

Volume 9  
November 2013

**GIT**

EMEA Edition

# SECURITY

MAGAZINE FOR SAFETY AND SECURITY

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Airport and Air Cargo Security

Alarm Systems

Access Control

Video Surveillance

Branch Focus Casinos

Camera Tests

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to Protect People and Assets**

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# A Meaningful **Message**



For more than 10 years our publishing house is part of Wiley's worldwide publishing activities. My colleagues and I have joined for some initiatives that go beyond publishing magazines. During the last months we have launched a content marketing group that offers content marketing services to Wiley's global customers. Content marketing is any marketing format that involves the creation and sharing of media and publishing content in order to acquire customers. It is focused not on selling, but on communicating with customers and prospects.

Why do I mention this here and what does this have to do with safety and security? I mention it because the basis for all content marketing activities is the search for relevant content and meaningful messages that you can share. And while working on content marketing projects I realised more than ever that there are not many industry sectors that have such a great message to tell like our industry. Unfortunately the message that reaches the public audience is more often linked to the negative side of our business: Data protection violations are in the news, long queues caused by security checks get on people's nerves, fire protection measurements are delaying infrastructure projects.

We will have to change the perception of our work.

"Saving lives is what we do best. Protecting property is our passion", one of our customers advertised in the last issue of GIT SECURITY. This is just one example of a strong message we can tell our customers, the people that we serve, our friends and families. Maybe it is a good start to reflect less on the technology that we use to do our job and to talk more about the purpose of our work and the meaningful message that we have to share: The work of people engaged in security and safety makes a difference to the lives of others.

Enjoy reading this issue!

Heiko Baumgartner  
For GIT's Safety and Security team

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### HID Joins Secure Identity Alliance

HID has joined the Secure Identity Alliance, the industry's reference body for secure documents and eServices. The Alliance was created in May 2013 to promote the usage of government-issued e-documents, such as national identity, health cards, driving licenses and e-passports, for increased security and to encourage

deployment of secure, convenient online services to strengthen end-user privacy. Since its launch, the Alliance has created two working groups for "Secure Documents", and "Digital Identity" to tackle the ongoing security, identity and privacy challenges faced by governments.

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

### Morse Watchman Key Control for Casinos

At Sister Properties Casino Arizona and Talking Stick Resort in Scottsdale, Arizona, the Morse Watchmans Keywatcher key control system is used to store, control and track keys that are used for access to all the most sensitive and highly secured areas of the casinos where money and chips are held, including the slot department and cages. The system is also used by the casino's security departments to store and track keys needed throughout the facilities. Designed for optimum key security, the key control cabinets will not open until

the system verifies that the user has permission for the specific key requested and the system automatically records all activities. The system and the accompanying Keypro software, in place since 2004, enable Casino Arizona and Talking Stick Resort to meet the various Arizona Indian Gaming Statutes regarding key control and management. Custom software enables the casinos to set up all these and many other types of reports, which can be emailed to management on a regular basis.

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

### Hikvision Strengthens Partnership with Milestone

Hikvision IP video devices are completely integrated with the Milestone XProtect video management software. As a result, the company's full range of network cameras, network speed domes, and video encoders now support Milestone's full range of XProtect VMS (including XProtect Corporate, XProtect Expert, and XProtect Enterprise, among others). "With this integration, we now support the majority of Hikvision's extensive product portfolio which

are requested from customers globally. The real focus has been to support the advanced feature set on our cameras and encoders like Edge Storage, which will allow these customers to implement advanced, scalable and yet cost-effective solutions," commented Henrik Hansen, Head of the Manufacturer Alliance Program (MAP) at Milestone Systems.

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

### Traka: 16 New Resellers in 2013

Traka has appointed 16 new resellers in 2013 including ten in Europe and five in Asia. They join a network of 40 global resellers spanning countries such as Hong Kong, Turkey, Colombia and Poland. 2013 has seen the highest rate of reseller appointments for the company so far as a direct result of the indirect channel

strategy being implemented by Brenda Taylor, sales & marketing director, since her appointment in January. To continue the growth of the business internationally, and pursue the channel strategy, Stephanie Hensler was recruited last month as International Channel Manager.

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

### Australian College Deploys Salto Solution

St Paul's College in Sydney, Australia, is an all-male Anglican residential college and affiliated with the University of Sydney. Founded in 1856, it is Australia's oldest university college. The buildings date from the late 1850's up through to



those constructed in the 1960's, 70's and 90's. There had been many changes to the locking installations over the years meaning the college had ongoing problems with students losing keys giving them the expense of having to replace locks and keys on a regular basis. This meant that security could have the potential to be compromised at times, making it difficult to ensure the safety of students and their assets. As a solution Salto Geo was chosen as it has been specially designed and developed for use with doors where normal escutcheons cannot be fitted or are not allowed

i.e. on certain types of fire doors, some multipoint locking systems or, as in this case, antique doors in historic or listed buildings. The locks can be fully integrated with the company's platform, and are a versatile, cost effective solution. They incorporate patented Data-On-Card SVN (Salto Virtual Network) which can manage many thousands or even millions of individual doors and users if necessary. This allows the stand-alone cylinders and locks to upload, store and download the latest access information as people use their RFID fobs around the College. [www.saltosystems.com](http://www.saltosystems.com)

### EE Uses Nedap's Aeos

Aeos, the security management platform from Nedap has been chosen by EE to provide their new access control platform. EE, a UK digital communications company, plans to expand throughout the UK. The software-driven platform couples functionality and powerful hardware, tailored for individual configurations. It can be adjusted and expanded to meet future expectations. EE can ac-

cess system their new system anywhere due to the 100% web-based interface and have saved from not installing client software at any site. The installation of the project is to be carried out by Nedap's partner Reliance High Tech and the three-way partnership of manufacturer, integrator and customer will combine to map out the future security for Everything Everywhere. [www.nedap.com](http://www.nedap.com)

### Combined Technologies from Barco and Genetec

Barco and Genetec now offer optimized perspectives to enhance situational awareness, thanks to a new, Barco CMS plugin technology inside Genetec's flagship Security Center unified security solution. Ensuring the security of critical public infrastructures in major cities and private corporations is of paramount importance to surveillance centers charged with protecting public safety and valuable intellectual property. Genetec's Security Center seamlessly blends IP security streams from its Omnicast Video Management, Synergis

