transmitters, and sporadic emitters can all be distinguished from each other.

www.narda-ida.com



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**EVENT**

# Security and Fire Protection

Around 1,100 Exhibitors Will Exhibit at Security Essen on September 25–28, 2012



Security Essen has special omens in 2012: The world's premier fair for security and fire protection technology will take place at Messe Essen for the 20th time on September 25–28. Around 1,100 exhibitors from around 40 nations will be expected and will present innovative products and solutions on the internationally most significant platform in their sector. Thus, Security Essen will once again become the trendsetter in the growing security industry. Particularly pioneering innovations will be honoured with the Security Innovation Award.

**Showcase for Innovations**

Security Essen will offer the whole world of security and fire protection technology under one roof with a comprehensive overview for new security technologies and security concepts. In this respect, the trade fair will consistently place its faith in its solution-oriented profile. From mechanical security technology, fire protection and IT security via security systems for outdoor sites and video surveillance right up to solutions for reporting hold-ups, burglary and theft, trade visitors will be able to obtain extensive information.

Not only the wide range on offer but also the large number of innovations make Security Essen a must for the security sector. A lot of exhibitors develop their innovations in a targeted way for the world's premier fair in order to introduce them to the trade public for the first time there. Within the framework of the opening ceremony in the evening before the fair, the "Security Innovation Award" will be presented to the most innovative companies in various categories. The new Research Area will concentrate on future subjects in the sector: In Hall 8, research-oriented companies and institutes will present themselves on a cooperative booth for the first time.

**Special Show for Security Service Providers**

The security service providers will extend their presence at Security Essen 2012. Under the auspices of Bundesverband der Sicherheitswirtschaft (BDSW – "Federal Association of the Security Industry") and Bundesvereinigung Deutscher Geld- und Wertdienste (BDGW – "Federal Association of German Money and Valuables Services"), a communication platform will once again be created for this section. "Protection, Security, Service" will be the central idea according to which exhibitors in Hall 4 will present their ranges of available services. The premiere in 2010 aroused great interest not only amongst the companies presenting themselves but also amongst the trade visitors.

**Valuable Knowledge: Expert Forums**

Three forums will offer the trade visitors the possibility of obtaining information about topical subjects in the sector. In Hall 6 (the Security Forum), there will be lectures ranging from security management to video surveillance. IT security will also play a great role here. Experts will indicate solution paths to the interested trade visitors in a generally comprehensible and practice-oriented form. The forum in Hall 8 will

concentrate on subjects from research and development. Public security will be the focus of attention during the forum about the official figures in Hall 9

**Security Innovation Award:**

Innovations have a tradition at Security Essen: Nine out of ten companies will take advantage of the trade fair in order to introduce a product innovation. Messe Essen uses the Security Innovation Award to honour particularly pioneering products and concepts for which the deliberations focus on the human being. The prize in gold, silver and bronze will be conferred in the three categories: Technology & Products, Services and Fire Protection; a special prize will be handed over in addition. The mark of distinction is meeting with an outstanding response in the sector: 84 companies have put themselves forward as candidates for the renowned award this year. Around half of the applications to be candidates originate from international exhibitors.

The winners will be announced and honoured within the framework of the festive opening ceremony of Security Essen at Messe Essen on September 24. The expected guests of honour at this gala will include Antonio Tajani (Vice-President of the European Commission), Philipp





All Photos: Rainer Schimm/Messe Essen GmbH

Rösler (Federal Minister of Economic Affairs) and Hans-Peter Friedrich (Federal Minister of the Interior and patron of Security Essen 2012).

### Fire Prevention – an Important Subject at Security Essen

The number of fire and smoke fatalities in Germany is on the decline. An overview of the Federal Statistical Office for 2010 indicates 373 fire victims. 150 died from burns, 213 from toxic smoke gases, 10 for other reasons. Some years ago, the number of victims was generally still around the 500 mark. By contrast, the material damage caused by fires and smoke is increasing. According to an evaluation by the General Insurance Association (GDV) for 2010, the average damage caused by fires in residential buildings is now EUR 4,366 (2008: EUR 3,750) per insurance claim. The damage covered by industrial

fire insurance has risen again. GDV expects an increase in the damage sum by 7.5%. Most expensive is the damage caused by the 150 to 200 major fires every year (> € 500,000), on average between four and five million euros.

A study by GDV in 2008 showed that in more than 90% of the major fires in industry there was no automatic fire extinguishing system installed and therefore extinguishing only started on arrival of the fire brigade. It is obvious that many companies accept the risk of damage although there have long since been efficient security solutions for many fields of application and both the technology and the market are continuously developing further in constructional and technological fire prevention, fire alarm technology as well as extinguishing concepts.

This will be reflected again at Security Essen 2012. Some 140 exhibitors out of the total num-

ber of 1,100 – and therefore 30% more than at the last Security Essen 2010 – will be presenting the performance and efficiency of modern fire prevention solutions. The entire range of fire prevention, early fire detection and fire-fighting will be presented in the fire prevention halls (halls 1 and 9). Together with the exhibitors, Messe Essen has agreed on a special „Fire Prevention Day“ on September 27<sup>th</sup>. Many companies as well as the Essen Fire Service will be demonstrating their solutions in realistic demonstrations on that day.

### ▶ CONTACT

Messe Essen, Essen, Germany  
[www.security-essen.de](http://www.security-essen.de)



### Video IP Appliance

**Business Partner** Dallmeier's DMS 2400 is a high performance Video IP appliance with a processing capacity for up to 24 HD video channels. In conjunction with the dedicated and preloaded software Sma-via Recording Server it is a cascadeable IP security solution e.g. for retail stores, gas stations or company premises. The appliance is a high performance server hardware with Multi-Core CPU and 2x 3.5" HDDs. The operating system of the 3HU high appliance is on flash memory for highest system stability. The DMS 2400 is suitable for up to 24 SD-IP or HD-IP video channels. Optionally, an upgrade for hybrid use with up to 24 ana-



logue channels is available. The stand-alone device can be installed in a 19" rack using the optionally available 19" bracket. It supports one local playback of one camera (analogue, SD-IP or HD-IP) as well as the local live display of analogue, SD-IP and HD-IP cameras in the multi split.

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

**Security, Hall FG2, Stand 1**

### Remote Monitoring Portfolio

**Business Partner** At this year's Security show in Essen, Germany, Heitel Digital Video, a division of Xtralis, will present several new security solutions, including the Videogateway series, DVRs for mobile applications, and high performance IMD passive infrared detectors (PIRs). Also on display will be Xtralis life

safety solutions, including Vesda with their very early warning smoke detectors; Eco for gas detection, and Osid for open-area smoke imaging detection. The Xtralis Ad-pro portfolio for perimeter, multi-site, and enterprise security will also be displayed. [info@heitel.com](mailto:info@heitel.com)

**Security, Hall 2, Stand 309**

### HD IP CCTV Cameras

Following on from the launch of the Super Lolux HD cameras a few months ago, JVC has developed a small range of affordable Lolux HD cameras, suited for many applications especially those involving low or bad light conditions. There are three models in the range: the VN-T16U box camera, the VN-T216U indoor mini dome camera and the VN-T216VPRU outdoor mini dome camera. All three cameras feature 1.080p CMOS sensors, and offer multi-codec support, including MJPEG, MPEG-4 and H.264 High Profile, along with the ability to store footage on SD cards. Offering brilliant high-definition resolution and remarkable light sensitivity, the models also feature 2D dynamic noise reduction and support the ONVIF standard for network cameras. The VN-T16U box camera and VN-T216U mini dome camera



with integrated HD lens have both been designed for indoor use, with easy day/night function. The outdoor VN-T216VPRU vandal-proof mini dome is IP66 rated, features an integrated HD lens and built-in IR LEDs, so benefits from true day/night function. In addition, all Lolux HD cameras can be powered via AC/DC or PoE, making installation simple.

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

**Security, Hall FG2, Stand 2**

### Megapixel Line-up

The highlights at Fujifilm's booth at Security Essen will be a number of new Megapixel Varifocal lenses for day/night as well as high-resolution Telezoom lenses for long range surveillance applications in High Definition. The new lenses are compatible with cameras up to 5 megapixel resolutions and provide excellent images in HD quality to make surveillance more convenient. Three new models will be available for Security to enlarge the wide product range of Varifocal lenses. The lenses offer high resolutions of 3 megapixel and IR-correction for applications by day and night: YV3x6SR4A (f = 6~18mm) and YV3.3x15SR4A (f = 15~50mm) for a maximum sensor size of 1/2.7" and the DV4x12.5SR4A



(f = 12.5~50mm) for 1/1.8" sensors and a resolution of up to 5 megapixel. The lenses are applicable for full HD CCTV Security systems to ensure safety 7 days/24 hours. In addition all models are equipped with well-known Fujinon quality such as "AT" aspherical technology, locking screws for zoom and focus as well as metal mounts.

[www.fujifilm.eu/fujinon](http://www.fujifilm.eu/fujinon)

### Unified Security Platform

Security Center, Genetec's unified security platform, blends license plate recognition (LPR), video surveillance and access control into one easy-to-use platform. The latest version of it introduces a host of new features designed to enhance security events and video monitoring, simplify the system's operation, streamline upgrades and maintenance activities, and help users easily monitor the health of their entire security platform. Plan Manager is an advanced map-based interface that allows users to create a virtual environ-



ment from maps, floor plans, or GIS (geographic information system) maps for all types of sites including cities, neighborhoods, airports, campuses, industrial sites, and buildings. [sales@genetec.com](mailto:sales@genetec.com)

**Security, Hall 2, Stand 228**

### High Definition Imaging

Bosch Security Systems has launched 1.080p HDR cameras. Featuring intelligent backlight compensation, adaptive noise reduction and very good color reproduction, the Dinion and Flexidome cameras deliver very high image quality and a very wide tonal range even under the most demanding lighting conditions. Integrated Intelligent Video Analysis functionality enables more effective surveillance, while compression capabilities ensure minimum bandwidth requirements. A cast-aluminum enclosure withstands the equivalent of 55 kilograms (120lbs) of force, making it suited for vandal prone areas and outdoor

use. The cameras use digital imaging technology to deliver remarkable image quality at all times, in both bright and dark environments. Even in high-contrast scenes, or when looking from dark locations into well-lit areas the devices deliver an exceptionally wide dynamic range, to capture more detail in both highlights and shadows. The true day/night cameras deliver images in color or monochrome and switch automatically between the two modes depending on the illumination level. Either mode can also be selected manually via the alarm input, or remotely via a web browser. [www.boschsecurity.com](http://www.boschsecurity.com)

**Security, Hall 3, Stand 409**





## SECURITY AS A PROFIT FACTOR?

Want to learn why security is not primarily a cost factor and how it can lead to a profit? Interested to know how to turn security video equipment into Business Intelligence tools? Get a copy of our visionary Whitepaper in which we explain how Intelligent Video Systems are renewing the sector and will change the perception of what security stands for.

In-Sight Forum is a knowledge-sharing platform aiming to provide a focal point for raising the level of discussion on the development and meaning of Intelligent Video Systems.

Come and get a printed version of the Whitepaper at Security Essen, Panasonic Stand 219, Hall 2.

Join the conversation:  
[www.in-sightforum.com](http://www.in-sightforum.com)

hall 2  
stand 219

# In-Sight Forum



## CCTV

# Highly Prized

## Arecont Vision Panoramic Cameras Secure Al Nabooda Auto Dealerships

An authorized dealer and exclusive distributor of Porsche, Audi and Volkswagen, Al Nabooda Automobiles, has five showrooms and service centers across Dubai, the United Arab Emirates and the northern emirates of Sharjah and Fujairah. Vehicles such as these are a temptation anywhere in the world and such collections naturally attract the attention of car thieves. Obvious deterrents alongside sophisticated background technology help to keep them at bay.

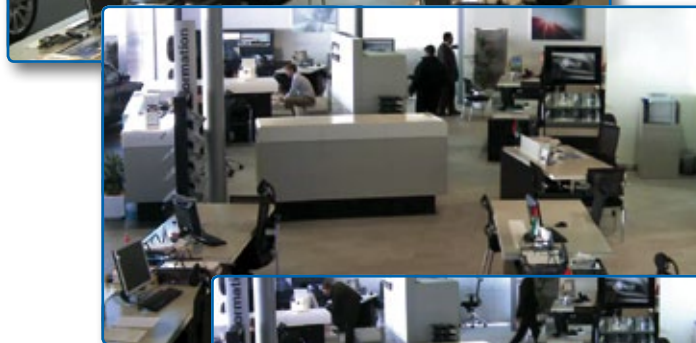
Arecont Vision's Surroundvideo 8 megapixel day/night panoramic view cameras generate high-resolution images that help to secure luxury automobiles and are also a valuable business tool at Al Nabooda Automobiles in the United Arab Emirates. The cameras are positioned to view the dealerships' sales floors and showrooms, workshops, parts and service entrances and other locations.

The installation uses the company's AV8365DN model, a 360-degree panoramic view day/night camera, and the AV8185DN, a similar camera that provides a 180-degree panoramic view. The megapixel cameras represent a highly cost-effective solution by eliminating the need for mechanical pan-tilt-zoom (PTZ) devices and by reducing the overall number of cameras needed to provide detailed coverage of large areas. Now Al Nabooda Automobiles is able to provide a safer, more secure environment both for employees and customers, to prevent theft and to establish deterrents to minimize damage to vehicles in the showrooms, workshops and parking areas. As a business tool, the cameras help the luxury dealership to analyze customer traffic and to evaluate customer support initiatives.

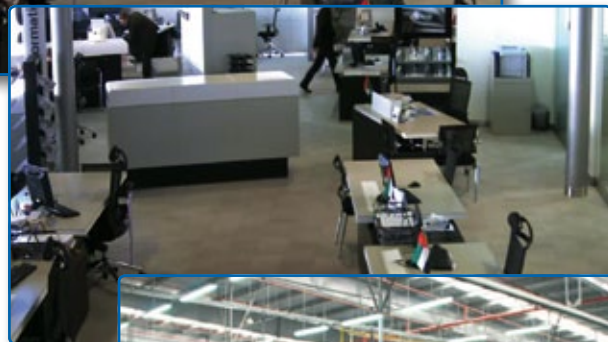
Several Al Nabooda Automobiles dealerships also use the AV11251R 1.3 megapixel H.264 Megaview IP cameras. The all-in-one day/night



▲ Arecont Vision's 8 megapixel AV8365DN, a 360-degree panoramic view day/night camera.



▲ 360- and 180-Degree Megapixel Cameras Provide Safe Environment and Prevent Theft ►



bullet-style cameras have 4.5–10mm vari-focal lenses, weatherproof enclosures and infrared illuminators.

Itworks, a Dubai network systems consultancy and design and build services company for physical security systems, installed the systems. "Megapixel video provides a cost-effective solution covering multiple sites," said Amir A. Kolahzadeh. "High-resolution images enable maximum coverage with fewer cameras, and low-light performance enables after-hours surveillance."

"The camera enclosures have an IP66 environmental rating and can withstand Dubai's extreme temperatures," said Ethan Maxon, Middle East and Africa Regional Sales Manager for Arecont Vision. "Executive management was looking for a comprehensive physical security solution that would allow remote monitoring of

their facilities and our megapixel panoramic images cameras provide the detailed video coverage they need."

Security, Hall 2, Stand 517

### ► CONTACT

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www.arecontvision.com



**Made for Each Other**



Geutebruck has launched a variety of products attuned to its system world. G-Tect/VMX is an intelligent video analysis solution for detecting motion in outdoor situations. Very reliable and easy to set up and use, it reports direction-dependent motion with extremely low false alarm rates even in difficult conditions like rain and snow. If desired, it can also be combined with a conventional VMD function for exceptional dual sensor precision. G-Tect/MoP is a new pixelating function which masks moving objects in live displays or in already archived image data for data protection compliance. Maintaining privacy when monitoring operations in areas with public access, G-Tect/MoP still allows authorized personnel to investigate



serious incidents and forward video for evidential purposes without the masking. For high performance in tight spots the G-Scope/1044 is a compact video solution with a 1TB database and support for four analog and two digital video sources. Temperature tolerant and small enough to fit into an ATM, it shares the Geviscope's software core and functionality.

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

**Security, Hall 2, Stand 409**

**Intelligent Tracking**

Bosch Security Systems announces a new Intelligent Tracking feature for Autodome 700 Series IP pan-tilt-zoom cameras. The firmware 5.51. Intelligent Tracking uses Autodome's built-in Intelligent Video Analysis (IVA) to constantly monitor scenes for motion and automatically track objects moving within the camera range. Autodome cameras equipped with Intelligent Tracking present a major asset to overall surveillance, supporting security personnel with a powerful automated monitoring system to ensure targets' activities are not missed. With this feature, customers can use the manufacturer's IVA to stipulate tasks or conditions that will instantly activate tracking. For



example, the camera can be programmed to follow vehicles that move through an area in a specific direction. Operators can also trigger tracking of objects by clicking on a moving target within live video to prompt the camera to keep it in a scene with pan, tilt or zoom actions.

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

**Security, Hall 3, Stand 409**

**Hikvision NVRs Integrated with Pelco Cameras**

Pelco by Schneider Electric and Hikvision Digital Technology are expanding their existing integration to include the latest range of Pelco network cameras and Hikvision NVRs. The Hikvision NVR series included in this integration are the DS-9600 series, DS-9500 series, DS-8600 series, and DS-7600 series. They will now natively support all industry-leading Pelco network cameras, including Sarix Mega-Performance Cameras (IX, IM, ID series

cameras), Spectra IP High Definition cameras, and multi-channel Network Encoders. "Our collaboration with Hikvision demonstrates Pelco's commitment to be a true Open Systems Provider through our Partner First Program, and we will continuously focus on the areas that will offer flexible, reliable and scalable feature-rich integrated security solutions to our mutual customers," says Fenghua Gao, Pelco APAC Integration Manager. [www.pelco.com](http://www.pelco.com)

**Touring Europe**

**Business Partner** Security Essen represents the starting signal for Dallmeier's Panomera Promotional European Tour with a show truck designed by Luigi Colani. The roadshow will take in 14 stops in five different European countries over a period of seven weeks. For the duration of Security Essen from 25<sup>th</sup> to 28<sup>th</sup> September, the Truck will demonstrate the patented Panomera technology on the open-air exhibition ground 2. As soon as the trade fair closes, the roadshow begins, and will travel through Germany, Austria, the Czech Republic, Switzerland and Italy. The tractor unit puts out 460hp, and it is fully consistent with the manufacturer's "Green Global Security" philosophy: the Colani-designed tractor is based on a standard DAF tractor unit, which was constructed on aerodynamic principles that enable a fuel consumption rate up to 25% lower than that of a conventional tractor unit. The spacious trailer provides a total of 80m<sup>2</sup> on two levels, serving as a suitable setting



for presenting the manufacturer's technology. The patented multifocal sensor system, with which very large areas can be monitored in extremely high resolution, will be presented live in the truck. Visitors will have the chance to experience the technology at first hand, that is designed as a solution for airports, stadiums, logistics, seaports, large car parking facilities or public areas. The Colani Panomera Truck will make stops in many European cities. The registration form is available at: [www.panomera.com/en/roadshow.html](http://www.panomera.com/en/roadshow.html)

**Security, (open-air exhibition ground) FG2, Stand 1**

**Dates and places:**

21 <sup>st</sup> September:	Regensburg
25 <sup>th</sup> – 28 <sup>th</sup> September	Essen, Security trade fair, open-air exhibition ground 2
02 <sup>nd</sup> October	Hamburg
04 <sup>th</sup> October	Berlin
08 <sup>th</sup> October	Frankfurt
10 <sup>th</sup> October	Stuttgart
12 <sup>th</sup> October	Munich
16 <sup>th</sup> – 17 <sup>th</sup> October	Salzburg
18 <sup>th</sup> – 19 <sup>th</sup> October	Vienna
23 <sup>rd</sup> October	Brno
25 <sup>th</sup> October	Prague
30 <sup>th</sup> October	Zurich
01 <sup>st</sup> November	Berne
07 <sup>th</sup> – 09 <sup>th</sup> November	Milan, Sicurezza trade fair

## COVER STORY

# A Virtual Lock

## Logistic Access Control: Secure Movement of Goods in the USA

According to the U.S. Customs Authority, the best way to protect against terrorism when importing goods into the United States is a secure, end-to-end supply chain. Those involved in the supply chain are required to implement a number of organizational and technical measures in accordance with the Customs-Trade Partnership Against Terrorism. SICK's Logistic Access Control (LAC) is an access control system that ensures that goods are handled securely and only by those who are authorized to do so.

