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Volume 7

Juni 2011

**GIT**

EMEA Edition

# SECURITY

MAGAZINE FOR SAFETY AND SECURITY

**4**



Video Management

Fire Protection

IP Camera Tests

Secure Identity

Security for Production Industry

**COVER: AxxonSoft Open Video Management Goes In-depth**

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**GIT VERLAG**

# Uncompromising Vision

Capture the details with  
AutoDome Junior HD camera from Bosch



**Meet the newest member of Bosch's AutoDome family: AutoDome Junior HD.** This rugged, compact 360-degree, 10x PTZ camera delivers high-definition imaging up to 1080p resolution – capturing every detail from facial features to small objects. The camera's sharp, clear video is an indispensable asset for monitoring financial transactions or keeping track of small, high-value items, and its heavy-duty housing is proven to outlast, delivering years of dependable operation. **See the full Bosch HD solutions portfolio, including moving and fixed cameras, software and recording platforms at [www.boschsecurity.com](http://www.boschsecurity.com)**



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# 50 Ways to Stay Secure

When Paul Simon wrote his song "50 Ways to Leave Your Lover" in 1975 after the divorce from his first wife, the song was meant as a humorous advice to a husband on ways to end a relationship: Just slip out the back, Jack / Make a new plan, Stan.

While attending IFSEC and Firex in Birmingham last month, one could get the impression that in order to run a safe and secure business, it is necessary to change one's habits completely to adopt new technology. I do not want to deny the fact that in some cases it is necessary to pull down old installations to find a proper solution to your security needs. But sometimes it makes more sense to talk to your partner in the industry about how a system can be modernized step-by-step. When you have a closer look at the interviews in the management section of this issue, you will find interesting examples for this approach.

There are "50 ways to stay secure" and a review of the new technology on the market **and** your processes might help. IATA for example was presenting the first mock-up of a Checkpoint of the Future to delegates at their Annual General Meeting in Singapore. Designed to enhance security while reducing queues and intrusive searches at airports, the main concepts are strengthened security by focusing resources where risk is greatest; supporting this risk-based approach by integrating passenger information into the checkpoint process; and maximizing throughput for the vast majority of travelers who are deemed to be low risk with no compromise on security levels. The Checkpoint of the Future ends the one-size-fits-all concept for security. Passengers approaching the checkpoint will be directed to one of three lanes: known traveler, normal, and enhanced security.

More examples for the diversity of solutions that all may lead to the same destination are the different approaches the industry undertakes to cope with low-light conditions and the performance of security cameras under these conditions. There were all kinds of solutions at the IFSEC: Traditionally light-sensitive analog cameras; IP cameras with significantly improved CCD and CMOS sensors, chipsets and processors; cameras with a dual sensor approach; and cameras using thermal imaging. You see, 50 ways to stay secure and 58 pages full of information for you in this issue...

Enjoy reading!

Heiko Baumgartner

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Home of Cricket Secured by Mirasys Recording Solution

**Test the Best!**

In Focus: Axis M 1104  
In Focus: Panasonic WV SP105

**ACCESS CONTROL**

**All Standards Combined**  
New Legic Reader Chip Generation Manages to Convince through Its Multi Standard Capability

**Data Exchange at Record Speed**  
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**CCTV**

**IP Video Management to Protect Patients**  
DVTel Chosen for World-renowned Children's Hospital

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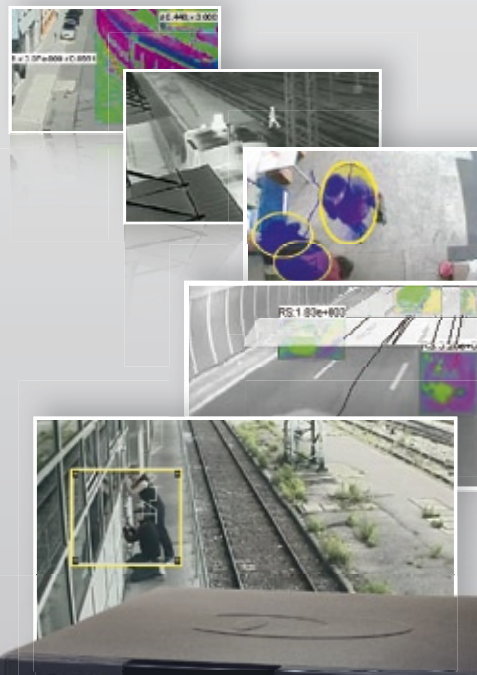
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### Expanding EMEA Activities

Arecont Vision has appointed four new sales representatives in Europe: **Waldemar Gollan** is the new Regional Sales Manager for Germany, Austria and Switzerland. He has represented global manufacturers offering advanced technology including NVRs, encoders, video analytics, video management solutions and unified video platforms for more than eight years. He previously worked in sales, product management and technical support in the IT networking market. **Bo Oerbjerg**, who will handle the Nordic region, was previously a business development manager for Mobotix. He has a background in IT technologies and experience developing business relationships in the Scandinavian countries of Denmark, Finland, Iceland, Norway and Sweden. **Marc Wesley** will be covering the UK and Ireland. With over 23 years of sales and management experience within the security industry, he joins the team after his previous positions at global security firms such as Pelco, Dedicated Micros and Norbain. He will be focusing on building new sales channels throughout the region while promoting the Company's multi-megapixel camera technology solutions. **Aleksey Berezin** will be the new Regional Sales Manager for Russia and other Commonwealth Independent States, as well as the Republic of Georgia. He joined the team in 2006, and over the past five years worked in the facilities management, IT and domestic sales departments. He currently acts as Manager of IT in addition to his new role.



Waldemar Gollan



Bo Oerbjerg



Marc Wesley



Aleksey Berezin

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

### Sony: Registered Partner Scheme

Sony Professional has announced a Registered Partner scheme as part of its newly developed Video Security Channel Partner Program, to offer a strong line up of tangible benefits to its new and existing installers, to help them drive their business forward. The program will introduce a tiered partner level approach, which will differentiate between partners to enable end-users to pick the right choice of partner. The Registered Partner scheme is the entry-level system for second tier installers to enable them to kick-start their security business. By joining the program, partners can capitalize on the strengths of Sony's products, systems, applications and leading HD & Hybrid technology. They enjoy the benefit of getting a preview of pre-released products, and they will be fast-tracked with product, technical and sales training, sales and marketing support, as well as attractive incentives.

[yu.kitamura@eu.sony.com](mailto:yu.kitamura@eu.sony.com)

### John Sayer to Lead Samsung's Project Support Team

John Sayer was appointed the Manager of Samsung's recently formed Project Support Team. He has worked within the electronic security industry for over 20 years, during which time he has performed product management and pre and post sales support roles whilst with Cardkey, Johnson Controls and Maxxess Systems. His understanding of IP network based security systems includes the design and implementation of video surveillance, access control, perimeter protection, intruder, fire, and BMS systems into fully integrated solutions. The Project Support Team will focus on the manufacturer's ability to harness the power of IP network based security solutions, whilst looking to increase the end-users' ROI by highlighting innovative ways the systems can be used for purposes other than security. [www.samsung.com](http://www.samsung.com)



### Iomniscient: CCTV Product of the Year

Iomniscient has won this year's Ifsec Award for the Best CCTV Product of the Year (excluding cameras and lens). The product was awarded for the company's Face Recognition in a Crowd Technology. Previously the manufacturer had won the same award for its IQ 180 Genius level product which can detect objects that are virtually invisible to the human eye. Ms Ivy Li, Co-founder and MD, said, "We are pleased to have been recognized by the judges for the Ifsec Award. We believe it recognizes our commitment to increase the technology gap between the company's products and those of all its competitors."

[marketing@iomniscient.com](mailto:marketing@iomniscient.com)

### Kaba Acquires E-Data

Kaba Group has acquired the business of E-Data, effective since end of May 2011. This company specializes in web-based appliance solutions that combine physical access control and time collection. Products include an integrated fingerprint biometrics module that is Fips 201 compliant, complementing Kaba's existing E-Plex products. E-Data employs 38 people and achieved a turnover of approximately CHF 6 million in 2010. With this acquisition, Kaba Group intends to increase market share globally in defined verticals, including the retail market. The parties have agreed not to disclose the purchase price.

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

### Siquira Integrates Agent Vi Video Analytics Technology

Siquira's single-channel IP video solutions are now capable of advanced video content analysis (VCA). Using analytics technology from Agent Vi, the company is able to offer a wide range of real-time detection and post-event video retrieval options, thus enhancing the efficiency and effectiveness of the surveillance solutions. By incorporating intelligent analytics technology, the solutions are enabled with a number of additional capabilities, including real-time detection of events relating to people, vehicles, and static objects. Additionally, the combined solutions make it possible to swiftly and effectively search stored video by event or specified parameters, enabling rapid retrieval of video footage and replacing time-consuming manual review.

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

### Fire Fighting Wins Fire Excellence Awards 2011

Fire Fighting Enterprises has won the International Achievement category of the Fire Excellence Awards 2011. The Fire Excellence Awards are held every two years, and serve to recognize the exceptional achievements of companies in the fire industry. The company reports growth in overseas sales of nearly 15%. The biggest growth market for the company has been in the USA, with sales of over £ 1 million (US\$ 1.6 million) there in the last year, resulting from a 30% per annum increase over the last two years. The American business became a focus for the FFE five years ago, when Bob Barker was appointed as a 'Country Manager' operating on the ground in the USA.

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

### Objectvideo and Mirasys Partner for Video Analysis

Objectvideo and Mirasys have entered into a patent license agreement. The licensee, Mirasys, is now able to sell network video recorders (NVRs) that include functionality covered by the licensor's patents, as well as certain video management software applications which are sold alongside NVRs as a part of an end-to-end surveillance solution. This worldwide, non-transferable, non-exclusive, royalty-bearing agreement allows Mirasys to offer more effective solutions to its customers while still complying with certain patents held by the licensor.

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

### Securitas: Thunman New Senior Vice President General Counsel

Åsa Thunman has been appointed Senior Vice President General Counsel. She succeeds Bengt Gustafson, who will remain in the company as Senior Vice President and Senior Advisor to Group Management. Since 2009, Åsa Thunman is Senior Legal Counsel in Securitas. Previously she was Executive Vice President Corporate Office of Elekta. She has a law degree from Uppsala University, Sweden, and a master in European Business Law from the University of Amsterdam, the Netherlands. Åsa Thunman takes up her duties on 1 July 2011.

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



### Genetec's Security Center Supports Bosch Control Panels

Genetec announced that Security Center 5.0, the latest version of their unified security platform, now supports Bosch G Series Control Panels for intrusion detection. With the aim of expanding the unification capabilities of the platform, the platform was released with native support of third-party intrusion panels; Bosch's GV2 and GV3 models are among the first systems supported. The integration offers users a single and easy-to-use platform from which to manage and monitor their video surveillance, access control and intrusion detection systems. Users can arm and disarm panels manually via the Security Center user interface, or automatically via scheduled tasks and in response to security events. Operators can also run reports to view alarm panels' events and alarms. Through Genetec's Federation feature, Bosch intrusion panels integrated within remote Security Center installations can be federated back to an organization's headquarters or central offices, allowing operators to run intrusion reports across dozens or hundreds of remote sites. [www.genetec.com](http://www.genetec.com)

### Associated Banc-Corp Selects March Networks Financial Solution

March Networks announced that Associated Banc-Corp has standardized on a March Networks Financial Solution for enhanced security across approximately 270 retail branch locations, multiple data centers and its corporate headquarters. The bank chose the solution for its scalability, ease-of-use and enterprise-class video management following extensive evaluations conducted by both the bank's security and IT groups. With more than 1 million customers and \$21 billion in assets, Associated is one of the 50 largest financial services institutions in the US. It is deploying March Networks Enterprise Service Manager (ESM) software and hundreds of 4000 C Series hybrid network video recorders (NVRs) working with certified solution provider Integrated Security Solutions (ISS). "Associated needed a surveillance system that it could manage cost-effectively from its operations center over its existing corporate network," said Joel Anders, Chief Operating Officer, ISS. "With the March Networks solution, staff can access video quickly from any remote location. The software is easy to use, so they can get up-to-speed without a lot of time spent in training." [mmeroni@marchnetworks.com](mailto:mmeroni@marchnetworks.com)

### Jalmari Vaissi Director of Sales for Basler IP Cameras

Basler Vision Technologies has appointed Jalmari Vaissi as the new director of sales for IP cameras in the EMEA region. His primary goal is to further expand the business and establish the manufacturer's products in the EMEA region. Jalmari Vaissi completed his master's degree at the University of Technology in Finland. This native Finn has been active in a variety of positions in the video security sector for over 10 years. In his new position, he will focus on realizing strategic sales targets. He will also be responsible for supporting key customer accounts as well as for the management of the European sales team. [www.baslerweb.com](http://www.baslerweb.com)



### Pelco: Hervé Fages Named Senior VP Global Product Marketing

Pelco by Schneider Electric announced that Hervé Fages has been promoted to the position of Senior Vice President, Global Product Marketing, for the Schneider Electric Buildings Business. Fages has been serving as Vice President, Global Product Marketing, Buildings Business, for one year, and was previously Pelco Chief Marketing Officer. In his new senior position, Fages is responsible for all global marketing activities for the Schneider Electric Buildings Business, including Product Management, Marketing & Communications, Trade Shows, and Training. Fages reports directly to Dean Meyer, Executive Vice President, Buildings Business. Additionally, Fages will act as the Site Executive for the Schneider Electric, Clovis, California facility. As such he will serve as the point of contact for the local community and will communicate on behalf of the business with its Clovis campus employees. [www.pelco.com](http://www.pelco.com)

### Sonderborg Kollegierne Installs IQinvision Cameras

Iqinvision announced that Sonderborg Kollegierne, a dormitory campus in Denmark, has initially installed approximately 75 Iqeye indoor and outdoor HD megapixel cameras to provide enhanced security for the students in residence. Necom is the integrator for this on-going project. The campus consists of seven accommodation halls open to students from various universities within the Sonderborg area. At this time, all seven accommodation halls are booked with approximately 900 students in residence. Campus authorities sought a video surveillance system to prevent and prosecute any thefts occurring during the day while students are studying at their university. The manufacturer's Sentinel cameras are located outside on the campus in key locations and the campus authorities have been very pleased with the wide coverage area and excellent image quality provided by the 5 MP cameras. [www.iqeye.com](http://www.iqeye.com)

### Traka Key Management for Guildford's Waste Collection Vehicles

Guildford Borough Council is using Traka's key management system. The Council's fleet of 44 waste collection vehicles is on the road from 5am every morning, picking up commercial and domestic refuse, items for recycling and green waste. Managing the movements of



the fleet is a difficult task and maximizing vehicle utilization is the key to its efficiency. To comply with the requirements of the Vehicle and Operator Services Agency (VOSA), Guildford Council must maintain strict records on vehicle maintenance; driver licensing and competence; and vehicle use and mileage. With about 25% of its driver workforce employed by agencies, responsibility and accountability for vehicle use has, in the past, been a particular challenge. "It's about risk management. We accept that accidents do happen," says Mick Tuffs, the Council's Fleet Administrator. "Even the best driver will occasionally clip a wall or a gatepost. But it makes life so much easier when accidents are reported – and now all our drivers know they can be identified with Traka, they are much more likely to report any misadventure." It's also important to ensure that drivers are only accessing keys to vehicles that are qualified and licensed to drive. Every key is locked in place and only authorized users are granted access – giving the Fleet Administrator control over who has access to keys and how many he can take. There is also an advanced key booking option to stop anyone taking a vehicle that has been reserved for service or repair. [mb@traka.com](mailto:mb@traka.com)

### Phihong Added to Videor Portfolio

Videor has added Phihong PoE solutions to its product range. "With Phihong we have found a strong partner in Power over Ethernet, a segment that is essential for networked security technology today. A large variety of midspans, splitters and extenders in different power levels, packing densities and housing shapes now enables us to offer our customers a complete range to meet nearly all their project requirements. With Phihong, the market leader in power supply technology, we have one of the PoE pioneers in our portfolio who is also extremely active in the standardization and development of the technology as a member of the IEEE Task Force," said Mathias Burkard, Product Manager at Videor. [www.videor.com](http://www.videor.com)

### Nedap Partners with First City Care

First City Care has become an official Business Partner of Nedap, following a significant year of growth in sales and new implementations of Nedap's security management platform Aeos in 2010. First City Care is installer of a variety of security and safety equipment covering electronic, technical and physical installations in both modern and historic office buildings in the City of London. "Our technical team undergo a continuing program of training and are always looking for new technology to benefit our customers," said Chris Richards, Managing Director at First City Care. "Nedap's security management platform Aeos offers us just that. It is used all over the world at airports, in banks and government buildings for its unique architecture." [www.nedap.com](http://www.nedap.com)

### Canon: Partnership with Ubizq

Canon Europe announced its partnership with Ubizq, a specialist distributor of security products and solutions. The companies will offer a complete network camera security solution for mid to high-end market segments – from design and installation, through to completion and on-going customer service. Ubizq will offer Canon's network security camera and software products in UK & Ireland and the company expects to see demand from all market sectors, particularly government, retail and transport. The partnership means that Ubizq will be able to offer customers Canon's entire range of network cameras that combine high quality lenses with highly detailed video capture. Ubizq has a team of specialist IT and security experts who tailor security networks to fit with an organization's existing infrastructure. By employing IT experts and then training them thoroughly in security, the company ensures that its customers get expertise and value from the services offered.



**Floris Oranje,**  
Business Development  
Manager, Canon Europe

[www.canon-europe.com](http://www.canon-europe.com)

### Biostream-Axsonsoft Inaugurates Regional HQ in Dubai

Biostream, a sister company of Axsonsoft, has opened its regional headquarters in Dubai to support its partners in the region. "We initially formed Dubai office in 2009 for the UAE, but now it will serve as a regional headquarters for the Middle East North Africa (MENA), South Asia and CIS countries," said CEO Dr Ateequr Rahaman Khan. The company will provide value-added customized products to the region. It is launching products like full body scanner, X-Ray Scanners, explosive detectors, face recognition, under vehicle scan, number plate recognition, safe city solutions, border security, perimeter security, underwater security and many integrated solution which will reduce system ownership cost and provides complete protection against all types of threats. The company is going to appoint partners in different regions and closely work with them to deliver innovative modern and latest technologies for each security market verticals.

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

### Ifsec Award for Dallmeier



Dallmeier's Camera technology Panomera wins the 2011 "CCTV Camera Equipment of the Year" Ifsec Security Award. The award honors the best products and innovations from the security technology sector launched over the course of the previous 12 months. The company's system won out against five competitors and convinced the jury, composed of chairman Alex Carmichael, Technical Director at BSIA (British Security Industry Association) and eight other high-ranking representatives from the British security industry. The awarded HD camera technology was specifically developed for the all-encompassing video surveillance of expansive areas. High widths as well as areas with large distances are displayed in a very high-resolution quality, with up to 51 megapixels in real time and at high frame rates of up to 30 fps. [info@dallmeier.com](mailto:info@dallmeier.com)

### Axsonsoft and Inmotion: Joint Development Agreement

Axsonsoft and Inmotion International have announced a worldwide joint development and distribution agreement. The two companies have combined their expertise to incorporate Axsonsoft's software platform across the entire line of Inmotions' video security offerings including the latest camera-, nDVR and IP-technology. "We believe that the unique Axxon platform really hits the sweet spot for today's security needs, incorporating the best features into a cost-effective scalable platform that provides differentiation in a very crowded market," said Kai Leuze, CEO at Inmotion. "Our partnership with Axxon allows us to create solutions that will dramatically cut installations time and costs, while giving our customers superior functionality to address their specific requirements." "Inmotion's new product range is highly innovative and will surely go down well in the market. In combination with our software we will be able to provide a solution package that will meet all customer needs," said Torsten Anstädt, Managing Director EMEA at Axsonsoft. [www.axsonsoft.com](http://www.axsonsoft.com)

### Jewelry Protection

An NVR 240 Plustek video server can help to protect, for example, a jewelry shop or other retail outlet, connected to megapixel cameras that cover window displays and sales areas. A software interface controls PTZ and the system can be set up for eight hours recording during business hours, with anomaly detection recording after business hours. The slim 320G HDD stores data for up to 15 days. In high value product outlets, the NDVR can integrate with an access control system with a push-button alarm to alert the local police station, giving immediate response to abnormal activities in the store. In addition, full backup and export scheduling can be made at a remote PC through the complimentary back-end Multi Manager. Customers and staff alike appreciate the increased security while a comprehensive video surveillance system is a great deterrent to potential shoplifters. [www.plustek.de](http://www.plustek.de)



### Tyco Appoints David Reif as VP of Business Development

David Reif has joined Tyco International's newly formed Enterprise Solutions organization as Vice President of Business Development, Oil, Gas and Refining. This initiative will focus on creating and delivering a range of solutions to customers from across the company's three core business platforms. David Reif joins Tyco from Emerson, where he held various leadership and management roles, including Vice President of Hydrocarbon Marketing and Sales in the Global Sales organization, and most recently as Vice President of Global Industry Marketing and Sales in the Process Systems and Solutions division. "David brings strong leadership skills and in-depth industry expertise to Tyco. He will play an integral role in developing and delivering integrated solutions to meet the needs of our customers in the oil and gas sector," said Jason Rabbino, Senior Vice President, Enterprise Solutions. [www.tyco.com](http://www.tyco.com)

### G4S Acquires Guidance Monitoring

G4S announced the acquisition by G4S Regional Management Limited of Broomco, a special purpose company which owns the offender monitoring technology operations of Guidance Limited and its subsidiary companies ("Guidance Monitoring"), an international supplier of offender monitoring technology to governments across the world. Guidance Monitoring was acquired from Malcolm Roberts, David Parry, John Potter, Russell Miles, Comvest and a number of employees of Guidance Monitoring and has gross assets of £10 million. Guidance Monitoring designs and manufactures a range of state-of-the-art electronic monitoring technologies, including hardware and software used for offender monitoring and tracking. This acquisition will further develop G4S's capability to deliver secure people-monitoring solutions to customers in both existing and new markets. [www.g4s.com](http://www.g4s.com)





It's the **all-in-one**  
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Our new MegaView™ Series Megapixel Cameras bring mainstream video surveillance applications clearly into view. Arecont Vision's all-in-one design combines the outstanding resolution of megapixel imaging with the efficiency of H.264 compression, IR LED Array Illumination with Day/Night operation for use in complete darkness, and weatherproof IP66 rated, vandal resistant bullet-style housings. Plus all the performance features you demand like programmable motion detection, privacy masking, unrestricted image cropping and so much more. Available in four sensor types, the MegaView™ Series cameras are made in the USA and include the 1.3-megapixel AV1325, 1080p AV2825, 3-megapixel AV3125 and 5-megapixel AV5125. They're the all-in-one megapixel solutions for all.