Access Control and Autovu License Plate Recognition modules into a single intuitive interface, providing a comprehensive solution for visually managing and addressing incidents and events. The CMS (Control room Management Suite) plugin provided by Genetec integrates with Barco CMS-200 software to enable simultaneous display of video and security events on Barco video walls or any Barco CMS-powered display, helping operators identify and quickly respond to security threats. [www.barco.com](http://www.barco.com) · [www.genetec.com](http://www.genetec.com)

### Kentec Makes Global Sales Appointment

Kentec Electronics has appointed Jonathan Gilbert as General Manager, Global Sales, to head up the company's business development team and work closely with the company's in-house sales operation. Jonathan Gilbert brings with him a wealth of Fire Industry experience. Over the last 16 years he has combined both his technical and business skills in the Commercial, Industrial and Oil & Gas, Marine and Offshore sectors for applications spanning Fire, Security and Building Management Systems. For more than 20 years Jonathan's focus has been inter-



national, including an overseas posting in Asia, which helped him develop an understanding of the many subtleties required in different markets.

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

### Videotec Appoints New Marketing Manager

Videotec has appointed Alessandro Franchini as their new Marketing & Communication Manager. He will manage the marketing team in order to improve and optimize the communication dedicated to customers and partners of the Company all over the world. Alessandro Franchini has worked for over ten years in the international b2b exhibitions field. His most recent position was as International Business Development Manager in a leading Security Media Company in Russia,



he organized N.3 International Security exhibitions every year in Moscow.

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

### Primion: Partner in South East Asia

Primion Technology's new Partner Concept has got off to a good start. Within a period of just one year, the company has attracted new partners in Austria, Denmark, England, Hungary, Poland and Singapore. Many of the contracts have already been signed and discussions are underway with more potential partners in Algeria and South Africa. The latest member of the partner network is the IPS Securex Company from Singapore. The company supplies Security Solutions to cus-



tomers in Singapore, Indonesia, Brunei, Malaysia and Vietnam. Included in the company's offering is scanner equipment both for persons and cargos, Video Surveillance and Access Control systems and Hazard Detection systems, e.g. for identifying water contamination, eavesdropping systems and much more besides.

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

### Norbain Appoints New Divisional Director

Norbain has appointed Gary Rowden as Divisional Director of Sales – South. He joins the company with great industry experience, having worked for Anixter International as Sales Director and, more recently, Samsung Techwin Europe as Sales & Marketing Director. Gary Rowden is no stranger to Norbain, having previously worked for the company for eight years as a Regional Sales Manager. He will be working with the sales team to help develop sales in the South of England. He comments, "It's a great opportunity to be able to work at Norbain



again. The business has moved on considerably in the last twelve months, especially in its approach to IP, which is now a key focus area."

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

### New Chairman of SimonsVoss Management Board

Bernhard Sommer took over as Chairman of the Management Board at SimonsVoss Technologies. The 49-year-old engineer and business graduate successfully managed Somfy over the last few years and is strongly identified with the success story of this world market leader in drive and control solutions for access, roller shutters and solar protection systems. "I got to know Simonsvoss as a thriving, leading company in a dynamic market. Thanks to its innovative product portfolio and a highly motivated team of employees, I can see further opportunities for growth in Germany and on the international market." Sommer intends a "consistent expansion of



our partnerships with value added resellers and sustained stimulation of the market for electronic lock systems. I see strategic technology leadership and intensification of our marketing activities as key components in our future operations."

[www.simons-voss.com](http://www.simons-voss.com)

### Apollo Strengthens Senior Management Team

Apollo Fire Detectors has appointed Chris Moore as Technical Director. In his new role, he will be responsible for the delivery of new product developments in line with the business technology strategy, with a key focus on fire detection for wireless and loop powered product lines. On a day-to-day basis, Chris Moore will work with UK and international technology partners including suppliers, design engineers, customers and panel partners to ensure that Apollo's extensive product range meets industry needs. Prior to joining the company he held a number of senior



engineering management roles for companies in the Aerospace and Defence industries. Previous experience includes R&D Director at Thales, as well as senior roles at Smiths Aerospace and Nokia.

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

### Intersec 2014 Set for Record Edition

Epoc Messe Frankfurt, organizer of Intersec, the region's safety, security, fire protection and policing trade and networking exhibition, is expecting the 2014 edition to be the biggest yet. With over 80% of exhibition space already sold out, Intersec 2014 looks set to break all previous records in terms of both participation and attendance. Already all of the world's ten largest security companies have confirmed attendance, including Honeywell Security, Bosch Security Systems, Assa Abloy, Flir Systems, Axis Communications, Samsung Techwin and Tyco International along with 150 exhibitors making their regional debut. According to Ahmed Pau-

wels, CEO of Epoc Messe Frankfurt, the success of the event is being driven by the rapid development of the safety and security industry regionally. "Across the Middle East authorities are improving security infrastructure, enhancing policing and crime fighting capability and concentrating on maintaining a peaceful environment. Furthermore, with the renewed vigor in the construction sector and an increase in projects at finishing stage, demand within the private sector also continues to rise. This all makes the region a high-priority market for international manufacturers and suppliers."