LAC offers a complete, ready-to-use solution involving laser measurement technology, radio frequency identification (RFID), and sensor integrated software. It was developed in line with the objectives of the Customs-Trade Partnership Against Terrorism (C-TPAT) and the requirements for obtaining European "Authorized Economic Operator" (AEO) status. The sensor is capable of detecting persons and vehicles in motion, while maintaining the flow of traffic, identifying them with the help of coded transponder cards. Any unauthorized persons or items are reliably detected and prevented from accessing other areas. With the help of intelligent filtering algorithms and plausibility functions, the LAC also provides maximum protection against tampering.

### Secure and Safe Movement of Goods throughout the Entire Supply Chain

For over 10 years since the attacks on September 11 2001, international organizations have been working to protect international trade against terrorist attacks. As a result, a variety of proposals have been developed to implement methods for those involved in the movement of goods to ensure a secure supply chain from consignor to aircraft loading. In June 2005, the World Customs Organization (WCO) launched a global SAFE framework in the wake of similar proposals, such as the European "Authorized Economic Operator" certification. AEO certification, i.e. the "Customs Simplifications/Security and Safety Certificate (AEO F), has been available since 2008 and the scheme aims to provide

end-to-end security for goods handling throughout the whole supply chain. At the same time, it offers those who hold certification the opportunity to pass through US customs formalities for goods imports quicker and easier than normal.

The Customs-Trade Partnership Against Terrorism – a security partnership between the U.S. Customs Authority and the U.S. economy to combat international terrorism – also operates this type of "incentive" system. All those involved in the supply chain, i.e. importers, carriers, producers or agents, can participate and be recognized as a "known shipper" by C-TPAT. Recipients benefit from faster customs clearance by being allocated an individual duty officer, a lower risk ratio with fewer random checks, and access to the deferred payment system for customs duties. The bottom line is that certification holders have a significant competitive advantage over companies that do not participate in C-TPAT. C-TPAT and AEO require organizational and technical measures to be taken.

The C-TPAT and AEO requirements are valid until end of march 2013, so those involved in goods handling still have time to become certified as a "known shipper" by C-TPAT or an "Authorized Economic Operator" by AEO authorities and immediately gain the benefits. Companies involved in the various stages of the product supply chain are encouraged, as laid out in the relevant guidelines, to implement safety programs, which are monitored by random customs checks. Organizational measures must be taken, such as checking the company's employ-



**Matthias Mezger**

Manager of Strategic and Technical Industry Management Building Automation, SICK AG, Waldkirch

ees and their level of education and training. Highly technical requirements also need to be met, such as ensuring packaging, transportation and shipping are secure, and that the right level of company risk management and site security is in place. In particular, this includes installing access control on certain facilities, software programs, transportation facilities, and storage areas. A number of measures must be taken to ensure the physical security of the delivery process, from erecting mechanical barriers and fences and securing shipping containers and cargo areas (perimeter protection) to protecting and monitoring the facade and roof of the logistics area, including entrances and exits (building protection). The key factor is to create a complete access control system that doesn't hinder the flow of goods or shipment and handling performance. System solutions are required that not only can detect and identify persons, but can also tackle the issue of "tailgating". Only authorized persons should be allowed to pass through the access control, and no unauthorized person must be able to follow behind them. The aim is denying access to cargo to any unauthorized persons during on-site transport and storage or during the transfer of goods.

### LAC: Customs-compliant Access Control System for Intralogistics

The LAC (Logistic Access Control) combines non-contact laser measurement and long-range identification technologies in one complete, ready-to-use system. Integrated evaluation and





The LMS123 is a scanning 2D sensor that can monitor multiple 2D surveillance fields simultaneously, thus creating a virtual lock.



The RFU630 interrogator with UHF technology and a scanning range of 5 m offers the highest security in long-range identification of transponders especially for intralogistics applications.

monitoring software is also included – the LAC runs autonomously and requires no external control unit or separate PC/PLC. A LMS123 laser measurement sensor and a RFU630 interrogator with UHF identification system are included in the LAC. It can be integrated as a stand-alone system or as part of a network and can be connected to common intrusion detection and alarm systems.

The LMS123 is an active scanning sensor, which has received a Class C VdS certificate (German security certificate) for its modified version, the LMC12x, and meets police best practice. With an angular resolution of 0.5° and scan frequencies of up to 50 Hz, it emits an invisible laser pulse in a 270° fan, and measures the time it takes until it receives the reflections. This means that several active 2D fields can be configured at once, and a virtual lock can be established. By using LAC, it is possible to recognize, for example, if several people in a row want to gain access. Independent of the lighting conditions in the monitored area and effectively protected against strong incident light or targeted dazzling, the LMS123 provides a high level of detection reliability at any time. Since the sensor operates at a low laser protection class, no further protective measures are needed for persons or objects in the environment. Once a truck or a person with a forklift or a trolley is detected by the LMS123, the sensor triggers the automatic identification system.

SICK's RFU630 interrogator operates in the UHF frequency band from 860–930 MHz and

can identify all RFID transponders over this radio interface that meet the specifications according to ISO/IEC-18000-6 or EPCglobal. This means that the existing transponder ID cards can continue to be used in many cases with the LAC, simplifying system integration and saving costs. The electronics and antenna of the RFU630 interrogator are accommodated in a rugged housing made of die-cast aluminum, which provides an enclosure rating of IP65 or IP67 as required. The RFU60 interrogator offers a reading range of five meters. This ensures a secure and smooth operation of intralogistics: The flow of goods can continue with the LAC in place – neither people nor processes have to stop and identify themselves.

### Intelligent Monitoring Prevents "Tailgating"

The functions of LMS123 and RFU630 are managed by an intelligent LAC software which is integrated in the electronics of the LMS123. In addition to controlling access, the linking logarithm of the software also assists logistics employees in their supervisory role: The LAC detects an unauthorized entry, even if the door is still open. Tailgating may result from a delay or a slow closing gate, but may also occur when a truck or a person pulls several trailers like a train from one area to another. Any unidentified individual who tries to slip through after another person who is entering the 2D monitoring field will be detected by the laser measurement sensor. If the RFU630 does not identify a transponder or a

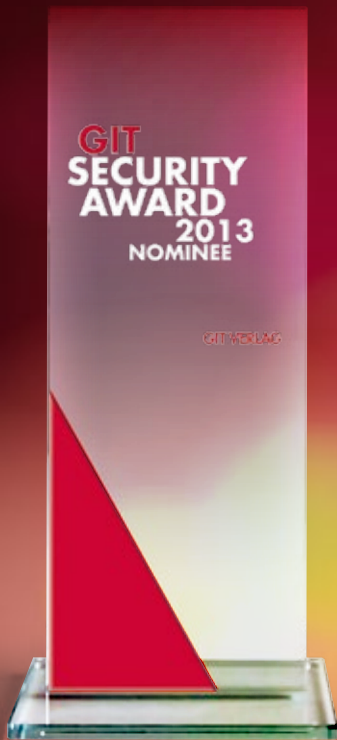
valid transponder, an alarm will activate, either visual, auditory or both. At the same time, existing surveillance cameras can focus and track the person or object which triggered the alarm via the laser detector LMS123. Unauthorized persons with malicious intentions can therefore be identified prior to entry. Persons passing in the opposite direction of the LAC, whether they are authorized or not, will be "ignored" by the sensor technology. The LAC also detects objects that are permanently parked in the monitored area, thus preventing any blockage of the passageway. Intelligent filtering algorithms and plausibility functions also detect attempts at tampering and muting – the system is therefore secure and reliable at all times.

SICK's LAC offers to all companies that wish to establish a secure intralogistics supply chain a high-availability access control system that meets all the requirements of the monitoring process as well as maintaining the physical flow of traffic. As it covers the relevant requirements of the C-TPAT and the AEO, the LAC is a complete, ready-to-use solution and guarantees the best return on investment and sustainability.

Security, Hall 5, Stand 317

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# Take Part and Win a Pentax Camera

Your vote for the GIT SECURITY AWARD 2013

Here we go into the new season. The big names and also hitherto unknown companies in the security and safety business have submitted products for the GIT SECURITY AWARD 2013. Out of all the products, the Jury has nominated ten from each of the categories and presents them to you, dear reader, for your vote. You will find the products on the following pages – here now are the most important details about placing your vote.

## Select one product for each category

For the eighth time we are presenting the GIT SECURITY AWARD. The jury has made its choice from the many products which have been submitted and these are presented on the following pages. On this page you can find out how to vote and how to win.

Once again, it was very difficult for the jury to select only a few products from the large number of products which were entered and which we are now presenting for your vote. We hope that those companies which were not nominated will participate again next time!

## Who will win?

The jury, with representatives from the BHE, TÜV, VDMA, ZVEI and users has nominated products from the following five categories. From these, three winners will be elected.

- A – Safe Automation
- B – Fire Protection, Explosion Protection and Industrial Safety
- C – CCTV
- D – Access, Intruder and Perimeter Protection
- E – Safety and Security Management

Now it is your turn! With your vote, you decide which product will be the winner in each category.

## How to vote

**Fax:** Fill in the voting sheet and fax it to us.

**Internet:** On the homepage: [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013) you can vote with a click of your mouse. There

**Direct Code** 

you will also find information about the products, which you can access via the relevant direct code. In addition you can also obtain information about the company.

**E-Mail:** Send us an e-mail with the category and your favourite (only one for each category) to [GSA2013@gitverlag.com](mailto:GSA2013@gitverlag.com). Please remember to give your full company address. Private persons are not entitled to vote and a business address is essential.

Please let us have your votes by November 1<sup>st</sup>, 2012 in category A – by December 1<sup>st</sup>, 2012 in categories B, C, D and E

You have 5 votes – 1 vote for each category.

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



## Win the reader prize!

With a little luck, you will soon be the owner of a Pentax digital cam. So please vote in the GIT SECURITY AWARD. Select a favourite from each of the categories A, B, C, D and E to take part in the draw for the camera. The Pentax has impressive technical highlights, which enable you to take professional photos. We would like to thank Pentax for their support.

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.





Hall 2.0  
Stand 326

## Analogue, IP or HD-SDI. Fibre, Coax or Ethernet. We make solutions for every technology.

Security expert Grundig, offers professional video surveillance solutions for all security applications.

We have focused on outstanding image quality and ease of use for all our products across every transmission technology.

Analogue, IP and HD-SDI have never been in safer hands.

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FOR A GOOD REASON  
**GRUNDIG**



## Category A: Safe Automation

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2013**

### Bihl+Wiedemann: AS-i 3.0 Profinet Gateway Profinet Gateway for Large Systems



When using the AS-i 3.0 Profinet gateways with integrated safety monitor and Safelink up to 31

gateways having an integrated safety monitor can be coupled over Profinet without any additional hardware needed. The gateway is qualified for large, distributed systems, as in the maximum configuration nearly 2000 safe 2-channel input signals can be efficiently collected and evaluated, and nearly 1000 safe outputs centrally or remotely controlled. Each gateway is thereby able to respond directly to new information – and without use of a failsafe controller.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **355T**

### Innominate Security Technologies: mGuard pci<sup>2</sup> SD Security Solution in PCI and PCI Express Standard

With the mGuard pci<sup>2</sup> SD, Innominate offers an all-in-one security solution in PCI and PCI Express standard which is also suited for use in production environments. In addition to the integrated Stateful Inspection Firewall high-performance VPN functionality can be supplemented. Regardless of the computer platforms you use, regardless which operating systems you work with - if the systems support PCI or PCI Express, a high integrated security standard can be guaranteed.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **TYE3**



### Keyence: GL-R Light Curtain Guarded Safety Light Curtain

The GL-R safety light curtains are rugged: The design – a 3 mm thick extruded aluminum body with a narrow, 9 mm wide recessed lens surface – completely guards the light curtain from impact. In addition new wiring systems save time



and trouble by simplifying installation. So the one-line wiring system allows the transmitter to be connected in series directly to the receiver for power and synchronization purposes. This simplifies wiring to a single cable, greatly reducing installation time and the potential for mis-wiring. The GL-R Series also includes new smart features, like edge to-edge detection, series connection, built-in muting and blanking, highly visible indicators, quick disconnect cable options, and monitoring software.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **8W3L**

### Patlite: Network Monitoring Tower NHL Network Monitoring Signal Tower



The signal tower NHL supervises as a Ping device monitor up to 24 network devices and alerts the administrator in case of an error with a light/sound signal. While common products only display information

which has been sent to them, the NHL signal tower supervises the status of network devices actively and independently and transfers the information. If desired the NHL can send an e-mail message with up to eight events. The NHL is controlled by RSH commands in combination with standard management software – if needed also from a distance via iPhone or iPad.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **KF4U**

### ABB Stotz-Kontakt: Eden AS-i A Non-contact Safety Sensor

The non-contact safety sensor Eden AS-i is now adapted for direct attachment to the AS-i bus. It is suitable for use on interlocked doors, hatches etc. and consists of two complementary parts called:

Adam and Eva. The sensor is only activated, if the door or hatch is closed and Adam and Eva are within the sensing distance. A failure will directly lead to a stop signal. Each Eden sensor is individu-

ally coded which makes it secure against manipulation.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **G3H9**







### Pilz: PSENcode Safety Switch Monitors Up to Three Positions

Coded safety switches PSENcode provide safe monitoring of up to three positions up to PL e and SIL CL 3 and undertake also safe position detection. As a result, only one safe sensor is required for position monitoring. No additional sensors are needed and the numbers of safe inputs on the evaluation device are reduced. Thanks to the

non-contact action principle, its units have a long product service life, providing increased investment protection. The switch is flexible to install, as the sensors and actuators support all actuation and approach directions.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **Y3KU**

### Phoenix Contact: Lightning Monitoring System LM-S Lightning Monitoring System

The Lightning Monitoring System LM-S captures lightning impacting and evaluates the data. The system consists of sensors for mounting on the discharge lines of a lightning protection system for fiber optic signal transmission and an evaluation unit. The access to the collected data is via an internal web server. Then it is possible to query, for example with a smartphone, at any time the load situation of the system. Main areas of use are particularly exposed to risk of lightning location systems such as wind turbines, power genera-



tion equipment industrial companies, large and railway facilities.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **PJYL**



### Steute: ES/EM 98 Extreme Safety Switch for the Extreme

Steute designed a standard position switch for application under extreme environmental conditions, e.g. heat, cold, humidity, Ex protection. A wide temperature range from -40°C up to +90°C extends

the application scope of the new switch series, as well as a newly designed 3-pole switch insert with positive break NC contact with slow or snap action. There are cable-based and wireless versions

and different protection classes IP 66, IP 67 and IP 69K.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **7RGA**

### Murr Elektronik: MVK Metal Safety Rugged Fieldbus Module

In combination with a safe Profinet/Profisafe control (F-PLC) the rugged fieldbus module MVK Metal Safety generates safe inputs and outputs. Installations with Safety Integrity Level 3 and Performance Level E are possible. The fully potted fieldbus modules are suitable for applications in harsh industrial environments, thanks to IP67 protection and a high resistance to media and vibrations. Moreover, they feature comprehensive diagnostic options. Typical applications include connecting two-hand control devices, emergency stop circuits, guard doors and light barriers.



Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **WL3P**

### Sick: Drive Monitor Expansion Module for Safety Controller

The drive monitor FX3-MOC1 is an expansion module for Flexi Soft, the modular safety controller from Sick. Implementing drive monitor in a safety application allows using drive safety functions with non-safe drives. Engineering, setup, certification and project administration getting easier, because the entire safety application is solved in a single software tool; and all relevant information is stored in on project file. Up to six drive monitors can monitor up to 12 drives on one Flexi Soft CPU.



Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **KGRT**

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

### Hekatron: IACmobile Fire Alarm Control Panel for Your Pocket

With IACmobile Hekatron allows the display and operation of Integral IP fire alarm systems via mobile devices. For example, all messages of the fire alarm control panel can be received. In addition, the commissioning is supported and the operator receives more information about the current state of his fire alarm control panel BMA – mo-



bile, anytime and from anywhere in the world. Even the in-house fire safety responsible may e.g. carry out simple exploration tours much faster and more user-friendly – all with such one operating philosophy. Safe access is guaranteed to fire alarm systems via the Hekatron Security-Cloud.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **DUDY**

### Xtralis: VESDA VLI Aspirating Smoke Detector for Harsh Environments

The Industrial VESDA VLI is the first and only aspirating smoke detector (ASD) designed specifically for use in industrial and harsh environments. It is housed in an IP54-rated, ruggedized enclosure and includes a patented long-life, fail-safe filter as well as a patented clean air zero that effectively extends the life of the detector. It can also provide gas de-



tection. The VESDA VLI is designed to protect space up to 2,000m<sup>2</sup>. In Commercial and Industrial markets and applications. In addition, VESDA VLI holds the following copyrights: UL, ULC, LCPB in hand; VdS, FM, Actifire pending.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **AGSZ**

### Escape Mobility: Mattress Stretcher "All in one" Mattress Stretcher for Evacuation

This Escape-Mattress Stretcher replaces the standard mattress on an ambulance stretcher. If it is not possible to get to the patient with a stretcher (e.g. because of stairs or other obstacles), this Escape-Mattress Stretcher can be folded out into a mattress, which can be dragged by the towing straps located at the ends and body flaps for immobilising the patient. After that, the mattress with the patient can be lifted onto the stretcher. The headrest is adjustable in different positions. The Escape-Mattress



Stretcher is developed in cooperation with the Emergency Services.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **BSC1**

### Draeger Safety: Draeger X-dock 5300 / 6300 / 6600 Test and Calibration System for Portable Gas Detection Instruments

Draeger X-dock is a new test and calibration system for portable gas detection instruments. Thanks to the automatic identification of the sensor configuration the station selects the corresponding gases for testing, evaluates the test results and approves or blocks the device. Even the alarm elements (Vibration/LED/horn) and also the response time of the sensors are checked. The unit can be operated conveniently via touch screen. The test time and the gas consumption

is reduced significantly, pumps for gas transport have become obsolete. Each station documents digitally, but results can be printed as well. Also connecting X-dock stations via a local network is possible. Thereby, a database stores all data and with a comfortable PC software it is extremely easy to evaluate all necessary data - including reports and graphs.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **K98H**

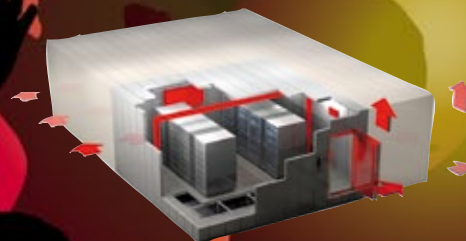
### RZ-Products: GranTe.room.cert High-available IT-Security Room

GranTe-Room.cert is a modular room-in-room system for high availability data-centers. Offering on-line installation, the security room protects IT-infrastructure against fire (ECB-S certified-EN1047-2), burglary (RC3-EN1630), water/dust (IP56-EN60529), smoke gases (EN1634-3) and EMC (EN50147-1).

The modules are installed using a new patented fastening technology. Installation does not cause dust or dirt. An assembly distance to the existing building walls is not required. Extensions, disassembly/reassembly are possible at any time. The light-weight design door system offers highest stability and security. The patented door locking device interlocks the emergency exit door (EN1125/EN179) at 6 points. Innovative cable duct systems complete this new design.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **BAMJ**



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### Wagner: Fire Protection System OxyReduct Active Fire Prevention for Green IT

The earliest detection of fire is an important cornerstone of a fire protection plan for green IT or exposed cooling to ensure the desired level of safety. Titanus air sampling smoke detection systems provide this in the initial smoldering phase of a fire, identifying the problem as soon as possible. When an alarm occurs, a reservoir of nitrogen quickly lowers the oxygen level of the room where it is kept constant by the OxyReduct fire prevention system. If further smoke is detected, the second stage is triggered in which the oxygen concentration is lowered further and also kept at that level. This suppresses the fire event in a targeted, safe way.



Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)  
Direct Code **13TX**

### Zweibrueeder Optoelectronic: LED LENS R X7R Rechargeable Twin Light

The X7R is a rechargeable LED flashlight with unusual design. The eye-catching lamp head contains two light sources and lenses, providing a luminous flux of up to 500 lumens. Even though the lamp head has an oval shape, the X7R produces a circular, focusable light cone. Inside the flashlight, a micro-controller provides the user with three light programs with up to eight different light functions. Thus, the lamp can be configured according to individual requirements. Its multi-functional charging system with wear-free magnetic contact



is another special feature. The X7R can be recharged via power socket, USB port, and car adaptor.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)  
Direct Code **PVL8**

**GIT**  
**SECURITY**  
**AWARD**  
**2013**

### Esser: Compact Compact Fire Alarm Control Centre

A new European product standard combines control of SHEV actuators such as smoke and heat vents and fire control with the fire alarm control centre in a single product. The addressable ring bus control centre is tailored to the needs of small to medium sized premises with increased requirements with

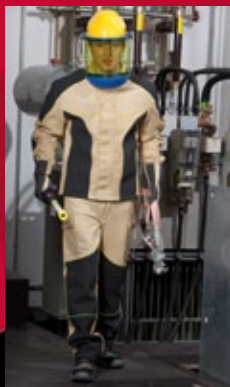
regard to fail-safe capability. Automatic commissioning is performed without additional software tools. The system provides individual addressing, 72 hour battery capacity, integrated fire service interfaces and a large display. Bus communication of alarms is provided by multi-function sensors and alarm

sensors. Couplers and interface modules enable the connection of special sensors. Additional status display for fire control systems (e.g. smoke control flaps).

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)  
Direct Code **CC1R**

### Dehn: DEHNcare Protection in the Event of an Arc Fault

Dehn has now extended its portfolio of personal protective equipment by an arc-fault-tested protective suit. In addition to safety helmets and protective gloves, the protective suit constitutes the third important component for reducing the risk of arc flash injury whilst working on electrical installations. The new two-part protective suit protects workers from the thermal effects of an arc fault during work on electrical installations. To this end, the materials used provide maximum protection (IEC



61482-1-2, class 2) and excellent wearing comfort. Standardised tests prove the efficiency of the safety helmet, protective suit and protective gloves in the event of an arc fault. DEHNcare combines maximum protection and unique wearing comfort. The materials used and the high-quality workmanship ensure excellent fit.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)  
Direct Code **6EPG**

### Swissphone: I.SEARCH Safe and Quick Alert by Radio Paging

I.SEARCH is a system for the safe and quick alerting of employees in dangerous situations, or in case of incidents, machine malfunction or a staff paging system. It has a lot of interfaces to existing systems via: I/O contacts, SNMP, ESPA protocol, serial interface, LAN, e-mail, etc. The staff can be alerted or notified by paging, e-mail or SMS. The pagers are very robust, loud and have a high-contrast text display. It is also possible to let them listen to the text as a voice message. It gives users the opportunity to use it for: -Instant evacuation alert of the whole staff -Alerting the plant fire brigade with detailed information -Paging machine malfunctions are sent to the affected operator

-Automatic notification of the system admin when IT infrastructure crashes -Danger notification alarm in case of a malfunction.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)  
Direct Code **VFFF**





## Category C: CCTV

**GIT**  
SECURITY  
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2013

### Moxa: VPort 36 Fanless Industrial IP-Camera for -40 to 75 °C Operation

Moxa's VPort 36 is the world's first IP camera that withstands temperatures ranging from -40 to 75°C



without heater or fan. It combines HD resolution (1280 x 720), intelligent video analysis technology and de-mist technology to increase the efficiency of video surveillance sys-

tems, while delivering high video quality that is perfectly matched with CCTV, including sharp images, compensation of lighter/ darker areas with WDR, and jitter-free images for clear frames. VPort 36 encodes analog signals into both H.264 and MJPEG streams and can transmit up to 3 independent streams (2 in H.264 and 1 in MJPEG) with up to 30 fps each simultaneously. VPort's MTBF is very high with 61 years and the camera comes with a 5-year warranty.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **GPX2**

### BWA: DiSCAN-PTZ Tracking robot for challenging lighting conditions



The highly sensitive tracking robot DiSCAN-PTZ is an active multi-camera system for automatic PTZ intruder tracking. Features include multiple static panoramic observation zones and IP recording on NAS devices. The optical system is

preconfigured and ready for immediate deployment and is integrated in a compact outdoor housing with an optional emergency power supply. It is a compact speed dome system that analyzes video content from multiple highly sensitive panoramic cameras. Equipped with an unobtrusive housing, it has been designed for continuous 24/7 operation under minimum street lighting. A detection radius of 50 to 120 meters can be achieved.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **F92S**

### American Dynamic: Illustra 600 IP Kamera Serie IP Cameras with Facial Detection Capabilities

The Illustra 600 Series HD IP Cameras are a series of mini-dome cameras that offer facial detection capabilities and auto-focus lenses. The cameras detect faces in a live scene and improve the image quality around the face, while conserving bandwidth in the rest of the scene. Illustra models with auto-focus zoom lenses provide access to adjust zoom and control the auto-focus via the web interface. The cameras offer excellent HD video



quality in all lighting conditions and are also ONVIF compliant.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **KNAL**

### Bosch: DINION HD 1080p HDR Smart Camera for Challenging Lighting Conditions

The DINION HD 1080p HDR camera is a surveillance solution for busy, colorful and high contrast scenes with its High Dynamic Range. Featuring intelligent backlight compensation, adaptive noise reduction and outstanding color reproduction and differentiation, the DINION HD 1080p HDR delivers exceptional image quality and a very wide tonal range – even under the most demanding lighting conditions. The image quality



is complemented by the integrated HD-optimized Intelligent Video Analysis and image processing. Furthermore the camera is "ONVIF" interoperability certified.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **R3HF**

### Axis Communications: AXIS P364-LVE Light Sensitive Vandal-Resistant Dome Camera

The light-sensitive, outdoor-ready AXIS P364-LVE fixed dome camera offers exceptional image quality in H.264 and Motion JPEG. It delivers 30 fps in all resolutions up to HDTV 720p/1280x960. The camera offers exceptional light

sensitivity with Axis' Lightfinder technology and uses P-Iris control for optimal sharpness. As IR illumination camera it works with long-life LED technology that is highly power-efficient. Video intelligence includes video motion detection,

audio detection and active tampering alarm. It is perfectly suited for airports, city surveillance, banking, school and university campuses.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **FQ1M**



## Vivotek: Panoramic PTZ Panoramic PTZ combination

Panoramic PTZ is an innovative technique developed by VIVOTEK R&D team. This technique incorporates a 3.1M fisheye camera



FE8171V and a full HD speed dome camera SD8362E with 20x optical zoom, which allows users to simultaneously monitor an overview from a fisheye camera and a de-

tailed regional view from a full HD speed dome camera. The FE8171V provides 180° panoramic view or 360° surround view without blind spots. With sophisticated mechanism, the SD8362E provides fast, precise pan/tilt/zoom movement and captures details at top-notch quality. The suitable applications include department store, station lobby, parking lot, city surveillance, and any wide open areas where comprehensive video surveillance systems are essential.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **4P3Z**



## Basler: BIP2-D1920c-dn (Outdoor, AF) Full HD IP Dome Cameras with Auto Focus Functionality

The Basler BIP2-D1920c-dn (Outdoor, AF) IP dome camera offers auto focus functionality that makes dome camera installation even simpler; the lens can easily be focused through the camera's web application. With this feature, manual focusing is a thing of the

past. The camera delivers real-time video frame rates of up to 30 fps at Full HD resolution (1080p). Over and above their audio functionality, Basler's IP dome camera has a built-in microSDHC card slot for local data storage of live streams or single camera images (up to



## Brickcom: IP Kamera FB-300Np Most Intelligent and Professional 3M Fixed Box Network Camera

Brickcom FB-300Np is a 3 Mega-pixel day/night box camera that supports triple stream with separated codecs (H.264, MPEG-4, MJPEG) and Full HD Videos (1080P@30fps). Equipped with 1/2.8" Sony Exmor Sensor the FB-300Np provides excellent low light and WDR performance which makes it most suitable for critical application such as license plate recognition. Easy installation is achieved with the extra Analog TV Out while Built-in Micro SD/SDHC Memory Card Slot makes Local Storage possible in case of network disconnection. By means of the Brickcom Intelligent Multi-Profile Sensor Management® Technology users can create up to five

different profiles with different configurations according to the lighting condition. By connecting to an external 3G/UMTS Dongle the camera is also able to transmit live video directly to internet via mobile network.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **5JEU**

32 GB). With its IP66-certified aluminum housing and an operating temperature range from -40°C to +50°C, the vandal-resistant IP camera is ideal for video surveillance in outdoor applications.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **7CWN**

## Pentax Ricoh: H55ZBME-F-HD-PR02 HD + PAIR Technology in a 55x Zoom Lens

This year Pentax Ricoh introduced its new H55ZBME-F-HD-PR02. It combines in a lens's housing PAIR02 technology with Full-HD resolution over HD-SDI output. PAIR02 is the 2nd generation in the PAIR series and Pentax Ricoh have now added further features to optimize the image quality. HD Optics and Full-HD Video over HD-SDI output Reduction of heat haze Internal electronic image stabilizer Backlight compensation Night image enhancement Any PAIR02 lens incorporates the heritage from PAIR01. Reduction of the interfer-



ences in the air from fog, smoke, snow, rain etc. Reliable auto focus on mouseclick. A PAIR lens is an All-in-One-Solution and therefore user friendly and cost saving.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **LXEG**

## Mobotix : S14 Flex Mount Flexible Double Hemispheric Camera

The camera, which is available in both mono (S14M) and dual (S14D) versions, features miniature lens units and offers a wide range of application opportunities. For instance, the S14D can be equipped with two hemispheric lens units with integrated microphone that are connected to the main housing via cables. This makes it possible to fully secure two rooms located next to or on top of one another with just one single S14. The slim design of the

module units, which are available in white and black, permit an extremely discreet installation. Both module units and the separate housing with the latest dual camera board are weatherproof in accordance with IP65 and operate in a temperature range of -30°C to +60°C (-22°F to +140°F).

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **LQRC**





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

### HID Global: iClass SE Platform iClass SIO Technology-Enabled Platform



HID Global's iCLASS SIO technology-enabled (SE) platform is based on HID's Secure Identity Object (SIO) model and introduces technology-independent digital credentials that can be deployed for use

on NFC smart phones and other mobile devices. Supporting multiple technologies such as MIFARE, DESFire, EV1, iCLASS, Indala and other technologies, the platform includes field-programmable readers with energy-efficient intelligent power management; SIO technology-enabled digital credentials and multi-technology smart cards, and an SIO Processor™ Developer Tool Kit for developing products to the iCLASS SE platform.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **S8SR**



### Tyco Security Products: Intevo Integrated Access Control

Intevo is an easy to deploy integrated security system. It can support web- and mobile clients, provide control for access readers and manage a camera network of up to 32 IP cameras. The interface to an intruder system is preconfigured. Intevo is preloaded with Kantech's EntraPass Corporate Edition security management software and American Dynamics' IP video recorder, giving users plug-and-

play capability. With its embedded Windows 7 OS, latest generation Intel processor and solid state drive for applications, Intevo offers high performance computing technology. Intevo connectors include dual Ethernet ports, 6 USB 2.0 ports; dual display outputs for VGA, HDMI and DVI.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **BG1R**



### Kaba Gallenschuetz: Orthos Detect PIL-M06 Personal Interlock for Reliable Detection

The Personal interlock Orthos detect PIL-M06 is designed for reliable detection of explosives, narcotics and even toxic gases in connection with efficient individualized access. Inside of this interlock the complete human body can be tested for dangerous materials

by means of an air duct system and sensors for the detection of certain substance classes. Microscopic quantities of less than 10 µg can be detected. Recognized are all relevant explosives, and also all dangerous materials and narcotics of a known chemical composition.

The analysis is done simultaneously for all registered substances. The whole interlock passage takes about 25 seconds, including the detection procedure of about 10 seconds.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **62D9**

### Burgenkoenig Video: BKVideo SPI Series Attractive Long Distance IR Detectors

The 180 m far adequate passive IR motion detector SPI 108 is developed in cooperation with ASAS systems engineering for outdoor use. You have a robust IP 66 – aluminum enclosure. The high-quality germanium optics with extremely resistant DLC layer guarantees gapless monitoring of Detection range with a vertical opening angle of 90°. Thus the point of installation is secured and monitoring

gaps be excluded on flexing points or corners. The horizontal angle of the monitor curtain is only 1.0° small and geometrically exactly defined, to avoid unwanted alarms from the environment. The detector is in its operating position > 30° inclined, so there are no indications of the real detection range.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **RG8W**



### HeiTel Digital Video: IMD series PIR for Perimeter Protection in Outdoor Areas

The HeiTel IMD (Infrared Motion Detection) detectors are high-performance passive infrared motion detectors, which have been specially developed for external surveillance purposes. For different object and application-specific scenarios there are medium and long-range detectors with very small angles of aperture, and surface detectors with different ranges and suitably large angles of aperture. The outstanding performance feature of the



HeiTel IMD series is its remote service option. The devices can be configured and diagnosed very easily, both locally or remotely. The assembly height of up to 4 m ensures a low risk of sabotage.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **ZNR6**



### Winkhaus and D+H Mechatronic: ActivPilot Comfort PADM with BDT Window-mounted Drive Fresh Air at the Touch of a Button

The activPilot Comfort PADM window fitting with a window-mounted drive from D+H Mechatronic ensures energy-efficient and natural ventilation with increased security against break-ins. The drive enables motor-powered opening and closing as well as a parallel



position of the window away from the frame (approx. 6mm). Even in this opening mode, the system is suitable for break-in resistant windows up to RC2. In ventilation scenarios, such as freely selectable specified ventilation times, rooms are supplied with draught-free fresh air according to DIN 1946-6 independent of users. A radio remote control unit enables the convenient control of windows which are difficult to access. The system features a touch screen with self-explanatory key symbols and low-noise operation.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **ZMUL**

### Interflex: Reader IF-800 Sustainable, Functional and Aesthetic Access Reader

Its elegant design and easy-to-use technology are the distinguishing characteristics of the IF-800 access reader. The new lighting concept allows for the user to visually recognize the booking status even when a credential is presented to the reader. Due to the configurable power-saving mode, the reader requires less energy and is thus especially sustainable and efficient. Furthermore, in conjunction with the door controller module IF-0710, the IF-800 access reader is able to store keys in a secured area. Customer-specific keys can be generated via software and di-

rectly written into the SAM (Secure Access Module). Encrypted communication then takes places from the credential to the SAM in the secured area. Benefit for the customer: He can create his own key and store it in the SAM.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **YGHR**



### Xtralis: ADPRO Intrinsically Safe (IS) Passive Infrared (PIR) Detectors – Intrinsically Safe PIR Detection

Hazardous explosive areas require high-performance intrusion detection. Xtralis offers intrinsically safe (IS) Passive Infrared (PIR) Perimeter Intrusion Detectors (PID) with ranges of 27m x 30m (PRO-18WIS, volumetric) and 150m x 3.3m (PRO-100HIS, curtain). The PRO-18WIS and PRO-100HIS, the world first IS PIR PIDs which can be operated via bus communication. IS technique permits live maintenance. Important, since fault-finding on de-energised equipment is difficult. A reduced amount of training is

required. The use of conventional security cables also reduces costs. PRO-18WIS and PRO-100HIS require the installation of IS barriers for power, switching and communication. Baseefa ATEX approval: IECEx BAS 11.0127X, Baseefa 11ATEX0261.



Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **K9R6**

### Gantner Electronic: WiNET A Network System – Wireless

WiNET, the online wireless system, consists of battery-operated cylinders and armatures as well as radio nodes and controllers. The radio nodes are connected to the RS-485 interface and establish the connection to the cylinders and armatures over a distance of up to 40m. The administration of the credentials is performed on the PC. There is no need for writing stations or handhelds or walking to the doors. The radio network is used for the transmission of

access credentials, door opening commands, and system information return messages. For the putting into operation of a WiNET system, the used cylinders and armatures are scanned by the radio network, then identified on the basis of the serial numbers and assigned to a door by the software. The further configuration is automatic.



Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **PAG1**

### Nedap: AEOS Intrusion Detection Always Armed. Even When You Disarm It.

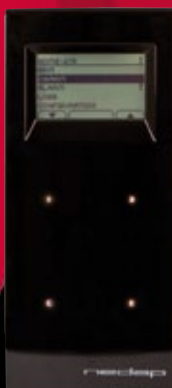
The innovative Nedap AEOS intrusion detection is certified according to EN5013-1, grade 3, Class II. The intrusion detection system is based on a system- and database-independent web application with an intuitive user interface. User rights, PIN-codes and biometrics

can be managed centrally. Thanks to the unique, open and scalable AEOS structure functionality can be extended, even when the system is in use. AEOS combines and integrates processes like intrusion detection, access control and video control, all these processes can be

implemented on one Nedap Security Controller. Because of this AEOS is a truly global solution that can be used across buildings, countries and continents.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **RHSW**





## Category E: Safety and Security Management

**GIT  
SECURITY  
AWARD  
2013**

### CKS Systeme: CEUS Mobile Support for Emergency Services

„CEUS Feuerwehr“, „CEUS Rettungsdienst“ and „CEUS MANV“ are scalable, highly flexible software modules used for supporting emergency services while on duty. The software solutions offer special applications for fire departments, EMS as well as rescue teams at greater scenes of accidents. They can access the applications easily and intuitively via notebooks/tablets and look up essential information about the mission, e.g. usage lists, lists of available vehicles, maps of the area, floor plans or surveillance videos. The software makes use of userfriendly inter-



faces for implementing access to external software and peripheral equipment such as Crash-Recovery, DIVI-Links or medical equipment.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **K56A**

### Dräger Safety : Shutdown & Rental Management Supply of Safety Personnel and -Material

The Dräger Shutdown & Rental Management concentrates in a worldwide unique service the supply of safety personnel and –material. Together with the company’s manufacturing expertise for professional safety technology the holistically aligned approach of Dräger SRM reduces safety-gaps and sets course for successful Shutdowns. Basic components such as the highly-efficient SRM-Software, flexible safety guards, on-site Safety Shops, Dräger Rental Robots, Dräger Monitoring and Safety Consultancy complete the SRM portfolio. The Dräger SRM of-

fers transparent custom-made solutions in a cost-effective manner and is internationally applicable.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **LE7L**



### Nedap: AEOS 3.0 User Friendliness Leads to Greater Security

During the development of the AEOS 3.0 security management system, Nedap focused on the best user comfort, data protection and sustainable system safety. Where other solutions are based on fixed hardware, AEOS 3.0 is based on versatile software with open IT-

standards and an intuitive user interface. Receptionists get their work done more efficiently as they are using such an intuitive system, which in turn means the organization can provide service with a higher degree of professionalism. The future-proof AEOS 3.0 increas-

es user satisfaction and is more secure due to the integration of intrusion detection and video management, while reducing the total cost of ownership.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **2XS1**

### Genetec: Security Center 5.1 Unification of Multiple Security Systems

Genetec’s Security Center 5.1 is a platform that includes real-time monitoring, alarm management, and event reporting in a simple and unified interface. Bringing together common functionalities of license plate recognition (LPR), video surveillance and access control, the Security Center offers a unified approach to security by merging this all into one easy-to-use platform. The platform is founded on an open and distributed architecture to make it possible for organizations to select their own hardware and optimize the use of their existing infrastructures. It equally pro-

vides the flexibility to scale from one camera/door to hundreds or thousands as their needs require.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **JLL3**



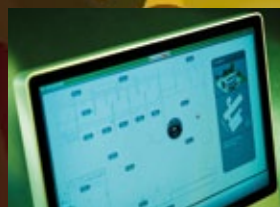
### Securiton: SecurLink UMS Universal Management System: a Complete Overview for an Intuitively Correct Response

SecurLink UMS combine all kinds of subsystems into a clearly structured overall entity. Fire and intrusion alarm systems, access control systems, video surveillance and building management systems – all this information is displayed at a glance. And virtually on every ordinary working day. And when

time is of the essence, the system can save lives. UMS sorts the information, provides clear instructions on how to resolve the problem, and offers a clear overview with detailed, zoomable graphics. Photos, floor plans and instantly recognisable detector positions make complex events quicker to appraise. Together with the possibility of remote controlling all the connected systems at the click of a mouse, UMS becomes an essential assistant in situations of crisis.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)

Direct Code **UC8T**





## SeeTec: Multi Solution Platform Detailed Illustration of the Customer's Needs on a Video Management System



The Multi Solution Platform basic concept is a detailed illustration of the customer's needs on a video management system. The common technical base enables a continuously and unlimited extension of the

video solution without installing some new software or change the product. The crucial difference of the Multi Solution Platform in comparison to other video solutions lies in the figure of the individual customer needs – far beyond the security world. Different modules for branches like logistics, finance or retail support the business pro-

cesses by cooperating with the business own software applications. That way video data is being enriched with meta information and can be easily analysed. The logical consequences are increased efficiency and development of added value.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)  
Direct Code **TRJH**

## Novar/ Esser: FlexES Guard Risk Management System



As a real Client-Server system with a web browser capable editor module, with the Workflow Wizard for alarm programs and the possibility to execute modifications of the application directly online, the new system under the ESSER brand excels with a dynamic data point

model and an innovative data bank concept with high resilience and low incidence of errors. It allows the smooth reception of data from subsystems, too. The FlexES Guard excels for its high scalability and its new licensing concept; it can be used in very small systems as well as in fully redundant multi-server systems. The comprehensive and integrated import and export functions minimize the efforts for multi-site and migration projects.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)  
Direct Code **21HT**



## HeiTel Digital Video: EMS (Event Management System) Event Management System

Multi-user-capable alarm and video management system as central tool for proactive and preventative security concepts. Comprehensive protocol and statistics functions, a high level of automation, intuitive and ergonomic operation in conjunction with easy to create, interactive site plans provide for high levels of acceptance and user-friendliness. Use of HTconnect communication technology allows trouble-free, rule-based ac-

cess without additional installation work, even to video systems embedded in complex, private or public IP network structures protected by firewalls. The integrated, automated health check function enables permanent monitoring of the availability and functioning of the connected systems and transmission paths.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)  
Direct Code **H9Q2**

## Dexevo: Decams Mobile "All-in-one" Security Solution for Construction Sites and Events

Decams is a new mobile security system for professional monitoring of construction sites and events. Tailored to the needs of security service providers, it provides unlimited registration of groups of persons, printing of photo IDs, control of access and access roads, online visualization of all companies, workers, vehicles, incl. recording of actual presence and working time, and emergency information. Decams is quickly deployable, as a standalone unit or within a network, and offers great ease-of-use. Its state-of-the-art development platform offers flexibility for specific customer requests. Above all,

Decams features low operational costs and brand-new refinancing possibilities.

Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)  
Direct Code **EVGZ**



## TKH Security Solutions: Fore! Smart Security Solution

Fore! is a professional and innovative Smart Security solution. The system offers practical Security Management as well as extensive Access Control, Video Surveillance, Intrusion Detection and Intercom functions. Since Fore! ensures a centralized and integrated approach to Security Management, it promises a powerful Security Management Solution for small and mid-sized enterprises.



Further Information at [www.PRO-4-PRO.com/go/GSA2013](http://www.PRO-4-PRO.com/go/GSA2013)  
Direct Code **SJKB**

## SPECIAL FOCUS: ACCESS CONTROL

# Many Roads Lead to Rome

St. John's University in Rome Operates SimonsVoss Technology



The Colosseum, St. Peter's Basilica, the Trevi Fountain – just three keywords and everyone knows you are talking about Rome, the Eternal City. Lucky are those who have more than just a few days to stroll around, staying several months to study there. Every year, approximately 800 students from all over the world enroll at the renowned St. John's University Rome Campus, aiming to achieve their Master's degree (MBA or MA), or complete a term abroad as part of their undergraduate degree. The campus can be accessed with just one click: the Italian site has opted for digital transponders by German security expert SimonsVoss.

St. John's University is not only a well-known private university, but also the second largest Catholic university in the US. St. John's has four campuses in New York alone – Queens, Manhattan, Staten Island and Oakdale and a site in Paris, France. With the inauguration of the campus in Rome in 1995, the long-established university basically returned to its roots: the Vincentian Fathers who founded St. John's University in New York in 1870, originally came from Rome. The Vincentian University still very much cultivates the heritage of Saint Vincent de Paul, founder of the order and patron saint of Christian Charity.

## A Tricky Task

Values such as commitment to social causes and the open, cooperative atmosphere on the campus are proof of this. But there are limits to this openness, especially when it comes to building security and access control. Both issues are part of day-to-day business for Claudio Marinangeli, Director of Operations and Information Technology. "My team and I make sure that the campus is open to the public during the day, but secured well at all other times," he says. Not an easy task with people constantly going in and out. At a size of approximately 7,000 m<sup>2</sup>, the campus comprises classrooms and conference rooms, student lounges, computer lab and library, faculty and administration offices, a typical Roman courtyard and over 200 student beds.

But Marinangeli has everything well under control: since November 2010, about 300 people in Rome use digital transponders and 80 percent of the doors have been equipped with digital locking cylinders by German security expert SimonsVoss, with priority given to the main entrance, sensitive (technical) areas and student rooms. Marinangeli explains why: "The old system was unreliable and insecure. Therefore, we were looking for alternative solutions." But why choose the digital locking and access control system by SimonsVoss? The Technology Director's prompt reply: "SimonsVoss showed maximum reliability at minimal costs. We were also very impressed with the system's scalability and performance. After successfully testing it in several rooms, we knew we wanted it."

Improved security, flexibility and economic efficiency – those are the main advantages of SimonsVoss' digital locking and access control system 3060 when compared to the competition's traditional systems. With a single click, the digital transponders unlock digital locking cylinders via tap-proof, wireless data transmission and this innovative idea has since become a global success: since its foundation in the 1990s, the company has equipped over 10,000 organizations in all industries with its digital systems. In the Rome Campus, it's the students who are the main users of the system, followed by administrative staff and external bodies.

## Impressive Key Skills

Individual access rights are assigned using one central PC, based on the simple rule: "If you must have access, you should be allowed access." We don't even have to ask an expert such as Marinangeli whether he faces any technical challenges. He says: "There are none. My colleagues and I found the online system as well as the locking system management software by SimonsVoss very easy to use. The system is clear, simple and runs steadily. When new students enroll with us, we assign the necessary rights to them; once they leave, we revoke those rights." The responsibility for creating the locking plan and monitoring the system lies with the Director, a second colleague assigns access rights online and a third member of staff handles the programming device, ensuring that data are transmitted from the locking plan to the digital cylinders on the campus. "Everything can be



done very quickly, even if a transponder gets lost or something has to be changed later on. The system adapts to every situation!" Only at the beginning of a new term, with many students starting university and old ones leaving the campus, large-scale re-programming is usually required and many new transponders have to be distributed. This process takes slightly more time, according to the IT Director. But even that task could soon be a thing of the past: "We are currently testing the WaveNet relay network. With it, we could complete all our tasks from the PC – what a fantastic thought!"

### ... Result in Top Scores

And what about money? The purchase of digital technology in particular is widely regarded as expensive. "I don't agree," Marinangeli says. "The initial costs are not high. No cables are needed for the installation in the building, so it costs very little. People tend to forget that." And since there are hardly any follow-up costs, the system is even more beneficial in the long run. St. John's seems to be completely happy with this German-Italian partnership. "Absolutely," Marinangeli insists. "We haven't regretted the use of SimonsVoss for one minute. Digital technology is far better than mechanical systems, especially if there are many users. It is effective, cost-efficient and very secure. Today we can calmly say: not all roads lead to Rome – but many do."



### SimonsVoss: Recommended by Insurance Companies and the Police

SimonsVoss Technologies AG based in Unterföhring near Munich is the market and technology leader for digital locking and access control systems. With the digital locking system 3060 which consists of a digital locking cylinder, a transponder (digital key) and the Smart Relay (key switch), SimonsVoss provides companies, organizations and demanding private clients with innovative access solutions. The products from SimonsVoss are characterized by a higher level of security, flexibility and efficiency compared to conventional mechanical and electronic

## Challenge and Solution

### The challenge:

The new installation of a digital locking and access control system for one building and the distribution of transponders to approx. 300 internal and external users  
Central administration  
Free assignment of access authorizations

### The solution:

Digital, wireless locking system  
Central access administration from PC with graphical user interface, wireless communication for new programming of access authorizations

locking systems. The digital locking and access control system 3060 from SimonsVoss meets the highest safety requirements, is certified in class C SG6 by the Verband deutscher Sachversicherer (Association of German Property Insurers) and is recommended as an electronic locking system by insurance companies and the police.

Security, Hall 11, Stand 404

### ▶ CONTACT



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## SPECIAL FOCUS: ACCESS CONTROL

## Fit for Service

## A New Key Management System for the Louis II Stadium in Monaco



It is extremely difficult to maintain an overview of stadiums because of their sheer size. In the Louis II Stadium in Monaco there are around 900 keys to be administered that protect numerous sports halls used for basketball, handball and football as well as fitness studios, swimming pools, various changing rooms and storage rooms. Keeping track of all these keys is a big challenge and calls for a sophisticated solution.

Schools, sports clubs and societies all use the stadium for training. Suppliers and workmen all need certain keys at particular times in order to gain access to the areas where they need to work. Athletes, the security and cleaning personnel and technicians normally receive the keys they need for the functional areas and other leased premises during events at the entrance gates.

When planning and running large events however, many different service providers need a key in their hand. An example: the workmen come to the door unannounced and want the key to the storage room. They are given it, but forget to bring it back again when they are finished and then the big search starts – who gave the key to whom and where is this person now? Pierre Yves Dudal, Directeur Général Adjoint at deister electronic in France says "The main problem was generally the traceability of the most important movements of the keys and key management itself. It was also important that the keys must be returned within a given period."

### Stress Reduction

To date, the key issue proved to be both costly and time consuming and the gate-keeper had to

be relieved of this administrative burden somehow. There was a need for tamper-free removal and return of keys which should be transparent and, above all, automatically recorded. A proxsafe flexx key management system from deister has now been installed at the stadium. This enables keys to be safely issued and returned, day and night, and it is always evident which key is currently being used. The keys are attached to the electronic key tag by a key ring and a one-time seal. There are individual slots for the key tags which are mechanically retained and only released after positive identification of the employee. This way, the respective key slot illuminates, the user is navigated to the appropriate position of the key tag and can take the key that is needed. When the key is being returned the user is automatically guided to the correct location for this key tag again.

The automatic management and logging of the keys has proven to be safe and system operation very simple. "You can see at any time who has taken which key and when it has been returned. If it has not been returned on time, the supervisor or administrator automatically receives a message by e-mail and can ask the key carrier where the key is", says Pierre Yves Dudal. "The system can be programmed with information about exactly which key is on the key tag, even when it is a group of keys. And should the whole key tag be misplaced or lost, precisely those master keys or the relevant locks can be exchanged because it can clearly be seen which key has been lost."

### Valuable Items

The deister electronic proxsafe systems don't just protect keys; they use RFID technology that allows contact-free automatic identification and localization of objects, making them ideal for other valuable items, such as computer security



dongles for example. This means that the key tags don't come into contact with the electronics. There is therefore no wear on the key slots and dirt has no effect, making operational interruptions or failures a thing of the past. All moving parts are extremely robust and have been subjected to intense endurance tests, the results of which demonstrated a maintenance-free and safe system.

The key cabinets can be installed at almost any location, expanded or reorganized. The systems can either run independently or networked. Multiple systems are controlled by the proxSafe Commander software.

Introducing an electronically controlled key management system results in less time and effort being spent in administering keys. Additionally, a complete record of key movements is available to senior security staff. The large internal memory of the operating terminal increases system availability by bridging network or power supply failures. The key management system installed in the Louis II stadium is capable of controlling up to 500 key slots and thereby administering up to 1.800 individual keys. And of course every single movement and usage of the key tags is being recorded and archived.

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## SPECIAL FOCUS: ACCESS CONTROL

# An Open and Shut Case

## How to Pick a Key Control and Asset Management System

Since their debut in the marketplace more than 20 years ago, automated key control systems have maintained popularity for their capacity to manage and monitor keys seamlessly. Now enhanced technology and network capability are strengthening the arguments to introduce a key control solution even further.

In locations such as casinos and gaming, correctional facilities, health care institutions, hospitality businesses, multi-family buildings and educational facilities, key control management systems are a proven solution to enhance physical security. Key control is also a critical function for anyone overseeing security at conference centers, government agencies, control rooms, automotive businesses and corporate buildings.

Automated key control systems provide a higher level of access control through sophisticated technology that offers secure storage of keys and enables the programming of user restrictions or parameters for optimum key control and management. Users can only remove the key they are authorized to use by entering a pre-programmed PIN code, scanning their access card or giving biometric identification. 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. The other keys will remain locked into place.

### Improved Operating Technology

Online monitoring, updating and reporting capabilities enhance the functionality of a key control system and add to the integrity of the overall security plan. At any time, security operations can determine in which cabinet a key is stored, which keys are available for access, view who currently has which keys out and for what area and when they are scheduled to be returned or who has taken keys out, for what areas and at what times. When keys are not returned when scheduled, e-mail alerts can be sent to management to allow quick action.



Key control solutions are further enhanced with supporting operational software. The software can run activity reports, sort events based on different criteria and also view and print reports. Depending on the type of system, the software will either poll the individual key control cabinets for the data or, in the more advanced key management systems, the system will automatically send the transaction information back to a central server, allowing system managers to sort and analyze information to maintain maximum control of access and security issues. The management software also maximizes the programmable access capabilities of the system. For example, in the late evening when an employee has called in sick and another staff member must cover for that individual, it's much easier for the manager to remotely authorize access to a key cabinet than to physically travel to the site to release a key.

### Integration Increases Value

Key management systems can also reinforce physical security systems and policies that are already in place. Today's updated approach to key management security is designed for complete interactivity with other business and security systems. Critical information about key control can be communicated across multiple systems, enabling additional or immediate security action to be taken. Open protocols enable connectivity to access control and other systems provided by a range of integration partners, allowing systems to be connected to edge devices via RS-232 or networked via Ethernet. The transparency of the integration allows for the functioning of each of the discrete processes while simultaneously and seamlessly merging the related functions.

Using a common front-end database, the area of movement for staff with keys can be de-



finied by the parameters within the building that are managed by various access-controlled doors. An example of this would be a user who has taken a specific key and then is denied egress from the facility until the key is returned. Selected management can be alerted via email if a high security key has been accessed or not returned on time. In network-enabled key control systems, authorization codes can be changed instantly to help prevent incidents such as allowing access to a recently terminated employee. The parameters can be applied to users, to keys, groups of keys, time restraints or reservations.

Network access and the compatibility with other systems offer an added richness and usability to the key control and management system. Optimizing the key management and access control technology within a facility through system integration pays obvious rewards in terms of ROI (return on investment) by allowing optimum security solutions to be maintained without the need to overhaul or replace costly installations.

### What's in the Box?

The functionality of key control systems continues to expand, with new features such as custom modules to accommodate valuable items. Lockers, available in various sizes, can be used for storing small firearms, cell phones, 2-way radios and other valuables. Items can be returned to any open locker for convenience, and systems can be set up

as a personal storage space for one or multiple users. These asset management systems can also be configured with additional security features to help maintain the integrity of the system. For example, where protection of asset lockers itself is mission-critical, installation of a remote access device provides an additional layer of protection by enabling the locker system to be placed in a secure room. A second individual's PIN input and verification is then required in order for an authorized employee to access the contents of a locker.

Multiple cabinets and/or lockers can form a single fully integrated system to hold hundreds of keys and other items in multiple locations, all controlled from a single PC interface. Systems can be custom designed to meet users' specific needs including mechanical key storage modules, key card-style modules and lockers of various sizes or simply blank modules to be filled at a later time. The scalable systems can also be tailored to suit a variety of access control needs with features including a built-in keypad, biometrics such as fingerprint readers, and a magnetic or proximity card reader.

To guard against tampering or vandalism, key control systems can offer a number of built-in safety features. Tamper-proof mechanisms trigger an alarm under a range of conditions including the use of force to gain access or remove a key, three consecutive invalid user codes or a door left open for more than 10 seconds after



Fernando Pires

use. Systems can also trigger the alarm if there is a power failure, a key is missing or not returned on time or a key is returned by the wrong user. Each key storage system is powered by AC electricity and supported by a 48-hour backup power supply. With their ease of use and long list of security benefits, key control systems will undoubtedly continue their run as an important component of the security management arsenal.  
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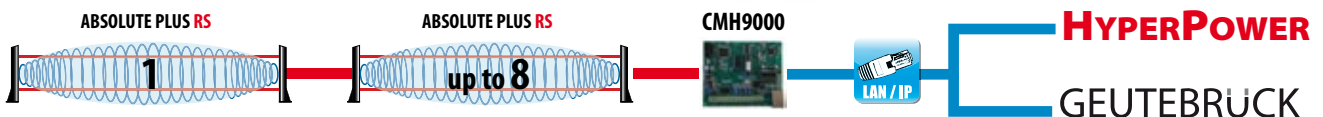
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## SPECIAL FOCUS: ACCESS CONTROL

# Finger on the Pulse

## CEM Systems Secures Budapest Airport

CEM Systems has been securing staff, travelers and property at Budapest Airport since 1995. The AC2000 access control and security management solution was installed by their approved local reseller, Bull Hungary and gives the airport operators an advanced access control and building management solution.



The installation at Budapest Airport currently utilizes the CEM S610 reader range to manage some 10,000 card holders. These readers feature a database for off-line card validation, a keypad (for PIN validation), an LCD which displays meaningful, language-specific messages to the user, and support for multiple card technologies. The display has been made available in Hungarian to improve ease of use for local staff. The S610f fingerprint reader provides fully integrated biometric security for 3 stage authentication (card, PIN and biometric) and does not store an actual image of the fingerprint anywhere in the system. Instead a unique ID number is derived from the fingerprint scan.

The CEM AC2000 system also provides Budapest Airport with a range of additional software modules, enhancing operations and efficiency on site. These include VIPPS (Visual Imaging and

Pass Production System), alarm event display and a time and attendance module. VIPPS provides users with the in-house ability to capture personnel images, company logos and personnel signatures and incorporate these onto professionally designed passes.

### Continuous Improvement

In 2009, Budapest Airport began work on the 40,000 m<sup>2</sup> Sky Court building that links the two existing terminals as well as the renovation of 55,000 m<sup>2</sup> of existing facilities at the airport. As part of the work, the access control system was extended, with over 200 additional S610e and S610f fingerprint readers installed throughout.

Upgrades and improvements to the airport system included the migration from Proximity to highly secure Picopass Smartcard technology that gives Budapest Airport the option to use

their access control cards for other things, such as cashless vending. The upgrade also included customized modifications to the airport's visitors application system. "Of the many operational security systems installed at the airport, the AC2000 system has proven to be the most reliable we have" said Gábor Tóth, Security Technology Officer of Budapest Airport.

CEM will be exhibiting at the forthcoming Security trade fair in Essen. Their stand is number 504 in Hall 1.0 where there will be demonstrations of various different tailored security solutions.

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TRADE SHOW

## Italian F(l)air

The Biennial Sicurezza Trade Fair Takes Place in Milan Again

A trip to Milan in November will certainly not be to enjoy the warmth and sunshine. But the possibly uninviting weather outside the halls of the Fiera will be compensated for by the warm reception inside from over 350 exhibitors stand personnel and the opportunity to network with other players in the market. GIT Security interviewed Marco Seriola, Exhibitions Division Director at the Fiera Milano, to find out more about this important biennial coming together of the safety and security industries.

**GIT SECURITY:** Mr Seriola, from the 7<sup>th</sup>-9<sup>th</sup> November Sicurezza 2012 is back at Fiera Milano. Could you tell us something about what will be going on?

**Marco Seriola:** Every two years for thirty years Sicurezza has been the focal point for the Italian and foreign markets for intruder prevention, fire detection, passive defense, home and building automation, ICT security, intelligence and anti-terrorism, products and services for the police and private security guards. The next event will take place in Milan again and has been designed bearing in mind our four main goals: first, to favor innovation via a vast array of products

and solutions; second, to promote integration, that is to say dialog and comparison between aligned technologies and sectors; third, to provide professional training and fourth, to spread the word regards "security culture" and to encourage industry growth.