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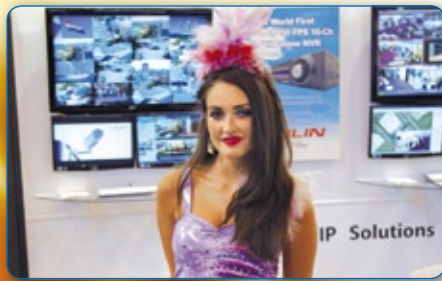
# Beautiful Show, Beautiful People

Ifsec, Firex and Safety & Health at Work 2011 – It's the People Making the Products

GIT SECURITY attended Birmingham's May shows: Ifsec, Firex and Safety & Health at Work 2011 – in order to find out what is hot and what are the next big things in safety and security. The shows will return to the NEC Birmingham on 14–17 May 2012. The main focus of GIT SECURITY was Ifsec showcasing 1,000's of new products and services from over 650 exhibitors. Featuring a free seminar programme and interactive features, it is a must-attend event for anyone involved in security. Whether you are responsible for installation or management of security systems or responsible for the security of an organisation, Ifsec was the complete security event. In this and in the upcoming issues we will write and report about the latest trends. Right here, right now you can take a look at some of the people at this year's show.









## INTERVIEW

# From Abba to Rammstein

## In Conversation with Dr. Magnus Ekerot, New Chief Sales Officer (CSO) of Mobotix

**More responsibility and more**

**influence – that was what**

**Dr. Magnus Ekerot, formerly Managing**

**Director at the Swedish display**

**manufacturer Beijer Electronics as**

**well as with Axis Communications,**

**was looking for. It was opportune**

**then that Dr. Ralf Hinkel of Mobotix**

**was on the lookout for a new CSO.**

**GIT SECURITY spoke with Dr. Magnus**

**Ekerot about the reasons for his move**

**and his plans with Mobotix.**

**GIT SECURITY:** Dr. Ekerot, we just have to start with the question of what drove you to take over responsibility at Mobotix after your time with Axis Communications and Beijer Electronics?

**M. Ekerot:** Yes, of course you can ask because the question is easy for me to answer. I wanted more responsibility. I was Managing Director with Beijer Electronics worldwide in an international listed company and was a member of the Board. At Axis I was Regional Manager for the German-speaking countries, the Netherlands and Eastern Europe. So it was an important personal step for me to move to Beijer Electronics. I didn't just want to be responsible for various regions but to actively influence a company. I was with Beijer for two years and didn't have any intention to move until Dr. Hinkel contacted me. He made me an offer to become CSO at Mobotix with the option of assuming the CEO position in the mid-term so that he himself could concentrate more on the research and technology side of the company. That sounded exciting, because I know the market and have a strategic and

international background through my previous activities. It was important that I would not join a company whose business and organizational structure was identical to one of my previous employers.

**What attracted you particularly of Mobotix?**

**M. Ekerot:** Above all it is the high level of innovation and the continuing large potential for the



Dr. Magnus Ekerot,  
Chief Sales Officer of  
Mobotix



growth of Mobotix that fascinated me. What attracts me is that not only IP video technology is considered but complete solutions and thereby an expansion in my area of activity is possible. In comparison to other competitors in the camera market, Mobotix is not just a pure manufacturer of cameras but a broadly-based system and software provider that has set numerous technological trends in the industry over recent years. The company founders, Dr. Ralf Hinkel, his management team and all the employees have achieved a great deal here. They have applied high-resolution and network-based video systems as well as their decentralized Hires Mobotix concept. And that is just the beginning. Besides the new technology approach and the parallel international expansion, the company has most recently managed to secure a new market segment in access control and IP door stations with its hemispheric camera technology. We expect further growth opportunities to arise in the coming years – in particular because the technology also permits the future integration of iPhone and iPad. There are therefore some challenging tasks ahead with which I want to apply myself.

**Music is one of your hobbies. If you were to compare Mobotix and Axis as if they were bands, which company is which band and why?**

**M. Ekerot:** That's a great question, one that I've asked for the first time actually, and it's also one which is pretty difficult to answer. I love music, although it's not easy to compare companies with music. But okay, let's take the nationality as a basis: Axis would then be comparable to Abba. Many people were and is wowed by Abba, the music is well composed, the group had and still has fans in many countries, it is still popular, they look good (or at least they did) –

just as it usually is in Sweden, to put it simply. Mobotix, on the other hand – and I'm exaggerating here somewhat – is more like Rammstein. It takes a while before everybody understands Rammstein. This band has its own music concept and fans that are totally convinced and are therefore very loyal. Rammstein is not yet so big, but ever more people understand their music, discover the unique concept that lies behind it and are then enthusiastic.

**You have been Chief Sales Officer on the Board of Mobotix since January 2011. What personal elements and what company philosophy have you brought with you in your opinion?**

**M. Ekerot:** For me, a company that functions well in all respects is important. The first few months were therefore dominated by listening and analyzing. Simultaneously I was able to become familiar with the technology of the company. And now – I believe – I have the foundation to move sales forward in the interests of Mobotix and to expand and make it even more efficient. My character and my competence, that I have now enhanced with company-specific I believe, fit very well together to bring the company further towards our vision and objectives. I am convinced that I harmonize well with the existing components here, and I mean that in spite of enormous growth and worldwide expansion, Mobotix has kept its entrepreneurial spirit and the advantages of a family-run company: there is a very open atmosphere here with flat hierarchies and decision-making processes; everybody is pulling in the same direction. From that point of view, the company philosophy is right for today and also for the future challenges that this successful publically listed company will meet.

**Can you see the first results?**

**M. Ekerot:** Oh yes, the results are definitely positive. The first months were characterized by many conversations held with the employees in development, production and sales as well as with our partners and end-users. I wanted to get integrated in the company structure and get an overview as quickly as possible. In addition I already visited eight national partner conferences worldwide in the first few months and was on site at numerous customer projects.

**Mobotix is "innovative technology motor of network camera technology". Once more for clarity and for all readers who are new to the subject: why do you think only the 'decentralized concept' enable high-definition video systems to be economic?**

**M. Ekerot:** Here I really do have to go into some background detail and also consider the market development. The video security industry has been going through a significant churn for some years now, initiated by demand for higher resolution when recording images. In contrast to digital cameras that already today have up to 15 megapixel resolution, most of the usual analog cameras that are based on a more than 50 year old television standard save their images with a resolution of only 0.1 megapixel. A modern mobile telephone, for example, with integrated megapixel camera can store 30 times more detail in the image than most of the security cameras that are in use worldwide. That all changed with the advent of network cameras – finally the image format was not dependent upon the method of transmission because, just like in the internet, small pictures as well as high-definition megapixel images can be transported over one and the same network cable. The significant advantage of

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network cameras therefore lay more in the ability to transmit images throughout the company or worldwide via the internet. But there was a catch with network cameras, however, because the images couldn't be transmitted raw but had to be compressed because of the limited bandwidth of the network. This was not rocket science with the compression chip in the camera, but the problems began at the other end of the cable at the PC: the video management software suddenly had to cope with an additional decoding load, which led to enormous computing times. What was simple for one camera became a growing problem for a dozen cameras so that only small images at low frame rates flickered on the PC monitors. It was common, for example in a casino, where the imaging had to be at 30 frames per second with 480 TV lines, for only two or four cameras to be displayed and controlled from each PC. So it's no surprise that this type of video recording was expensive and required large, costly servers.

**And that is where the decentralized concept comes into play?**

**M. Ekerot:** Right. To solve this problem, we apply a decentralized Mobotix concept that distributes the load between the cameras and the video management software. Each camera has a high-power processor and can be fitted with a digital long-term flash memory (micro SD-card) if required to make multiple day recordings. The PC or the video control center serves purely to observe and control the cameras (PTZ) but not to evaluate or record. This obviates the need for an overloaded and expensive video management software as the significant and computer-intensive functions are already contained in the Mobotix cameras. Ten times as many digital network cameras can be recorded on a PC with this system as with analog cameras, and that with a significantly higher resolution. In addition, bandwidth variations and network failures are bridged by buffering the video data in the camera. A further advantage: new megapixel systems are cheaper, because one single camera can cover a much wider area than an old analog camera because of its higher resolution. The decentralized system design in conjunction with higher resolution, intelligent software in the cameras and video management software for the PC together make Mobotix a system provider.

**Your company primarily manufactures megapixel cameras, but you've delved into a new market environment with your IP video door station. How does this market work for Mobotix?**

**M. Ekerot:** Mobotix uses the existing hemispherical technology with its in-house developed T24 IP video door station to get a foot into this new but closely-related market for access control and door stations. When the bell is rung, a connection

is made over the network to a VoIP telephone, PC or iPhone/iPad so that the door station can in principle be served from any location worldwide and the door opened. With the hemispherical door station, we provide a complete solution for the growing market of intelligent household control and building automation. The integration of iPhone and iPad will play a big role. I'm therefore convinced that the new product division will have a large part in the further growth of the company. Our partners and customers are definitely showing great interest. According to the data from various market research institutes, the expected growth of IP door stations for the next three to five years lies at more than 100%. I can remember that the prognosis for market growth of IP cameras in 2004/2005 was around 40%, which was already terrific. The new market gives us the ability to speak to new customer segments, such as electricians and installers, for example, as well as new end customers. I'm sure that we will sell more cameras this way as door station technology is also highlighted by the decentralized concept and fits perfectly in our total system.

**What are currently the biggest growth drivers at Mobotix? Which products are selling particularly well and which are gaining market share?**

**M. Ekerot:** Our current 'star' of the solutions palette is the hemispherical Q24 – an elegant, compact and weatherproof hi-res IP dome camera. A further growth product is a classic, the M12 camera. This dual camera with two separate hi-res image sensors has been sold worldwide more than 100,000 times. And of course, not to be forgotten, the M24 family. This is our economic, extremely powerful all-round camera and most suitable for starting out in video security.

**What important reference projects can you tell us about right now?**

**M. Ekerot:** Unfortunately we can't tell you about the largest projects, but I can tell you that we have reference projects worldwide with the most varied and interesting applications. One of our new customers, for example, is the Vatican. There our cameras survey the Vatican-Apostolic library. A further unusual application is the Donbass Arena, the first eastern European football stadium that meets the UEFA criteria for an elite stadium. The arena is an important venue for the European football championship next year. 528 high-resolution network cameras have everything in view. The video system will on the one hand enable the identification of all people during entry, their time in the stadium and when leaving. On the other hand it will be used to observe and control the flow of fans at the entrances and exits and the entry points to the stands.

**In your opinion, what will be the greatest challenge for Mobotix, but also for the security industry in general in the next few years?**

**M. Ekerot:** For Mobotix the challenge will be to maintain a controlled growth – and that through internationalization as well as the creation of new markets, such as has happened recently with our door station – but without neglecting our core business and our high quality standards. Because of the high demand for our products abroad, we will be further expanding, training and supporting our partner network. I have been surprised that the churn from analog to digital technology hasn't progressed further over the last two years. One of the most important challenges then for the entire security industry is in my opinion to finally throw the more than 50 year old analog video standard overboard. Then why don't traditional camera manufacturers also simply fit high-definition sensors in their video cameras? The answer is simple but unsatisfactory for end-users: because the fundamental video standard is 50 years old and the transmission of high-definition images is not possible over the video cable. In effect, an entire industry has been technically overwhelmed because surveillance that doesn't deliver sharp images is pointless. The discussion about the future of video surveillance should not just be about quantity, but also about quality. Just increasing the density of cameras at railway stations and airports will not bring the required result. An upgrade should also, and above all, mean a qualitatively improved video surveillance. This consequently means that the image quality of the systems will be further improved. This allows not only cost-effective solutions to be found but more suitable evidential images become available that can actually be used without limitation for identification of suspects.

**When will Magnus Ekerot be the sole CEO of Mobotix?**

**M. Ekerot:** Please, give me a chance, I've only been on board for six months. Dr. Ralf Hinkel remains Chief Executive Officer (CEO). He wishes however to gradually concentrate more on strategic product development and thereby to open up new markets for Mobotix. It is planned that he will hand over the tasks of the CEO in the mid-term.

**Dr. Ekerot, thank you for the conversation.**

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# GIT SECURITY AWARD 2011

## 2011 Winners

The Award Winners of the 2011 GIT SECURITY AWARDS



In the January 2011 edition we introduced you to the winning products of the 2011 GIT SECURITY AWARDS. Now we show you the people who, of course, are behind all these products, the people who invented, developed, made and marketed them. And you, dear reader, made these people very happy with your vote, so we're very pleased to pass their thanks on to you.



Klaus Hirzel (r) took the prize for the Variodyn D1 once more together with Novar employee Mounia El Maazi (l) at the 2011 voice alarm roadshow



Wonderful: here the whole department could celebrate winning the GIT SECURITY AWARD – the Dräger project team for the CPS 7900 protective suit. From left to right: Lars Wetzel, Gunnar Brors (with the trophy), Willi Meß, Kim Steingrube (with the certificate), Frank Schomacher, Florian Volkenand, Uschi Chrapkowski, Edmund Buchholz (far left and far right: Steffen Ebert and Roland Thomé from GIT)



Thrilled about the reader's choice and the award because the Alpha Emergency Manager has drawn so much attention: Joachim Bruyers (r) from Rosin Consulting Engineers with Steffen Ebert



Sven Objartel (center), CEO of Zweibrüder Optoelectronics, and Head of Marketing Annabelle Schleder won the award for the M7 torch



Since 2<sup>nd</sup> May 2011 companies can again submit products and solutions that will be judged during this year and may win the 2012 GIT SECURITY AWARD 2012 at the end of 2011/beginning of 2012.

The conditions of entry and an application form can be found at [www.PRO-4-PRO.com/go/GSA2012](http://www.PRO-4-PRO.com/go/GSA2012).



**Peter Bock** (l), one of the responsible product managers for Novar Esser at Honeywell receives the first prize for the Variodyn D1 voice alarm system



**Markus Meer** (2<sup>nd</sup> from left), **Frank Betsch** and **Markus Strübel**, wearing green ties in full conformance with Securiton CI guidelines, receive the second place prize from **Steffen Ebert** for SecuriFire



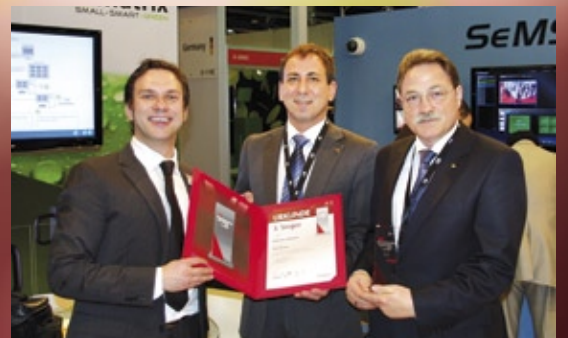
**Christian Rudolph** (r), Divisional Managing Director of the series winner Hekatron, hits the big time and celebrates winning the prize for the LRS 04 Ex ventilation smoke switch together with 'Hekatress' **Sandra Kyri**



Game, set and match: first place for CCTV for Axis Marketing Coordinator **Martine Billmann** (l), MEA Regional Director **Gilles Ortega** (center) and **Heiko Baumgartner**



**Martin-Harold Peters** (r) is proud of the prize for Panasonic's i-Pro SmartHD cameras, here in the picture with **Heiko Baumgartner**



Series winner: **Dieter Dallmeier** (r), founder and head of Dallmeier electronic, again receives a prize together with his Sales Director **Roland Feil** at the Intersec in Dubai – this time for the VideoNetBox



**Gabi Siedle**, CEO of Siedle, receives first prize in category D from **Heiko Baumgartner** for the Siedle Scope product



Proud winner at the Intersec in Dubai: **Lothar Moser** of Assa Aabloay (r) for the Ikon System Cliq Remote, here with **Steffen Ebert**



Bosch is also among the winners with the Alarm Platform 5000 – **Olaf Zeissig** (l) from Bosch Security Systems was also very pleased in Dubai at the Intersec show, here with **Heiko Baumgartner**

NETWORK VIDEO TECHNOLOGY

# Two Decades of Innovation

## The Development of Video Technology over the Last 20 Years



Ray Mauritsson,  
President & CEO of  
Axis Communications

**Axis and the Safety and Security publications of GIT are both successful prodigies of the nineties, sufficient reason for them both to take a look back at their roots – and also to risk a peek at the forthcoming decades. We spoke on this occasion with Ray Mauritsson, President & CEO of Axis Communications, one of the leading companies and pioneers in network video technology.**

**GIT SECURITY:** Mr Mauritsson, Axis and the GIT Safety and Security trade magazines are sort of contemporaries. If you think back 20 years, how did it all start with Axis camera technology?

**R. Mauritsson:** The network camera business of Axis was built up between 1993 and 1996 by Martin Gren. He had the idea to manufacture a network camera during a trip to Tokyo together with a potential customer. At the same time, the Axis engineer Carl-Axel Alm had the idea to construct a network-based video conference system. The two developed the ideas further and turned the concept into reality. Admittedly you

could not consider its performance as optimum when we brought the first network camera onto the market in 1996. It managed one image per second (fps) and needed 17 seconds to generate a single D1 snapshot. That was virtually useless for normal surveillance applications – but it did finally lead to success in remote surveillance, and we saw the opportunity for a video surveillance market of the future that, although it was completely analog, was definitely on the way to digitalization, like everything else today. Luckily the performance has improved today – way beyond what Martin or Carl-Axel could have predicted then. It's a fact that network cameras from Axis today deliver 30 fps in HDTV 1,080p resolution compared to just one fps at 0.1 Mpix 15 years ago. That's a 600 fold improvement.

**How and when did the fundamental IP-based technology platform of your products arrive, like the Etrax and Artpec chips?**

**R. Mauritsson:** The development of Asic already began at Axis in the late 80s with the Etrax family chip set that is used, above all, in our print server products. As the focus moved towards network video technology at the beginning of 2000, our Asic development planning brought the Etrax know-how together with network video-specific functions in our Artpec family.

**From your personal point of view, what were the most important technical sensations of the last two decades during the digitalization of video surveillance?**

**R. Mauritsson:** The most important was of course the arrival of the first network camera that we developed 15 years ago. Another early technical development was the digital video recorder that made it possible for an analog system to digitally record images. Power over Ethernet was a further important step because that is a cornerstone of the whole era of digitalization. Power over Ethernet enables network video products to receive data and power over just one Ethernet cable. PoE enables products like network cameras and video encoders to be installed in environments where traditional power cables and supplies are not available or would be difficult to install. Power over Ethernet provides a more simple, quick and cost-efficient solution than installing new power supplies and electricity cables. Another extremely important development is the improvement of image quality that digitalization has brought. It grew in the same dimensions as the image sensors became more sensitive and the number of readable pixels moved into the megapixel range.

**...right up to HDTV.**

**R. Mauritsson:** Correct. And the whole time there was no mention of HDTV. HDTV provides a resolution up to five times higher and with twice the number of TV lines than a conventional analog television image. The colors are true and the images are sharp, even if an object is moving quickly. We can now see how the video industry is following the TV market because the customers have recognized the potential of HDTV technology. I consider that the best performance



indicator: the demand. More than anything else, the picture quality can be extremely important for video surveillance because the ability to exactly identify someone, also whilst moving, is of central importance. Images in HD quality were however impracticable until H.264 compression came along. Thanks to this standard, video data files are up to 20 times smaller and the demand on bandwidth is correspondingly lower.

The use of thermal imaging technology for surveillance tasks was also an important innovation. This enables cameras to see in the dark – invaluable for areas with poor lighting that have to be watched. A whole world of opportunities arose with the introduction of intelligent video technology: a camera can now do far more than just monitor and record; it has become much more an interactive business tool. By utilizing intelligent applications such as movement sensors, people-counting functions and audio functions, the camera can be used for communication over the network and to raise alarms when something changes, for example when a lamp is switched on or off or a particular area is entered. Additionally, there's the surveillance of people's behavior, in stores for example.

#### What developments in other security fields have particularly impressed you?

**R. Mauritsson:** Compared to other industry sectors, the technology change didn't come as quickly as I had expected. The risks that an organization is confronted with today have never been more complicated. Companies expect – and need – more from the security function. Development in security must therefore move ahead quickly in order to keep pace. An interesting area where we have noted a big change is access control. This includes the integration of a video management system in the access con-

trol system of a building to document entry into buildings and rooms with video recordings. The access control market doesn't yet use IP networks to the fullest extent – a lot could still be done here. One example is the use of tracking systems to follow objects with the help of RFID technology. This is used at airports for items of baggage: you can follow them wherever they are and ensure that they are brought to the right destination. If this is coupled to video surveillance, the authorities have visual proof where baggage items get lost or are damaged – the result is a very efficient search procedure. Biometrics are becoming exciting for the security market in general. Face recognition, for example, will make a great contribution to crime prevention.

#### Let's jump ahead a decade into the future: which technical, product-related visions can you imagine in the year 2021?

**R. Mauritsson:** Above all, standardization. It has been important to a large extent in all branches of industry for the spreading of new technologies. Supporting good standards leads to simpler manageability – that is one of the reasons why analog video technology remained dominant for so long. And innovations are encouraged by the distribution of knowledge. We can therefore expect the tempo of technical progress to continue to grow. I believe that Onvif will be the dominating standard in network video. Although the image quality has improved considerably, still more can be attained. In the last fifteen years, the most improvement has happened in definition and the refresh rate. In the future, performance improvements will concentrate on image processing. I expect that this will enable an average surveillance camera to be able to see more than the human eye. Thermal imaging technology

will gain significant importance in the next ten years. Everybody wants the lowest possible Lux rating for his camera – how about zero? Thermal imaging is still a niche market today, mostly for military and government applications. But if the price of network thermal cameras sinks we can expect a large number of new applications to appear.