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

### Milestone Integrated Solutions Get Certified

Milestone Systems offers full and documented testing by Connex International for certification of Milestone Solution Partner integrations. More than a dozen Solution Partners already have achieved certification: Agent Vi, Briefcam, Oncam Grandeye, The Hawkeye Effect, Ipsotek, Mango DSP/Mate, Open Options, Prism Skylabs, Sen-

try 360, Technology Associates (TEAS), Technoaware, Viasys and VIT. These include analytics, video synopsis, 360° camera view dewarping, geo-spatial positioning, and access control. The Company's open platform VMS enables innovation through integrations with XProtect video surveillance software. [www.milestonesys.com](http://www.milestonesys.com)

### Sicurezza 2014

The next Sicurezza, the International Biennial Exhibition of Security & Fire Prevention – organized by Fiera Milano – takes place from 12<sup>th</sup> to 14<sup>th</sup> November 2014. The thirtieth edition attracted 16,136 visitors and 418 exhibitors, of which 35% were international exhibitors from 33 countries. One objective of Sicurezza 2014 is to confirm its reputation as a venue for exchange and development for one of the few industries that continues to hold its market share and grow in research and development, despite the continuing and pervasive economic uncertainty. The Italian market closed the 2012 with total revenue up by 1.3%, confirming its overall value of nearly 2 billion euro. The rapid technological evolution and powerful integration already underway in the supply chain signify an important strength in the sector,



making it vital to ensure continuous and increasingly important training at all levels, to achieve the highest quality in the design, installation, maintenance and verification of the effectiveness and efficiency of the technology in use. In Brazil, the Cipa Group, Fiera Milano's exhibition branch, is organising two shows with ample scope for all of South America: Exposec, an international Security exhibition, and FISP, the International Security and Personal Protection Trade Show. Both events will be held in Sao Paulo in the Imigrantes Exhibition Centre.

[www.sicurezza.it](http://www.sicurezza.it)

### Samsung at London University

Samsung Techwin DVRs are at the heart of new CCTV systems installed by Link CCTV Systems at eight University of London Halls of Residence buildings. The new CCTV systems provide fixed static camera monitoring of all points of entry/exit and security reception areas, with the captured high resolution images recorded in real time and stored at full frame rate for 31 days on Samsung SRD-1670DC Digital Video Recorders (DVRs). The CCTV project was driven by on-site TFM provider, Balfour Beatty Work Place (BBW) which manages 31 buildings for the University, including the eight Halls of Residence buildings and a large external precinct in the Bloomsbury area, which provides access routes to several Colleges within the area, including SOAS



and Birkbeck. Balfour Beatty WorkPlace provides total facilities management services to sites across the University of London's entire estate. Its dedicated team, working with the University's FM team, delivers a full range of services, including mechanical and electrical maintenance, grounds, security, reception, post and cleaning. Of the 31 buildings that BBW manage, 14 buildings and the external precinct area were already covered by existing CCTV systems.

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

### CCF and Eneo: Distribution Partnership for France

CCF (Comptoir des Courants Faibles) and Eneo will collaborate in a distribution partnership in the future. The French distributor specializes in security, data transmission and communications technologies, offering its customers a comprehensive portfolio which covers all segments from cable technology through video security and video management right up to access control. With its ten subsidiaries CCF is well established in

the French market. Jochen Elsesser, head of Eneo Business Development, considers this collaboration as yet another important stage in the internationalization strategy of the eneo brand: "We regard France as having enormous potential, that we intend to develop and benefit from together with our partner in the future."

[www.eneo-security.com](http://www.eneo-security.com)  
[www.eneo.tv](http://www.eneo.tv)

### Abus Acquired Trigrass Security



Abus Security-Center has acquired the Swiss company Trigrass Security. The acquisition is the outcome of an increasingly close cooperation between Abus Security-Center and its long-term, exclusive sales partner. All employees of Trigrass Security have been retained. All partners of this Company will therefore be retaining their

trusted contact persons, while at the same time profiting from direct access to the products made by Abus Security-Center. These products include alarm and video surveillance products, intercom systems and detectors, as well as a retail portfolio of products for self-installation by the end user.

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



# CHILD'S PLAY!

THE INNOVATIVE NEW  
NVR FROM GRUNDIG.  
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[www.grundig-security.com](http://www.grundig-security.com)



FOR A GOOD REASON  
**GRUNDIG**



John Davies, Chairman of the Export Council of the BSIA (British Security Industry Association)

TRENDS, MARKET, BACKGROUNDS

# Revolutionizing Security

## The Market Trends and Technical Developments Shaping Our Future Security Systems – Part 1

In the first of two articles for GIT Security, John Davies, Chairman of the Export Council of the BSIA (British Security Industry Association), reveals some of the security technology developments that member companies have witnessed over the past ten years and, crucially, the trends that are likely to have a growing impact in the years to come.

Considering the decade that has passed since the very first edition of the well-respected GIT Security magazine was published, from my work with the BSIA and as the Managing Director of TDSi, the greatest influence on security technology has, undoubtedly, been the take-up of IP-based access control and video surveillance systems.

The expansion of IP connectivity has proved to be an unprecedented game changer for how security solutions are designed, installed and operated. In fact, we

have reached the point now where most security systems exist on some sort of IT network. Looking ahead, we are likely to see more and more IP-related developments. I think that there is certainly scope for access control readers that are wholly IP readers, doing away with a requirement for associated controllers as everything goes back to the software itself.

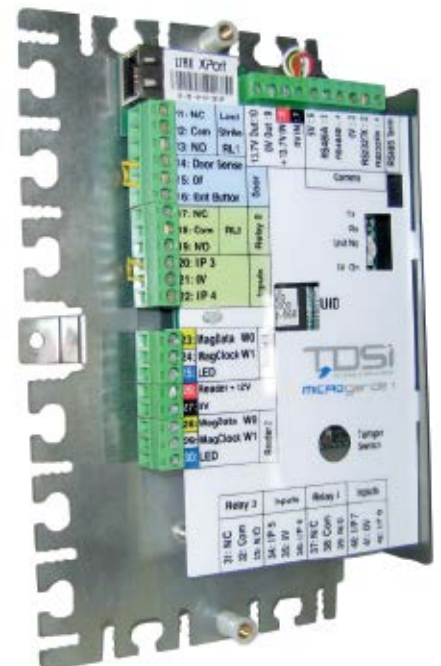
### Bits and Bytes Are Better

From a CCTV perspective, talking to Martyn Rowe of Synectics – a

BSIA member company – he feels that although, historically, digital surveillance cameras might have struggled to match the quality and reliability of analog, this is no longer the case. His point is that high quality, high definition, footage capabilities – and indeed the ability to tailor IP-based systems to vary image quality across the network according to need and bandwidth availability – are now offering realistic and appealing features.

On a different front, in my view, over the next three to five years,

the widespread adoption of NFC (Near Field Communication) technology for access control is going to open up exciting possibilities for people to employ smart phones or other devices that are NFC-enabled to get through doors, rather than having to rely on traditional cards. In addition, biometrics is set to have a greater impact thanks to the installation of discrete readers next to doors. This biometrics revolution is something that is not going to be confined solely to the access control arena as it makes



sense to incorporate facial recognition more widely for CCTV solutions as well.