**You mentioned integration. What exactly do you mean and why is it so important?**

**Marco Seriola:** The convergence and integration of any number of distinct technologies, such as security, building automation and ICT, is undoubtedly one of the key drivers for future development in Sicurezza. It's an inevitable evolution which will result in a tangible reduction in costs and increased performance. As an example: the increasing integration of systems adopting IP protocol and security systems. It's an important step for Sicurezza market players, a change which must be prepared for in advance, and that is why we have made training and information updates available to everyone.

**Sicurezza 2012 will take place during a delicate moment for the market and the European economy in general. How do you intend to approach this edition?**

**Marco Seriola:** Regardless of the current economic situation, this industry is posting some good performances. In Italy it has been one of the few industries to close 2011 with an upward trend in growth, and is today undergoing unprecedented change which will result in the spread of the technologies across all compo-

### Where and When

The event takes place at the Fiera Milano in Halls 1/3. It is open from 9.30 am to 6 pm for trade members only. Full price tickets purchased on the day cost €15.00 but a significant saving can be made by preregistering online at [www.sicurezza.it/en](http://www.sicurezza.it/en) where tickets valid for a single day can be ordered for the reduced price of €8.00. Access to the halls is via the East and the South entrances. To stay up-to-date on preparations for the show, the Sicurezza 2012 profile on LinkedIn will be updated daily with trade fair news. A newsletter can also be obtained at [www.sicurezza.it/en/newsletter-subscription](http://www.sicurezza.it/en/newsletter-subscription).

nents of the security industry, from anti-break in, to access monitoring, video-surveillance and fire-prevention systems. It's a challenge which Sicurezza has accepted, designing an event that is a snap-shot of an industry which is changing and which offers its public opportunities in both training and professional industry updates that cannot be missed.

**What opportunities are there for foreign visitors?**

**Marco Seriola:** The latest available data confirms that Sicurezza's market provides value growth in exports of security industry technologies and building automation (up 27.3% in 2011). With this in mind, the trade fair in Milan represents an important date for international trade members who want to meet Italian companies with a view to finding new business partners. Among the various appointments, I would like to highlight the match-making event, allowing foreign buyers and distributors to meet the exhibitors. The meetings, one-on-one, will last just one hour and will have a pre-determined agenda. This is another great opportunity to discover the Italian market and its products.

**Mr Seriola, thank you for this interview.**

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## CCTV

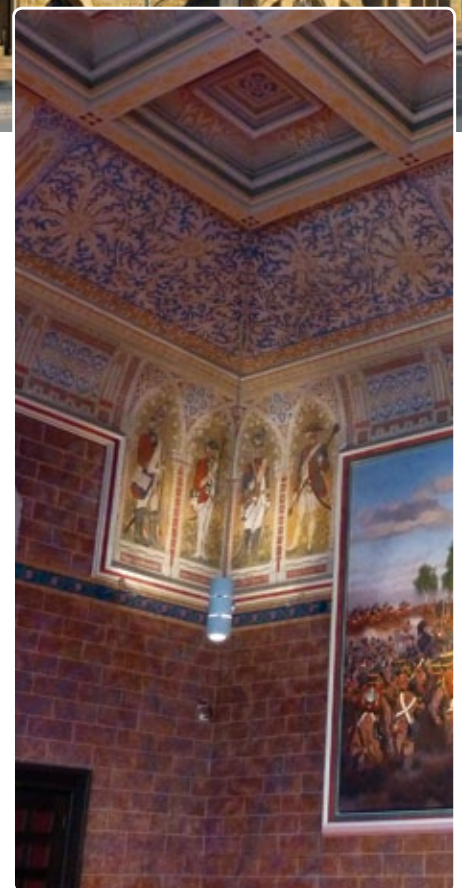
## New for Old

### The Bomann Museum Protects Exhibits and Lowers Costs with Avigilon HD Surveillance System

The Bomann Museum in Celle, Germany is one of the region's most beautiful and culturally important museums. With an exhibition area of over 59,000 square feet across several buildings, the museum is the third largest in Lower Saxony and showcases the region's folklore and history. With the goal to provide a safe, educational, and enjoyable museum experience, the Bomann Museum replaced its dated analog-based surveillance system with an Avigilon HD surveillance system to improve on-site security, protect exhibits from theft and vandalism, and reduce overall security costs.

#### Technology Protects History

To showcase the region's cultural history, the Bomann Museum delivers an interactive experience that includes a complete replica of a sixteenth century farmhouse, rooms from old cottages, and period costumes, along with the largest German collection of miniature portraits and the world's first 24-hour modern art museum. With some sections currently under renovation, the museum is constantly striving to create an impressive and memorable visitor experience. As part of its remodeling initiative, the museum chose to replace its analog-based surveillance system, which had reached its performance threshold and could no longer scale to meet future needs. "We needed a more effective and reliable way to protect our most valuable exhibition pieces," explained the facility manager Frank-Ulrich Strauss, and added that the old analog system consisted of 40 black and white cameras that were difficult to use and delivered poor image quality. "With the old system, incidents were not always properly and



scalable," explained Strauss. After a successful week-long demonstration of the Avigilon HD surveillance system organized by Balter Security, a local system design, installation, and service provider, the museum decided to move forward with that solution. "We looked at various options but chose this one because of its ease-of-use, reliability, scalability, and advanced performance and management features."



Staff at the Bomann Museum seamlessly manage the new surveillance system using the company's network video management software (NVMS) with HD stream management. The museum installed Avigilon HD 1 MP and 2 MP cameras to monitor activity at its main entrances and installed several Avigilon analog video encoders to create a hybrid surveillance system that dramatically and cost-effectively improves the performance of its existing analog cameras. Storing up to 90 days of continuous surveillance video, this surveillance system is monitored live during opening hours by museum staff located in the main entrance and the second-floor entrance.

### Peace of Mind

"The many features of the Avigilon software, including its advanced zooming and search capabilities, allow us to capture a much better recorded image with improved detail, and at the same time ensure greater overall coverage across all our buildings," stated Strauss. "Our security team is much more relaxed because we know that we have a state-of-the-art system in place that is reliable, easy to use, and highly effective. The peace of mind we now share is unprecedented. We've been able to speed up our investigations by 70 percent, saving time and leading to quicker and more successful incident resolution."

One convincing reason for choosing the Avigilon solution was its ease-of-use and intuitive graphical user interface, which has made training staff quick and uncomplicated. "It took us no time to get up and running on this system," noted Strauss. The ease-of-use and superior image quality have also meant that users spend less time managing the system, freeing their time for other important operational tasks. "And by developing a precise and comprehensive deployment plan, Balter Security and SiTech Celle, a local system integrator, helped us install and configure the system on time and on budget, with no surprises."

### TCO Down

According to Strauss, another key selling feature of the Avigilon HD surveillance system is the fact that

it easily integrates with the museum's existing analog-based cameras, thereby leveraging its current infrastructure investment. "This solution allows us to leverage our fixed assets while improving overall system performance and provides the flexibility to transition to HD as time and budget permits," said Strauss. He added that the museum has achieved further cost savings because this system requires far less maintenance than its previous system. "Maintenance requirements have been reduced

to almost nothing since deploying the system."

The Bomann Museum continues to invest in the latest technologies to help create a contemporary backdrop on which to showcase the region's rich history. Driven to provide a safe and educational museum experience, the museum plans to expand the Avigilon HD Surveillance System across all exhibition areas to further enhance on-site safety and protect valuable artifacts. "The solution delivers top notch yet affordable image

quality," concluded Strauss. "And by partnering with local surveillance system experts who speak our language and understand our needs, Avigilon has demonstrated its commitment to the German market, a key consideration for us."

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## VIDEO ANALYTICS

# Face Recognition in a Crowd

## Video Analytics for Crowded and Complex Scenes

In November 2011 iOmniscient, pioneers of intelligent video analytics, celebrated their tenth year of trading. The company based in Sydney, Australia, specializes in providing video analytics for crowded and complex scenes and offers a range of comprehensive solutions for over 30 industries. Its latest product is "Face Recognition in a Crowd".

This particularly advanced system can recognize people at a distance in an uncontrolled environment. Requiring a resolution of only 22 pixels between the eyes, it can outperform humans and all other current face recognition systems which require much higher resolutions and can only operate in controlled environments. iOmniscient's "Face Recognition in a Crowd" has immense practical value in a number of situations described below.

### Black Lists

Firstly you can identify people from a "black list". They may be known criminals or terrorists who are attempting to enter a country incognito. Other examples would be the provision to shopping mall security of a black list of hundreds of known shoplifters, or to casino security of a list of crooks.

With the new Face Recognition system, a security officer can check out suspects encountered in his or her daily work through their smart phone. One of the major issues in policing, which organised criminals can and do exploit, is the lack of communication between different forces. A face recognition system like this could provide a genuine, instantly accessible national criminal database to overcome the problem.

A huge database would require high computing power, however, with iOmniscient's Face Recognition a database of 250,000 faces can be handled on a simple server.

### Using Dynamic Databases

Secondly, "Face Recognition in a Crowd" can also be applied with a dynamic database. An example would be passengers walking down the airbridge whose faces are detected. Then, if they turn up at immigration claiming refugee status and refuse to say where they have come from,

the system can check on the database of passengers disembarking from different aircraft, to ascertain the flight on which each individual has arrived.

### White Lists

Thirdly, the system can improve customer service. It can produce a "white list" of VIPs or most loyal customers whose faces are in the database. Then they can be immediately recognized in say a hotel reception or casino and afforded privileged, red carpet treatment.

### Driver Matching

A fourth application is driver matching. Instances might include a truck driver for a valuable cargo, or an authorised driver for a luxury motor car on hotel or club premises.

### "Big Data" Using Face Recognition

A fifth, most beneficial method of deploying Face Recognition is for managing large amounts of unstructured information, which is now increasingly known as "Big Data". One example of Face Recognition used in this way is where a face is recognized at the start of a queue. When the same face is seen at the end of the queue, the system can provide management with information on the average time it takes for people to pass through that queue. Such a system can help manage complex queues with multiple entry and exit points.

### Degree of Accuracy

In an uncontrolled environment, handling variable face angles, the "Face Recognition in a Crowd" system will typically be 70% accurate, because three out of ten faces may be covered up or directed away from the camera. So the clever bit consists of getting people to look up

at a concealed camera – positioned for example at the top of an escalator, or next to a sign on a concourse such as "Arrivals – Turn Left" to catch their faces. In those scenarios the success rate of facial recognition can be higher.

### What of the Future?

Application areas for "Face Recognition in a Crowd" will be seen to extend beyond the more obvious current areas such as airports and ports, banking and retail, border and city surveillance, crowd management, hospitals, hotels, manufacturing, police and prisons, transportation and utilities.

Secondly, more and more developed and developing nations alike will want to take on this new technology to address their security concerns. Thirdly, computer memory and power will increase, facilitating larger databases which will handle millions of faces.

Finally, in a future release, people's faces may be distinguished according to age, gender, skin colour and ethnic type, potentially fulfilling a host of intelligence gathering operations. In addition to national security and law and order, applications for that may include market research, retail footfall, passenger counting, employment, and health and safety. Privacy laws differ from country to country and therefore, the iOmniscient Face Recognition in a Crowd system can be adapted to suit the laws of the country.

Oliver Haines

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VIDEO SURVEILLANCE

# Faster than a Bullet

## Enhanced Bullet Cameras Join Grundig's HD IP Range

The company's existing IP range already includes various fixed dome, vandal dome, fully functional dome and box cameras. Meeting the growing demand for digital technology, their new IP bullet cameras have now joined the rapidly expanding HD IP range, and taking a leaf out of broadcast technology's book, they employ progressive scanning to enhance the image quality.



entire video image at up to 30fps, unlike the more commonly used interlace technology which updates alternate lines. The video image quality is much higher as a result. The bullet cameras video format is 16:9. Uniquely, the format can be rotated through 90° to provide either portrait or landscape views. The portrait setting is particularly relevant for narrow fields of view like corridors, stairs and passageways, where height within the image is more important than width.

The new cameras all include built-in network failure detection functionality, sending email alerts to operators if network problems occur. Back-up recording on Micro SD cards within the cameras ensures that no images are lost. A number of models include a 3 to 9 mm motorized, vari-focal lens offering remote zoom and focus adjustments, saving set up time and optimizing image quality. It has been still further enhanced with WDR and 3D digital noise reduction (DNR). Smart Picture Quality (SPQ) enhances low light performance in the HD sensor to reduce motion blur.

True day/night functionality comes as standard, with an IR LED option for very low or no light applications and Smart IR control automatically varies LED strength to suit the ambient lighting conditions. Each model has 5 programmable privacy zones.

Some of the key features of the bullet cameras are that they can provide simultaneous dual, triple and quad video streams at up to 2MP, Full HD 1080p resolution, progressive scan image processing using a CMOS sensor, portrait and landscape 16:9 formats and intelligent incident alerts.

Multiple video stream technology allows each new IP bullet camera to process up to four independent video streams simultaneously, at up to 30fps. This feature is designed for efficient video transmission and storage, saving network bandwidth. A Full HD 2MP (1920x1080 pixels) stream can be used for recording, an identical D1 (720x576 pixels) video stream can be viewed on a monitor and a CIF (360 x 288 pixels) video stream can be viewed on a smartphone, all at the same time. Video stream combinations include 1080p at 30fps and D1 at 30fps (dual), twin 1080p streams at 15fps (dual), 1080p 25fps and D1 25fps and CIF 25fps (triple) as well as lower resolution combinations of quad video streams.

These IP bullet cameras benefit from progressive scan technology. This system updates the

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## A Safe Bet for Installers

IQinVision's 5-year warranty program removes risk for integrators and installers, and gives end users "buyer confidence" instead of "buyer's remorse." It's an all-too-common theme; manufacturers offer limited-time warranties leaving the maintenance and replacement costs of poor-quality surveillance cameras up to the integrator. Why go through the headache? IQinVision offers amazing everyday pricing and the industry's longest, all-inclusive warranty.

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## SECURITY FOR BANKING

# A New Level of Safety

Brazilian Bank Modernizes Its CCTV System with the Use of IP Technology

Banco do Nordeste do Brasil (BNB) is the largest regional development bank in Latin America. Its Administrative Center, in Fortaleza had an analog CCTV system. This was causing a loss of quality of the monitored images, which raised concern for the Executive Manager of the Bank Security Division of the Corporate Security Environment, José Boileau Esmeraldo Júnior.

### The Choice of IP Technology

The initial stage of the surveillance project included only the peripheral cameras, particularly the gates and parking areas, with a total of 46 cameras. At present, the Administrative Center still has analog cameras, which will gradually be migrated over to IP technology, maintaining the same quality standard as in the first phase.

Modernizing its surveillance system was important for giving the bank better control over the main points of access to its headquarter's premises, giving high definition images that enable it to analyze the large flow of traffic and areas where materials are stored and transported, as well as the perimeter of the administrative center. "The IP cameras are used for monitoring and dealing with any type of occurrence in a timely way, as well as for monitoring events, and checking and investigating incidents," said José Boileau.

With a clear demand for high quality images, the decision to use Axis solutions was natural, as Dráurio Pinho, Sales Director of Imagem Segurança explains: "Axis was chosen because it is the manufacturer that has the widest range of high technology products, and prices compatible with the quality of the equipment, with models that can be adapted to various applications."

### Looking to the Long-term Future

In the planning phase, it was observed that the implementation of a new surveillance system

based on IP technology was viable, because it uses the network infrastructure with Gigabit Optical ring, and computational resources, like the network server and storage equipment, that were already available internally. "This significantly lowers the cost of implementing the system, besides significantly increasing the level of availability, reliability and quality of the images," said José Boileau.

Through a public tender process, BNB purchased Axis network cameras, and had them installed by integrator Imagem Segurança. The distributor Anixter organized the delivery of 25 AXIS P1344 Network Cameras with vandal-resistant housing, as well as 16 AXIS P5534-E Network Cameras, two AXIS T8311 joysticks and one AXIS Q7401 Video Encoder, complementing the offer of 5 cameras installed previously: four AXIS M1011 and one AXIS 207. In the acquisition phase, there are also 10 AXIS M1054 Network Cameras included. All this equipment is integrated with the Digifort Enterprise software.

The new cameras use HDTV resolution, which provides a high-quality image, particularly when zooming in on distant targets. In terms of storage space, the H.264 compression standard has led to significant savings in space, without losing image quality, and also enables individual configuration of video streams for different scenarios, such as higher speed and resolution for visualization, and lower for recording, to save storage space.





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With the use of the PoE (Power Over Ethernet) resource, the labor and materials for installation of the cameras have been significantly decreased, since the data and energy use the same cable. Seeking to increase the level of availability of the images, the cameras also have a memory card for recording images locally, if the network is not functioning, and portable no-breaks for autonomous functioning, in the event of equipment failure. For the external surveillance, the housings have IP66 protection, which makes them impervious to dust and rain.

### Results

The initial results were considered by José Boileau to be satisfactory, "particularly due to the gains in image quality and the ease of installation, besides enabling basic support to be carried out by internal network maintenance team." In the Executive Manager's view, "the solution acquired by the Bank is in keeping with the latest market trends, which guarantees a prolonged useful life of the system, lower maintenance contracts, and flexibility of updating."

After the implementation of the project, all these resources have proven useful for serving the needs of Banco do Nordeste, confirming the hopes placed in the system before the implementation. "The main requirements for a good electronic security system", explained Jose Boileau, "are scalability and interoperability; the resources should be able to keep up with the growth of the client's needs, as well as enabling integration with other systems, such as control of physical access, perimeter alarm, building automation, and fire detection. And because these are major projects, they need to have a lengthy life-span."

**Security, Hall 2, Stand 217**

### ▶ CONTACT

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◀ Network camera:  
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## VIDEO TECHNOLOGY

# A Piece of History

Canon IP Video Surveillance Solution Watches over Ancient Rome

As one of the most impressive surviving buildings of the Roman Empire, the Colosseum is also one of the most visited archaeological sites in the world. While the vast majority of tourists, who flock to the site every year, are happy to simply experience one of the wonders of ancient Rome, a few either want to take a piece home with them or to leave their own mark on the monument.

A high level of security is vital to ensure the preservation of the amphitheater, and is therefore a key issue for the Soprintendenza Archeologica of Rome, the local government department responsible for architectural conservation. Until a few years ago, the Colosseum relied on an analog security system comprising a multitude of fixed cameras providing low resolution images, which limited the ability of the security staff to accurately monitor the amphitheater. The quality of the videos was poor and it was often difficult to identify and reconstruct recorded events. Soprintendenza Archeologica of Rome therefore embarked on a challenging project to replace the Colosseum's analog surveillance infrastructure with an expanded and upgraded CCTV system, integrated into an IP transmission network.

While investigating potential new systems, Piero Meogrossi, Technical Director responsible for the Colosseum at Soprintendenza Archeologica of Rome, was impressed by Canon's network video solutions, which offered all the increased security features required, and contacted local systems integrator SN Tecnica who

have vast experience in CCTV installations. "We developed a bespoke solution to meet the specific needs of the Colosseum. Compared to the previous infrastructure of fixed, analog cameras, the Canon VB network cameras allow improved coverage with fewer devices. The cameras' compact bodies make them unobtrusive and their PTZ (Pan/Tilt/Zoom) functionality has significantly extended the Colosseum's surveillance capability" said Sergio Nitti, General Manager at SN Tecnica.

### Minimum Intervention

The integrator undertook a thorough analysis of the Colosseum's needs and recommended a tailored solution to enhance the security of the site. Nitti commented: "Security was not only limited by the presence of outdated and underperforming analog cameras but also by the difficulty of placing cabling in the amphitheater. The Soprintendenza Archeologica of Rome is extremely cautious about allowing any intervention in the Colosseum and there are strict limitations to work in the area in order to preserve it. It was clear that the fewer cameras we installed,



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## Julian Rutland, Director of Visual Communications Products and Solutions, Canon Europe:

Julian Rutland was appointed Director of Visual Communications Products and Solutions in March 2010, and is responsible for developing Canon's projector and network camera businesses across Europe, Middle East and Africa. His role encompasses channel expansion and development, as well as the implementation of supporting business-to-business marketing programmes.