#### How does analysis technology look?

**R. Mauritsson:** Video analysis will also serve wider applications, and that will improve the efficiency of the systems. In addition – a look at all the other sectors confirms this – the security market will be further digitized. I would say that network video systems will completely dominate the market by 2020 – this will include more than 80 % of cameras sold. After all, network video technology is positioned to fully revolutionize the design of surveillance systems. We will see improvements in installation that will make it easier; there will be more installation options available and more pan/tilt cameras. And personnel will be trained in the use of mobile devices that are connected to the cameras – and that in turn will provide greater efficiency.

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

#### ► CONTACT

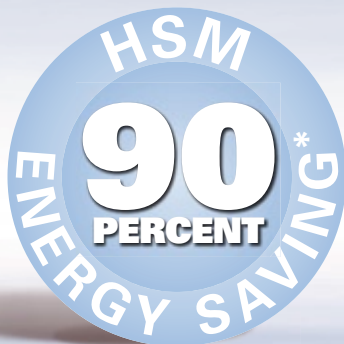
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## INTERVIEW

# Intelligent Answers to Burning Questions

## Siemens Building Technologies Develops Integrated Solutions for Its Customers

**Matthias Rebellius has led as CEO the Fire Safety & Security Products Business Unit at Siemens Building Technologies for the past three years. During a visit to the international company headquarters in Zug, Switzerland, Heiko Baumgartner talked with Matthias Rebellius for GIT SECURITY about the trends in building security and fire protection technology and the Siemens products for this industry.**

**GIT SECURITY: The Siemens One concept assigns one point of contact for your customers. Can you explain the set-up of Siemens One?**

**M. Rebellius:** Siemens One is not an independent business unit but a sales organization that works across all sectors. It is supported by our CEO, Peter Löscher, and the head of the Industry sector, Siegfried Russwurm. Our business units are represented within this structure by Siemens Corporate Account Managers who are highly familiar with the whole business. The Corporate Account Managers ensure that our customers have a central contact person for the entire Siemens product range, across all divisions and sectors. Their contact persons are all at management level.

**How are Corporate Account Managers assigned to the projects?**

**M. Rebellius:** Which expert from the Siemens One organization will be assigned to the project organization is decided during new customer project meetings. The Account Managers must work as an integrated team and also look left and right, whereby the proximity to the customer has priority over technology and solutions.

**Can you say something about vertical markets?**

**M. Rebellius:** One example of a vertical market that we manage in the Fire Safety Business Unit is the hotel market, for which I have the business lead. As we have a deep understanding of the processes of our hotel customers, we are able to deliver solutions to our Corporate Account Managers that are tailored to the needs of hotels. The security and safety of hotel guests is a very important subject, not least because of legal requirements. Meeting legal obligations alone, however, does not necessarily provide advantages for the business processes of hotel operators. Benefits can be optimized through an effective combination of the security and fire protection systems with an integrated building automation system. This is what we call "Total Building Solutions". Take, for example, the current information devices in hotel rooms, such as the TV screen which already performs a variety of functions like greeting guests and providing TV and radio programs as well as internet access. This device could also be integrated into the overall system so that it displays important messages in the event of a mass evacuation. This way there is no need to look for the evacuation plan in an emergency. Intelligent escape route control with lights also helps the evacuation process.

**How is business developing in the residential market?**

**M. Rebellius:** Changes in the standards mean that both new and older buildings now have to be fitted with smoke detectors. In most cases this is simple technology that has not been in our focus so far.

**Could you tell us something about the role of voice alarms for building security?**

**M. Rebellius:** Voice alarms will form an even more important element of security systems in the future. The characteristics depend on the type of building and its particular usage. A general voice alarm, for example, is not suitable for a hospital; hospitals require intelligent evacuation systems, which apply a staged evacuation



concept that clears floors or rooms. The evacuation is initiated at various information levels via a local 'Command & Control Solution' and is continuously tracked. This way the evacuation procedure is clearly tracked in case liability issues arise later. The US market is at the forefront of liability questions. It is particularly important, for example, to provide active support to the crisis team on large university campuses in the US. Good mass voice alarm systems are key where threats of fire or guns exist. These are important components of 'Intelligent Response' solutions for intelligent emergency situations.

**Is 'Intelligent Response' used for all vertical markets?**

**M. Rebellius:** Yes, it can be incorporated into virtually all security concepts. Our portfolio provides the necessary functionality. We combine this functionality of intelligent response solutions with our solution and application competence for our end-customers. .

**Siemens supports the 'best-of-breed' approach. How does this affect integrated solutions?**

**M. Rebellius:** Tenders often take multiple suppliers into account. Our aim is always to find the best possible combination of all components, which is why we apply the BACNet standards and Ethernet. The security solutions also fea-





Matthias Rebellius, CEO Business Unit Fire Safety & Security Products at Siemens Building Technologies

ture open interfaces and integration ability. Of course, we are happiest when our own products are used to the fullest extent.

#### How do you view the growing together of different sub-components into one solution?

**M. Rebellius:** We see a merging of fire protection, access control and burglar alarm systems. We are able to provide our customers with the best solution for his needs thanks to the integration capability and openness of the systems. The Siemens Management System forms the bridge for this integration. Our MM8000 Danger Management Station can, for example, be used just as well for smaller requirements as it can be used at the core of multiple locations. And, to return to the hotel example, the reservation or room management system can also be incorporated alongside the fire alarm and access control system.

#### Does integration only happen at management level?

**M. Rebellius:** No, integration also happens at controller level. With the field bus, for example, video technology can be integrated into the loop of the fire alarm equipment and displayed on the fire brigade panel. This enables us to provide a ‚pre-recording‘ of the fire situation that can give the response personnel valuable information early on. The Ethernet-based network and

comprehensive use of IP technology guarantee the highest security, availability and redundancy through a cluster backbone architecture that complies with EN 54 and can be connected to up to 64 central controllers.

#### What trends do you see with fire detectors?

**Rebellius:** Wireless fire alarms systems are becoming increasingly popular. We invest large amounts in the research and development of such systems and the next generation of fire detectors. We are able to give our customers a genuine alarm guarantee because of the high quality level of our detectors, which are based on ASAt technology. Additional sensors can hardly beat such a high level performance. This is why we see the trends in fire detectors more in terms of a combination of fire and life safety, such as turbo isolators in the loop or CO sensors. The development of fire detectors will concentrate on the normal generation change and adjusting to new technology.

#### What do chemical sensors offer?

**M. Rebellius:** Chemical sensors can also be helpful for pure fire detection when one needs to find out what is burning or how a fire started, for example with a fire accelerator. Chemical sensors also help in the analysis. In general, the most important aspects in the development of fire detectors are protection against false alarms

and the reaction time – that’s where future development will focus on.

#### You mentioned wireless fire alarms technology. Tell us more.

**M. Rebellius:** We will soon be introducing Sinteso Swing. In contrast to the wired Sinteso fire detectors with ASAt technology, Sinteso Swing also utilizes mesh network technology. Routing over the wireless alarm point happens in real time. This, together with the wireless solution architecture increases the engineering availability and flexibility enormously. Sinteso Swing is currently being certified to EN 5425.

Wireless fire detector technology could soon come out of its niche positioning and develop into a large market. I don’t think however that it will be a mass market and don’t expect it to develop into a 100% replacement for wired systems. I also see hybrid solutions that will accommodate high urbanization and population density in towns. For example in housing blocks or shopping centers, radio systems could be integrated into existing cabled systems for flexible usage areas. Cabling is often very difficult in historic buildings, where wireless technology is a great advantage.

#### What other trends can you identify?

**M. Rebellius:** A very important point is that we secure our customer’s investment for the long-term. A sustainable modernization and migration strategy contributes to this and is provided by Sinteso Move. A fire alarm system can be modernized step-by-step with this migration concept and thus ensures the security of investment. We have been active in fire protection for 160 years: some systems have already been in operation for 30 years. Backwards compatibility is not just a feature here but the basis for a long-term customer relationship that is built on trust.

**Mr Rebellius, thank you for this conversation.**

## ▶ CONTACT

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## FIRE DETECTION

# Three Cheers for New Fire Detection

## Hochiki Europe Enhances Life Safety at Dutch Glass Factory

**Located in the Dutch province of South Holland, the Schiedam region became internationally known in the 18<sup>th</sup> and 19<sup>th</sup> centuries as one of the world's foremost producers of jenever. Not surprisingly, with an abundance of distilleries in the city there was a demand for glass bottles, and glass factories soon started to spring up. This industry is still thriving today and the O-I glass plant, based in Schiedam, manufactures glass packaging for the food and beverage industry at home and abroad.**

Bottle opener: O-I is Schiedam's original glass factory and was founded by Jacobus Sirks at the Buitenhavenweg in 1854. By the 1910s the factory entered a new era when mechanisation marked the beginning of automatic production and, as business boomed, it became one of the main employers in the city. After various changes of ownership during the intervening years, O-I took over the factory in 2004.

Over 150 years since the factory first opened, glass production is still a key part of life in Schiedam and a wide variety of bottles are now made there, with customers able to design their own shapes and styles. The factory also maintains close links with the city and every two years the residents of Schiedam are invited in to take a tour of the plant.

Safety is a priority for O-I. The factory recently replaced its fire detection system with a state-of-the-art solution to ensure that staff and visitors have the best level of protection.

### New and Improved

Fire Products & Solutions Nederland (FSN) acted as the supply, design and commissioning consultant on the project. It was appointed to

oversee the installation of the new fire detection system in the factory's production area, administrative offices, canteen and visitor centre.

Ruud Benjamins, FSN's manager, explains: "Once we had planned and designed the installation we had no hesitation in suggesting the use of Hochiki's products due to their extensive range, proven reliability and excellent support service. We knew that Hochiki would act as a one-stop-shop for all of the glass factory's fire detection requirements."

FSN selected an intelligent analogue addressable system based around Hochiki's Enhanced Systems Protocol (ESP). Stuart Davies, Hochiki's Marketing Manager, adds: "ESP is a total communications solution for intelligent fire detection and fully integrated systems. It has a multi-purpose structure that provides the flexibility and expansion to accommodate simple addressable systems through to sophisticated integrated building management and safety systems."

### A Glass Act

FSN selected its preferred installation partner, Rotterdam based JJ Hendriks & Zoon, to carry



out the work at the factory, which began in July 2009 and finished at the end of 2010. The installation had to be carried out around the factory's normal daytime operations, which often meant working out of hours and at weekends.

### Production Lines

A wide variety of Hochiki products were used including HCP-E call points and CHQ-WS2 base sounders, which were configured over four inter-linked systems. Hochiki ALG-EN optical smoke sensors were also installed which feature the company's High Performance Chamber Technology. Hochiki's chamber design minimises the differences in sensitivity experienced in flaming and smouldering fires, such as those that can occur in factories. The result is a high performance optical chamber that is equally responsive to all smoke types and helps to reduce the possibility of unwanted alarms.

Using this combination of products enabled FSN to configure a system which protects all areas of the building and provides the earliest possible warning in the event of a fire.

In the security room personnel are alerted when the fire detection system is activated and the security staff can directly communicate with the fire brigade and send them to the correct building."

### Problem Solving

For factories, unwanted alarms are a serious problem and can be particularly disruptive, so it was crucial to minimise the possibility of this happening. Ruud Benjamins comments: "We are pleased to report that there have been no unwanted alarms since the installation was completed and this can be put down to a combination of best practice and the quality of the products used. We will be making sure that the system is checked and maintained on a regular basis to make sure things stay this way."

### Looking Ahead

The new fire detection system has given O-I's Schiedam plant the most up-to-date life safety infrastructure possible. O-I's General Service & Safety Manager, Sjaak Brunt, is delighted with the finished result and concludes: "The combined talents of FSN and JJ Hendriks & Zoon have provided the glass factory with a fire detection system which befits a building of its stature and importance. We want our staff and visitors to be safe here and the Hochiki solution that has been installed gives me confidence that they will be."

## ▶ CONTACT

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### Residential and Commercial

At this year's Ifsec Honeywell Security Group promoted its spectrum of security solutions that protect people, possessions and assets at small and large commercial sites and residential sites. Additional third party solutions that integrate with the manufacturer's solutions were also demonstrated. Galaxy Flex is an intruder solution for small businesses; the NetAXS-123 is a stand-alone access control solution with systems starting at one, two or three doors. Both are designed as solutions for smaller sites such as offices, restaurants, medical centres or pharmacies. Also on show was the Performance range of competitively priced cameras and digital video recorders (DVRs) as well as wireless sensors. For larger commercial sites the company presented Galaxy Dimension, Maxpro VMS, Fusion and Win-Pak – alongside NVR offerings and the Equip series of high definition H.264 IP cameras. Also for end users with large sites that want to manage and integrate multiple hazard detection systems on a single PC platform, the company's Winmag alarm management system was on display. [www.honeywell.com/security/uk](http://www.honeywell.com/security/uk)

### Security Entrance Lane

Automatic Systems introduces a new security entrance lane: "Slimlane" is a double swing door security entrance lane with a streamlined and elegant appearance, combining a high bidirectional throughput (60 users/minute) with advanced user protection while providing a minimal footprint. With its modern, unassuming design it is suited to any type of interior architecture such as office buildings, head offices, banks as well as administrative and sensitive sites. The security entrance lane integrates a high-performance detection system based on a matrix of infrared beams preventing unauthorized use and electromechanical locking to withstand forced entry attempts. The system also includes audible and visual signals to indicate unauthorized usage. Meticulous attention was paid to user protection with integrated functionalities such as dynamic electronic user protection, based on traffic direction, an anti-panic operating mode meeting the highest fire safety standards, a device to prevent finger entrapment and extrinsic battery operated opening in case of power failure. [www.automatic-systems.com](http://www.automatic-systems.com)

### EN-54-24 Approval

Toa's VX-2000 Voice Evacuation System has been given the EN54-24 loudspeaker system certification. "As the first manufacturer to offer a total solution for EN54-certified voice evacuation systems, Toa continues to gain certification for additional products in its range, the latest of which is the VX-2000 Voice Evacuation System," said Brett Downing, the company's Sales and Marketing Director. "Our track record in supporting and embracing these new standards has been widely appreciated by our partners who have already designed and installed systems with these new standards in mind. We now have systems that meet the new standards in locations as varied as Headingley cricket ground UK, Brussels Expo, the O2 Arena in London." [brett.downing@toa.co.uk](mailto:brett.downing@toa.co.uk)

### Remote Master Key Management

During Ifsec exhibition in Birmingham Iloq introduced latest product news of its locking technology based on environmentally-friendly battery- and cable-free lock cylinders powered by the insertion of the manufacturer's battery-free digital Iloq key. The Key Replacement Feature of the Iloq S10 locking system enables remote access management including lost key elimination simply by handing out a new key – locks do not need to be replaced if a key is lost. New keys can be programmed remotely and sent to the user, and when the new key is inserted for the first time, previous keys are invalid. Furthermore the Company introduced the Network Expansion 1-2-3 solution for completely remote management of master key and access management applications. The off-line operating S10 locking system can be expanded with wired Network Modules enabling direct communication of the administrators with critical lock as well as managing key updates remotely. Level 2 of the Network Expansion Solution includes the connection of a Key Programming Hotspot to a Network Module. Level 3 enables remote management of door locks. Up to six wired cylinders can be connected to the Network Module. Via the Network Module the administrators is able to blacklist lost keys and to read key insertion audit trails over the network. Furthermore it is possible to define calendar based door time control, e.g. at main entrances equipped with motor locks. [michael.szucs@iloq.com](mailto:michael.szucs@iloq.com)

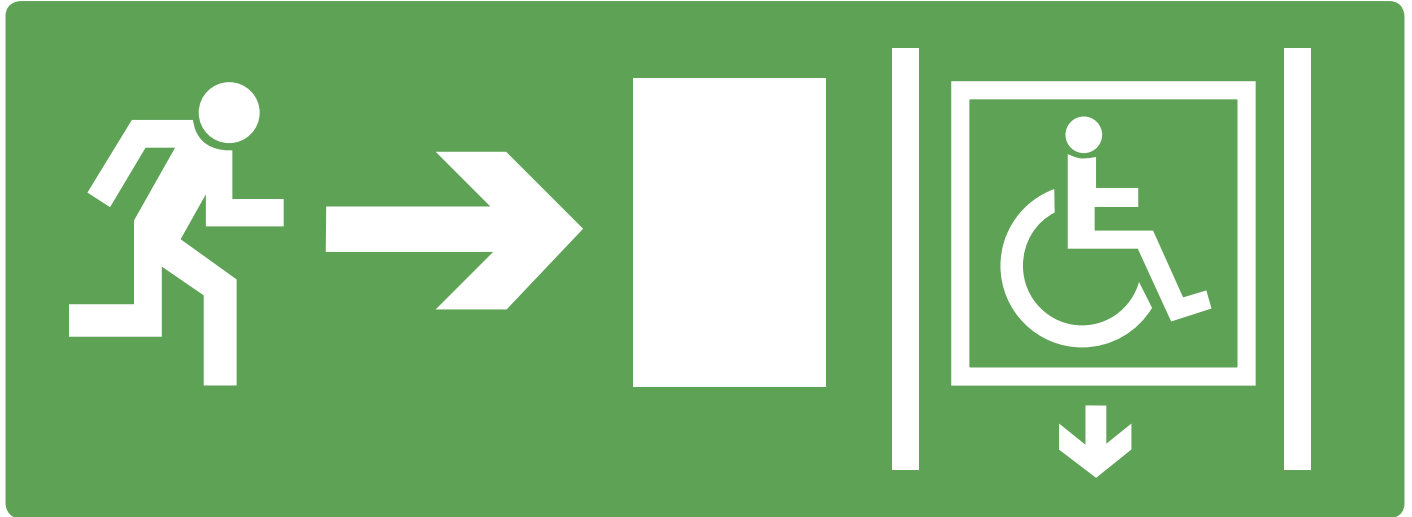
### Call Points

At this year's International Firex in Birmingham KAC showcased its expanded range of products to cater for specialist applications. This included a new version of the MCP range of break glass, push button and resettable indoor call points, which conforms to the requirements of EN12101-9 for smoke vent control applications. Other products within the specialist range include MED approved call points for marine environments and products that operate at 230VAC mains voltage. Also on display was the Company's IP67 sealed WCP, suited for installation in harsh environments and for the first time at Firex, an ATEX approved intrinsically Safe WCP. As part of the company's commitment to AV the manufacturer was also launching a modular range of addressable Audible Visual warning devices at the event. The range includes a common base across AV and detectors and the latest System Sensor digital Advanced Protocol, designed to reduce installation time and costs. Mark Thomson, Marketing Development Manager, said: "This is an important year for KAC at Firex. It gives us an opportunity to show that we continue to drive the market after 40 years, expanding our product range and supporting businesses with product approvals and supply chain efficiencies, whilst making life easier for the installer. It's been a difficult economic climate for all industries, let alone the fire industry, but the outlook is very encouraging." [sales@kac.co.uk](mailto:sales@kac.co.uk)

## FIRE PROTECTION

# Evacuation Lifts

## Future Solutions for High-Rise Buildings



**Evacuation of multistorey buildings in the event of fire is effected today almost exclusively via stairwells. However, the attack on the World Trade Center in New York in 2001 showed that there is a need for alternative evacuation paths when mass evacuation of buildings with many storeys is needed. This has increased interest in evacuation lifts (elevators) capable of providing the capacity needed to evacuate high buildings.**

Evacuation via staircases is not ideal in very high buildings, partly due to the long time required, and partly due to the fact that the number and size of the necessary stairwells would take far too much space. As a result, the number of buildings depending partly or entirely on evacuation lifts for safe evacuation is increasing.

As interest in evacuation lifts increases, so also does an increasing number of applications appear. In Sweden, evacuation of persons with restricted mobility, for example, has been the subject of considerable discussion, as alternative solutions involving safe refuge areas or evacuation with the help of the fire and rescue services does not promote a sense of security. The Swedish Parliament building in Stockholm uses an evacuation lift in order to provide persons with limited mobility with a means of starting to evacuate the building in an emergency situation without the help of others. Several buildings using evacuation lifts are today under construction in Sweden.

### Reluctance to Use Lifts Is a Problem

The arguments that have previously been applied against the use of evacuation lifts have hitherto been concerned with problems associated with technical systems and uncertainty as to whether the lifts would actually be used. Technical systems to make the use of lifts for evacuation safe are now available in such forms as pressurising lift lobbies and lift shafts, protection of electronic equipment against heat and moisture, and the provision of comprehensive information systems for monitoring and communication. The question as to how willing building occupants would be to use lifts as an evacuation path is still somewhat uncertain, as there are still no reference cases from real situations. However, earlier incidents that have involved the evacuation, or attempted evacuation, of persons via ordinary lifts indicate that, if properly supported by information to those using them, evacuation lifts could be seen as an alternative to the use of stairs in an emergency situation. Existing research also indicates that willingness to use evacuation lifts increases with increasing height in the building.

### Need for Guidelines and Regulations

Current Swedish regulations do not include any guidelines or rules governing evacuation by lifts, nor any specifications for the design of an emergency evacuation lift or even when such a solution could be appropriate. This means that each case has to be considered individually using analytical design. This results in high costs, and can take a long time.

There is a great need for training in this area, not only of consultants but also of authorities involved. Determining the necessary capacity

of an evacuation solution that involves the use of lifts is particularly important if such use is intended to replace stairwells as an evacuation path. More than one lift may be needed for such an application, and there is a major need for integral system redundancy.

### Evacuation Lifts Represent the Future

Evacuation lifts have several advantages in comparison with stairwells, such as when evacuating very high and/or specially designed buildings in which stairwells are not suitable. They can also considerably improve the situation for persons with reduced mobility.

If evacuation lifts are to become an accepted and reliable means of evacuation, it is most important that the necessary competences should be developed, particularly before regulations and guidelines for determining capacities are produced. It is my personal conviction that, within a few decades, evacuation lifts will be regarded as equally obvious as the provision of stairwells in higher buildings, and that we can learn the benefits of using lifts for emergency evacuation.

This article is based on a graduation project by Mattias Arnqvist and Jonas Olsson as part of their work in the Faculty of Fire Engineering at Lund Institute of Technology. Since April, Mattias has been employed by SP Fire Technology.