Beyond this, a trend that has been taking hold and is expected to gather pace in the decade ahead is the desire to integrate different security systems so they can 'talk' to each other. Already the software provided by many access control companies, like that from my own company TDSi and other BSIA members, is becoming more akin to an integrated platform and that is certainly going to be more prevalent.

### Join and Conquer

On the CCTV front Martyn Rowe at Synectics reiterates the growing focus on integration: „Considering perimeter security, access control, fire and smoke detection, thermal or movement detection, even chemical detection, a key trend has been the adoption of surveillance solutions that enable complete integration with all such third party systems.“

Another area whose impact, I believe, is going to be more prevalent in the security world is the adoption of protocols like BACnet as security systems are becoming interfaced more widely with building management control systems. One element here is the desire of end users to not only secure their building but, at the same time, to use energy – such as controlling lighting – in a more efficient way. Consequently it makes sense if systems are more open and can talk to each other.

### More Intelligent

Turning to Chris Williams, Director at Wavestore, another of our BSIA member companies, interestingly he predicts that video analytics, which midway through the last decade struggled to achieve any kind of market credibility, will start to come into its own, whether embedded in cameras or encoders, loaded onto centrally managed servers or provided in specialist video analytics sensors. He stresses that as the use of video analytics increases, it will consequently have a bigger part to play in video surveillance systems. For the future in this area, Martyn Rowe at Synectics singles out the potential for 'self learning

systems' that can actually adapt and develop.

So there is little doubt that we are in the midst of exciting times where security technology is concerned. We have witnessed tremendous strides in the application of IP-based security technology, to give just one example. In the years ahead, areas to look out for are likely to range from more sophisticated and capable video analytics

and biometrics, to the ability to integrate solutions not just with other security elements but, crucially, with wider building management systems.

Look out for part two of this feature in the next edition of GIT Security. More information on the BSIA's Export Council and a full list of member companies can be found at: [www.bsia.co.uk/export-council](http://www.bsia.co.uk/export-council).

### ▶ CONTACT

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Industry Association  
Tel.: +44 845 3893889  
[info@bsia.co.uk](mailto:info@bsia.co.uk) · [www.bsia.co.uk](http://www.bsia.co.uk)

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



### SEETEC CAYUGA NEXT GENERATION VIDEO MANAGEMENT

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

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

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

**SeeTec**



## COVER STORY

# Earliest Detection to Protect People and Assets

Cerberus Pro from Siemens Is the One Solution for any Application

The addition of two new detectors from Siemens – again featuring the company's unique ASATechnology (Advanced Signal Analysis) and selectable parameter sets – means the comprehensive Cerberus Pro portfolio has been expanded.

Cerberus Pro from Siemens is the powerful yet straightforward fire protection system, whose wide range of products provides innovative technology with extensive safety features. It is distributed exclusively by a network of approved Siemens Solutions Partners, who are trained to design, supply, install, commission and maintain the Cerberus Pro products, without direct intervention by Siemens. Just like the existing range, the new detectors again ensure very fast and highly reliable fire detection, alarm signaling, and control, even in the most demanding environments. The advanced signal processing of ASATechnology, combined with the detectors' selectable parameter sets, ensures accurate detection of the fire criteria – smoke, heat and now, carbon monoxide. This ensures the maximum protection of people and property, whilst minimizing the possibility of false alarm.

The new ASA neural fire detector (OOH740) and ASA neural fire and CO detector (OOHC740) both have the capability of earliest detection of flaming fires caused by the combustion of liquid and solid matters. They are especially suited to

exacting applications such as data centers, IT and telecommunications equipment, hospitals and nursing homes, restaurants, canteens and kitchens, car repair shops and garages and industrial production facilities. Or, in fact, any other environment where absolute safety without the distraction of unwanted alarms is vital.

They are also immune to deceptive phenomena such as machine exhaust gases, industrial dust or steam. As a result, they eliminate unwanted alarms that otherwise would cause unnecessary and costly interruptions and delays. The new carbon monoxide sensor ensures earliest detection of all CO-generating fires. It can detect the gas independently from fire thanks to its autonomous carbon monoxide alarm channel. Moreover, the carbon monoxide parameter sets, which comply with Life Safety norms, can be set separately from the ASA parameter sets.

### Clever Detection Technology

Both detectors contain two optical sensors with forward and backward scattering, as well as two thermal sensors. This means that they can



The ASAtechnology (advanced signal analysis) ensures the highest degree of safety and fast, very early reaction. The detectors from ASAtechnology are immune to deceptive phenomena like steam, dust or gas



Siemens provides a wide range of special detectors to cover every application, such as linear smoke detectors for high ceiling areas, aspirating smoke detection for demanding applications that require very early fire detection or radio fire detection for areas, where cabling is difficult or not suitable

be used as multi-sensor fire detectors, smoke detectors or heat detectors. At the core of the detectors are pre-programmed ASA parameter sets. From highly sensitive to very robust, it is possible to select the parameter set that meets the anticipated environmental conditions of each individual detection area.

In operation, the signals recorded by the sensor are converted into mathematical components using algorithms and compared with pre-programmed values. With the selection of an ASA parameter set, the algorithms can be influenced and the fire detector set to the expected influences and individual risks. The optimal parameter set is selected, taking the individual risks and the detector's immediate environment into account. Interpretation of the situation in real time results in the selected ASA parameter set being dynamically adapted. This automatically shifts its optimum application range. Consequently, the detector reacts more sensitively in the event of a fire and more forcefully in response to deceptive phenomena. The result is unique fire detection with unprecedented reliability against such deceptive conditions. It also offers real flexibility: If usage of any area changes, the existing detector can be re-programmed with a new parameter set appropriate to its new operating conditions.

### A Broad Portfolio with Complementary Options

Cerberus Pro comprises different control panels, fire detectors, peripheral devices, and accessories – all of which have smart, unique safety features (such as built-in turbo isolators, degrade mode, standby functionality etc.). The system includes a broad range of detectors for any type of fire as well as for carbon monoxide concentrations. They are powered and communicate via the C-NET. The detector line-up is completed by specialist devices such as linear smoke detectors, aspirating smoke detectors as well as those for explosion-protected zones.