Julian has worked at Canon for almost 20 years, originally joining the company in 1990. Prior to taking up his current position, he occupied a number of different positions both locally and at central European levels – working as a European Product Sales Manager at Canon Europa in Amsterdam, as well as in technical support, product management and product planning roles.



the lower the risk would be of potential damage to the monument."

The Canon video surveillance solution proposed consisted of several pan tilt zoom network cameras with a 26x optical zoom, which were connected to the existing CCTV equipment. Meogrossi explains: "For us, it was crucial to find a solution that could be easily integrated into our existing CCTV system. Canon's solution was the perfect fit. Not only was the image quality and performance of Canon's network cameras outstanding, but we were even more impressed by their seamless integration into our current IP network." SN Tecnica created unobtrusive thermal housings to protect both the cameras and the other electrical equipment from unfavorable weather conditions. The systems integrator also implemented an encrypted Wi-Fi bridge connection to enable remote data transmission through the two security observatories in the Colosseum.

The local control room was linked remotely to the main control room, which SN Tecnica equipped with a high capacity storage server running a customized version of Canon's software translated into Italian. This was an important requirement for the Colosseum, which was eager to adopt an Italian language platform to set up a simple and easy-to-understand working environment for the Italian security team. Nitti explains: "We developed a bespoke solution to meet the specific needs of the Colosseum. Compared to the previous infrastructure of fixed, analog cameras, the VB network cameras allow improved coverage with fewer devices. The cameras' compact bodies make them unobtrusive and their PTZ (Pan/Tilt/Zoom) functionality has significantly extended the Colosseum's surveillance capability." The PTZ feature make it very easy to adjust the viewing angle, and expanding coverage to a full 360° horizontal field of view. Images remain clear and blur-free during PTZ movement.

## Moving Target

Furthermore, when some motion is detected, the camera can be set to 'pan and tilt' to follow the subject's movement. Nitti emphasizes the exceptional low-light performance guaranteed by the new video surveillance solution: "Canon's bright lenses, combined with high sensitivity image sensors and their Digicnet network engine, provide clear visibility of subjects and surroundings even in low-light conditions. This has turned into a significant asset for the Colosseum's security team, which can easily detect any suspicious movement in every part of the site."

A multimedia platform called 'Colosseumweb' has also been set up to promote the cultural and artistic value of the amphitheater. In the next few years, this project could benefit from these new cameras installed at the Colosseum. Meogrossi explains: "Since 2003, we have been discussing the need to extend the renovation process of the Colosseum by pursuing additional technical and structural improvements together with tourism initiatives. By using the additional cameras accessible through the Colosseumweb platform, it would then be possible to have immediate access to a virtual tour of the building, remotely exploring the area as if it was a live visit." It is clear from what he says that the benefits of the new surveillance solution are much greater than originally expected. Meogrossi is able to rest assured that the architectural jewel in the crown of ancient Rome is being constantly watched by the most up-to-date digital surveillance system.

**Security, Hall 2, Stand 540**

## ▶ CONTACT

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## AIRPORT SECURITY

# Safe Airports of the Future

Safety and Security are Today's Priorities

In spite of the global economic downturn, air passenger numbers and air freight traffic both continue to increase, and evidence points to the trend continuing or even accelerating. However, air travel is no longer simply a means of transporting goods and people from place to place around the world. Continued growth brings with it increased threats and so safety and security have become even more important and now demand an integrated solution approach.

The "Future of Airports 2030" is a study based on analysis of current statistics and trends together with the results of extensive interviews with over one hundred airport industry experts. The study revealed that airport system integration is, and will continue to be, at the heart of all future airport projects. This integration involves all aspects of airport operations including, amongst others, site-wide perimeter protection, efficient passenger-processing, luggage and cargo screening and handling, general operation and management.

## Growing Number of Solutions

With vast numbers of people passing through the busy terminal buildings everyday, airports have long been targets for terrorist attack. In addition to this, the sheer number of people on today's large aircraft and the potential to use a hi-jacked plane as a flying missile, offer terrorists a means to attract huge media attention. Security within airports therefore remains a top priority and will continue to do so for the foreseeable future.

The ever present threat to air travel security and the many national and international regulations subsequently brought in to deal with it, has led to a dramatic increase in the number of security solutions deployed. Analysis carried out in 2011 by Frost & Sullivan puts the world's total expenditure at 19.1 billion USD for the year, as airport operators continue to update security procedures and systems to keep pace with technology and stricter legislation.

## Scanning for Safety

Typically passengers at all airports are today screened by metal detectors when passing into 'secure' areas before boarding the plane. Both carry-on and checked luggage is scanned by high-resolution x-ray machines to verify the contents and explosive trace detection machines (ETD) are used to check for explosives using gas chromatography.

A more recent development is the use of body-scanners or whole body imagers. On Christmas Day, 2009, a passenger onboard

Northwest flight 253 from Amsterdam to Detroit attempted to destroy the aircraft using plastic explosive concealed in his underwear. The device had been made with the express intention of avoiding detection by traditional scanning equipment. It had not been detected at any point throughout the passenger security control procedures. A major catastrophe was averted only as the explosives failed to detonate. As a result of this and other such incidents, the latest advanced imaging technology scanners continue to be deployed at a rapid rate. The TSA (Transport Security Association) in the USA reports that more than 670 imaging technology units are installed at 170 airports nationwide. Globally the installation of the new technology continues at a similar pace. The advanced imaging technology facilitates the screening of passengers for everything from weapons to explosives without any physical contact. If a threat is detected, the location of potential threat items are shown on an outline of a person on a monitor attached to the machines.

The scanners fall into two types: millimetre wave and backscatter. The first directs radio waves and measures the reflected energy to form a three-dimensional image. The second is a low-level x-ray machine using Compton scattering of ionizing radiation to create a two-dimensional image. Both can detect concealed, non-metallic weapons and explosives on the body but do not detect items hidden within body cavities.





Steve Batt, Market Manager Airports, Siemens Building Technologies

### Strategic Solutions

Of course, terrorism is not the only factor currently concerning airport security, and as a result the Siemens portfolio of cutting-edge security solutions is based on a dynamic airport-focused modular platform. It is continually evolving to adapt to location-specific concerns as well as international trends. For large and complex sites such as airports, the implementation of comprehensive security therefore involves a focused, layered strategy usually comprising intrusion

detection, wide-area video surveillance, access control and management through an integrated command and control platform for the day-to-day running of the site as well as the coordinated and timely response to any incident.

The intelligent identification and tackling of suspicious and unusual behavior is especially vital within the airport environment. It offers security personnel the ability to prevent potential threats before any incident takes place and follow an audited pre-defined plan of action. Access control, often integrated with video surveillance technology, is equally essential, not only to manage vehicular and pedestrian access to the airport apron and other critical areas but also to all restricted zones within the terminal and other buildings. Advanced technology, adopting a variety of software analytics based options, can be employed in the latest video surveillance solutions providing constant automated monitoring of all system cameras. This can help to overcome the age-old problem of rapid operator fatigue when studying monitor screens. By using software to automate the detection process rather than simply relying on the operator, it is possible both to enhance detection and make better and more efficient use of the trained security personnel to deal with any incidents.

Airport perimeters, which can extend to over 50 km in length, require special consideration. To restrict and detect unauthorized access, physical measures, together with external motion detection systems, long-range conventional and thermal surveillance and ground radar tracking can be deployed and effectively managed through Siemens's Siveillance Site IQ Wide Area surveillance solution. Extended detection and warning of all activity in runway and aircraft taxi areas has recently become a major focus in the airport world. Siemens has created bespoke airport specific packages with customizable policy zones to tackle such incidents.

Biometric technology features significantly in the Future of Airports program and is showcased in the advanced Siemens palm-vein identification and verification readers. Utilizing possibly the most effective form of biometric identification available, the readers scan contactlessly the unique blood vein patterns within a person's hand, verifying the blood flow at the same time to ensure the life-status of the individual. Siemens has already successfully piloted installations of the readers within a major European international airport.

The demand for the strictly-controlled, efficient and automated transfer of passengers within airports is also changing rapidly, typically illustrated by projects such as that in central Europe for the transfer of passengers from Schengen to non-Schengen areas in a controlled and compliant way. This has resulted in unique measures being installed by Siemens within existing terminal and concourse elevator infrastructure, facilitating the transit between only predefined and pre-approved areas. The comprehensive scanning of the elevator cabins both before and after the departure of travelers ensures that no unauthorized items or personnel can pass from one area to another. The airport is also able to scale back and deploy its human resources more efficiently in other areas of the airport's operation.

### Fire Safety within Airports

It is obviously important that airports are also thoroughly protected against fires. Airports offer a fire risk because of the presence of both potential ignition sources in the electrical systems and cabling, along with the flammable materials found within the airport buildings. The earliest and most reliable detection of smoke and the activation of the appropriate extinguishing processes are important factors in any protection system. Intelligent algorithms in today's leading detection systems recognize the poten-

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tial for fire at the earliest possible point. They calculate if there are unusual levels of smoke particles present, well before the flame stage is reached, quickly and reliably triggering fire safety systems. At the same time, false alarms can be prevented, an important factor when the consequences and disruption involved in any evacuation of an airport are considered.

By contrast, aspirating smoke detectors continually sample air at various locations throughout the terminal building and other large in-

ternal spaces. Depending on the concentration, a pre-alarm or alarm is triggered when smoke particles are detected. When set at the appropriate sensitivity-level, they will detect the earliest stages of smoke generation and, following verification of an alarm, will initiate the relevant extinguishing system. Leading fire safety systems can be fully integrated with other security disciplines such as video surveillance, access control and intrusion detection systems, as well as building automation systems.

Gas detectors will also trigger an alarm with the discovery of dangerous carbon monoxide concentration caused by exhausts in airport car parks for example, defective heating devices or chemical and production processes. The threshold levels for alarm are precisely configurable and can be adjusted to environmental conditions. Using new architecture based on IP (Internet protocol) technology, it is also possible to connect fire alarm control units already networked in clusters via a fiber glass backbone.



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Standard IT technology is used and the existing network infrastructure can also be used.

### Safe Evacuation: Adopting an Intelligent Response

In the event of an airport emergency, rapid and orderly evacuation of a crowded terminal building will save many lives. However, investigations have shown that many people no longer react to conventional alarms, believing them to be simply tests or false alarms. Even if they do react, it is sometimes not in an appropriate way, with confusion often a problem, particularly when just tone-based alarms are employed. This is leading to a more intelligent response-based approach to incidents. State-of-the-art evacuation systems can combine functions such as voice alarms, public notification, video surveillance and emergency lighting, as well as supporting systems such as smoke extraction or lift and door controllers. "Intelligent Response" systems from Siemens already process information from such sources, as well as many others, including data from building management systems. These systems support the evacuation and the auxiliary personnel in their activities by increasing the amount of information and the availability of that information in real time to those who are tasked with dealing with an incident. In this way the speed and effectiveness of the response can be significantly improved.

Technical progress will further stimulate advances in safety and security solutions. One example is 3D modeling, which could make future emergency response and evacuation planning even more efficient and dynamic by ensuring that information from all parts of the airport are effectively integrated.

### Future-proofing Airport Systems

Behind airport procedures is complex architecture characterized by interdependencies between the many different parts of the passenger process flow such as check-in, security, retail areas and landside, as well as airside operations. There are also multiple stakeholders involved: management; aviation, local and national authorities; airlines and travel companies; supporting

services and commercial or retail organizations. All rely heavily on the fast and efficient turnaround of hundreds of flights and the throughput of thousands of passengers.

The implementation of security systems within this highly synchronized processing is critical as delays and shutdowns inevitably result in lost revenue for airlines, operators and most supporting suppliers. Therefore, it is important today, just as it will be in the future, that airports employ integrated security solutions. Making security more effective but also more efficient, is crucial in terms of passenger confidence, enhancing the passenger experience and in seeking to minimize potential financial losses.

By adopting an integrated approach, airports will help increase the efficiency and operating reliability of the site, reduce operational risks and costs and optimize all processes. For long-term operability of complex systems – such as baggage handling, passenger control, safety and security – the best way to ensure the future viability of electronic processes is with systems that are flexible and scalable. This flexibility should accommodate expansion and prevent system redundancy, with the capacity to add more devices and interoperate with other disciplines, as well as integrate with emerging technologies. Airport systems need to be capable of accommodating future growth without the need to replace entire systems, with a planned migration.

The Siemens Future of Airports 2030 project has highlighted the challenges facing the airport sector in its quest to ensure an efficient, effective, safe and secure program to keep pace with tomorrow's demands. Siemens continues to further develop its airport solutions far ahead of the fundamental requirements, ensuring that it is able to deliver and exceed, globally, the aspirations and ambitions of airport operators and associated stakeholders around the world and ensure their continued success.

### ▶ CONTACT

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## In Focus: Vivotek FD8136-F8

According to Vivotek, the FD8136 is the world's smallest network fixed dome camera. The camera features a mega-pixel sensor enabling viewing resolution of 1280x800 at 30 fps, and also supports H.264 compression technology. With MPEG-4 and MJPEG compatibility also included, video streams can also be transmitted in any of these formats for versatile applications. Designed with selectable focal lengths, the FD8136 was originally designed for the retail vertical market with the wide angle feature as one of the top priorities. At the size of only 90 mm in diameter, the camera is an all-in-one surveillance solution that meets a wide variety of needs for indoor surveillance.

## CAMERA TEST



### Performance

#### Performance assessment when used with 1,000 Lux

With good illumination, the camera provides an image with extremely strong colours. A slight reddish cast is detectable. The overall image contrast is still good, however the display is somewhat too dark overall (white tones appear somewhat dull, dark surfaces are to some extent no longer differentiated). Image details are reproduced sharply, no smearing effects are observed on moving objects. Image noise is hardly perceivable.

#### Performance assessment when used with less than 1,000 Lux

With reducing illumination, the camera delivers a clean image down to approx. 5 Lux, the length of time required for compensation for fluctuations of illuminations is still within range. As the camera is not equipped with a hardware or software night mode, there is severe image noise, particularly in the low illumination range at 0.5 Lux, accompanied by a definite reduction in image sharpness. Moving objects are still depicted without significant smearing effects.

#### Performance assessment in backlight situations

The camera delivers a stable colored image after approx. 2.5 seconds. Brief compensation processes are still occasionally noticeable. The backlight source blooms considerably. Background details outside of its field of illumination are difficult to recognize.

#### Performance assessment in use: Bandwidth measurement

The camera delivers a fixed data rate in the standard setting. In the test, the average was about 4.36 MBit/s. Deviations upwards and downwards were detected, however, only the compensation process for the backlight situation was accompanied by a peak of 6.23 MBit/s. In the test, the average image rate was 26 images/second.

#### Conclusion

The fixed dome camera with a resolution of 1280 x 800 pixels at up to 30 images per second impresses with its extremely compact design. Power over Ethernet functionality, a fast setup and installation time and a Micro SD/SDHC card slot that can be used for local storage are additional features that make the camera interesting for indoor applications e.g. in the retail business, with different fixed focal lengths to choose from.

#### Technical data for the camera test

Manufacturer	Vivotek
Model	FD8136-F8
Firmware version	0100b
Distance to test chart	1,00 m
Lens used	f:8mm MP
*Focal length set	8 mm
*Compression method	H.264
*Max. Resolution	1280x800
*Compression	-
I-Frame-interval	1 second
Max. stream bandwidth	4096 Kbit/s
Measured frame rate	26 fps
Average bandwidth	4,32 Mbit/s

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

#### Assesment with differing illumination conditions

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

Assesment according to the following grades: 1 (Excellent) 2 (good), 3 (average), 4 (satisfactory), 5 (limited), 6 (poor). \*BL= Backlight



# Test the Best!

## Compact Fixed Dome Cameras

In cooperation with Seetec, GIT SECURITY tests current and new video cameras under standardised conditions in the test laboratory of the SeeTec Hardware Competence Centre. The Hardware Competence Centre was set up because the data and performance specifications of network cameras as stated by manufacturers are often measured under different conditions and are not always reliable in practice. The results provided a sound basis for planning IP video projects and help to avoid unpleasant surprises. For the testing procedure, video sequences are produced under defined lighting scenarios and are then evaluated. Here, movements in the picture as well as night and backlight situations are taken into consideration.

### Performance

#### Performance assessment when used with 1,000 Lux

With good illumination the camera delivers a very good overall image. Colours are displayed clearly, naturally and without a colour cast. The contrast range and ratio are very good, the gradation of brightness in both the bright and dark areas of the pictures can be easily recognised. Image details are displayed sharply and moving objects are displayed without noticeable smearing effects. Image noise is hardly perceivable.

#### Performance assessment when used with less than 1,000 Lux

The camera rapidly compensates for fluctuations in lighting. Down to approx. 20 Lux, the camera adapts well to poor lighting conditions, below 10 Lux the colours become somewhat paler and the contrast reduces. Although the camera software is equipped with a B/W night mode, there is no switchover at 0.5 Lux. Here, the image has poor colours and contrast and shows visible image noise. The sharpness of the image reduces in the low illumination range.

#### Performance assessment in backlight situations

After about 2.5 seconds the camera delivers a stable image in B/W mode, however, brief compensation processes are occasionally noticeable. Background details can still be recognised, even at the edge of the image, the backlight source blooms considerably to about 4 times the area.

#### Performance assessment in use: Bandwidth measurement

In the standard setting, the camera delivers a fixed data rate of 4 MBit/s – a value which was slightly undershot in the test scenario. Large fluctuations were not detected, only during compensation processes (darkness/backlight) were deviations of about 1 MBit/s upwards or downwards were observed. In the test, the camera provided 29 images/second.

### Conclusion

The compact fixed dome camera delivers images with a resolution of up to 1.3 megapixels in H.264 and MJPEG. It is equipped with software with day/night switchover, is ONVIF-compatible and can transfer several image streams in parallel. In addition to Privacy Masking, the camera supports simple face recognition, useful tools e.g. for the retail market.

### In Focus: Panasonic WV-SF135

The Panasonic i-PRO SmartHD WV-SF135 is a low profile, HD compact dome network camera that provides full frame transmission of 1280x960 images using a 1.3 megapixel high-sensitivity MOS sensor. Additional features of the WV-SF135 include high sensitivity with day and night (electrical) function, 16x electronic sensitivity enhancement, and Variable Image Quality on Specified Areas (VIQS) - a technology that allows a designated area to retain higher image quality while excluding areas that have decreased image quality to lower the image file size and bit rate.



CAMERA TEST

### Technical data for the camera test

Manufacturer	Panasonic
Model	WV-SF135
Firmware version	1.00
Distance to test chart	0,30 m
Lens used	f=1,92
* Focal length set	1,95 mm
*Compression method	H.264
*Resolution	1280x720
*Compression	-
I-Frame-interval	1 second
Max. stream bandwidth	4096 Kbit/s
Measured frame rate	29 fps
Average bandwidth	3,83 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.

### Assesment with differing illumination conditions

Criteria   Lux values	1000 Lux	100 Lux	10 Lux	0,5 Lux	0 Lux + *BL1
Colours	1.5	1.5	2	3	b/w
Contrast	1.5	2	2.5	3	2.5
Focus	2	2	2.5	3.5	3
Motion sharpness	2	2	2	2	2
Image noise	2	2	2.5	3	3
Recovery from backlight	-	-	-	-	2.5
Performance against backlight	-	-	-	-	3

Assessment was performed according to the rating system of 1 (very good) to 6 (unsatisfactory). By setting various parameters on the camera interface itself, it is possible to obtain an improved image quality.

\*BL= Backlight



## VIDEO MANAGEMENT

# Goals, Fans and Security

GOSiR Stadium in Gdynia Relies on Efficient Video Solution from SeeTec

All over the world, football stadiums are places of sports, emotions and large crowds. Fans of rivaling football clubs come together in confined spaces to cheer for their teams. Unfortunately violence and riots also go along with football matches quite often. That's why in preparation of the European Football Championship 2012 the Polish government passed new laws regarding safety and security in large venues.

Visitors and viewers should experience a peaceful event and therefore also the requirements for the video surveillance systems were aligned to the current technological standard. The GOSiR stadium in Gdynia is the home of football club Arka Gdynia. It is run by the town's administration. To meet the increasing requirements, the whole site was completely refurbished in 2010. As a result, 15,200 seats are now available – that means 3,000 more than before. But more people also stand for a higher security risk. Vandalism, the firing of Bengal lights, assault and brawls among the fans are just some of the risks that have to be faced. Therefore the decision was made to update the security system, which also meant to fulfill the recently passed laws. Accordingly one of the main challenges was to implement a video system with a high frame rate and resolution to be able to identify hooligans and misbehaving fans.