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## CCTV IN HOLLYWOOD

# Blockbuster Cinema

## Dallmeier Appears in Hollywood Film "Unknown"



Dallmeier fan: Diane Kruger

**Who wouldn't give their eye teeth to appear in a Hollywood blockbuster. Now, Dallmeier has managed to do just that: the Regensburg-based manufacturer of video surveillance solutions is now appearing in the film "Unknown".**

"Unknown" is a gripping thriller reminiscent of the Bourne trilogy. During a business trip to Berlin, scientist Dr Martin Harris is involved in a bad car accident. When he wakes up from a coma after four days, everything has changed: another man has assumed Harris' identity. Not even his wife recognises him. Harris begins to doubt his sanity. However, when he is hunted by an unscrupulous killer, he feels certain to be the victim of a conspiracy. Together with taxi driver Gina, who rescued him after the accident, Harris fights to regain his former life.

### Diane Kruger and Liam Neeson

Alongside prominent Hollywood stars like Liam Neeson as Dr Martin Harris and Diane Kruger as Gina, a "star" from Regensburg is also featured in the film: Dallmeier. Several of the film's scenes take place at the security control centre of the Hotel Adlon. In order to make the setting as realistic as possible and interesting for filming, the film crew needed state-of-the-art technology, including cameras, digital recorders, control consoles and monitors with related software. To meet this need, they approached Dallmeier, who provided the products they required.

### Bernhard Henrich, Thomas Dallmeier and Georg Martin

Shooting for the film took place on location in Berlin and Potsdam, as well as at the Studio Babelsberg film studio with the working title "Unknown White Male". Dallmeier's Sales Manager Thomas Dallmeier and Marketing Director Georg Martin worked with set decorator Bernhard Henrich (Comedian Harmonists, The Bourne Conspiracy, etc.) on the set in order to properly equip the backdrops of the security control room

for the film. Since several of the film's scenes take place in this security room, Dallmeier products and the company logo are featured prominently. If you haven't seen the film yet, be sure to go to the cinema soon and count how many Dallmeier logos you see on the big screen!

### About Dallmeier

Dallmeier has more than 25 years of experience in transmission, recording and picture processing technology and is an outstanding pioneer of CCTV/IP solutions worldwide. Profound knowledge is used in the development of intelligent software and the production of high-quality recorder- and camera technologies. It enables Dallmeier to offer not only stand-alone systems but also complete network solutions up to large-scale projects with perfectly coordinated components.

From the very beginning the company always focused on its own innovative developments and highest quality and reliability. Dallmeier develops and manufactures all components on its own. This includes the entire product range, from cameras to picture storage and transmission to intelligent video analysis and even individually adjusted management systems. Quality made by Dallmeier, made in Germany. This and the extensive experience in the CCTV and IP field have led to a top position in the international market for digital video surveillance systems.

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### Thermal Imaging Cameras



Flir Systems has expanded its product range of 640 x 480 pixels thermal imaging cameras. Thermal images of 640 x 480 pixels mean a four times better image quality compared to 320 x 240 pixels. More pixels allow the user to see more detail and detect more and smaller objects from a further distance. The cameras also work more efficiently with video analytics. A thermal imaging camera equipped with a detector producing 640 x 480 pixels will not only detect potential targets at a longer distance, it also has a wider field of view compared to a thermal imaging camera producing 320 x 240 pixels thermal images that is equipped with a lens with the same focal length. This means that the user will not only detect potential targets earlier but also that he will increase his situational awareness when using a thermal imaging camera with a 640 x 480 pixels detector. [www.flir.com](http://www.flir.com)

### Light Sensitive Surveillance Camera



Axis Communications introduces an outstanding fixed network camera based on the manufacturer's Lightfinder technology. Axis Q1602/-E Network Cameras are the perfect solutions for indoor and outdoor surveillance in low-light conditions, especially where users require colour information in the video to enhance recognition and identification of objects. Lightfinder technology allows fixed network cameras to reach a very high level of image performance in difficult light conditions," says Erik Frännlid, Director of Product Management. The technology makes the cameras highly sensitive to low light, effectively allowing the camera to "see" even in dark conditions. The fixed network camera delivers progressive scan image quality at D1 (720 x 576) resolution, in both indoor and outdoor applications, where light is poor. The technology will be especially beneficial in demanding video surveillance applications, such as construction sites, parking lots, perimeter, and city surveillance. In contrast to conventional day/night cameras that switch to black and white in darkness, the camera can maintain colors even in very dark conditions. [www.axis.com](http://www.axis.com)

## COVER STORY

# Open Video Management Goes In-depth

## ONVIF Compliance Is Not Enough to Integrate High End Camera Functionalities

**ONVIF is the right way forward for the video surveillance field, but it is becoming increasingly important for engineers and camera manufacturers to find an open video management platform which can fully integrate cameras with special functions.**

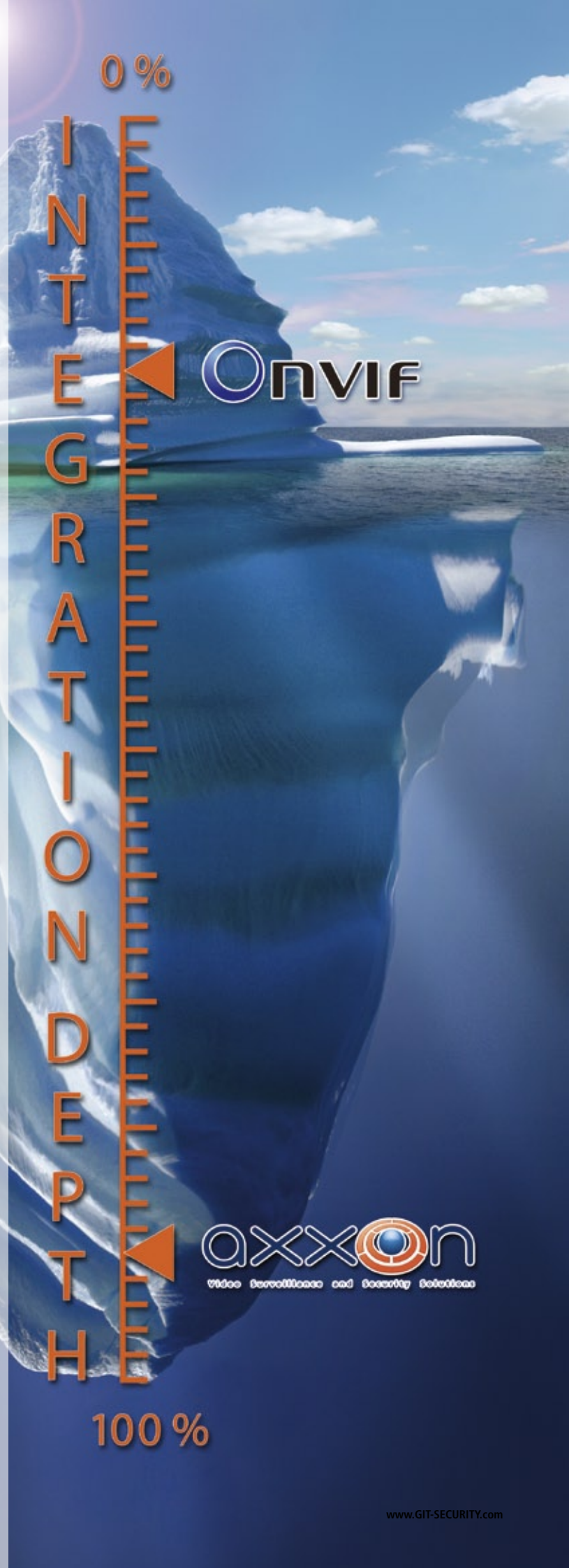
ONVIF is on the right track, but the marketing machine for ONVIF swung into action quicker than the camera manufacturers were able to catch up. One or another market player may have roundly cursed ONVIF in the past – sometimes rightly, but also sometimes exaggeratedly – since the ONVIF association itself had by no means planned to achieve 100 % comprehensive integration by now. And anyway, ONVIF is not a must-have. To sum up the last three years, we can congratulate Axis, Bosch and Sony for this very courageous and visionary step forward! And if ONVIF carries on like this, then it has to be looking for its own grade of success story! Also the aim to develop an ONVIF standard for access controls ONVIF is the right way forward: More and more systems are to be added for a complete security solution. Let us hope that finally the more or less reliable OPC interfaces get redundant.

### ONVIF from the Viewpoint of Video Management Software Manufacturers

We considered where we could position ourselves on the marketplace once integration with ONVIF became standard and if one of our strengths – the monopoly of the integration of IP devices - were to be lost. To some extent, the integration of IP devices represents a very laborious work stage, since on average we integrate 150 IP devices each year, and it could possibly arise that jobs are lost!

We have only just stumbled on new features that continue to give us satisfaction, but features that we never had time to look into before. In the course of this process, extremely innovative products and pioneering developments – for example a new file system adapted for video – have come to light: no more Windows defragmentation – defragmentation, which makes the search for video data such a long drawn-out process. In connection with the new „forensic search“ tool, searching is an eye-opening experience with such a rapid video database. Whether you are looking at direction, whereabouts, speed, quantity, the size of objects or their colour, there is no longer any problem with displaying this data in a matter of seconds!

However, to come back to the question of integration of IP cameras, and ONVIF: for the system manufacturer setting up video monitoring, it is now a very simple matter to just rely on ONVIF, but is it also user-friendly? And it is also worthwhile starting out with this realisation, because it certainly makes a difference if you only have one single





ONVIF video stream and if you have to go from camera to camera in your browser every time for the set-up, or if you are able to negotiate the complete configuration process in your video management interface.

Using Axxon Smart 2.0 for example, with most IP cameras, you can set up your camera straightforwardly and rapidly and save unnecessary work stages. And, in particular, the special functions that have been developed by camera manufacturers are easy and quick to configure, here. This saves time, nervous energy and – above all – a lot of money.

We would like to see a more objective configuration in the context of some VMS manufacturers' rather unilateral viewpoint, and we have asked our partner companies for their views in this subject area:

### Franco Pezzoni, Managing Director of PSS GmbH & Co KG

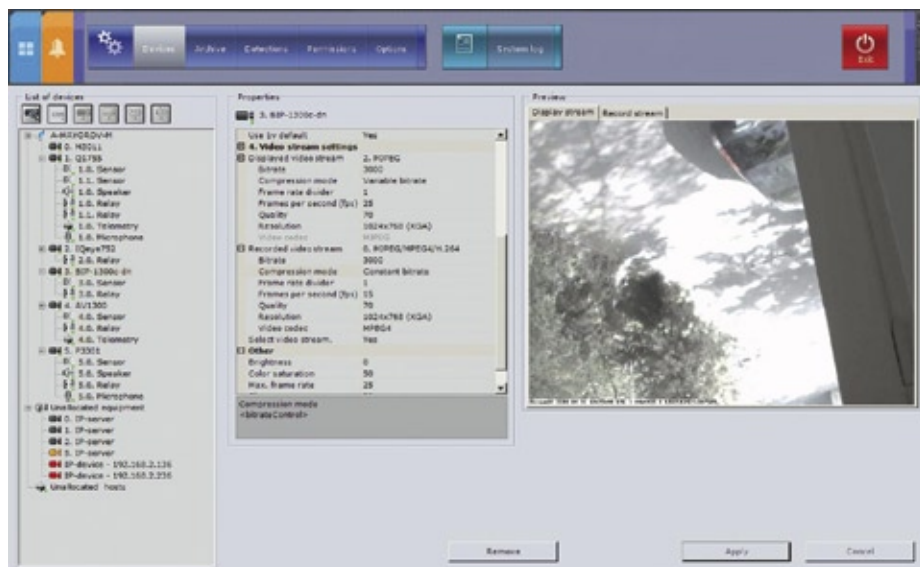
#### What do you think about ONVIF in general?

In future, ONVIF will represent the new standard for the integration of IP video-based physical security products. With ONVIF, you get movement on the marketplace and naturally – as manufacturer-neutral systems producers for security solutions and as distributors of various brands – we welcome this development.

For our customers, the priorities are as follows: simplified projection, decreased development costs, greater flexibility in product selection, and reliability of investment. ONVIF makes it simpler for us to work out a solution-based application concept for our customer. Most leading manufacturers have already implemented their products or are going to do so in the near future. Naturally, we should not ignore analogue technology which has combined to form an alliance in its new "HDcctv" standard. There, too, the tried & tested coax cable will still have a part to play in the transmission of uncompressed video signals.

#### What advantage do you perceive in the in-depth camera integration of AxxonSoft?

With its open platform and its development team, AxxonSoft has operated in a very forward-looking way, and has integrated almost all of the products on the marketplace into its software interface. Thanks to the depth of integration of cameras with AxxonSoft, we are able – by contrast with ONVIF – to use individual features of cameras such as a camera's video analysis. Also, a specific, pixel-based resolution can be selected, not just having to choose between the three options of: minimum, medium and maximum. And it is also possible to change over between bit rates (VBR and CBR). Consequently ONVIF achieves considerable ease of integration, but this is only half the battle. AxxonSoft, on the other hand, goes all the way, with its tailored solution.



Only with a high-end video management software enhanced camera functions can be implemented.

### Turgay Özkaya, Product Manager of EFB-Elektronik GmbH

#### What do you think about ONVIF in general?

A worldwide standardised interface for video network products can only be advantageous, because this is the only way to achieve simple and rapid integration of various manufacturers' products into a video management system.

In respect of analogue technology, we know how important and how practical its standard can be (the PAL standard). So how could we fail to realise these advantages in network video solutions as well, extending the flexibility and future-proof benefits for systems to end users/systems integrators?

The concept underlying this platform is fairly good, at all events. At present, however, this concept is not yet mature and expandable since many manufacturers on the marketplace do not yet really speak the same language (e.g. picture compression or video transmission), although this is really important with a standardised interface.

Our thinking is that this video standard should achieve penetration in the future, and accordingly we ourselves, as system solutions providers, should make the products as attractive as possible for customers.

#### What advantage do you perceive in the in-depth camera integration of AxxonSoft?

AxxonSoft's in-depth camera integration is most impressive – praiseworthy. IP camera models can be selected directly from the presented list, and rapidly installed. Many camera parametrisation settings can be run via the Axxon software user interface, and you no longer even need to access individual cameras' web interfaces in order to arrange your settings.

### Edmund Johanns, Managing Director of Johanns Systemhaus GmbH

#### What do you think about ONVIF in general?

Our experience is that ONVIF fails by far to deliver what it promises, and accordingly our conclusion is that individual manufacturers have their own agendas and each one programs its own ONVIF standard. For myself, I would like to see ONVIF continue to develop into the one open standard which would make life much easier for ourselves as engineers when it comes to integrating cameras into video software.

#### What advantage do you perceive in the in-depth camera integration of AxxonSoft?

Because, as systems manufacturers, we are always having to develop custom solutions for our customers, AxxonSoft's open video management software fulfils customers' requirements to a far more detailed degree than ONVIF is currently able to do. Here, firstly, we can build in a diversity of various models & manufacturers of cameras, and secondly make use of the full extent of in-depth integration. For me as a businessman this is very important: I need to be able to think past questions of sizing and dimensions and make sure of winning another satisfied customer.

## ▶ CONTACT

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## SECURITY FOR PRODUCTION INDUSTRY

# Imaging in Explosive Environments

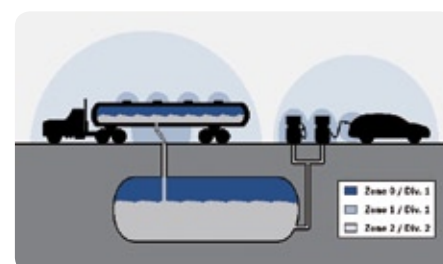
## Explosion Protected Equipment for Critical Areas

**Extraordinary considerations must be taken when using electronics in certain industrial environments. This article will provide an overview of security applications in potentially explosive environments, highlighting the history, terminology, and industry standards for explosion protected surveillance equipment.**

Explosive environments are typically found in industries such as oil and gas, petrochemical, and chemical. The content of this paper is applicable to all industries that are exposed to explosive environments, with the most common being oil and gas. We will also bring to light the difficult imaging challenges that are presented in critical industrial facilities and the current landscape of imaging and illumination technologies that are available for explosion protected environments.

### History: The Need for Explosion Protected Surveillance Equipment

The need for certified explosion protected electronic equipment started in the early mining days in 1913 when 439 miners perished in a disastrous explosion. It was the worst disaster in British coal-mining history and its cause was found to be the low voltage signaling bells which in tragic irony, were brought in to improve communication and promote safety. It was then surprising to learn that these communication devices could ignite the methane gas that would typically permeate a coal mine.



Example showing ATEX Zones and NEC/CEC Divisions

Now, in the present day there is a growing need to install various types of electronic equipment in mines and other types of industrial facilities. The installation of electronic equipment in these modern industrial environments must be „explosion protected,“ which means the equipment is designed to prevent the ignition of explosive environments. National and international standards have been put in place and are enforced by law to ensure industrial facilities are using explosion protected equipment in areas that are deemed necessary.



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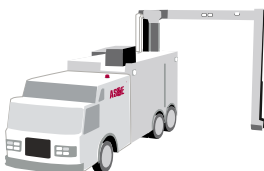
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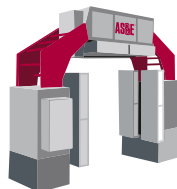
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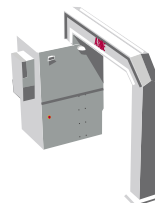
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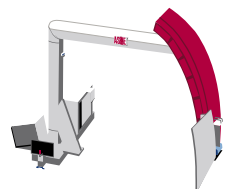
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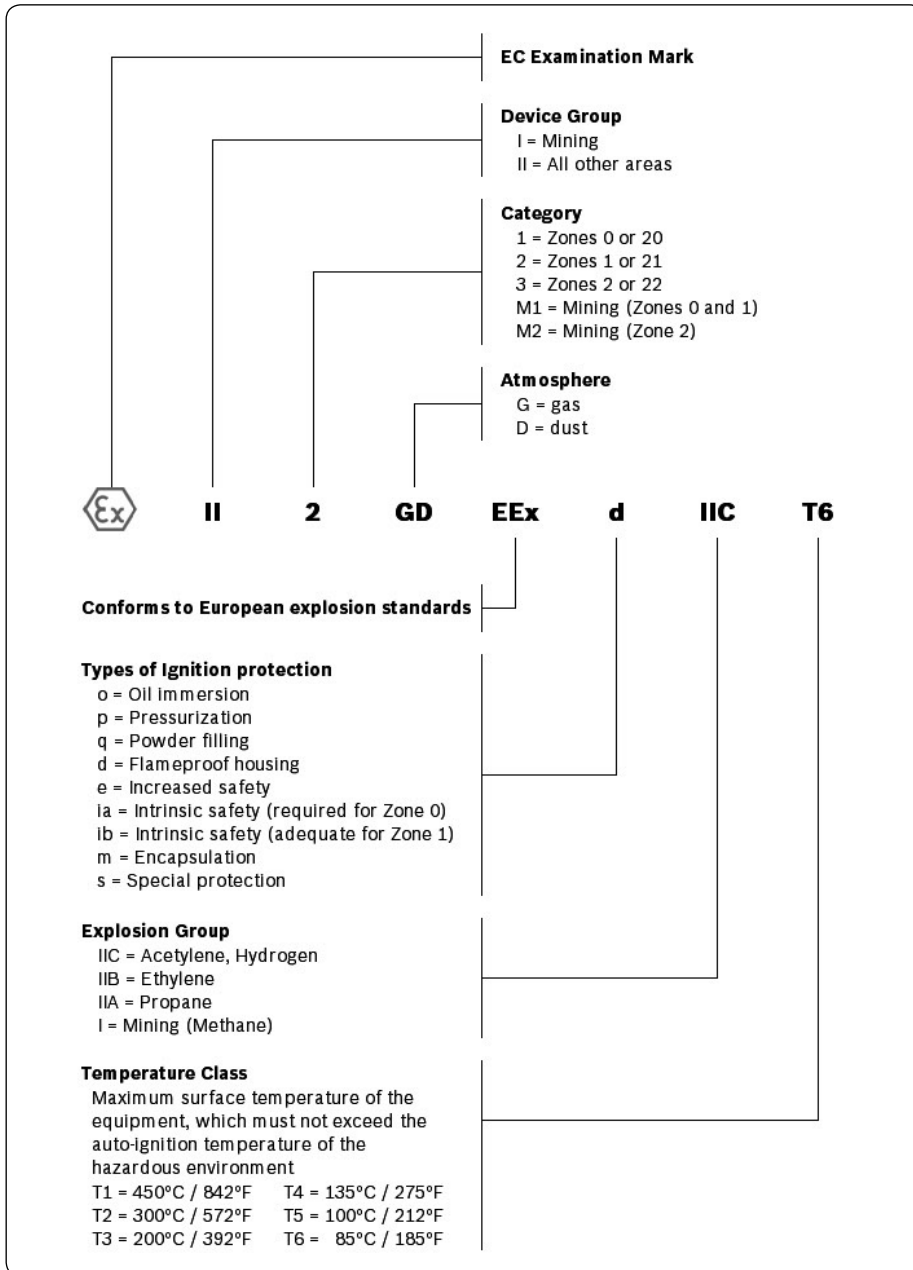


Sentry™ Portal



OmniView™ Gantry





**ATEX classification codes**

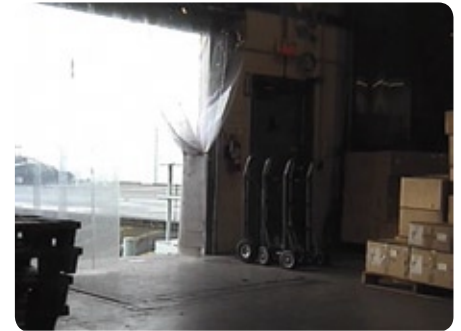
There is also a growing need to have high quality and certified explosion protected surveillance equipment in a nation's primary and secondary industrial facilities. In the UK, oil refineries, chemical plants and gas plants have long been monitored with video solutions for protection against terrorist attacks and crime. Globally we have only begun to protect our factories with video surveillance. Moreover, the industry is finding that the use of video solutions in factories is an important tool in maintaining safe operation. Factory managers can monitor people, processes and equipment to ensure good operation and safety practices. Video solutions (instead of people) can be located where there are hazardous or unhealthy conditions. Automated factories can utilize smart video technologies to verify or trigger alarms if a process has gone awry. Many factories use „machine vision,“ where sophisticated video optics is an integral part of the industrial process.