Linear smoke detectors are the ideal choice in areas with limited access such as high-bay warehouses or atria where 'point-type' detectors can be impractical. Cerberus Pro linear smoke detectors work on a reflection principle, which means that they only have to be connected at one end, saving on cabling and installation costs. Areas containing highly flammable materials, such as engine test beds or combustible stores, are better covered with flame detectors. The Cerberus Pro flame detector range includes both single channel IR for simple applications as well as 3-channel IR for areas with deceptive phenomena such as halogen lamps, bright sunlight or welding. Cerberus Pro naturally offers a selection of detectors and other peripheral devices that can be used to protect areas subject to explosion hazards such as oil refineries, flour mills or battery rooms. Aspirating smoke detectors are ideal for areas such as computer suites that require very high sensitivity, areas that have limited accessibility or complex structures such as high, automated storage facilities. With LaserFOCUS, an active air sampling smoke detector with display, which can be used for highest sensitivities down to 0.025%/m, Cerberus Pro offers an integrated solution for the earliest fire detection in critical areas.

### The System Includes Everything from Stand-alone to Networkable Control Panels

Its uniform hardware concept facilitates the planning process and even expansion of the network at a later time. Even large, campus-wide networks can be easily realized with little additional planning. Floor repeater terminals are loop-powered directly on the C-NET, saving cabling and installation costs (the system's "distributed" intelligence enabling the use of unshielded cables). This also means less planning for connection and power supply. They display system status and events at floor level and enhance user convenience, as visibility can

be configured individually. Terminals FT2010 and FT2011 also enhance safety because they remain functional, even in case of an open or short circuit.

Cerberus Pro can be readily integrated into an existing IT network. The backbone of the systems is an innovative, EN 54-approved industrial LAN network that offers increased planning flexibility, allowing the networking of up to 64 panels. Two independent, EN 54-approved Ethernet switches are all that is needed to connect one cluster with up to 16 panels to a fiber-optic backbone. Up to 14 clusters can be connected in this way and since these are then seen as a single network, one central access point is sufficient to connect the remote transmission to a pager system, the emergency services and a danger management system.

Commissioning of the system is simple thanks to auto-configuration. This also enables immediate fire protection during a building's construction and thereby assists in its on-time completion. Enhanced remote operating functions are available for system diagnosis and monitoring, thus saving time and costs by reducing on-site visits when the system is operational.

As a company, Siemens is renowned for the innovation, technological leadership and quality of its products, systems, software and services. It was the first to offer automatic fire detectors and its products are backed by decades of experience and expertise. Siemens will continue to extend the Cerberus Pro product offering - with compatibility of all future add-ons an integral part of that process. This ensures that Cerberus Pro fire protection systems from Siemens are a safe investment, not only initially but also, importantly, over the entire lifecycle of the building.

### ▶ CONTACT

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## INTERVIEW

## Air Cargo Security

Interview with Harald Zielinski, Head of Security and Environmental Management, Lufthansa Cargo AG

With a transport volume of around 1.7m tonnes of freight and post as well as 9.5 billion freight ton kilometers sold in 2012, Lufthansa Cargo is one of the leading companies worldwide in the transport of air freight. The company currently employs around 4,600 staff around the world who carry out Lufthansa Cargo's core business of airport-to-airport freight transport. The route network includes more than 300 destinations in around 100 countries, whereby both specific freight aircraft and also the freight capacity of Lufthansa and Austrian Airlines passenger aircraft as well as trucks are used. Our Scientific Editor, Heiner Jerofsky, spoke with Harald Zielinski about the extent of security measures at Lufthansa Cargo and about current developments on the subject of Air Cargo Security at the Frankfurt am Main hub.

**GIT SECURITY:** Logistics security is extremely important for the functioning of industry. Could you tell our readers what that involves at Germany's largest airport and also describe your security philosophy?

**Harald Zielinski:** As a logistics company with a need for high security, it is almost self-evident that we bind both subjects together into one complete process. It is our job to set up a workflow that combines quick processing and handling with professional security measures. From this description alone, the close association between air freight handling and security processes becomes apparent. Our philosophy is to link together the very best handling service, a high handling throughput and the best possible security, even to merge them, in order to fulfill the expectations of our customers. The most difficult part of that is that, although we can set up our handling processes directly in the best interests of our customers, the security requirements of the authorities are not viewed primarily as a service for those customers. So the message to my teams worldwide is the same everywhere: „Fulfill the official regulations consistently, don't interrupt the process flow and maintain the best possible security“. And that is not always as easy as it sounds.

**Around 80 percent of Lufthansa Cargo's tonnage is processed at Frankfurt am Main airport. That amounts to up to 20,000 tonnes of freight every week. It's hard to imagine the processing of such an enormous amount ...**

**Harald Zielinski:** I like to compare our logistics staff with good chess players. First of all they must have worked out a strategy, then they must always be in the right place at the right time and cleverly plan in advance in case there



are unexpected ‚moves‘, such as bad weather, diversions or other process disturbances. When it works as planned then it is a good game that both we and our customers enjoy. The security department has a partner role here and ensures that no other player intervenes in the game.

**What control mechanisms and integrated security measures are necessary when handling air freight? How important is the use of X-ray technology, access control and video surveillance?**

**Harald Zielinski:** We make use of all relevant security technologies and happily test new ones. However it rarely happens that we come across really special innovations that can be used in our industry. Of course it is obvious that we use video surveillance and access control systems. To check the air freight itself the best current methods are X-ray machines and/or explosives detec-

tors. Which ones we employ depends on the local conditions. Frankfurt ‚conditions‘ cannot be compared 1:1 with those at New York and what works in New York is by far not the method of choice in Nigeria. Here we also need to employ some creativity and know-how.