### The Solution

In 2010, AMB 24 was engaged to modernize the video surveillance system. Being the first Polish company having installed a security system

according to the new laws, AMB 24 had important experience with the required technology. In the past an analog solution had been in use at GOSiR stadium, being no longer state of the art. The main problems were the low resolution of the image recordings and the huge capacity of storage that was needed. After a period of testing different software products, AMB 24 followed the advice of the distribution partner SPS Electronics and decided in favor of the SeeTec software.

### The Result

In cooperation with AMB 24, SeeTec developed a solution concept that could be implemented promptly. Due to the new laws the decision was made to replace the complete system instead of integrating the analogue equipment into the new network based environment.

That's why new IP cameras had to be chosen. The installer selected 160 megapixel cameras from Arecont Vision and further manufacturers, delivering video streams with a resolution of up to 10 megapixels. To guarantee perfect image quality the whole system works in Full HD resolution or better, delivering the brilliant video





### Project Facts

- City council of Gdynia
- Object: GOSiR Stadium
- Installer: AMB24
- Products: SeeTec Enterprise Edition, SeeTec Multi Solution Platform
- Cameras: 160

### Requirements:

- Excellent image quality and high frame rate
- Low storage requirements
- Scalability and expandability
- Replacement of an existing analog system

of the system, so that adaptation to future demands is possible without any difficulties," said Michał Krzeszewski, executive engineer in the project.

A year has passed since the new system has been put into operation and it has already fulfilled its intended purpose. Since the implementation confrontations between rivaling fans have decreased, making police operations almost needless. For future demands, the SeeTec Multi Solution Platform can provide numerous extensions. Currently the application of SeeTec Analytics is being discussed. The innovative security system is groundbreaking and a role model to a large number of sports centers in the country.

Security, Hall 2, Stand 213

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streams with a rate of up to 25 frames per second. This allows the identification of persons even from a great distance.

SeeTec 5 Enterprise acts as the central management platform. One of the main benefits of the SeeTec software is the deep integration of each camera type, using all features the device can provide. This is why the cameras deliver fluent high-resolution video streams for viewing and recording while the required disk storage is minimized. The observation and analysis of live streams and recorded footage takes place in the control center on five workstations running SeeTec clients and on one big monitor wall. This large screen is perfectly suitable for displaying the images streams provided by the 10 megapixel cameras, even allowing the identification of single disruptors within a fan section. Using the DisplayAgent feature, the monitor wall is directly controlled from a SeeTec Windows-Client running in Dispatcher mode.

Integrated maps and floor plans ensure a fast and visually supported access to the particular cameras all over the stadium. As soon as the

cursor slides over a camera symbol on the map, a thumbnail showing a live stream appears – especially in large installations like GOSiR this feature helps to reduce the response time considerably. Furthermore virtual patrols are used by the security staff to keep track of the situation on site. Showing predefined camera positions in certain intervals, this feature is used especially outside the playing time to support the security crew to avoid long patrol distances.

Within only four days both hardware and software have been installed and the system has been put into operation.

### The Customer

AMB 24 is a Polish company based in Gdynia being specialized in planning, installation and maintenance of security systems. The facilities AMB 24 is in charge of range from private residences and yachts to industrial plants and public sites.

"A test series among 20 competitors showed that SeeTec fulfilled every criterion being crucial: functionality, stability, the decompression speed and the scalability



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Roland Meier, Team Leader Panomera Multifocal Sensor Systems at Dallmeier

## VIDEO TECHNOLOGY

# Overall View – in Detail

## Latest Technology for Stadium Security

These days, video technology has become an indispensable element of the security arrangements in sports stadia. With its introduction of the Panomera multifocal sensor system, German developer and manufacturer Dallmeier has unveiled an entirely new approach to video surveillance of large areas. This technology offers many advantages for those responsible for stadium security. We spoke with Roland Meier, team leader Panomera Multifocal Sensor Systems at Dallmeier.

### Mr. Meier, what is so innovative about the Panomera system?

**Roland Meier:** With the Panomera multifocal sensor system, a huge area can be monitored from a single location extremely efficiently. The most impressive aspect of the product is that it combines the overall view with simultaneous top detail resolution: Even more distant objects are displayed with the same resolution as objects in the foreground of the picture.

### What advantages does this have for monitoring stadia?

**Roland Meier:** Panomera works well both for very wide panoramas and for areas involving great distances. An entire stadium can be monitored permanently with just two Panomera systems! In effect, it is as if you were to combine the advantages of an overview camera and a high optical zoom PTZ camera: Panomera records the entire area continuously, like an overview camera – unlike a PTZ camera for example, with which only the currently active zoom area is recorded. But at the same time you can move and zoom anywhere in the entire coverage area – and individuals are clearly recognizable even at distances of more than 160m.

**If the entire scene is monitored by just one camera, is it only possible for one security operator to work with the camera or can several operators access it?**

**Roland Meier:** In contrast to PTZ cameras, with which only one operator can control the camera, with Panomera, an unlimited number of operators can navigate across the entire scene independently of each other. Although all operators are connected with the same camera, each of the individual users can select his view individually and zoom or pan as he desires. Or he can perform evaluations of the recordings at the same time. So analyses can be carried out by any number of employees at various workstations simultaneously, for example one may be watching the overview image live, another may zoom in on suspicious fans in real time, while yet another is looking at the recording from an hour ago to see how the stadium filled up.

### Do you not need enormous bandwidth for this?

**Roland Meier:** Owing to the so-called multicast capability several users can view the images from Panomera without requiring repeated transmission of the data via network. This reduces the necessary bandwidth significantly.

### How fluidly is movement represented in the images?

**Roland Meier:** Panomera provides image material in real time and at high frame rates of up to 30 fps, which translates to completely fluid representation. And quite honestly: If a video

system is really going to help shed some light on certain incidents, that is absolutely imperative. For example, imagine someone lit a Bengal firework and you now want to find out who did it. Now, if you have a camera that is only recording one image per minute, at best you might be able to see which direction the Bengal firework came from, but you would not be able to identify the perpetrator individually. On the other hand, with Panomera you can step back one image at a time through the recording until you can see exactly who lit the firework.

### That all sounds very plausible, but at the same time extremely complex...

**Roland Meier:** Quite frankly, it is difficult to describe Panomera in words and explain all of its features. You simply have to see it in action for real. I have had that experience very often when making presentations to customers: Everyone who sees the system with his own eyes very soon has that "Aha" moment. We call it the "Panomera effect": Panomera far surpasses the limits of conventional cameras. That is why we are constantly stressing that Panomera is not just another camera that purports to offer more megapixels than the products of our competitors. That is not the point – Panomera represents an entirely new technology and a fundamentally different approach to the issue of video security.

**What is the situation regarding price? A system like this must surely be very expensive.**





Frame by frame playback: The recordings show how the suspect put on his hood and lit the Bengal firework.

**Roland Meier:** Not at all: Panomera is the most cost-effective system on the market today! Of course, a Panomera is more expensive than a single conventional HD camera. But then you only need one Panomera system to cover the same area that previously required several cameras. Even so, the greatest savings are realized in expenses for the infrastructure. This really cannot be overemphasized. The most expensive factor in installing a camera is not the camera itself, but the infrastructure it needs, that is to say: camera masts, wiring, electricity supply and so on. If you only need a single camera installation site, you save an enormous amount of money. For this reason alone, it would pay immense dividends to thoroughly calculate the cost of a Panomera-based project!

**Would an existing video system have to be replaced completely if a stadium opts for a new Panomera solution?**

**Roland Meier:** No, existing cameras can be incorporated in the Panomera concept. For example, a stadium may decide initially to use Panomera to cover the home and visiting fan area, which need to be monitored particularly closely, while the other areas can be monitored as before using the cameras already in place. Even so, the entire video system can be monitored and controlled using a single management system.

Or, the most practical solution may be to continue using existing PTZ cameras in the visiting fan area, and to integrate them in the

Panomera solution. That is easily possible with our SeMSy management system. The movable cameras can be automatically directed at the desired point with a simple click of the mouse at the Panomera station. Now the incident in question can be viewed not only via the Panomera but through the PTZ cameras as well. This enables a different field viewing angle, for example if individuals happen at the moment to be hidden behind a banner, or again the activity can be displayed in greater resolution. So the two systems work very efficiently together!

And while we are on the subject of integration: a mobile solution can be created without difficulty via our iPhone server. The images from Panomera can be displayed on an iPhone or iPad, for example, so that the security forces inside the stadium can have immediate access to pictures of anyone behaving unacceptably. This results in faster response times and greater flexibility.

**Dallmeier already has many references from stadium sites all over the world...**

**Roland Meier:** That is true. Projects we have already completed range from smaller regional stadia all the way up to enormous arenas such as the Soccer City Stadium in South Africa, where the opening ceremony and the final match of the 2010 Football World Cup were held. Or the Olympic Stadium in Athens. Incidentally, in Greece we have fitted out a total of 22 stadia with our equipment – and all 22 sites



The multifocal sensor system Panomera unveils an entirely new approach to video surveillance of large areas.

are controlled from a common control center! This multisite capability is also made possible by flexible IP technology. We do not mass produce products, we manufacture individually planned solutions that are tailored precisely to meet the needs of the respective customer and his specific requirements, for example with regard to resolution quality, storage capacity, or budget.

**What is the situation regarding investment security? After all, development cycles for new technologies are becoming shorter and shorter...**

**Roland Meier:** Owing to the open system architecture of the Dallmeier solutions the video system remains flexible and scalable. Future expansions or modifications are easily possible, even hybrid operation with devices from different generations presents no problems. Hence the stadium solutions by Dallmeier offer long-term investment protection.

**Security, (open-air exhibition ground) FG2, Stand 1**

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## VIDEO SURVEILLANCE

# Right on the Screen

## Video Surveillance on the Basis of HD-SDI

It is a standardized digital interface: HD-SDI comes from the realm of TV transmission and has now found its way into the world of video surveillance. With it you can transmit uncompressed video streams in Full HD over coaxial cable – delay and jitter-free as well as in high definition. The lunaHD company – a Joint Venture of NSC Sicherheitstechnik and ITS in Bielefeld – already offers the corresponding products. Matthias Erler of GIT SECURITY spoke with the Directors, Harald Butenuth and André Hoppe.



Harald Butenuth

**Mr Butenuth, Mr Hoppe, you both founded the LunaHD company at the end of last year and already have your first customers. How and with what motivation did you come to start this company?**

**Harald Butenuth:** We have both been active for many years in professional video surveillance and in the related product management roles, and have seen a great deal in this time: we know all the techniques and devices that are on the market. As we were confronted with HD-SDI technology for the first time it got us both very excited. The quality of the pictures above all was the trigger and ultimately the motivation for us to get to know it better.

**André Hoppe:** Harald Butenuth as Director of NSC Sicherheitstechnik and myself as the owner of ITS saw the chance to establish ourselves with this additional new technology with a new company under the new brand name of LunaHD. We are both more oriented towards security technology in our own companies and therefore decided for this constellation.

**Could you give us a brief insight into the capabilities of this technology?**

**André Hoppe:** HD-SDI technology originated in professional TV technology and allows video streams up to a resolution of 2.1 megapixels to be transmitted smoothly and without loss. HD-SDI is defined in the SMPTE 292M standard and this ensures that the products are compatible with each other.

**Harald Butenuth:** The important thing is that high-definition video streams can now be transmitted over the same coaxial cable that is also used in analog technology. This enables the in-

frastructure of analog systems to be used, but to attain much better results.

**Can you explain SDI technology in comparison with IP technology?**

**André Hoppe:** In short, the difference is the following: with IP the image is compressed in the camera then transmitted over a network cable. At the other end the whole thing is processed and decompressed. With SDI the image is captured in the same way but not compressed. The raw data are forwarded directly by coaxial cable without compression losses, without any image delay, and without any jitter. In contrast to IP technology, you don't need any specialists to build a video surveillance system on the basis of HD-SDI. Such systems are built in an almost identical way to classic analog systems and don't need any PC technology.

**What individual products do you offer?**

**Harald Butenuth:** We have everything that is needed especially for this technology. This includes the necessary cameras, recording equipment, monitors and accessories. We're not directly targeting installers or the project planners, but solely distributors who then themselves complement these products to build a complete system. We are therefore not competing with them because we can be compared to a manufacturer. We put preselected and preconfigured products together and sell them under the brand name LunaHD.

**What target markets and areas of application do you see above all for the HD-SDI technology?**

**Harald Butenuth:** We can foresee applications in new systems as well as in existing instal-



André Hoppe.





**André Hoppe:** A good example is an in-store detective who wants to follow a shoplifter with the camera. André With HD-SDI this really works well – in megapixel quality! The classic customer monitor that makes shoppers aware of the video surveillance is really a practical option using this technology.

**You don't just want to deliver goods but instead offer a comprehensive service. What is included?**

**Harald Butenuth:** We would take over the marketing for our partners, for example – the distributor would not have to do this themselves. That would include creation of the Internet page and the advertising that all partners will profit from. Through the partnership we want to ensure that a common brand with a common spirit is established. That makes us strong.

**Mr Hoppe, Mr Butenuth, many thanks for the conversation.**

Security, Halle 3, 508

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effort required is minimal. There is no one industry for which usage is limited – we are addressing the broad market. The technology is particularly suited to applications where live transmission is required: when panning and tipping a speed dome camera the advantages of the technology become really clear as there is no delay in the image. The control signal is implemented immediately because of the minimal latency – that makes exact control possible.

lations. This is supported by the fact that the quality is five times better, the old cables can as a rule be used again and the installation



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## INTERVIEW

# Family Growth

## Traditional Safety and Security Brands within a Multinational Concern

The Novar, Esser and Ackermann brands, among others, all belong to the giant international Honeywell concern. While it is sometimes easy for smaller acquired companies to be enveloped by the corporate behemoth and disappear, these divisions are maintaining their profile by continuing to provide innovative products and pro-active customer service. GIT SECURITY interviewed Martin Bemba and Klaus Hirzel of Novar about how the synergies of belonging to such a large group can be fully utilized.



Klaus Hirzel (l.) and Martin Bemba (r.),  
Members of Novar's Managing Board

**GIT SECURITY:** Mr. Bemba, you have been Director of worldwide business for the product ranges of the 'Esser' brand for some time now. How international is this well-known brand today and what role does the Honeywell concern play?

**Martin Bemba:** When I started my career over 25 years ago at Esser as an apprentice electronics technician, most of the turnover was generated in German-speaking countries. Esser has continuously grown since then, not only organically but also through acquisitions. In March of 2008 we extended our portfolio by the acquisition of voice alarm components (PA/VA) – an impressive success story. This rounds off our portfolio which extends from detection through bus-supplied alarming to PA/VA and reinforces our claim as 'Expert for safety in buildings'. We have also grown strongly internationally in recent years, in particular in the BRIC regions (Brazil, Russia, India and China), but also in other re-

gions. This year, for example, we have opened an office in northern Africa and in Turkey. As other Honeywell divisions already have branches and customer contacts in many locations, the group affiliation is very beneficial in extending the business of Esser internationally. The international portion of our total turnover has become significant in the meantime and possible weaknesses in certain regions can successfully be compensated for by our global presence.

**Which particular regions provide the most potential for security technology 'Designed in Germany' in your opinion?**

**Martin Bemba:** During my long periods of residence abroad it became clear that products 'Designed in Germany' enjoy a very high reputation. Innovation and product quality are just one element here. The customers also appreciate the intuitive interaction with the products, the excellent support during planning and putting

into service, the local presence and not least the good value for money. We are proud that Esser fulfills all these points and in many cases is viewed as a pathfinder. 'Designed in Germany' is, in my opinion, not just a value promise but also a convincing argument worldwide.

**Markets and companies are constantly changing – at Esser and Novar too. When you compare the cooperation with Esser customers from the year 1990 with those of today, what major differences do you see?**

**Martin Bemba:** In the coming year we will be celebrating the 40th anniversary of the venerable brand of Esser. We are very proud that we have maintained close customer contact during all these years. Some of our first customers are among the largest Esser customers in Germany. We have successfully grown together with our customers. There will soon be a generation change in some of these companies



oder customers and that gives our communications department new challenges. As a result, we have revitalized our Internet presence and we are using new methods of information transfer; we provide webinars on specific subjects, supported by short films that provide answers to the most commonly posed questions. And in the future we will extend our training program with e-tutorials.

**Novar relocated earlier this year. Tell us more about the reasons for this move.**

**Martin Bemba:** As our business has continuously grown, so has the need for space. Until recently we were divided across various buildings in Neuss. This restricted the interfacing between various divisions of the company. Now these divisions are housed in one new building and the communication has improved immensely. In addition, we are currently equipping a new presentation room and our comprehensive range of training courses will soon also be held in the new building. The relocation will be completed this year and the manufacturing brought together at our former location.

**Mr. Hirzel, you are responsible for the Esser fire alarm technology and voice alarm business in Germany, Luxembourg and Switzerland. You were previously Head of Sales in these countries. What has changed now in your daily work?**

**Klaus Hirzel:** As Head of Sales I could never complain about a lack of responsibility. This responsibility has of course become larger in the new job of Director, but fundamentally not a lot has changed. We all work together for the company good. As Head of Sales, one is focused more on short or medium-term goals, on the next month, the next quarter or year end. The long-term goals are however decisive for management: the strategic direction of the company in the next 5 years under particular observance of the existing firm partnerships is one of the main tasks. We maintain a very close, personal contact to our customers at Es-

ser that I personally don't want to miss, and I believe that makes us special. Judging by the continuously growing need for security in the community, some innovative concepts and corresponding solutions will be demanded as well as professional products. So it is not surprising that the security technology industry is still creating growth. The figures published by the ZVEI confirm this and we would like to continue to make optimum use of this potential through strategic partnerships and personal customer relations.

**The new Management has started with the goal of solidifying the current market position of Novar and Esser at Honeywell - which new products or services will help to achieve this?**

**Klaus Hirzel:** I don't want to say too much but we will be extending our portfolio with our new FlexES Guard management system and an enlarged palette for complex industry applications, loop control technology for PA/VA as well as further small systems.

**On the subject of products: what will be 'new from Neuss' on show at the Security exhibition in Essen with regard to fire alarms?**

**Klaus Hirzel:** We will be showing interested visitors all the products I mentioned before on our stand number 211 in Hall 3 – supported by live presentations – and of course we'll be happy to explain their corresponding added value.

**Voice alarms have continuously grown in importance in recent years. Why do you view Novar as a forerunner in this market and what do you see as the next challenges in this sector?**

**Klaus Hirzel:** As Mr. Bemba mentioned at the beginning, we have reacted in time to the growing together of fire alarm technology and voice alarms. Our customers benefit from the fact that we can provide trend-setting solutions in this field and give them access to other technologies, products and services. Starting with detection

and moving through bus-supplied alarming right up to SAA, and with a supervisory management system on top, we provide a complete portfolio and we want to continue to prove our claim as 'experts for security in buildings' in the future.

**Could you give us a small insight into some of the most recently completed projects.**

**Klaus Hirzel:** From the many projects with the highest technical challenge that we have realized together with our installers there are a few particular ones that are worth mentioning where both voice alarms and fire alarm technology have been implemented with a serial connection. These include the Emporio Tower in Hamburg and the Neue Chirurgie (New Surgery) in Ulm. The newly installed public address system in the main station in Munich is also an example of how successfully

large projects can be carried out. It is a comforting feeling to have when we find that the high quality products from our fire and PA/VA divisions guarantee trouble-free operation of this complex technology.

**Gentlemen, thank you for the interview.**

**Security, Hall 3, Stand 211**

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## EVACUATION

# Lifts for Emergency Evacuation

To Use or Not to Use – that Is the Question

According to ISO/TR 25743/201 (International Standards Organisation), lifts can play a part in the general evacuation of tall buildings; however whether they reduce or increase evacuation times will depend on 'what and where'.



Barry Scholes is the founder of Evac+Chair International which has been at the forefront of building evacuation chairs since 1985.