**The Meaning of "Explosion Protected"**

Within the security industry, it is often thought that explosion protected products are capable of withstanding an external explosion, such as a bomb blast. While explosion protected cameras are typically rugged and may very well survive an explosion, this is not the design intent. The term "explosion protected," in fact, refers to an electronic device that, after being properly installed in a combustible atmosphere, will not cause an explosion even under fault conditions.

Protection methods used for explosion protected devices include "Flameproof" and "Explosionproof" (used respectively in Europe and the Americas) or "intrinsically safe." Certified explosion protected equipment using the explosion-proof method is able to withstand an internal explosion in order to not let any flames escape the housing and ignite the surrounding areas. The external enclosure of this type of equipment would include flame paths, which are small gaps

**Image quality at different processing rates**



10 bit image processing



Advanced 20 bit image processing

that extinguish the flames and cool hot gases, allowing the gases to escape the enclosure so that they are unable to ignite the outer atmosphere. Devices typically include switches, control systems, motors, transformers, lights and, of course, surveillance equipment. Intrinsically safe equipment use circuits, which are energy limited and incapable of producing a spark or any volatile thermal effects under normal or fault conditions. Devices typically include radios, measurement and control, actuators and sensors.

**Industry Standards for Explosion Protected Surveillance Equipment**

There are various industry standards that are available for explosion protected surveillance equipment. In North America, standards are based on the "Class, Division" system for hazardous locations. In Europe and other parts of the world standards are based upon the "Zone System" for potentially explosive atmospheres.

**Classes, Divisions and Hazardous Locations**

In North America, hazardous locations are identified by Class, Division, and Group as defined in the NEC (National Electrical Code) and CEC (Canadian Electrical Code). The system provides three Classes based on the type of hazard and explosive characteristics of the material, two Divisions based on the operating conditions and seven Groups based on flammability properties.

**The Zone System and Potentially Explosive Atmospheres**

In Europe and many other regions of the world, potentially explosive atmospheres are handled by using a zone system based off IEC (In-





Without IR



Conventional IR



Advanced IR

ternational Electrotechnical Commission) and CENELEC (European Committee for Electrotechnical Standardization) standards. The EU (European Union) adopted Directive 94/9/EC also known as the ATEX Directive to facilitate free trade in the EU by aligning legal and technical requirements across Member States. Therefore, knowing the meaning of ATEX codes would be critical in understanding the requirements of explosion protected surveillance equipment in explosive environments in Europe and the rest of the world. Below is the list of ATEX codes in terms of device groups, categories, temperature class, explosion group, and types of ignition protection with detailed descriptions of what they mean (table 1).

### Getting the Image in Explosion Protected Environments

Minimizing the possibilities of accidental damage to equipment and ensuring security and safety of workers have become more prevalent concerns in critical facilities over the years. Having reliable video verification of events in critical facilities allows operators to be in control of a potential crisis around-the-clock, even in most difficult lighting conditions. In particular, surveillance equipment that provides the right level of detail can enhance the accuracy of tough judgment calls operators are forced to make during a crisis. Often a simple judgment call of whether one should send his fellow colleagues to investigate a site of concern can turn into a life and death situation in the matter of minutes in explosion protected environments.

Factories and industrial facilities today are all controlled and monitored by a process system, more commonly referred to as a Supervisory Control and Data Acquisition / Distributed Control System (SCADA/DCS) process. Using real-time video verification in a SCADA/DCS process can not only help analyze system efficiency but assist in scenarios where a proactive approach can be taken in potentially dangerous situations.

An increasing amount of camera installations are found on drill floors of offshore oil rigs, around critical processes at refineries, and near critical equipment, such as petroleum storage tanks. Generally, these locations have a range of difficult natural lighting conditions such as a bright ocean background over a dark foreground typically found on the deck of an offshore rig. These critical sites can have a range of difficult artificial lighting conditions, such as shadow casting and uneven illumination. When problems occur in locations where it is challenging to capture a good image, operators are unable to inspect visually what is going on and lose valuable time that might just be needed to prevent a minor problem from becoming a major one.

Different types of modern imaging and illumination technologies are available to handle the imaging challenges that are typically faced in explosion protected environments.

### Modern Imaging Technologies

Modern imaging technologies, such as 20-bit digital signal processing, can expose details not visible to the naked eye in both day and night times. 20-bit digital signal processing generates two images to produce the clearest picture for every scene: one long exposure resolves details in scene's darkest areas, while one short exposure captures the brightest areas. The processing then mixes the pixels from each image to produce the most detailed picture possible. The 20-bit digital signal processing also uses state-of-the-art software to analyze and enhance each pixel.

### Active Infrared Illumination Technology

Active infrared illumination technology can help operators detect, classify, recognize, and identify targets not visible to the naked eye at night time. It is considered an inexpensive method of obtaining high quality images in low light conditions. Active infrared illumination technology

Table 1:

CLASSIFICATION OF EXPLOSIVE ATMOSPHERES				
ATEX Zone	NEC/CEC Division Equivalent	Definition *	Required Device Category*	Atmosphere
0	1	A place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapor or mist is present continuously or for long periods or frequently.	1	G
1	1	A place in which an explosive atmosphere consisting of a mixture with air of flammable substances in form of gas, vapor or mist is likely to occur in normal operation occasionally.	1 2	G
2	2	A place in which an explosive atmosphere consisting of a mixture with air of flammable substances in form of gas, vapor or mist is not likely to occur in normal operation but, if it does occur, will persist for a short period only.	1 2 3	G
20	1	A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is present continuously, or for long periods or frequently.	1	D
21	1	A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is present continuously, or for long periods or frequently.	1 2	D
22	2	A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is not likely to occur in normal operation but, if it does occur, will persist for a short period only.	1 2 3	D

\* Per 1999/92/EC Directive (ATEX 137)

also provides discrete illumination for security video and minimizes light pollution.

### Advanced Infrared Illumination Technology

Having advanced active infrared illumination technologies supplementing explosion protected cameras ensure security and operational professionals high quality images in any lighting conditions, even in difficult nighttime and low-light environments. These advanced active infrared illumination technologies are able to provide three key benefits. First, they can effectively illuminate the foreground and background – providing light where the camera needs it. Second, they can eliminate hot spots and underexposures, ensuring consistent lighting across any scene and enabling video analytics to immediately detect security and safety threats. Third, they can minimize LED degradation, ensuring quality data throughout the life of explosion protected surveillance equipment and across the operation temperature range

of the product. In addition, modern LED lighting draws much less power than conventional lighting, making explosion protected equipment with modern LED lighting more energy efficient.

### Conclusion

Surveillance related issues have been increasingly challenging, especially for explosion protected environments, and having high quality and certified explosion protected surveillance equipment in a nation's primary and secondary industries has been progressively more vital to the health of a nation's infrastructure. It has not been easy for security and operational professionals to find the right surveillance cameras for their critical facilities, and it has been increasingly important for these professionals to have explosion protected cameras that perform flawlessly in natural and artificial light.

With its imaging prowess, Bosch has been a field-proven expert in security for explosive environments. For more information regarding the

technologies mentioned in this white paper and our experiences with critical industrial facilities, please refer to the Bosch Imageology and Hazardous Locations websites for details.

### CONTACT

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Bosch Imageology:  
 www2.boschsecurity.us/imageology/

Bosch Hazardous Locations:  
 www.boschsecurity.us/en-us/Markets/Hazardous/default.htm

### LED Upgrade for Video Walls

Barco offers an all-in-one technology refresh program to upgrade its lamp-based video walls to its latest series of LED-lit rear-projection video walls. It enables customers to bring their existing display models up to the latest high-quality standards. By converting existing video walls from a lamp-driven to an LED-powered engine, owners of the manufacturer's video walls can build on previous investments and achieve enhanced image quality, improved reliability and lower total cost of ownership with minimal effort. The introduction of the upgrade kits follows the launch of the company's new family of LED-lit rear-projection video walls in 2010. Thanks to a liquid cooling system, these new video walls offer up to 80,000 hours of LED lifetime and a brightness level that is 20% higher than any competing system, the company claims. The video walls are also equipped with the firm's proprietary Sense 6, an auto-calibration technology that ensures brightness and color stability over time and across the entire display, eliminating the need for manual adjustments.



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### High Capacity Hard Drives

Western Digital announced the addition of 2.5 TB and 3 TB versions to its family of WD AV-GP SATA hard drives, serving the audio-video (AV) market. The 3.5-inch, WD AV-GP hard drives offer 24 x 7 reliability, low power consumption and high storage capacity for storage-intensive AV applications such as digital video recorders, video surveillance, single-drive media servers and external multimedia storage. "Designed to go the distance in high-temperature, always-on streaming digital AV environments, WD AV-GP drives store more hi-def audio and video than ever before with our new 2.5 TB and 3 TB versions," said Jim Welsh, executive vice president and general manager, of WD's branded products and CE business units. "Combine unsurpassed capacity, power-saving WD Green Power Technology, and performance capabilities to capture up to 12 simultaneous HD video streams with Silkstream technology and the drive choice is made clear in optimizing AV applications like PVR/DVR, IPTV and video surveillance." The manufacturer's AV-GP family of drives deliver 24 X 7 reliability along with power-saving Green Power Technology. The drives are field tested to have a 1.0 million hour MTBF rating.



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### NVR Software Integrated With IP Camera

Brickcom and Scallop Imaging announced the integration of Brickcom's PC Based network video recorder BRC-64 software with Scallop's Digital Window D7-180 IP surveillance camera. This integration offers a flexible, cost-effective IP management and recording solution that combines wireless IP cameras with 180 degree undistorted field of view. The software is an advanced PC-based network video recorder that allows users to manage up to 64 IP camera networks. Included free with each camera, the software offers a cost-effective recording solution for any size IP surveillance systems. With the support of megapixel resolutions and H.264 compression, it minimizes bandwidth usage while offering optimal image viewing and recording quality. Other features include continuous, schedule, motion, and alarm recording options, E-Map monitor, and remote live view. The BRC-64 PC-NVR offers a flexible and user-friendly design that allows users to easily manage their surveillance system. The seven megapixel digital camera distributes the imaging task across multiple small image sensors that process over 100 megapixels per second to calibrate, synchronize and merge video in real time.



www.brickcom.com

### Networked Alarm Technology

Abus' Secvest IP wireless alarm system is now available in two different sets. The basic set includes two detectors and one remote control. The video set comes with a PIR network camera. Both sets are very cost effective compared to buying individual components. They are also a quick and easy start in IP based surveillance technology for small apartments and smaller units. The FUA10030 Secvest IP video set combines alarm and video technology, consisting of the company's IP alarm centre and PIR network camera. The PIR network camera immediately checks the event visually by video recording in the event of an alarm. The ABUS PIR network camera verifies an alarm using the integrated PIR detector and video motion detection. This double verification system eliminates the possibility of false alarm. The FUA10020 Secvest IP basic set ensures reliable interior protection together with a motion detector. A magnetic contact secures the apartment's entrance door and the bi-directional wireless remote control included allows to easily query the status of the system.

www.abus-sc.com



EVENT

# Securing Passengers and Cargo Worldwide

Transport Security Expo from 13–14 September 2011 at Olympia in London

**As industry professionals prepare to gather for Transport Security Expo, there can be no doubt whatsoever that they continue to face major challenges in meeting the threat posed by international terrorism. A decade on from the horror wrought on the United States of America by the 9/11 suicide attacks, industry security specialists continue to battle an adversary which is both nimble and inventive. As the anniversary of the attacks on New York and Washington DC has come and gone, no peace dividend is in sight yet, given acts of terrorism continue to be seen within the transport arena.**

Transport Security Expo brings the leading thinkers from government, military, law enforcement, industry and academia together annually in London, to examine the threats faced presently and in the immediate future. Supported by one of the most extensive and unique exhibitions of transport specific security technology and a highly specialised workshop programme, Transport Security Expo's world beating conference programme brings both clarity and focus to the key issues faced and delivers a forum in which solutions may be found.

## Aviation in the Focus

Aviation, without doubt, remains the target of choice. Planned and instigated by Al Qaeda in the Arabian Peninsula (AQAP), within the past two years, we have witnessed their ability to get viable Improvised Explosive Devices (IEDs) aboard passenger and cargo flights, despite the security controls we have in place. Maritime continues to be plagued by acts of piracy, particularly in the Arabian Sea, Somali Basin and Indian Ocean region and despite a strong EU Navfor naval presence intended to protect merchant vessels.

A new report suggests that piracy in this region costs the international community up to US\$ 8.3 bn (£ 5.1 bn) a year. Somali pirates presently hold 23 vessels and 530 hostages. Mass transit security remains a perennial problem with no easy answers. Terrorist strikes in Madrid and London demonstrated graphically that more needs to be done to protect those who use our mass transit networks, but the debate continues as to how such transport networks can be secured without bringing them to a grinding halt.

Transport Security Expo will hone in on these three key areas during the two-day event. Dedicated conferences in the Aviation Security, Maritime Security and Counter Piracy and Securing and Protecting Public Transport Systems arenas, will examine the primary issues in minute detail, outline the problems which must still be overcome and deliver direction as the respective sectors move forward in addressing the threats faced by each transportation sector.

## Workshops and Exhibition

An extensive programme of highly specialised workshops designed to give detailed insight into the application of technology in the transport security environment delivers both detailed knowledge and added value. Thirty free to attend workshops focus on key areas including passenger security and facilitation, perimeter security and intrusion detection, airfreight and cargo security and airside and landside terminal security amongst other topics.

Emphasising that the threat from international terrorism remains as potent today as it has been over the past decade, Transport Security Expo's dedicated exhibition of related technologies remains world beating. Key exhibitors include Smiths Detection, Rapiscan, Seimens, Honeywell, AS&E, ADT and a vast number of others.

A decade on from the events of 9/11, with this industry having taken the brunt of attacks in the intervening years and with no end in sight to terrorists and criminal groups targeting the aviation, maritime and mass transit sectors, Transport Security Expo remains the principal calendar event for those security professionals addressing the threats faced head on. Transport Security Expo will open its doors from 13–14 September 2011 at the Olympia Exhibition & Conference Centre in London.

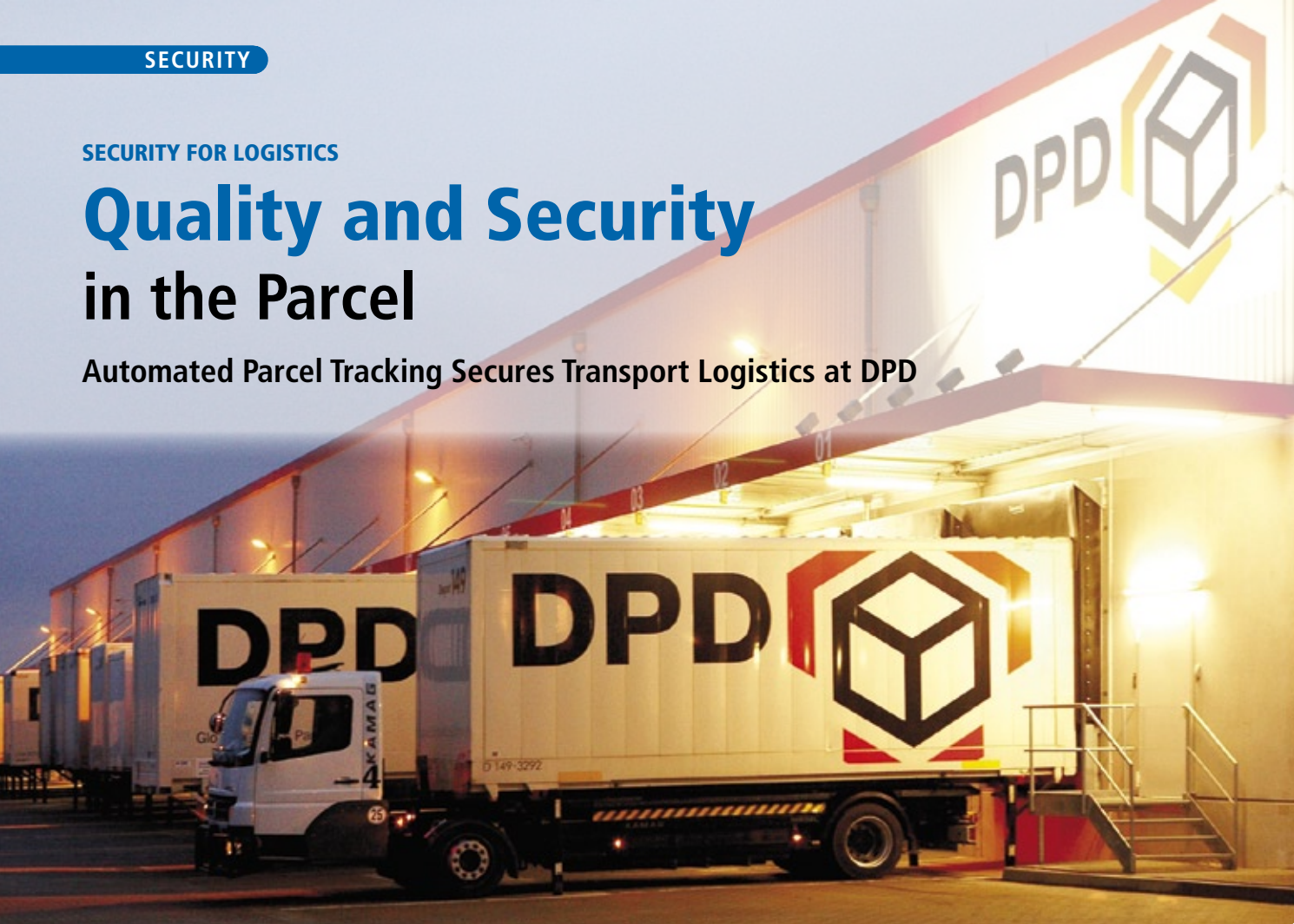
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## SECURITY FOR LOGISTICS

# Quality and Security in the Parcel

## Automated Parcel Tracking Secures Transport Logistics at DPD



**DPD, with over 7,500 employees and one of the leading parcel and express couriers in Germany, has taken up the cause of guaranteeing its customers high reliability and efficiency. In addition to a comprehensive European network and strong local partners in international dispatch, the most modern technology now provides the basis for perfect transport solutions, even for highly complex tasks. Modern video technology and the use of intelligent software help the company to minimize complaints and to optimize processes in the Münster DPD Depot.**

DPD provides its customers with an online parcel tracking facility with which the customer can check on the current dispatch status at any time by entering the parcel number or reference number. Registered customers can use other services such as online delivery notification or funds transmission for COD deliveries. But DPD also uses parcel tracking for the organization and securing its parcel depots, using an IP-based video surveillance system at its depot in Münster that was conceived and implemented by the System Integrator Heiko Viehweger (now

Mavi-sec Sicherheit). At the heart of the system is the Milestone XProtect Enterprise video management software that was integrated with a special Parcel Tracking plug-in by Mavi-sec and adapted to the needs of DPD.

### Following the Parcels Inconspicuously

The requirement from DPD was clear right from the beginning: parcels must be able to be followed with the help of a video surveillance system throughout the storage and logistics areas of the Münster parcel depot. The system integrator, Heiko Viehweger, is a specialist who, together with his colleague Michael Marwinski, not only possess many years of experience as integrators and commissioners of security systems but also have the know-how for security and logistics in service industries.

After carrying out an analysis of the transport routes and interfaces for the parcel logistics and taking stock of the existing technology, a system specification was first created, followed by a user layout for the system. In close cooperation with the software developers from Milestone, a special plug-in for the parcel tracking was programmed with the help of the analysis and on the basis of the Milestone XProtect Enterprise open video management software.

### Completely Monitored from Goods Inwards to Handover

The installed video surveillance system follows and documents the flow of goods from the in-

take area right up to handover to the delivery drivers that accept the parcels for their delivery area. The goods can be located at any time via the video management software, even through complex logistics chains.

After arriving, all parcels are identified by manual and automatic scanning of their bar code and the parcel note number and simultaneously linked with a video image. This is handled by the XProtect Transact module of the software. This documentation can already be useful for the operator when it comes to questions on who is responsible for damage before the parcel reached the DPD Depot. Cases of damage, such as leaking fluids for example, can thus be better judged and investigated on the basis of the documented video images. Depending on the destination or the postal code, the parcels then go through a complex system of conveyor belts that ultimately transport them to their point of handover. Along their way through the sorting channels, the parcels are automatically tracked with the help of 79 video cameras and the images are archived.

Analog cameras, some of them vandalism-protected or dust proof, with VGA definition (550 TVL) are sufficient for this type of surveillance in Münster, although megapixel cameras are being considered for future projects. The parcels are scanned once more at the point of handover before being loaded, when the liability is thereby given to the delivery agent. The handover is documented by the scan procedure and the video images.





Scanning the parcels from five sides.



The handover is documented by the scan procedure and the video images.



Video surveillance of an arrival scan.

### Nothing Gets Lost

The DPD parcel depot in Münster continuously runs an analysis of the incoming parcels and the goods handed over, and this provides an overview of the shipments that have arrived but not been passed on. If these parcels are subsequently shipped within a certain timeframe (for example, after a blockage or following an intermediate check), the case is closed and this is also documented. In the rare cases that parcels are logged as "missing" after an analysis by the system, the software allows a quick check of exactly where the parcel went missing along the way. This procedure is so important for DPD because the company proactively goes through the procedures when there are problems and can

use the video documentation proactively before there are possible complaints a few days later.