**On 29<sup>th</sup> April this year the transition period for ‚known senders‘ expired. The security assurances given by many shippers up until then lost their validity. What does that mean today for your daily freight operations?**

**Harald Zielinski:** The apocalypse that was predicted by many has evidently been postponed. The implementation of the applicable EU regulations went largely without problems in Germany, certainly due to the industry and the authorities working well together. I was very impressed. The advance preparations for our operations were significant and expensive of course, and it will have

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been similar for the dispatchers that were certified. Processes had to be adapted, significant investment made available for security technology and building works were sometimes also necessary. Today I can see that it mostly all works very well on a daily basis. The volume of freight that has to be checked is significantly less than we had expected. This is probably in part due to the 'right' companies undergoing the certification procedure and therefore a large amount of air freight is delivered to us by already certified agents.

**What building works, technical and personnel measures (such as security checks) were necessary to protect air freight from tampering in order to comply with the new security standards?**

**Harald Zielinski:** New security equipment was not required to protect against tampering. Lufthansa Cargo has already secured its facilities against intrusion for many years. Our extraordinarily low rate of theft provides evidence of this. I am utterly convinced that no other airline has the 'problem' of theft more under control than we do. And I mean that worldwide. We had to put new X-ray devices and explosives detectors into operation to meet the new requirements that apply to us as an air freight company and regulated freight agent. Some process flows also had to be altered. In addition to that came the integration of explosives sniffer dogs into our security procedures. And these investments also amounted to some millions – security doesn't come free unfortunately.

**Are there particular types of freight, certain destinations or origin countries that are problematic, that make the checks difficult? How are dangerous goods, delicate high-tech, valuables and animals handled?**

**Harald Zielinski:** A detailed answer to those questions would fill the rest of the magazine. In

general there is a standard process for standard goods going to a standard destination. However, about one third of our freight is not 'standard'. There can be exceptions, for example because the security situation at the point of departure or arrival is challenging, or because the freight to be transported itself is unusual. The special wishes of our customers are certainly one reason for special processes. But thanks to our comprehensive specialized knowledge at Lufthansa Cargo, not just in matters of security, we know in detail how to master such challenges. I personally like it when we occasionally have to get creative in order to meet such special challenges. Our people in each of the various product management teams are very successful here.

**How and using which technical and organizational methods can you follow the transport flow, without any gaps?**

**Harald Zielinski:** That remains our secret. I'm sure you'll understand when I don't give any details away here.

**The EU Regulation VO (EU) 173/2012 requires the ".... general training in security awareness" for staff. What effect does this have for your area of responsibility and according to what criteria do you choose your employees in general?**

**Harald Zielinski:** Our staff are trained comprehensively and regularly. In the security department we employ a specialist in the subjects of 'Training' and 'Technology'. The selection of personnel is made just as in other companies. The guiding parameters are personality, education, work experience and languages spoken. I have had good experience of people who join us from other branches of industry than security. Additionally, 50 per cent of our security department management team is female.

**Is air freight stored for a while on the Lufthansa Cargo premises? What special security measures are taken in these storage areas?**

**Harald Zielinski:** It is a natural part of the process flow that goods are stored temporarily where necessary. The goods are stored exclusively within the secure areas and the freight never leaves this zone, not least to avoid having to carry out security checks again.

**How do you view the current security situation in air freight logistics? Are you expecting an increase in the amount of freight, or increased losses and heightened risks?**

**Harald Zielinski:** Naturally I am hoping for increased freight levels; freight transport is the foundation of our business. I can't judge whether there will soon be a significant increase or not – I'm somewhat skeptical. I do not expect an increase in the loss of goods at Lufthansa Cargo, as I've already stated. The risks in aviation always remain the same, and it is difficult to foresee if these will increase. We are however always able to react at short notice.

**How is the cooperation with the Police, the Customs, the Civil Aviation Authority and the security personnel of Fraport AG at Germany's largest airport?**

**Harald Zielinski:** Good. Honest, open, cooperative.

**What do you hope for in the next few years in your work and what private wishes do you have?**

**Harald Zielinski:** My business stubbornly refuses to fulfill all my dreams, and I've given up hope of it ever doing so. I do however hope that there will be more peaceful times and that the security measures will not constantly have to be increased. Privately? I am pretty fit, happy and satisfied. It would be impudent to wish for more.

**Many thanks for enabling this interview, for the interesting insights and honest words about aviation security, which is important for us all.**



Scientific Editor  
Heiner Jerofsky



## ALARM SYSTEMS

# A Secure Take off at Sheremetyevo Airport

As part of a large-scale modernization initiative, Russia's largest airport Sheremetyevo in Moscow was equipped with a new and IP based video surveillance solution as well as with a new public address system from Bosch Security Systems. Sheremetyevo International Airport has experienced intense development and modernization of the infrastructure since 2005. The number of passenger terminals increased from two to six and the overall handling capacity from 12 to 35 million passengers per year. Covering an area of about 480,000 square meters, Sheremetyevo is now the largest Russian airport complex



Over the last years, the strong growth and the ever more demanding safety regulations for airports have steadily increased the requirements on both operations and Sheremetyevo's safety and security systems. Next to fire detection and extinguishing systems, the airport needed to install new systems for evacuation and public address as well as for a comprehensive video surveillance. While the new public address system (PA) guarantees a fast, smooth and panic-free evacuation in case of fire or a bomb alarm, the video surveillance installation helps to identify a wide variety of threats such as unattended luggage, unexpected crowds or blocked emergency exits. Further, video can be used to verify or falsify alarms from the fire detection system to avoid costly false alarms.

## Robust Plus Newest Technology

Sheremetyevo needed video surveillance and a public address system for its new terminal D, which is used by Aeroflot Russian Airlines and their partners in the SkyAlliance. The PA system should also cover terminals E and F. Both systems had to be very robust, including latest technology and allow integration with other systems. After having won the tender, Moscow

based ZAO Titan Building Systems installed more than 500 IP cameras from Bosch in Terminal D, including standard and dome types as well as manageable PTZ Autodome cameras. Recording was implemented with 36 iSCSI disk arrays with a total capacity of more than 300 terabytes.

Video surveillance is operated and managed through the Bosch Video Management Software with more than 50 workplaces for operators supporting different airport services. Bosch Advanced Intelligent Video Analysis (IVA), which is integrated into the IP cameras, enables early detection of suspicious behavior and identification of abandoned luggage. Tracking cameras can help verify or disprove alarms, alerting the security operator as appropriate. A forensic search function permits fast retrieval of relevant video sequences.