There are many reasons why a building may need to be evacuated, such as a fire, explosion, chemical or biological attack, flooding, storm damage or earthquake. In some cases the occupant(s) may have difficulty descending stairs in the event of an emergency and it would therefore be reasonable for those occupants to be able to use the lift for rapid descent to ground floor levels. The decision as to whether to use the lift or not will be determined by a number of factors.

## Evaluate the Situation

Firstly where is the fire? Is the fire in another building or far from the local vicinity? Secondly, how many persons are expected to enter the lift? This will depend on the number of wheelchair users and the maximum payload of the lift car. Once fire starts to spread, the situation becomes dynamic and alternative strategies will need to be put in place depending on whether the fire is fast or slow spreading and whether smoke is contained.

## Evacuation Lifts

In buildings which have an Evacuation Lift, this lift must:

- 1. Be clearly identified
- 2. Be situated within a protected area
- 3. Have at least 2 hours fire resistance for lift doors and surrounding area
- 4. Have independent switch controls
- 5. Have a primary and exclusive power supply
- 6. Have at least 2 hour fire rated electrical supply and electrically operated apparatus
- 7. Have at least a 400kgs load capacity
- 8. Have a good communication system for both the occupant in the lift and outside.
- 9. Must be able to pass through a hazard zone e.g. smoke and high temperatures

In certain types of emergencies lift evacuation would be inappropriate. For example where there is a gas escape which is highly combustible or a biological gas attack which could spread due to windage. In some buildings the lifts could be affected by misalignment due to impact, high winds, or water erosion and the question of who may be in the lift is also paramount.

## The Role of Building Management Systems

Modern buildings, with large numbers of occupants, will probably have a sophisticated Building Management System (BMS) in place which is capable of communicating data to the Building Management. The BMS will be designed for the needs of the building and should have a strategy in place for dealing with phased evacuation, and prioritising those with walking difficulties which may involve relaying from one lift system to another thereby leaving the express lifts for the Fire Service.

Less complex buildings may not have a BMS and may only have one lift. These may be for general use and not designated for evacuation or as a fire proof lift. In such cases the warning "In the Event of Fire Do Not Use Lift" remains the best and only advice.

If lifts cannot be used for whatever reason, all is not lost. With walking speeds of 0.82 meters per second most 10 storey buildings can be evacuated under 3 minutes. There are number of stairway evacuation devices on the market, one is the Evac+Chair which was introduced in 1985. Using this device even descent from 20 floors will only take 5 minutes, and so offers a quick and safe alternative route to ground.

There is no doubt that very tall buildings require new intelligent means of escape, but for the vast majority of the population who work or visit buildings of 20 floors or less or have a single lift service, then stairs will remain the best route to safety. The warning sign "In the Event of Fire Do Not Use Lift" is sound advice.

Bibliography: BS 9999:2008 ISO / TR 25743/2010



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## FIRE PREVENTION

# High Flames

## The Right Fire Protection Solution for Wind Energy Turbines Prevents Total Loss

The view across the countryside in Germany is continually being changed by wind turbines. In many regions, dozens of these unmanned power generators are shooting out of the ground in the shortest space of time. And this trend is spreading around the world as alternative energy becomes increasingly important. The fire risk of such systems should not be ignored. The equipment and property damage can quickly amount to millions in the case of a fire.

Whether in the north of Germany or in far-away China, the number of over 300 foot high systems is growing continuously, amounting to many thousand. It is easy to recognize that this industry is on the upswing as a result of the transition to wind energy. If there is a failure in a wind energy turbine, a number of fire protection-related problems arise. The rotor and machinery housing several hundred feet up in the air and, with their typical fire risk and intensity, are unreachable by the fire brigade at that height. Also offshore systems that are constructed near our coasts or on the high seas cannot be readily extinguished. And so the expensive investment can in the worst case burn itself out almost without being noticed, and the damage amounts to millions. Therefore a corresponding automatic fire protection and extinguishing system must be integrated into the system and its associated buildings that reports a fire as early as possible to enable a timely response.

### Multiple Causes

The potential causes of a fire in such wind energy turbines lie not only in the mechanical parts (gearbox, hydraulics, brakes etc.) but also in the electronics (generators, transformers, control systems). So not only the generator housings are affected but also the control systems. Apart from a lightning strike as a 'natural' cause of fire, there are also technical fire sources such as overheated bearings, hot brakes, short circuits or maintenance oversights. Many hundreds of litres of gearbox and hydraulic oil as well as insulation and plastic parts in each system feed the fire and can lead to the total destruction of the complete system, with serious consequences.

### Early Fire Recognition Is the Solution

To protect the high investment value of a wind energy turbine some effective actions are called for that look after these complex and expensive systems. In the case of a fire, it must not under any circumstances come to destruction of the entire system and the negative impact for the energy supply system.

One solution are the the Titanus air sampling smoke detection systems for early detection of fire in a wind energy turbine or the associated control station on the ground, without false alarms. Reliable smoke detection is guaranteed even under unusual climatic conditions and high dust concentrations or air streams. The low maintenance required by the easily accessible components and an almost maintenance-free piping system that continuously takes air samples are beneficial for the usually unmanned wind turbine. Active air sampling and the earliest detection enable the air sampling smoke detection system to shut down the system in good time even in the pyrolysis phase of the fire. This also enables other measures, such as the triggering of an extinguishing system, to be taken at an early stage.

### Timely Response

The consequences of a fire in wind energy systems are severe. Even a small smoldering item in the complicated electronics can put a whole system out of action and lead to its burning down. The sharply increasing number of systems worldwide calls for effective fire protection solutions. Only if the fire detection happens at the earliest stage can actions be implemented in time and the high investment value saved. The air sampling smoke detection technology has already proved itself in a number of wind energy systems to be the best fire protection solution.

**Security, Hall 3, Stand 408**

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### VdS-Certified

Detectomat's multi sensor detectors Oto and Oti Fusion are tested by VdS, according to the latest standards for multi-sensor methods. The prestandard EN 54-29 is currently at the stage of harmonization, and will be a Europe-wide standard. Part 29 of the EN 54 will categorize multi sensor smoke detectors with smoke and heat responding properties. This standard defines requirements of detectors reacting on a wide range of fires. In addition to the test fires TF2-TF5 the test fires TF1 and TF8 are applied. Having passed all sensor tests, the detectors were both certified by VdS.



Security, Hall 3, Stand 707

### Handling Oily Parts More Safely

Ansell Healthcare announces the launch of Alphatec 58-270, a chemical-resistant glove. Designed as a liquid-proof glove requiring less force to grip oily parts, the glove incorporates the manufacturer's Grip Technology. The enhanced grip reduces fatigue and offers superior dexterity. The glove is recommended for light handling applications in environments with potential chemical hazards, including the chemical industry, oil refineries and production, automotive and OEM markets, maintenance, metal, machinery & equipment and building & construction. It is a lighter version of the Alphatec 58-530 and 58-535 gloves which are recommended for medium to high duty chemical applications. Many solvents, mastics, oils and other chemicals can cause skin irritation and allergy. Next to substituting these by products that do not cause dermatitis, avoiding skin contact by using gloves is an efficient mean to protect workers' skin. Up to now, workers handling harmful chemicals or oily parts had no 100% satisfactory choice protecting their skin from dermal damage and offering optimal comfort and dexterity at the same time. The glove provides comfort and precise handling as well as grip and skin protection, anywhere chemicals including oils are present. The gloves keep the worker's hands clean and prevent dermatitis by protecting the skin from harmful contact with oils, chemicals and other liquids. They are recommended for light to medium applications while the existing Alphatec 58-530 and 58-535



Video with Prof. Alan Wing:  
Hand Protection – Tests With  
Ansell's Grip Technology

are more for medium to high duty chemical applications. The glove can be used across a broad range of oily or dirty activities, allowing multitasking and therefore improved productivity: wearers do not lose time changing gloves. Because oil does not penetrate or degrade the coating, the glove lasts longer and consequently reduces costs. Another advantage is its thin, double-wall nitrile shell offering users tactility and flexibility.

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

### Interface Certificated

Two new Geutebruck licenses now facilitate professional data exchange between the Company's system world and Lenel's Onguard management system. The licenses and related software packages were recently officially certificated as meeting the requirements of the Lenel Open Access Alliance Program. The Gevi/G-OnEvent license activates the event interface when connecting the Lenel Onguard ACS system to the Geutebruck video management system. This

enables event data to control DVR recording, presentation and search functions through Geutebruck's video presentation infrastructure. With this topology the video management system processes all information provided by the connected Lenel system. The license allows the Onguard system to supply event information to an unlimited number of Geviscope and Reporter recorders.

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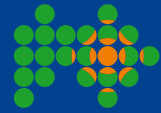
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## GAS MEASUREMENT TECHNOLOGY

## Smell, See, Hear

## Technology Leaders in Conversation: Current Trends in Gas Measurement Technology

Gas comes from chaos. That is to be taken literally because the word 'gas' originates from the Greek/Latin word for dissolution and disarrangement. Those looking for clarity – because many gases are inflammable, poisonous and can asphyxiate – turn to gas measurement technology. There are fixed and portable devices for this that are being constantly developed further. GIT SECURITY took a look at the industry for the most important trends – Matthias Erler and Steffen Ebert spoke with the technology leaders.

The applications of gas measurement technology are more than numerous: you can find mobile as well as stationary measurement devices throughout industry, and the chemical industry in particular, in environment and energy commerce, in laboratories and in civil defense through to offshore platforms. A timely warning of dangerous gases is not infrequently a matter of survival and very often necessary to protect the health of employees. National and European limits form the basis for reliable tolerance levels.

Gas measurement technology uses sensors, most of which use a catalytic method of operation. There are also sensors made of semiconductors, while other gas measurement technologies use the fact that the thermal conductivity of certain gases is higher than that of the surrounding air. In addition there are, amongst others, infrared and ultrasound gas detectors.

### Technology And Handling, Documentation

Even when product life cycles in gas measurement technology are comparatively long, as Werner Tilling of Industrial Scientific found out, the engineers are simultaneously working on many fronts. Listening to the manufacturers, it becomes clear that both the accuracy and the measurement procedure itself are being developed. This applies to multi-gas systems and multifunctional systems, but also to concepts that affect integration into the whole safety management process: service, documentation and locating portable devices, for example, are important aspects.

There should be "... as few buttons as possible" says Stefan Denker of Dräger, because self-explanatory systems not only improve the ease of operation but also reduce the amount of training necessary for employees. The fundamental economic aspect behind this also supports a further trend that Mr Denker has identified: the attempt to provide platforms for different tasks that are very similar to one another. In this way a device that is suitable for person-related monitoring should also be able to be used for clearance measurements, for example in the cleaning of containers or for location monitoring. This has the advantage that a new device with associated training is not necessary for each mode of operation.

### Accessories And Networking

The way to attain multiple usage of the core unit is by using attachments, according to Stefan Denker: these stretch from pumps and pipes for tanks through to local monitoring devices that



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**Frank Deinert, Manager, Gas Detection at MSA Auer GmbH:** "Progressing ultrasound technology is currently one important area of development."



**Stefan Denker of Dräger Safety:** "New compositions for catalytic EX sensors for higher resistance to poisons."



**Peter Osterholz, Head of Sales at GfG:** "The trend is towards economic, mobile and easy-to-use test stations."



**Werner Tilling, Industrial Scientific:** "On the basis of the data, recognize whether an employee is behaving correctly."

network themselves without cables into one safety network. In this way, other areas will be advised if a problem is reported at one location.

Networking permits further adaptation, such as in an example from Stefan Denker: certain actions can be linked to an alarm – even before the control room is made aware and takes appropriate action – so that, for example, fans or welding equipment can be automatically switched off to prevent spreading the problem or to prevent an explosion.

### Improved Sensors

As far as the heart of the gas measurement device is concerned – the sensors – work is ongoing above all on improving their longevity, as Stefan Denker of Draeger explains. Some catalytic EX sensors can be poisoned by certain chemical substances and become increasingly insensitive. Examples of this are sulfur compounds in

refineries. Even if sensors come into contact with the substances contained in lubricant sprays or hand creams they can become insensitive. For this reason, research is constantly looking for new compositions that will lead to higher resistance to sensor poisons. Denker's company has recently announced versions that are three to four times better at resisting changes.

Werner Tilling of Industrial Scientific also sees a further-reaching development of new measurement processes – for portable as well as stationary devices – and multi-gas systems. According to Bernd Rist, CEO of Compur Monitors, the use of tunable lasers – that are already being used, above all, in America – for sensor technology will be a while coming. This technology uses the effect that most substances absorb light, and indeed the light of a particular color.

The manufacturers also consider the further development of optical monitoring technology –

such as infrared – to be important, adds Frank Deinert of MSA Auer. It will become cheaper and can be used for ever more measurement jobs. His company is investing heavily in its portfolio of gas warning systems, for example through the takeover of the Californian company General Monitors one and a half years ago.

Amongst the currently most important development areas at MSA Auer, says Frank Deinert, is the growth of ultrasound technology that is particularly suitable for the very rapid detection of leaks and the smallest cracks in pipes. In contrast to 'smelling' (recalcescence, electrochemical, semiconductor) catalytic and 'seeing' optical (infra-red) detection methods, explains Deinert, this is a sort of 'hearing' technology using the fact that gases leaking from pipes and joints, produce a hissing noise, just like a leaky gas bottle.

### Evaluation Of The Data

However, Werner Tilling also considers the systematic evaluation of the data gathered from the gas measurement devices, that is also already widespread in the USA, to be an important development. Just detecting and documenting is not enough. His company is therefore going along the path of transmitting the data and evaluating it centrally: when has which gas been detected and where? In what concentration? They want to make a large investment in this technology.

The data, says Werner Tilling, should be so evaluated and projected in the result that one can determine, for example, when training measures are necessary in individual departments in order to avoid a safety problem. On the basis of the data, one can in fact clearly determine whether the individual employees are acting according to the prescribed standards, or whether they are staying too long and hesitating dangerously and against regulations, while the measurement results indicate that other measures are necessary. More important still than the further development of sensor technology is to



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# Ansell





Was the winner in 2009 of the GIT SECURITY AWARD and is standard equipment for many monitoring tasks: Microtector G460 7-gas measurement device in use here with the fire brigade.



Internet-based iNet Control application from Industrial Scientific: manage gas warning devices from any web browser.

proactively evaluate the existing data "that are currently being discarded."

### Locating Portable Devices

In large installations where many portable gas measurement devices are being used, it is important to be able to locate the device of an employee that is sending data, for example so that rescue measures can be taken. The main difficulty here though is the transmission, above all when the signal is affected by concrete, steel and metal. Some voices in the industry are correspondingly hesitant. Bernd Rists, CEO of Compur, for example, is skeptical at the moment. Proof in practice has still to come – in particular the ease of operation must be kept in mind when a device is to be capable of more tasks.

Peter Osterholz from the GfG – Gesellschaft für Gerätebau (Machine Manufacturer's Association) has noted a strong demand for systems that transmit measurements by radio. Some of the largest markets here are industry and civil protection. Measurements made by the fire brigade could be transmitted to the control center during their deployment.



iNet Control internet-based application from Industrial Scientific: operate gas warning devices from any web browser.

### (Working) Daily Device Tests

The reduction of acceptable limits naturally makes monitoring safer, and the demands on sensors increase accordingly. Technology and standardization become aligned, step by step. The operator must regularly check that the devices are working correctly, even daily – the latter is becoming commonplace in ever more industries. And, as Stefan Denker adds, the trade associations and authorities are checking ever more often that this actually happens.

As this is becoming a strong trend generally and Europe-wide, it will be increasingly important for operators to carry out these checks properly and to document them. The documentation must be understandable and practical to fulfill. Test stations should be automatic if possible and test as many devices as possible at the same time. Increasing lack of time in the companies requires quicker software developments. The frequency of the tests also makes them an economic factor, as Stefan Denker explains: the test gas is not very cheap, in particular when we're talking about many hundreds of devices. For this reason, the developers in his company are trying to reduce the test times and the required amount of test gas.

Peter Osterholz from the GfG also sees a significant development trend towards cheap, mobile and simple to use test stations. His company supplies a device that stores the test results in the checked apparatus itself as well as on an SD card. This data can be transmitted to a PC via USB and remains there even if the gas warning device is lost.

### With Service in the Future

Many suppliers provide products of very high quality today, says Bernd Rist of Compur. There is much less a competition between the systems and quality as a price competition. At Compur they are therefore banking above all on on-site technical service and on precise clarification of the respective application and its requirements. "In principle, we sell with the screwdriver," says Bernd Rist. The price is no longer in the foreground if maintenance and service are quick and reliable.

That is confirmed by Frank Deinert of MSA Auer. His company has a large service department, distributed over three decentralized support locations in Germany, not least because the customers themselves are reducing the number of their own service staff. He sees a clear trend towards full service by the manufacturer.

A look to the future promises good things. Peter Osterholz of GfG still sees growth markets, for example in the field of biogas. He also notes, for example, an increased awareness of safety in Eastern Europe. Werner Tilling of Industrial Scientific meanwhile sees no drop in demand. In certain parts – such as India – there is even fantastic percentage growth, but he also sees growth in Germany. The financial crisis has been totally forgotten, at least in Europe.





Longer and more reliable operation under extreme environmental conditions: UltraSonic EX-5 ultrasound gas leakage detector from MSA.

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## HAND PROTECTION

# Glove Series with **Ultralight Duty** Cut-Resistant Glove

Ansell has added a new glove to its Hyflex series: the Hyflex 11-518. Providing wearers with a barehand-like sensation without compromising cut protection or performance, the ultralight glove is rated for EN Cut Level 3 protection, making it ideal for precision handling and assembly of sharp, dry, ultra-fine parts.

The ultralight duty style Hyflex 11-518 is the first glove in the market to combine the mechanical protection properties of EN Cut Level 3 - associated with heavier duty gloves - with a remarkably comfortable, cut-resistant and multipurpose 18 gauge style. Recently introduced, Dyneema Diamond Technology's soft, strong, cut-resistant yarn is applied using Ansell 3D knitting technologies and finished with a tough PU coating, to deliver EN Cut Level 3 and EN Abrasion Level 3 in a lightweight and breathable fit and feel. In field trials the 11-518 was preferred by nearly 70% of workers now using

heavier gloves for similar tasks, a comfort preference that correlates with compliance.

„Innovation is the hallmark of the Hyflex glove range legacy, and the first-to-market Hyflex 11-518 is the first of several additions we are making to this popular series to bring greater comfort and protection to workers around the world“, said Scott Corriveau, President of Ansell's Industrial Global Business Unit. The glove „emphasizes Ansell's commitment to better protect workers and to increase productivity within the workplace by offering a lightweight glove that maximizes dexterity, tactility and protection“.

### **Effective, Comfortable and Safe**

The glove enables workers around the world to do their job more effectively, more comfortably and more safely every day. The multipurpose Hyflex 11-518 has applications across indus-

tries including machinery and equipment, metal fabrication, electrical machinery, automotive & Automotive OEM, white goods, packaging, aerospace and transportation.

In the 15 years since its launch, the series has gained critical recognition and market share for its winning combination of ergonomic design, comfort and superior mechanical protection. Today, the range extends to 31 individual styles, ensuring that there is a glove that fits every worker's job performance requirements and comfort expectations.

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► The world market for security and fire prevention.

### Milipol 2012 Qatar

Date: October 08–10, 2012

Place: Qatar (DEC - Doha Exhibition Centre)

Website: [www.milipolqatar.com](http://www.milipolqatar.com)

► Every two years Milipol Qatar welcomes to Doha industry professionals from the Middle East, the Near East and Asia.

### SICUREZZA 2012

Date: November 07–09, 2012

Place: Milan

Website: [www.sicurezza.it](http://www.sicurezza.it)

► Biannual International Exhibition for Security in Italy.

### 5<sup>th</sup> Algeria Fire, Safety & Security Expo

Date: November 19–21, 2012

Place: Algiers, Algeria

Website: [www.new-fields.com](http://www.new-fields.com)

► The 5<sup>th</sup> AFSS Expo 2012 is the year's largest exhibition devoted to Algeria's fire, rescue, police, and emergency response sectors.

### IFSEC & OSH ARABIA 2012

Date: December 9–11, 2012

Place: Riyadh, Saudi Arabia

Website: [www.events.ubm.com](http://www.events.ubm.com)

► IFSEC & OSH Arabia will be held alongside and in partnership with the MOI's 15<sup>th</sup> International Conference and Exhibition for Industrial Security.

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