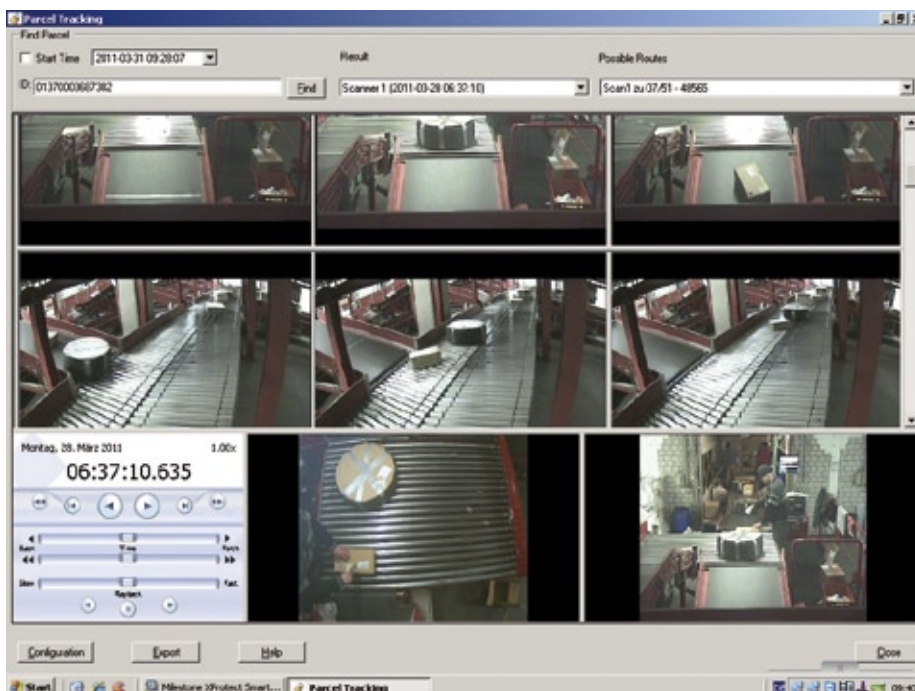
Entering the parcel note number of the missing shipment in the software menu provides the most recent information about the last scanning point. The intended destination and the probable route for a parcel going to this postal district can then be chosen. The software with the parcel tracking plug-in then automatically delivers timed portions of the requested video sequences at the monitored station along the route. The timed intervals were programmed in advance, in accordance with the passage time of a route, and time buffers can also be programmed for safety. The video data of such a search can be easily extracted using the software, and forwarded to

the security department or an employee who handles complaints.

### Summary

For DPD, the installation of the system provides obvious advantages: on the one hand the company demonstrates its power of innovation and competence in security, in particular to demanding customers. Manufacturers, providers of high-value electronic products and pharmaceutical companies are increasingly carrying out inspections and audits, awarding shipping contracts to a parcel service who satisfy them that quality control measures are in place. Continuous optimization of the logistics systems also helps to process complaints from end users about missing or incomplete deliveries and minimizes the effort required for subsequent investigation (e.g. where were the goods damaged?).

A perfect system? Nearly, although thought is already being given to improving the quality of video recordings in future projects by using megapixel IP cameras so that address labels and parcel numbers are readable. Heiko Viehweger says: "We were able to introduce our system in the DPD Münster depot and to adapt the system to meet the local requirements thanks to close collaboration with those responsible at DPD and the software developers from Milestone. Further development and adaptation of the system by us for the whole logistics industry is therefore quite possible."



The parcel tracking plug-in from Mavi-sec provides timed portions of the requested video sequences at the monitored stations along the route.

### CONTACT

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CCTV

# Cricket since 1787 – Modern Recording since 2010

## Home of Cricket Secured by Mirasys Recording Solution

**Lord's Cricket Ground has been the 'Home of Cricket' since 1787, and is widely viewed as the game's spiritual 'headquarters'. Owned by Marylebone Cricket Club (MCC), Lord's is said to be the most important single place in the world for cricket, and plays a key role in promoting cricket in Britain and globally. The host of major Test matches, one day internationals and historic fixtures such as Oxford versus Cambridge, Lord's is also home to the MCC's Indoor Cricket School, the MCC Library and the world famous MCC Museum.**

### The Business Challenge

The MCC hosts more than thirty matches at Lord's each year which attract around as many as 28,000 people per day. As well as monitoring crowd security and behaviour, the 119 CCTV cameras and five digital video recorders in place at Lord's also protect the MCC museum – the world's oldest sporting museum containing Cricket's most famous artifact – The Ashes Urn. Recently, MCC has made a commitment to improving the site and facilities at Lord's Cricket Ground to maintain its status as an iconic sporting venue for cricket across the world.

With changes planned across the site, Lord's CCTV and surveillance platform needed an upgrade. Lord's had a legacy recording suite in place which monitored the CCTV and DVR architecture. Through this system, however, extracting data and images was a very complicated and time intensive process. The recording suite's user interface was not very user friendly, and staff had to spend unnecessarily long periods

of time pulling out images and data needed for evidential purposes.

"Our recording system was outdated and becoming increasingly tedious to use. Whilst an upgrade was needed, it was important that we could find a system which could work with the digital video recorder platform that was already in place to avoid the additional costs and disruption incurred by major changes to the surveillance infrastructure," said Alan Baxter, MCC's Head of Security.

### The Solution

Following an in-depth consultation from the Security Systems Division at ICTS, which advises and manages security implementation projects at Lord's, the decision was made to replace the legacy recording suite. A preliminary trial was conducted which compared the Mirasys solution to a competitive offering from Dedicated Micros. Both security and IT managers agreed that the recording suite from Mirasys offered a better all-



round surveillance solution which included a simple user interface from which images and data could be quickly and easily extracted, as well as high scalability and excellent automation features. The Mirasys recording suite was able to operate on the existing DVR platform in place at Lord's, which meant that the solution could be implemented and fully functioning in just three days. Mirasys and ICTS were able to work together to ensure that disruption to the site was kept to a minimum, saving both time and money for the Club. Following this initial implementation period, all 119 CCTV cameras and five DVRs at Lord's were accessed and managed by security personnel using the Mirasys system in place.

"After comparing Mirasys' technology with other vendor's offerings, it became very clear that Mirasys NVR Enterprise provided a more open platform that could connect easily with other systems. This was essential to ensure a streamlined implementation could be achieved," said Darren Watson, Head of Security Systems at ICTS.

As a highly scalable and flexible solution, Mirasys NVR Enterprise was able to address this challenge through the ability to support up to 5,000 IP and analogue systems, ensuring that Lord's future security requirements could be easily accommodated. "Mirasys can accommodate new technologies as well as the customers' changing needs, which will allow Lord's the flexibility to choose the most suitable technologies for their specific needs now and in the future," continued Watson.

### The Results and Benefits

Following the implementation of Mirasys NVR Enterprise, Lord's has been able to improve and simplify CCTV surveillance across the site. The key aim of the project has now been achieved: the complex user interface of the previous solution has now been replaced with a much more user-friendly and accessible solution.

"Whilst it was important to ensure that the recording suite would be able to expand and accommodate our future needs, the day-to-day use of the system has also been dramatically improved meeting our goals regarding manage-

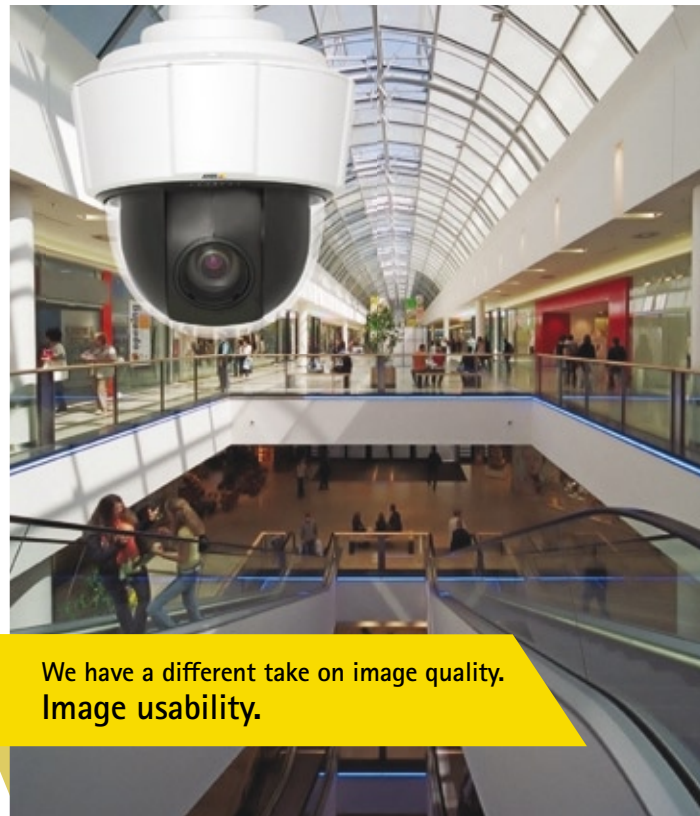
ability of the solution," said Alan Baxter. "With Mirasys, we can now easily access recorded images. The data can be simply explored and a particular incident can be found quickly with the help of the search tools."

By automating the search function, staff no longer have to spend time unnecessarily searching through clips. When found, incidents can also be exported as single images or video clips in common file formats and saved, on CDs, DVDs, or USB memory sticks. This means extracting data for evidential purposes is now very simple. The flexibility that the system has been able to provide through the remote monitoring capabilities have further contributed to the success of the system. Real-time and playback windows can be viewed through either a client workstation or a browser, meaning that security staff at Lord's can have regulated access to CCTV data from the DVR's on-site, and remotely from their offices.

"Each member of security staff has regulated access to the system depending on their role and access requirements. This means that remote access to the recording suite is viable from an internal security perspective. Staff can now manage their time more effectively, accessing CCTV and metadata directly at the DVR or elsewhere on the site. This means that surveillance can now be efficiently monitored at all times regardless of location, improving security across the site," added Alan Baxter.

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**MINTRON**

# High-Definition Low-Light

## 1080p/720p 50/60fps Camera

**HD-IP CAM**

- HD 720p Multiple-streaming
- Codecs: H.264 /MPEG-4 /M-JPEG
- CVBS

**3G-SDI CAM**

- Uncompression video: 720p/1080p
- Video transmission based on coaxial cable
- Bit rate: 2.97Gb/s SMPTE 292M/424M
- One cable (Video/Audio/RS-232C/Power embedded)
- CVBS

**Megapixel Camera Module**

- Image sensors: 1.3-3M CMOS/CCD Sensor
- Built-in AFM926-EJ-S/Memory
- Digital video output: YUV 4:2:2 16 Bit (SMPTE 274M/296M)
- CVBS output: Over 800TVL (NTSC/PAL)
- Image adjustable: De-Highlight/BLC/DWDR/AGC/3D DNR/Removable IR-Cut/ Fog-Reduction/Eclipse/Digital P.T.Z
- Communication: RS-232C/OSD
- Low power consumption

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## IP SYSTEMS

# Not If, but When

## Progressing from Analog to Digital Surveillance

**IP is here and it offers a myriad of benefits. But navigating the road to IP requires careful consideration of many factors, from network infrastructure to physical security needs. Jeremy Kimber, Commercial Operational Marketing Leader EMEA at Honeywell Security, highlights some important aspects when migrating to an IP solution.**



When it comes to new security installations, Internet protocol (IP)-based systems are growing in prevalence as viable options alongside traditional analog-based approaches. But how can one rationalize and navigate a switch from analog to IP – especially in light of tight budgets, undecided industry standards and increased scrutiny on new expenditures? The answer is complex, although one thing is certain: IP migration is not a matter of if – it is simply a matter of when.

Overall, industry research shows that the video surveillance market is approaching a tipping point, where the volume and revenue of IP units will soon surpass analog-based systems. And, as the market moves toward this point, the price difference will fall, and the capabilities and benefits of IP will only continue to grow.

For quite some time, the proprietary nature of IP systems has been a primary barrier to IP adoption, but the tide is changing. In the past year, two industry groups – the Physical Security Interoperability Alliance (PSIA) and the Open Network Video Interface Forum (ONVIF) – have each emerged with the first versions of their IP

system specifications. These specifications offer many potential benefits. In the case of PSIA, for example, the industry group's standard aims to establish a primary protocol architecture not only for communication and compatibility between IP-based cameras, but also with access, intrusion and building controls.

### Feature Rich

Although market preference is for one agreed-upon standard, this industry development helps further build the case for IP adoption by making it easier than before and laying a solid foundation for shifting to IP-based systems. In the light of this inevitable shift, beginning a migration to IP-based systems is a necessary way to future-proof an organization and prepare for when IP will be the dominant form of video. To what degree one should migrate to IP, however, is a question with many possible answers.

The way to most effectively implement IP depends on the needs of an organization and the depth to which an organization is willing to go with an installation. As such, one must consider

several factors when considering IP. In terms of pure pricing, the difference between analog and IP is noticeable, with IP carrying a price premium in today's market. IP cameras offer many feature advantages, though, such as higher resolution images, multiple inputs, relay output and two-way audio, among other features that can't be supported by analog video. IP also enables intelligent video capabilities built right into a camera, such as motion detection or people counting features.

IP migration is not necessarily an either-or situation, however. It's not simply a matter of deciding whether an organization should make the full switch to IP or not. In some cases, IP can wait. For example, if an organization is completely analog-based and plans to install around this system occasionally, with infrequent upgrades, than sticking with analog might make sense for the time being. But hybrid solutions, which include a mix of IP and analog-based technology, are one way to begin migrating systems to IP. In many cases, organizations can leverage existing network infrastructure and cabling to install IP-based systems, so the instal-



lation cost can actually be lower than expected due to less cabling.

### Train up

In addition to lower costs, migrations can also be simpler than initial expectations due to the IT infrastructure and expertise in place for the vast majority of organizations today. If an organization has solid IT capabilities and knowledge in place, this network familiarity will make installing IP systems fairly smooth. Overall, whether an organization is looking to make a complete switch to IP or considering a hybrid approach, network accessibility is critical.

In making the transition to IP, it is also critical for organizations to bridge any gaps that may exist between IT and physical security departments and to ensure both sides are involved in all decisions and developments associated with IP installations. IP introduces new components and considerations for security personnel, including networking, which entails a new skill set not typically required of traditional security groups. Additionally, the traditional security aspect is something IT personnel are not as well versed in. Thus, buy-in and involvement from both sides—from planning and implementing to keeping the system up and running—is critical for IP migrations.

### Clever Cameras

Once an organization decides to take on an IP migration, the benefits become apparent. Moving to the network world provides greater storage freedom, since conventional IT types of storage systems are also capable of storing video. IP-based systems offer “edge intelligence,” and in addition to advanced recording and analytics, this provides simple physical benefits, as well. These cameras reduce the amount of cabling and storage space typically required by their analog counterparts. Because the cameras have edge devices and recording solutions, no cabling is needed for routing back to encoders and DVRs. Pushing functionality out to the cameras helps simply ease the physical space problem commonly encountered with traditional analog-based systems.

Consider the case of PTZ cameras, for example. IP-based PTZ cameras offer advantages over analog versions for several reasons. These cameras are complex systems, and in order to install an analog dome, one would have to run analog, serial and power cables. With IP-based cameras, however, there is no need for different data and video cables. Thus, in addition to benefits including more integration and control capabilities, IP-based cameras can also help alleviate space issues.

In addition to taking up less space, IP-based systems are also good options to consider for situations involving remote access and security. A recent customer example proves just how beneficial IP can be. The company is comprised of many geographically dispersed sites, and it

sought to improve the physical security of these locations. To do so, the company installed a hybrid camera solution that combines with access control and intrusion. The system processes analog camera input, stores that data locally and then provides a network interface that allows company personnel to remotely access camera units to quickly verify alarms.

### Network Segmentation

Of course, whenever systems run on a network, organizations must make it a point to ensure the right precautions are in place to keep systems secure and running smoothly, and IP is no exception. Having the right people in place with the necessary network knowledge – such as proper segmentation of the network to prevent network bottlenecks that can threaten system performance – is critical for IP-based systems. These individuals should be well versed in how to properly manage devices over a network, as well.

When it comes to system security, both IP and analog-based systems each have their own sets of requirements. Because IP systems are housed on a network, the same IT security technology and considerations must be applied. Incidentally, the threat of security breaches for either type of system often comes down to a question of physical security. Individuals can easily hack into analog systems, for example, by simply cutting cables and installing the proper connectors in order to get a video feed. Also, if a location lacks proper physical security, network-based systems are also vulnerable, no matter how much network security is in place. For example, one classic hacking case involved a person simply picking a facility’s locks and then stealing passwords, which enabled him to easily access an IP-based telephone network. Overall, organizations must apply a complete and thorough approach to securing systems, regardless of their analog and IP-based components. The same is true when considering IP. One must take a look at an IP-based approach from all angles, and consider how and where to apply it to meet an organization’s needs. Whether an organization is simply looking to dip its toe in the IP pool and install one camera, or it’s looking to make the full analog-to-IP switch, realized value can be gleaned from each scenario – when IP is applied correctly, carefully and strategically.

### ▶ CONTACT

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With intelligent access control, it doesn't matter who or what comes your way.



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Electronic access control for the future.



- + Key-activated
- + Localised, time-limited access authorisation
- + Fast, inexpensive upgrades and modifications
- + Maximum convenience, minimum effort

## In Focus: Axis M 1104

The professional and affordable fixed network camera in the AXIS M11 series is intended for a wide spectrum of video surveillance applications, e.g. in retail trade shops and banks as well as in hotels and other office buildings. The manufacturer promises pin-sharp, crisp images under good as well as poor lighting conditions. Several H.264 video streams as well as Motion JPEG video streams can be provided simultaneously either with the full range of frame rates or individually optimised for different quality requirements and bandwidth restrictions.



### Performance

#### Performance at 1000 Lux

Under good lighting conditions the camera provided a clear image with generally good contrast. The colours reproduced were warm, with slight oversaturation and a slight tendency towards a red tint, although colour tones were very clear. Image sharpness was in general slightly poor, thus fine lines were blurred in the test image. Moving objects however were reproduced correctly and without smearing.

#### Performance at less than 1000 Lux

Until a lighting level of approx. 10 lux, the camera provided a clear image without any noteworthy impairment. Below 10 lux, image sharpness worsened significantly. Below 5 lux, image noise was also noticeable and this increased as lighting levels decreased. Moving objects were reproduced even under poor lighting conditions without smearing effects. The camera does not have a toggle between day and night mode, but nevertheless even under poor lighting conditions, it still provides an acceptable image.

#### Performance in backlight situations

The camera reacts extremely quickly (when tested, 1.5 seconds) when confronted with sudden backlight situations. The backlight source dominated the image and the spill was clear, especially when the surrounding lighting was poor. Lens reflections were visible, and object details were no longer clearly recognisable.

#### Performance in use: bandwidth measurement

Bandwidth usage clearly demonstrates the camera's adjustment features – the camera's data rate adjusts to the surrounding lighting because the camera attempts to deliver a frame rate and image quality that is as constant as possible. On average, the frame rate was approx. 1.6 MB/s. A frame rate of 3.31 MB/s was achieved as a temporary maximum.

### Summary

Thanks to its compact design and its favourable cost/performance ratio, the HD-ready (720 p) fixed camera is highly suited to the surveillance of interior rooms of branch outlets with defined lighting levels, for example in retail shops. The camera provides several image streams in H.264 and MJPEG and is powered via PoE. Using interchangeable lenses, it is possible to optimise the camera to the relevant surveillance situation in question. An onboard motion-detection component enables the mounting of simple trigger scenarios directly onto the camera.

#### Technical data for the camera test

Manufacturer	Axis
Model	M 1104
Firmware version	5.09
Distance from test chart	0,40 m
Lens used	2.8 mm: 80° viewing angle, F2,0,
*Focal length set	2,8 mm
*Compression method	H.264
*Resolution	1028 x 720
*Compression	50%
I-frame interval:	1 second
Max. stream bandwidth	unlimited
Measured frame rate	30 fps
Average bandwidth	1,57 Mbit/s

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

#### Assessment for various lighting conditions

Criteria   Lux values	1000 Lux	100 Lux	10 Lux	0,5 Lux	0 Lux + *BL1
Colours	2,5	2,5	2,5	3	–
Contrast	2	2	2,5	3	–
Sharpness	2	2,5	3	3,5	3
Motion blur	2	2,5	3	3,5	2,5
Image noise	2	2,5	2,5	3,5	3
Compensation time with backlight	–	–	–	–	2
Behaviour with backlight	–	–	–	–	3,5

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.



# Test the Best!

In cooperation with Seetec, GIT SECURITY tests current and new video cameras under standardised conditions in the test laboratory of the SeeTec Hardware Competence Center. The Hardware Competence Center 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 at 1000 Lux

Under good lighting conditions the camera provides a clear image with good contrast. The colours were reproduced naturally and without recognisable tint. The image definition is also good, under good lighting conditions moving objects are correctly reproduced and without smearing.

### Performance at less than 1000 Lux

As lighting levels decrease, the image becomes overall somewhat darker, but still remains crisp. The image contrast still remains easily recognisable. A slight drop in the measured frame rate to approx. 20 images/second was detected. Around 5 lux, slight image noise was detectable, image definition worsened and smearing on moving objects was visible.

### Performance in backlight situations

The camera reacts extremely quickly (approximately 2 seconds) when confronted with sudden backlight situations. The spill from the backlight source was clear, glaring effects were visible. No smearing was observed.

### Performance in use: bandwidth measurement

The camera used a bandwidth of on average 3.56 MB/s in linear mode. As lighting conditions change, temporary variations were observed, although the camera attempted to maintain the bandwidth usage at a constant figure.

## Summary

The fixed camera in its compact bullet housing is highly suitable thanks to its design and favourable cost/performance ratio to the surveillance of interior rooms of branch outlets with defined lighting levels, for example in retail shops. The camera provides several image streams in H.264 and MJPEG in HD resolution (720 p) and is powered via PoE. An onboard motion-detection function enables the mounting of simple trigger scenarios directly onto the camera.

## In Focus: Panasonic WV SP105

Panasonic System Networks Europe (PSNE) have provided with the network fixed camera WV-SP105 an affordable i-Pro SmartHD camera for security networks that delivers VGA or 720p HD resolution with up to 30 images per second. The camera works with the Panasonic UniPhier LSI chip and H.264 High Profile Format and features comprehensive Panasonic functions such as the Adaptive Black Stretch technology for a wide dynamic range and Digital Noise Reduction. With this model, the aim of PSNE is to provide cost-conscious customers with a high-quality camera with first-class image quality to provide solutions in the widest possible variety of applications.