## Evacuation and Public Address System

Next to video surveillance, ZAO also installed a digital audio system Bosch Praesideo the D, E and F terminals. It includes more than 100 amplifiers and 2,175 speakers and is being used for standard PA purposes as well as targeted messages for individual terminals or areas. The system is also equipped with a voice evacuation

system in case of emergencies. The selection and location of the speakers was optimized and adapted to the individual terminal's architectures to guarantee best intelligibility.

As both the video surveillance and the public address system support the standard protocol IP, they could easily be integrated into the network and security architecture of Sheremetyevo. Further, they are highly scalable and can thus also support the airport's further growth.

## ▶ CONTACT

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## AIRPORT SECURITY

# Improved Airport Security Operations

## Identity Management Software Launches at Friedman Memorial Airport



Friedman Memorial Airport (Sun), which provides air service facilities to South Central Idaho and the Sun Valley resort area, has become the first airport in the US to implement Quantum Secure's new Safe for Aviation v4.5 software suite. The physical identity and access management software solution is expected to save hundreds of man-hours for airport management by streamlining the complete lifecycle of physical identities and automating related processes.

Daily oversight of security provisions at Sun is handled by the Airport Security Department. Among their many security activities is ongoing supervision of approximately 1000 identities including airport and airline employees, in-house and external (i.e. taxi, cargo) vendors, government employees, hangar owners/associations, sublease tenants, temporary construction workers and more. Per TSA mandates, each individual must undergo a TSA-adjudicated Security Threat Assessment before Sun airport operators can issue any type of personnel identification media. Individuals must be vetted on a continual basis to allow for a comparison of new threat information.

### More Resources for Security – Less for Administration

Before Quantum Secure's Safe was implemented, Sun's approach to enacting these requirements was entirely a manual process. The labor-intensive activity involved multiple data entries of the same information into the various airport security systems: the Physical Access Control System (PACS), security check system, computer based training systems and biometric fingerprint capture system. Airport personnel were spending more than 90 minutes per person for new enrollments and more than 45 minutes per person for badge renewal procedures.

According to Ajay Jain, Quantum Secure President and CEO, with the Safe software suite

the data is entered only once and the relevant information flows through to all applicable systems and business processes. The software allows Sun operators to perform new enrollments in less than 15 minutes per person including all related processing such as document scanning and biometric registration. Safe can also perform renewals in less than 10 minutes.

"Given the complexity of security requirements in an airport environment, timely and effective identity management procedures are a necessity," said Mr. Jain. "Safe for Aviation is a holistic and judicious approach to addressing those needs."

The Safe system was also able to streamline the procedure for completing the mandatory reverse audits that were previously being completed manually through the U.S. Postal Service. Safe can automate the process, reducing the expected time for Sun staff to initiate a full or partial audit to 10 minutes. For added convenience, the audits can be scheduled to run on a quarterly or half-yearly basis.

Sun's security workflow system with which Safe is integrated includes security checks through TSA's Transportation Security Clearinghouse; SSI computer based training systems; Safran MorphoTrust biometric fingerprint platform; and automated provisioning and de-provisioning to Lenel's OnGuard PACS after security checks and training pre-requisites have been completed.



Friedman Memorial Airport serves South Central Idaho to include world famous Sun Valley Resort

### An Investment That Pays Back

Safe for Aviation comes with pre-defined policies, workflows and procedures for issuing badge credentials, granting/revoking access to airport facilities while simplifying adherence to TSA and FAA regulations, audits and security directives, minimizing insider threats and promoting greater operational security. It automates processes for conducting background checks for new airport workers, obtaining security clearances for access to secured locations from the governing bodies like the TSA, creating flexible self-service access rights to allow approved parties to enroll their own employees and subcontractors and grant them physical access rights, and complying with and enforcing security directives like SD-1542-04-08G or SD-1542-04-08F.

"Safe is a powerful productivity investment that delivers new capabilities and value to airport operations," adds Mr. Jain. "We are confident that Sun's implementation of Safe will lead to a more secure environment."

### CONTACT

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## SECURITY FOR LOGISTICS

# Video Added Value

## Securitec Delivers Samsung Multipurpose Video Over IP Solution for APC Overnight

There was a time not that long ago when the only reason for a distribution center to invest in CCTV was to deter and detect theft. The quality of the images captured by traditional industry standard analog cameras, if positioned and set up correctly, could be relied on to verify and more often than not, help provide a description of the person or a group of people who might be involved in any suspicious activity. The cameras would however rarely be expected to make a contribution beyond this narrow, albeit very important, task.

With the introduction of affordable high definition megapixel cameras and the ability to control them over an IP network infrastructure has come the opportunity for distribution centers to achieve considerably more from their investment in a video surveillance system. One contemporary example of this is at APC Overnight's new national sorting center in Cannock, West Midlands. A Samsung Video Over IP solution, in addition to providing a powerful tool to minimize theft, is assisting operational personnel with tracking the movement of 1.5 million parcels every month, as well as ensuring strict compliance with the company's Health & Safety procedures.

APC Overnight is the UK's largest next day delivery network with more than 115 local depots. The company has invested £16.5 million in its new 138,000 sq.ft. (12,820 m<sup>2</sup>) hub in Cannock in order to maintain its year-on-year growth by providing high service levels underpinned by state-of-the-art technology.

### Evidence Benefits

The construction of the new sorting center provided APC Overnight with an opportunity to take full advantage of the superb images that can be captured by the latest generation of high definition megapixel cameras by deploying them in locations where evidence grade images might be required or where there was a need, such as at conveyor belts and loading bay areas, to be able to zoom in to observe close up detail of any activity.

"One of the key benefits of a IP network system is that it provides the option to control and monitor cameras from anywhere on the network," said Colin Dicken, APC Overnight's Security Manager. "This means that our on-site

security personnel are not restricted to watching live images or reviewing recorded video from a central control room, whilst my operational colleagues can also simultaneously access the system from their PCs or laptops and if they are off site, even monitoring activity from their tablets or smartphones."