## CAMERA TEST

### Technical data for the camera test

Manufacturer	Panasonic
Model	WV SP105
Firmware version	1.01
Distance from test chart	0,4 m
Lens used	3,54 mm, 1:2.2
*Focal length set	3,54 mm
*Compression method	H.264
*Resolution	1280 x 720
*Compression	50%
I-frame interval:	1 second
Max. stream bandwidth	unlimited
Measured frame rate	25 fps
Average bandwidth	3,56 Mbit/s

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

### Assessment for various lighting conditions

Criteria   Lux values	1000 Lux	100 Lux	10 Lux	0,5 Lux	0 Lux + *BL1
Colours	2	2	2,5	3	–
Contrast	2	2	2	3	–
Sharpness	2	2	2,5	3	3
Motion blur	2	2,5	2,5	3	2,5
Image noise	2	2	2	3	3
Compensation time with backlight	–	–	–	–	2,5
Behaviour with 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.

## SECURE IDENTITY SOLUTIONS

# All Standards Combined

## New Legic Reader Chip Generation Manages to Convince through Its Multi Standard Capability

**The market for contactless identification technology is constantly moving. Requirements for advanced security and reliability are increasing, along with demands for comfortable and internationally-flexible use. Manufacturers of readers and credentials, along with systems integrators, require technologies that fulfill high functional requirements and user-related criteria to the same extent. The new Legic SM-4200 reader chip rises to this challenge.**

The established variety of supported applications, such as access control, time & attendance, offline locks, IT access or cashless payments, is only the basis. Due to the extremely small size (8 x 8 mm) and the compact design of the new Legic reader chip, manufacturers are offered even more flexibility in developing their applications. A much longer battery life time also makes the chip attractive for offline applications such as lockers or furniture locks.

### Open Technology Platform

The challenges are even more demanding when considering the complex system of different technologies, manufacturers and industrial standards that characterises almost all modern security solutions. Intelligent basic technology, as used by SM-4200, is open to a variety of standards and transponder types (see box), has a

high level of interoperability and can be easily integrated into existing installations.

Security standards are also increasing on a daily basis. It is therefore more and more important for a technology platform in the field of secure personal identification to include an encryption package that can be upgraded on demand. This openness not only guarantees high

**Legic reader components and systems will support smart cards based on Mifare ICs.**

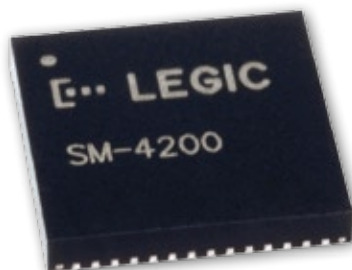
Legic Identsystems Ltd will support NXP Semiconductors' Mifare technology in its reader platforms. Therefore Legic and NXP recently signed a Mifare licence agreement.

Legic will be able to ensure that its reader components and systems are compatible with the portfolio of Mifare-based smart cards, including Mifare Classic, Plus and Desfire EV1. The agreement will foster Legic in its position as a leading supplier of multi-standard identification technology. Users will be able to combine the benefits of the two most advanced contactless technologies worldwide.

By integrating Mifare technology in its Legic reader components, Legic addresses the need to serve global markets with a single reader device and true multi-standard systems. This will provide a wide variety of benefits for customers.

From a technological point of view, the migration from first to more advanced generations of contactless identification solutions will become easier as Mifare Classic or Legic prime installations can be smoothly migrated to latest technology, including Legic advant and Legic card-in-card solutions, a virtual transponder, which can be implemented on the NXP SmartMX secure microcontroller platform.

System operators benefit from the easy handling of multiple technologies. End users will gain more flexibility due to an increased range of selectable applications and possibilities to merge their systems. The agreement accommodates manufacturers and reduces their development efforts and their operational and logistics costs.



New reader chip Legic advant SM-4200 (size 8x8 mm)



## Legic advant – in brief

The Legic advant contactless smart card technology provides support for implementing access control and other personal related applications. It ensures advanced security, scalability, cost efficiency and offers a high level of investment security. Legic advant is currently one of the most innovative and future-proof identification technologies available. With its advanced security features (AES, 3DES, DES) and compatibility with ISO Standards (15693, 14443), this product line is especially suitable for smart card projects such as individual or multifunctional corporate cards and leisure cards. Typical application areas include ticketing, public authority ID projects, general access control solutions and high-security applications such as IT access protection and biometrics.

See also: [www.legic.com/en/legic\\_advant/introduction.html](http://www.legic.com/en/legic_advant/introduction.html)

protection of investments, but also ensures that installations always comply with the most up-to-date security standards.

### Setting Trends

The new development of the LEGIC advant SM-4200 reader chip is perfectly in line with the trend for compact, interoperable and energy-efficient solutions, which can be flexibly integrated into existing infrastructure. Ultimately, the end user's comfort is enhanced through the use of flexible and versatile reading technology.

### Features of Legic advant SM-4200

- RF-Standards
  - ISO 14443 A + B
  - ISO 15693
  - Legic RF
  - Sony FeliCa
  - Inside Contactless
- Supported Legic transponders
  - Legic advant ATC
  - Legic card-in-card solutions AFS
  - Legic prime MIM
- Supported third-party transponders
  - NXP Mifare Desfire, Plus, Smart MX
  - Infineon SLE66

- Texas Instruments Tag-It
- EM Microelectronics EM4035
- Infineon my-d
- NFC Forum Tag, Types 2 / 3 / 4
- NXP Ultralight
- NXP Mifare Classic (UID)
- Sony Felica (plain text)
- Inside Contactless (UID)
- Hid iClass (UID)

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## LCD Monitors with Embedded IP Decoding Solution

With the LCD monitors type Eye-LCD-4700-24NB-IPD8, Eyevis provides monitors with an embedded IP decoding solution. It is based on the manufacturer's NPX-IPD8 decoder unit for netpix graphics controllers. The displays come with a screen diagonal of 47" and offer very high image quality and resolution, narrow bezels and easy operability in 24/7 applications. The solution is also available in 42" (Eye-LCD-4200-24NB-IPD8).

Thanks to the narrow bezel the displays are well suited for modular video wall applications. The gap between the image contents of adjacent screens measures only 30 mm. The Company implemented numerous optimized features to prevent so called "Image Sticking" effects which are likely to occur on other LCD monitors, especially when static content is displayed over prolonged time. Any kind of data such as video signals or computer signals can be displayed. In combination with the Netpix controller and Eyecon software the user can create a video wall system that fits smaller control rooms in which space is a main criteria. The manufacturer provides all necessary accessories for wall and ceiling installations. Moreover, he offers a range of customized solutions (supporting stands, mobile stands, etc.). Special casings are also available (vandalism-proof, environmental influences, etc.). The company's IP streaming video decoding solution offers the next generation of universal decoding of IP streams from cameras, encoders and DVRs over video IP networks. This fully digital solution provides multi vendor capability for the decoding of any integrated IP video stream. Key benefits of embedded IP decoding are e.g.: Universal decoding solution for multiple codec formats and for systems from different camera/encoder manufacturers; reduced costs for equipment, setup, and maintenance; two independent decoding processors per IPD8; fully digital solution with HD image quality; very flexible (upgradable for future requirements) and expandable; Support for H.264 decoding with 25/30 frames/s on all decoder channels simultaneously.



info@eyevis.de

## Alarm Panel with Audio and Video Verification

RSI Videotech's XV-IP is a dual-path (IP + GPRS) alarm panel with built-in audio and video verification. Fully compliant with EN50131, it can handle up to 24 Motion Viewer taking a 10 second video clip upon PIR detection. It provides intrusion information, video and voice verification to the Monitoring Station by the click of a button since it is fully integrated in ARC monitoring software such as Sentinel, MAS and many others. The company's systems are used from residential applications to commercial and outdoor to provide immediate video alarm verification in all types of applications. Designed as a monitored product, the alarm panel complies with all monitoring station verification standards. The panel can be used both for residential and commercial applications that require a higher grade of security (dual-path and audio-video alarm verification). Dedicated to facilitate the ARC's job, the alarm panel will be introduced to the market through RSI Video Technologies' network of distributors, installers, and monitoring station partners. This product is the first wireless video verification IP Panel ever. It incorporates a patented wireless transmitter to accommodate up to 24 Motion Viewer. The wireless technology is a combination of two-way communication through spread-spectrum radio. It carries both the standard alarm signals and the video in the most secure and reliable way available on the market, the company claims. It provides the comfort and the savings of wireless technology with the priority response level provided with video verification without the additional cost of transmission. At the same time, it incorporates the security of a second path of transmission with the GRPS. The transmissions of alarm and video are fully synchronized from the detection point.



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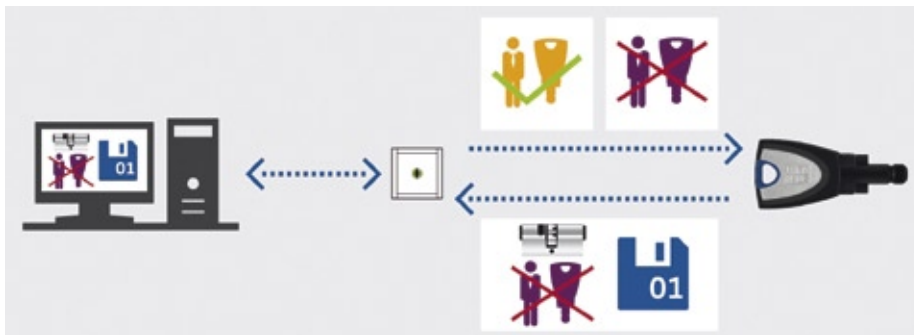
## ACCESS CONTROL

# Data Exchange at Record Speed

## blueSmart Enables Intelligent Access Organisation for Convenient Building Management

A new technology combines convenient management of complex building structures with a subtle, contemporary design: blueSmart is the name of the latest generation of electronic access organisation from Winkhaus. The intelligent system combines the benefits of offline solutions with the features of online solutions. It also increases the efficiency of electronic locking systems and helps support profitable building operation.

Fully electronic locking systems have not only established themselves in dynamic organisations or in buildings where users frequently change. If workers come and go, departments grow or move locations and rooms are used in different ways, these systems enable problem-free organisation of the locking rights by reprogramming the cylinders and keys. Particularly if someone loses a key, that specific key can be disabled almost immediately in the cylinders.



The central computer is used to manage which particular people have access authorisation to specific places at specified times. The booking reader writes the authorisations on the key. Data is exchanged within the system during normal key use using wireless communication. The key also saves data from the cylinders, such as the battery status. The key and cylinder data is transmitted to the central server via the booking reader and can be evaluated.



The new blueSmart electronic access organisation from Winkhaus offers a high level of comfort and flexibility for the user through virtual networking.

With mechanical systems, extensive replacement purchases are often required in such a scenario. Losing a general master key is particularly problematic with these systems, as extensive security measures must be implemented to minimize the risk of abuse resulting from the loss of the key until replacement cylinders can be purchased.

### Innovative Technology

Maximum comfort and extremely high flexibility for the user are the focus of the new blueSmart electronic access organisation. One unique feature is the combination of an electronic locking system and a passive key, which communicates data via a virtual network and enables "viral" command distribution. blueSmart is controlled centrally via the Winkhaus software blueControl. The organisational structures of sites (buildings) and workers (departments) can be used directly for authorisation via segments and groups.

The system enables rapid, wireless transmission of information between the electronic cyl-

inders. blueSmart can also be incorporated into existing systems such as central building control systems, time recording or alarm and energy management. With these benefits, it fulfils the increasing requirements for ease of use and cost efficiency. The new Winkhaus system blueSmart is characterized by a new, modern key design and a whole host of additional functions.

### Data Exchange at Record Speed

blueSmart works with a virtual network in the building. This takes place offline and wirelessly between the installed electronic components, which communicate with each other, process information and pass it on. In contrast to conventional networks, there are no complicated cables, large numbers of converters or wireless links that are prone to failure.

The information is transmitted by the blueSmart key. The key made from high-quality plastic, is watertight (IP 68) and maintenance-free. The battery-free identification device comes fitted with an innovative, intelligent chip. This high-performance chip saves both programmed information and data read from door components. With the intelligent "viral" command distribution function, disable commands for keys can be sent to a large number of doors at record speeds. A master key, for example, can be disabled quickly as follows: On entering a building, every employee receives the disable command for the master key on their own key via contact with the booking reader. The key now conveys the disable command to all locking cylinders in the building with which it comes into contact. The cylinders then pass on the command to other keys which have not yet received it, ensuring that disable commands spread like an avalanche in just a short time.



This means that disable commands can be updated reliably with a completely new level of comfort and at extremely high speeds without accessing each cylinder individually.

### Economic Solution Offers Convenience and Flexibility

The virtual information transmission means that blueSmart removes the need for the manual programming of offline door components almost completely. Administrators and users of locking systems benefit from the comfort of an online system, without compromising on the benefits of offline solutions.

blueSmart cylinders have the same dimensions as mechanical cylinders, so extensive renovation work is not required on the doors when replacing the existing cylinders with blueSmart. blueSmart can offer locking systems with up to 195,000 cylinders or keys. blueSmart systems are also quick and easy to install; only the booking reader has to be networked in the conventional way.

The extended battery service life guarantees reliable, long-term electronic operation. This also means that the maintenance requirements for the system are extremely low. The cylinders' event log is significantly larger than with previous systems. In the event of a robbery, for example, the last 2,000 locking events can be called up with their date and time.



Each employee receives the disable command on their key wirelessly from the booking reader as they access the building. The key now conveys the disable command to all locking cylinders in the building with which it comes into contact. The cylinders pass the disable command on to other keys which have not yet received it. This helps the disable command to spread like an avalanche (viral).

### User-friendly Multi-talent

An electronic locking system pays for itself in no time, particularly if additional functions are used. The wide variety of features offered by blueSmart include an extensive range of functions: The technology handles access control and the use of building automation, logs movements and bills for user-related services in sites with different sizes and uses.

Easy hardware handling and the user-friendly software make the system easier to use. Organisational changes can be instantly programmed into the central computer. Lost keys can be disabled at any time and new utilisation concepts

can be implemented quickly. Access authorisations can be restricted with respect to time and access can also be tracked later where required using the electronic log. The software developed by Winkhaus reliably controls the system.

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### Video Security for Casinos

At this year's G2E Asia in Macau, Dallmeier has presented video security solutions for casinos: high-resolution HD cameras and HD recording devices as well as the high-performance management system SeMSy III. Furthermore, latest developments in the field of third party integration were shown. The full HD cameras Domera are high-speed PTZ dome cameras, supporting both SD and full HD resolutions (up to 1,080 p). The cameras have 248 programmable preset positions and 16 programmable tours. Power supply can be via PoE+ or 24/28V AC. The cameras are equipped with the Caminpix image processing technology and provide clear, high-contrast and colour-true pictures even in difficult lighting conditions, as they may for instance occur at gaming tables or slot machines. In order to be able to transmit, record and archive the high image quality of the HD cameras the manufacturer offers complete HD end-to-end solutions, ranging from cameras to encoders and decoders right up to recording devices and video management software. [info@dallmeier.com](mailto:info@dallmeier.com)

### Weather Resistant Dome Camera

Panasonic System Networks Europe has exhibited its Super Dynamic 6 technology at Ifsec – with WV-CW590, a dome that delivers 160 times greater wide dynamic range, compared to conventional cameras. The all-in-one 24-hour outdoor surveillance camera features 36x zoom and Super Dynamic 6 technology to deliver extreme low light performance for clear identification of suspects in the darkest of scenes. It features a high-resolution capability of 650 TV lines and high sensitivity day/night performance of 0.5 lx (Colour) at F1.4 (Wide), 0.04 lx (B/W) at F1.4 (Wide). The camera also features IR cut filter switches on/off to enhance the sensitivity in black and white mode and with a 36x zoom lens: 3.8–114 mm (approx. 300x with digital zoom) it is possible to enlarge areas of interest with very good results. IP66 ingress protection rating for water and dust resistance means the camera is suitable for a wide range of installation environments and a built-in fan heater allows for significant temperature changes of –50°C to +50°C. [www.panasonic.eu](http://www.panasonic.eu)

### IP Dome with WDR and Low Light Sensitivity

Indigovision has launched an IP dome based on Pixim's 'Seawolf' sensor. It delivers a very good picture quality, even in challenging lighting. Unlike CCD cameras, there is no trade-off between low-light performance and WDR, as the advanced sensor technology allows individual pixels to dynamically adjust to lighting conditions. The dome is part of the manufacturer's end-to-end IP Video solution, with H.264 compression built-in. It delivers video at 4SIF 25/30 fps, with a guarantee that no frames will be dropped even in high-motion scenes. The range includes standard internal, vandal resistant internal and vandal resistant external cameras, with ceiling and wall mounting options and standard or telephoto lenses. The company's analytics and Activity Controlled Framerate (ACF) run in real-time within the dome. Performing analytics at the edge removes bottlenecks and enables instant response, allowing operators to use what is known as 'dark screen' monitoring, where video is only displayed when an incident occurs. ACF controls the framerate of the video stream based on the amount of motion in the scene. When there is no activity, video is streamed at minimal bandwidth; the instant any motion is detected, video is simultaneously transmitted at maximum configured frame rate. [www.indigovision.com](http://www.indigovision.com)





## CCTV

# IP Video Management to Protect Patients

## DVTel Chosen for World-renowned Children's Hospital

**Since its founding in 1852, Great Ormond Street Hospital (GOSH) in London has been dedicated to children's healthcare. Each year, there are over 170,000 patient visits to the hospital. GOSH is at the forefront of pediatric care and nurse and doctor training in the UK. For such a venerable, visible institution, the choice and installation of an advanced, highly effective security system to protect patients and staff was extremely important. The Great Ormond Street Hospital has now installed DVTel's VMS as the central platform for a newly-upgraded IP video management system.**

The solution will manage data from more than 160 IP, High Definition (HD) and analogue cameras, covering the entire hospital complex and monitored from a Central Command video wall, along with dedicated workstations throughout the hospital (where required), and possibly in the future from portable devices such as an iPad. Check Your Security Ltd. performed a CCTV audit at the hospital prior to the project going to tender and was then eventually selected as the integrator for this on-going, high profile project.

### An Upgrade to a 100 % IP System for Greater Flexibility

The hospital approached Check Your Security (CYS) in 2010 seeking to significantly upgrade their disparate analogue video surveillance systems. As a starting point, CYS recommended their Enterprise Audit service. The Audit evaluated every piece of security and network equipment to provide a comprehensive picture of exactly what was in place, technology capabilities, legacy equipment to be utilized in a future solution, and a list of hardware and software options to meet their current security goals.

Upon audit completion, the hospital initiated a tender process to select an integrator and the technologies to meet their advanced security goals. Jonathan Paradi, Mechanical Engineer and Compliance Manager at Great Ormond Street Hospital explained, "We had a number of DVRs and analogue cameras hard-wired back to one location. If we had an incident, in order to find and review that video we basically could only hit rewind and our security room was frozen until we found the right footage. We wanted to upgrade to a 100 % IP system for greater flexibility, the ability to review video anywhere, and to be able to track action and people throughout the hospital's public areas. We were also in need of much better video quality. We couldn't zoom in on incidents and the image quality could not be used for prosecution."

After their selection, CYS met with GOSH officials to reach full understanding on their new system recommendations. CYS provided three or more recommendations each for video management software, cameras and network equipment. The next step was for GOSH staff to experience the recommended technologies in action at actual end user sites. Upon completion of the site visits, CYS and GOSH met to finalize the new system design and the primary choices for each technology.

GOSH selected the DVTel intelligent Security Operations Center as the central component of the upgraded IP system. "The DVTel software sold itself," recalled Paradi, "it was the most user-friendly, it gave us the flexibility we really needed and the ability to utilize existing network infrastructure and a number of the analogue cameras we already had invested in."

### HD Where Identification Is Needed

The hospital will deploy 160+ cameras, 70 % of which are new IP cameras, but all will be on the IP network. Some camera locations require use of HD technology where facial/vehicle identification at a distance was needed. Those locations use DVTel brand cameras and a small number of megapixel cameras. The new system provides video coverage of the entire Great Ormond campus including all critical patient care areas.

With the project just weeks from completion, Paradi is pleased with what he has seen so far, "The system is doing exactly what it is supposed to do. The other day I challenged the guys from CYS to do a test of the video search capabilities – they found the incident I was looking for in a matter of seconds. Our new system seems much more intelligent in the way we can organize and manage the camera views for what we need. This was illustrated in a demo, which convinced us that the solution was a better choice for how our security personnel would operate the system. Also during the demo, camera feeds were streamed to an Apple iPad where we could wirelessly view a real-time stream."

"The goal for our video system is simple: provide higher patient safety. Once, we had a large, temporary generator cabled into an important clinical building, and one night the cables were stolen. Luckily, this was before the generator was being actively used to back anything up, so the situation could have been worse. We had one of the old analogue cameras looking at the crime scene, and we couldn't read the license plate or identify the people. Had that been a DVTel camera on the new system, I'm confident I'd have the information I need. We've got a lot of faith in what the new system will be able to do for us."

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CCTV

# Five Star Quality without the Frills at a Modest Price

## Geutebruck Video System Secures New Concept Hotel

**With the opening in 2010 of his Vasano abito suite hotel in the centre of the German city of Leipzig, hotelier and entrepreneur Gregor Gerlach has introduced a new concept to the German hotel scene: five star quality but without the frills, at a modest price. The Vasano boasts 18 spacious, one and two-storey suites with high quality fixtures and fittings and Italian designer luxury. However, unlike other hotels in its class it has no receptionist, no restaurant, no room service and certainly no pool or gym. Essential services such as security and customer care rely on the video security and communication systems from Geutebruck and ELCOM which link the hotel with two of Mr Gerlach's other business interests – the Vapiano pizza and pasta restaurant below it at ground level and the Seaside Park Hotel a few streets away.**

In the absence of a receptionist, video cameras keep a watchful eye on comings and goings in the entrance hall at the Vasano. You check in using a self-service terminal which looks rather like an ATM machine. It takes payment by credit card and issues a room card which also operates the lift. When you swipe the card in its reader, the lift automatically takes you to the right floor. There is no manual control.

If you need human assistance checking in, then the terminal's two-way video and audio intercom puts you in touch with the restaurant downstairs or with the Seaside Park Hotel reception where help is available round the clock.

### Dome Cameras also Provide Management

If there is ever a problem getting the room card to open a door, help is only a video-call away. Video intercoms and dome cameras are mounted in the corridors on all three floors. Staff at the remote sites can call up video to see both the guest and the door and assess the situation. Besides providing security and peace of mind for guests, the dome cameras in the corridors also provide management with a means of confirming that newspapers and fresh breakfast items have been left outside guestroom doors each morning. The Vasano has dispensed with a breakfast room and breakfast staff too; everyone takes breakfast in their own room. Each suite has its own mini-kitchen with a coffee machine, mini-bar and fridge ready stocked with other breakfast ingredients.

### Easy to Use, High-end Performance

Like the Vasano abito, the Vapiano restaurant and the Seaside Park Hotel also have Geutebruck CCTV equipment. Each has a re\_porter-16 platform with dome cameras. All three video systems were installed by Leipzig company, Cherier Elektrohandel Elektromontage GmbH. The proprietor, Mr Cherier is a keen advocate of Geutebruck equipment. "We have every confidence in the brand. We know that it always works!" In his view, being easy to use and with high end, real-time performance, the re\_porter was an obvious choice for this project and this client: "Mr Gerlach is well-known for his use of high quality materials and equipment so Geutebruck's reputation is a perfect fit." You can see what he means: 'five star quality, without the frills at a modest price' is pretty well how Geutebruck sums up its re\_porter!

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CCTV

# Sales Away

## An Interview with James Walker about the 10<sup>th</sup> Anniversary of Dallmeier UK and the Way Forward



James Walker, Managing Director of Dallmeier UK

**A long financial crisis; increasing material costs; more frequent crime; higher electricity charges; new formats and standards; ever more stringent environmental regulations – the manufacturers of security products don't have a quiet life and are constantly being faced with new challenges. GIT SECURITY spoke with James Walker, Managing Director of Dallmeier UK about how his company is plotting the course ahead.**

**GIT SECURITY:** Mr. Walker, this year Dallmeier UK is celebrating its 10<sup>th</sup> Anniversary. Which markets do you cover and what services do you provide?

**James Walker:** Dallmeier electronic UK Limited was founded in 2001 and has grown into a highly successful subsidiary providing sales and technical support to the hundreds of satisfied Dallmeier customers throughout the UK, Ireland and Iceland. The UK team comprises a nationwide sales team, technical support engineers providing both telephone and on-site support as well as finance and marketing administration staff. The whole of the Dallmeier product portfolio is available from Dallmeier UK. Our customers are always encouraged to visit our offices at Pucklechurch on the outskirts of Bristol where they'll find a personal and friendly service. The premises have fully equipped meeting, demonstration, training and workshop facilities.

**The current economic situation is certainly not easy. How are you managing to stay successful in spite of this?**

**James Walker:** Over the last 18 months we have seen a dramatic change in all three markets of our UK operation. The economies have all taken a downturn, and this has also affected the CCTV in-

dustry. In the main, this has led to project delays. However, over the past 10 years, we managed to capitalize on Dallmeier's reputation for high quality, performance-proven solutions. We have a loyal band of end users who have taken advantage of our products and our after-sales service over many years. This has helped us to maintain a similar presence in the market that we have established over the last 10 years. The customer is at the heart of all that we do and customer relationships are key to our development. We're not interested in selling a box but a solution, and to that extent we want to get involved in our customer's projects to ensure that the correct products are being used to optimum effect. So we ensure relationships are sustained so that we know when new opportunities are arising. Reference sites are essential too of course, and also a visit to the headquarters in Regensburg can help seal a deal or confirm a relationship.

**What are the most important products, user requirements and technical trends?**

**James Walker:** As I mentioned in my previous answer, certainly the most important product shift and technical trend that is on everyone's minds is that of HD technology. HD and the HDTV standard are something that can be related to by the majority of people in everyday life. HD is already

in their homes in the form of TV entertainment, mobile phones, camcorders and laptops. This technology has now found its way into video security technology. Dallmeier already offers high value, full HD components and complete solutions from HD cameras, HD encoders and decoders, streamers and HD recorders for every surveillance system. One of our latest range of cameras eliminates any concern regarding the use of HD cameras in the hours of darkness. These IR cameras are high-resolution cameras and their unique and novel IR lighting concept provides outstanding images, also at night. Although the cameras have integrated high performance lighting, they only require a PoE supply. This is achieved through the very high efficiency factor of the internal array of IR-LEDs. Apart from that, another important product or trend would be the interest in video analytics and video sensor technology. These days, video sensor technology, the continuous analysis of the video data stream, outperforms the simple motion detection which has become an integrated feature in numerous products by far. With our new DVS 1600 we have developed a product that is optimized for the professional continuous operation 24/7 and it offers analysis, recording, transmission and research in one system. The DVS 1600 has a very low false alarm rate thanks to comprehensive validation mechanisms. It is equipped with



Sedor self-learning event detection and available in both analog and IP variants.

**What other crucial topics might be of particular importance for your region at this time?**

**James Walker:** Probably the biggest topic in everyday life, not only in the UK but across the globe, is the big question of the carbon footprint normally associated with the topic of environmental and green energy. Environmental protection - ‚green global security‘ - is a major concern for Dallmeier and in this regard the company's efforts far exceed the legal requirements. Waste avoidance and low energy consumption during the manufacturing process as well as the use of recyclable materials are equally part of the corporate philosophy, as is the orientation of product development towards environmentally friendly and ecologically efficient devices. Sustainability and compatibility are key concepts in this context. Therefore, we always aim, for instance, to keep the energy consumption of our devices as low as possible. This effort not only results in falling energy costs but also saves the environment. Furthermore, the products are characterized by their longevity, which is another aspect of ecological thinking, because what can be used for a long time and does not need to be replaced avoids environmental stress. Dallmeier regards it as part of its corporate responsibility to holistically integrate the protection of the environment into its thinking and acting and to continuously work on further improvements. Our aim is for our products to contain only components which conform with the requirements of the directive. Dallmeier has reached early agreements with its partners on a logistically practical and cost-neutral system for returning old equipment at the end of their use and on a cost incurring system on the basis of an exchange scheme.

**What is the latest product to emerge from the Dallmeier development team?**

**James Walker:** Our newest hybrid product, the Smatrix appliance, is truly small, smart and green. It is a

Video IP device with an integrated storage system, perfectly tailored to the needs of video security technology. In the camera field, our latest innovation is Panomera, a completely new HD camera technology that eclipses all previously known approaches. Panomera was specifically developed for the comprehensive surveillance of spacious areas, offering a unique panoramic overview with simultaneous real-time recording at up to 30fps. Panomera delivers highly detailed images even at large distances, which sig-

nificantly reduces infrastructure requirements. Projects which previously would have required multiple HD cameras can now be realized with a single Panomera system. This cutting-edge technology will be on show at this year's Ifsec on stand D80 in hall 4.

**And finally, what are your hopes for the future?**

**James Walker:** Continued success! We currently have a fantastic team of people in the UK. With great peo-

ple, offering tremendous enthusiasm and commitment, we are confident of a bright and successful future.

**Mr Walker, thank you for this conversation.**

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CCTV

## Checking Waste

**Cameras Reduce Illegal Dumping in Pennsylvania**

**Alburtis is a borough in Lehigh County and a suburb of Allentown in the state of Pennsylvania, USA. Residents of Alburtis can dispose of lawn clippings, tree limbs and shrubs at the local yard waste center. However, Lehigh County needed to prevent disposal at the center of prohibited items such as construction debris, propane tanks and household garbage. The borough has a lot at stake in its efforts to prevent illegal dumping, from possible damage to the environment to harmful fumes, toxicity and deadly fire risk.**

More specifically, the Alburtis Police Department wanted the ability to clearly identify any-one dumping prohibited items, and to see what type of materials they were dumping via remote video monitors at the police station and borough building. Alburtis was able to accomplish its surveillance objectives with a video surveillance system that uses only three cameras – two

Megadome AV1355DN 1.3 megapixel H.264 day/night dome cameras for license plate viewing, and one 180 degree panoramic AV8185 8 megapixel H.264 camera from Arecont Vision – for a comprehensive view of the waste center yard. The single panoramic camera installed provides as much coverage as up to 24 standard resolution cameras.

The borough turned to Michael Miller, President of The Wire Guys located in Alburtis to design and install the cameras, server, system setup, and provide training. Miller recommended these cameras because of their competitive pricing, H.264 compression to minimize bandwidth and storage needs, and because of the availability of a 180 degree panoramic megapixel solution.

The newly installed system at Alburtis' yard waste center is integrated with an existing video surveillance system at the borough building/police station via a cable modem that streams live video back to the police station for remote live viewing and web viewing from police cars over a cellular network. The system employs network video recorder software from Exacq Technologies and a Wire Guys custom-built network video recorder with 750 GB of storage. The collaboration between the companies ensured interoperability of the megapixel cameras with the NVR platform.

### Highly Compressed

The day/night dome cameras with auto exposure and gain control provide 1,280 x 1,024-pixel images at 32 frames per second. This all-in-one integrated camera and lens in an IP66-rated vandal resistant polycarbonate dome housing features a 1/2" CMOS sensor and technology that processes video at over 80 billion operations per second. It pans the full 360° and has a 90° tilt adjustment. The camera uses H.264 (MPEG 4, Part 10) compression to minimize



A step up in surveillance





Recycling is strictly controlled



Vandal and squirrel-proof mounting

bandwidth and storage requirements while maintaining real-time image frame rate. Additional capabilities include motion detection, picture-in-picture, image cropping and region-of-interest streaming as well as RTSP capability which makes them compatible with Apple Quicktime, Windows Media Player or VLC player, for example. Light sensitivity of 0.1 Lux at F1.4 enables low-light viewing and recording, and the day/night version used by the borough of Alburdis has a motorized infrared cut filter.

The 180 degree panoramic camera is an 8-megapixel network camera built into an IP66 dome housing with four 2-megapixel sensors that provides up to 6,400 x 1,200 pixel images at 5.5 frames per second. The camera can be set for lower resolutions at higher frame speeds, such as 1,600 x 1,200 pixel images at 22 fps or 800 x 600 pixel images at 88 fps, and combines both H.264 and JPEG compression. Light sensitivity is 0.2 Lux at F2.0, and the AV8185 provides image cropping with up to four regions of interest. The camera can optionally be fitted with a heater/blower should the environmental conditions demand it and a range of different brackets are available to mount the camera. These cameras provide the borough of Alburdis with an ideal combination of HD image quality, variable frame rates, low bandwidth, and lower storage requirements.

#### Plates and Faces

During the proposal phase of the project, users at the borough were soon impressed and convinced that the exceptional image quality and coverage capabilities provided the resolution they needed for both real-time and playback modes to enforce local ordinances. Alburdis system operators can zoom in for up-close views, even on stored images, view specific parts of a larger image – a person's face or a license plate

number, for example – without any loss of detail.

The cameras have proven to the borough that megapixel imaging is suitable for almost any application and represents a significant upgrade in system functionality compared to standard-resolution cameras. In addition to lower bandwidth and storage requirements, megapixel cameras dramatically decrease costs related to other elements of a system, such as fewer software licenses, less cabling, fewer lenses, and a decrease in the man-hours needed to implement the system.

The system has already proven successful to date allowing the police to identify and issue citations to people who discard anything but acceptable yard waste. "People were using the location to discard everything from old decks and propane tanks to household trash," said Alburdis Police Chief Robert Palmer. "We wanted a system that could be used to identify people's faces, to read their license plates and to see what they are disposing of. We were able to meet those requirements using only three cameras as part of a simple system at a very reasonable cost." Miller added: "The customer is very happy with the system and has had no issues."

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#### Optic Media Converter

Comnet Europe has expanded its Ethernet product line by introducing a 1000 FX fiber optic media converter with Power over Ethernet (PoE). The CNGE2M-CPOE provides a PoE function to those POE compatible peripheral devices. This device supports the latest IEEE 802.3at PoE standard for use for as Power Sourcing Equipment (PSE), supplying up to 25 Watts of power. Designed for use in harsh environments, these products allow 10/100/1000TX Ethernet data to be transmitted optically over either multimode or single mode optical fiber, by application-specific, optional SFP modules. According to Steve Clarke, the Company's Europe Managing Director, "Power over Ethernet is becoming a very desirable feature. Throughout the market we are seeing more and more devices such as IP cameras and other peripheral devices that are POE powered. With this feature, and with the desire of many users to exceed the existing 100 m transmission distance limitation of Cat-5e cabling, Comnet now offers a PoE solution where the transmission distance may be significantly extended, with no loss of bandwidth." [faith@comnet.net](mailto:faith@comnet.net)



#### Fisheye Fixed Dome Network Camera

Vivotek FE8171V is the manufacturer's first fisheye fixed dome network camera, featuring detailed 3-megapixel resolution with superb image quality. Equipped with a fisheye lens for 180° panoramic view (wall mount) or 360° surround view (ceiling/floor/table mount) without blind spots, this camera is able to provide an eight times wider field of view than a standard VGA camera, significantly reducing the need for multiple camera installations. It is extremely suitable for monitoring open areas such as airports, shopping malls, parking lots, retail stores, offices, and much more. The camera offers more than seven display layouts, including original surround view, panoramic views, and regional views for various mounting applications. With the latest image processing, hemispherical images captured from the fisheye camera can be converted into conventional rectilinear projection for viewing and analysis. In addition, in the panoramic and regional viewing modes, users can utilize the ultra-smooth e-PTZ function to easily zoom in and focus on a region of interest (ROI). [www.vivotek.com](http://www.vivotek.com)





## CCTV Clear Vision

### Sony's Video Surveillance Offering: Presenting a Wider Range of HD Products

**Sony Professional announced a host of new security products at Ifsec 2011, continuing its commitment to developing state-of-the-art HD video security solutions and bringing the benefits of hybrid and Full-IP security systems to organisations of all sizes.**

As the market sees continued investment and growth in HD, with the latest IMS Research figures showing approx. 50 % of network camera revenues now come from HD and megapixel. Sony has enhanced its video surveillance offering to meet these demands by presenting a wider range of HD products from the entry level right up to the top end of the market.

The company has launched six new Pan-Tilt-Zoom (PTZ) cameras including HD/Full-HD cameras from its SNC-EP and SNC-ER Series at Ifsec 2011. By doing so, Sony has bolstered its ability to offer customers a complete HD security solution, from initial image capture to playback, regardless of the recording scenario.

#### Diverse Range of Customer Needs

The SNC-EP Series is a range of network cameras with 340 degree rotation and excellent cost performance, while the SNC-ER Series network cameras have 360 degree endless rotation and are suited to monitoring applications for wide-area surveillance. Both series now feature three different models to cater to a diverse range of various customer needs. The line-up comprises models compatible with Full-HD (1080p) out-

put, HD (720p) output, or SD output, respectively.

By incorporating an optical block developed by Sony itself, Sony has succeeded in creating Full-HD-compatible network cameras with the industry's top class high magnification zoom functionality. The SNC-EP580 and SNC-ER580 network cameras feature 20x optical zoom with Full-HD (1,080p) resolution, while the SNC-EP550 and SNC-ER550 feature 28x optical zoom with HD (720 p) resolution and the SNC-EP521 and SNC-ER521 cameras feature 36x optical zoom with SD resolution.

#### City Surveillance, Airports, Stadiums

To date, the majority of models available in the HD PTZ market are less than x20 optical zoom, which limits the usage of HD in outdoor applications, such as city surveillances, airports, ports, stadiums and car parks. With this breakthrough x28 times optical zoom with HD (720p) resolution technology, Sony has now made most of these outdoor applications possible. Also, the 360 degree endless pan rotation and the 210 degree tilt up mechanism, give this camera further flexibility to survey the scene anywhere around the camera without limitation.

Another key technology breakthrough is "Real Colour" capturing. Traditionally under the sodium street lamp environment, it is almost impossible to describe the colour of the car if it's dark blue or grey under the lighting. But with „Real Colour" capturing capability, the camera can provide the real colour information of the object even under sodium street lighting. This will bring an evolutionary picture quality improvement for any outdoor applications, such as city surveillance, for which colour identification is crucial to understand the incident.





Akitoshi Oku (center) with Yu Kitamura (l) and Tomoyuki Suzuka (r). Yu Kitamura commented: "We are positioned to offer market leading solutions and bring the benefits of HD, hybrid and Full-IP solutions to entry-level markets."

The SNC-ER550 and SNC-ER580 have also been shortlisted as finalists of the Ifsec Award of „CCTV Camera Equipment of the Year“.

### Superior Cost Performance, Large Storage Capacity

At Ifsec Sony also announced the latest additions to its analogue and Networked Security Recorder (NSR) offering with its NSR-500 and NSR-520 Series. These products are set to radically change the market as, to date, the analogue system has been mainstream in the security surveillance camera market, but this breakthrough represents a major shift towards Network Cameras that are compatible with high-resolution HD video.

The new NSR-500 Series boasts a Full-HD-compatible (1080p) 16-channel Network Video Recorder capable of recording Full-HD video images from up to 16 cameras at the rate of 30 frames per second. In addition, this model is equipped with a built-in hard disk drive with scalable storage capacity of up to a maximum 12TB. This Recorder offers superior cost performance in addition to its large storage capacity.

The NSR-520 Series is a Network Video Recorder equipped with a HDD with maximum 2TB storage capacity, all housed inside a compact unit. This Recorder can record high-resolution Full-HD video from up to eight channels.

This latest addition of the 8-channel "NSR-520 Series" and 16-channel "NSR-500 Series" to Sony's existing 4-channel "NSR-S10 Series" and the maximum 64-channel "NSR-1000 Series" completes Sony's extensive product line-up of HD-compatible Network Camera Recorders, ranging from four channels right through to 64 channels.

### Yu Kitamura: 2010 Milestone Year

Explaining Sony Professional's proposition at Ifsec 2011, Yu Kitamura, European Marketing Manager, Sony Professional commented: "2010 was a milestone year for Sony Professional, setting ourselves apart as a leader in HD, support-

ing the industry's move from analogue to IP and continuing to develop innovative security solutions that fit a broad range of budgets and security requirements. With the launch of the new camera ranges and two new NSR products we are uniquely positioned to offer market leading solutions across the entire security infrastructure and bring the benefits of HD, hybrid and Full-IP solutions, to entry-level markets."

### Hybrid Cameras: Over Coax

Sony recently announced that it has formed a business partnership in visual security with US semiconductor manufacturer Intersil Corporation, for worldwide development of the industry's first hybrid network camera capable of simultaneously transmitting both analogue SD and IP HD images over a single coaxial cable. Sony's new 'hybrid cameras' are the first in the industry to be equipped with IC chips that use Intersil's SLOC (Security Link over Coax) technology, thus eliminating any need for new cables to be laid or replaced within the building. This in turn enables the existing infrastructure environment of coaxial cables for analogue SD cameras to be used as is, thereby drastically reducing installation costs and facilitating effective use of available cable resources from an environmental perspective.

The market introduction of the 'Hybrid Camera' is planned for the latter half of its fiscal year (April 11–March 12) as part of its line-up of security cameras, which currently includes SD-resolution analogue cameras and HD-resolution IP network cameras.

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### Dome Camera with Built-in IR LEDs

Samsung has introduced the SCV-2081R, a high performance, compact, vandal-resistant dome camera with built-in IR LEDs enabling it to capture 600 TV lines resolution images at



night, without the user incurring the cost of providing supplementary lighting. Suitable for a wide range of internal and external applications such as offices, retail stores, schools and hospitals, the IP66 rated dome camera will work effectively in more demanding environments that are prone to severe or varying weather conditions as well as tampering or physical attack. The built-in IR LEDs equip it to capture clear images of objects even when the scene is in total darkness. The intensity of the IR LEDs is automatically adjusted according to the distance to the subject it is viewing in order to eliminate bright highlights and to ensure a perfectly balanced foreground and background image. [STEscurity@samsung.com](mailto:STEscurity@samsung.com)

### Integrated Infrared Cameras

The WZ Series Integrated IR Bullet and Dome Cameras from Bosch Security Systems provide reliable round-the-clock surveillance in any lighting condition. The cameras offer resolutions up to 540 TVL and night vision imaging up to a distance of 45 m (150 feet). Integrated active infrared illumination delivers low-noise images at night to minimize video storage requirements. The photocell-controlled LEDs provide accurate on/off switching for optimum performance and energy efficiency. At the top of the line, the WZ-20 delivers 540 TVL high-resolution imaging and a 5–50 mm varifocal auto-iris IR-corrected lens, which delivers the same sharp image quality day or night. With 30 high-power LEDs, the infrared capability provides night vision up to 45 m (150 feet), and CCD technology from Bosch delivers outstanding response to infrared illumination with low-smear and low-streak images. The WZ-18 features a 2.8–12 mm varifocal auto-iris lens and a dual window IR-Cut and IR-Pass filter for vivid color during the day. The WZ-16 includes a 3.8–9.5 mm varifocal lens with mechanical filter technology for accurate daytime colour. Both cameras deliver night vision up to 20 m (66 feet). In addition, the affordable WZ-14 has a 4 mm fixed lens and infrared capabilities up to 15 m (49 feet). The user-friendly WZ-45 Integrated IR Dome camera uses a 540 TVL mechanical filter CCD and 18 high-efficiency LEDs for vibrant daytime color and 18 m (60 feet) of active infrared night vision.



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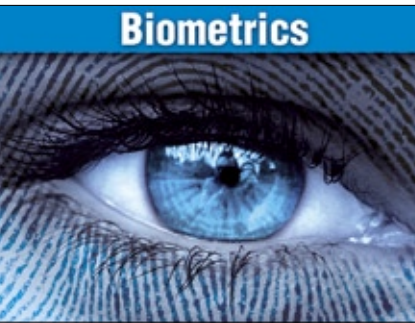
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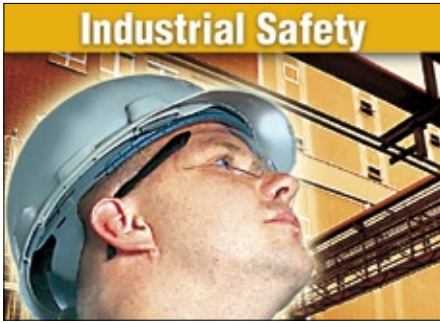
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