APC Overnight places considerable importance on being able to track individual packages that are processed at the Cannock hub. "We take great care to ensure that our customers' property arrives in good condition as well as on time," said Colin Dicken. "It is important therefore that we can identify every package as it passes through the sorting center so that any complaints of lost or damaged parcels can be properly investigated. The high-definition Samsung cameras play a key role in helping us achieve this by providing a visual record of how we carefully and accurately handle our customers' parcels from the moment they arrive in Cannock. This is achieved by tying in the video surveillance system with our bar-code booking system."

### Situation Analysis

A total of 124 Samsung cameras have been installed by Cannock based Securitec Systems Ltd who were awarded the contract to install and commission a video surveillance that would ensure there were no blind spots both within the distribution center and its surrounding area. "As is usual with a project of this kind, the research and design stages are very important," said Martin Kadir of Securitec Systems who are a certified Samsung Smart Partner. "We spent considerable time deciding on what type of cameras to recommend. We had of course to take into account what the objective was at each specified



Colin Dicken, APC Overnight's Security Manager

camera location, as well as the likely environmental and lighting conditions, as some of the cameras would be deployed to monitor external areas."

61 of the specified cameras are from the Samsung Litenet 'affordable' network camera series. 36 of these are SND-7061 3 megapixel Full HD network dome cameras and 25 are SND-5061 1.3 megapixel network dome cameras. Both models are equipped with a 3-8mm vari-focal lens and share a long list of features including four programmable motion detection zones, 12 programmable privacy zones and Power over Ethernet. The new models also have

a day/night feature which automatically configures the camera to capture either color or b/w images, depending on the prevailing lighting conditions, and also incorporate a scene change tampering feature which creates an alert if, for example, paint is sprayed on a camera lens or if there is unauthorized movement of a camera away from its usual field of view. These ON-VIF compliant models also support H.264 and MJPEG compression methods, providing the option to simultaneously transmit images to multiple locations at various frame rates.

The remainder of the 124 cameras are a mixture of fixed cameras and PTZ domes, each

carefully selected for the specific location at which they are installed in order that the video surveillance system meets APC Overnight's expectations. The images captured by all the cameras are recorded onto Samsung network video recorders with operators able to view both live and recorded video with the help of company's Security Manager license-free video surveillance management software.

#### ▶ CONTACT

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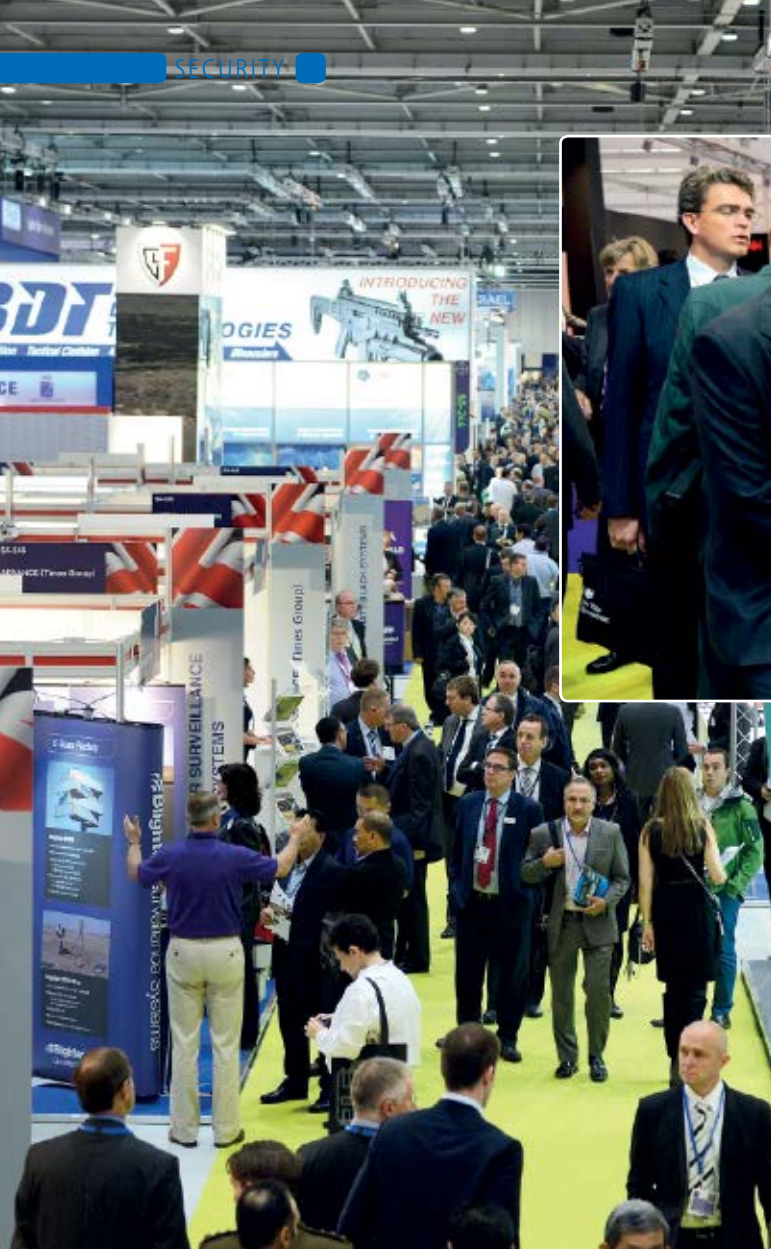
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As in 2011, the biennial Defence & Security Equipment International (DSEI) exhibition and conference of September 2013 at ExCeL in London Docklands addressed a broader range of security issues than just Western land, sea and air defence, important as these are. An impressive 32,169 visitors attended, an increase of 13% on the previous record in 2011. There were 1,489 exhibitors from 54 countries and 40 national pavilions.

## EVENT

# DSEI Shows **State-of-the-Art** Technologies

Defence & Security Equipment Exhibition Displays Solutions to Wide-Ranging Security Problems

Event Director Duncan Reid said: "The records broken this year demonstrate that DSEI continues to strengthen its position as the world's leading integrated defence and security event. Traditional markets such as Europe and North America were well represented, whilst the significant growth in presence of emerging markets like the Middle East, Asia and Latin America bodes well for the future."

With their vast resources for research and development and their global vision, the major US

and European defence contractors now offer extensive solutions also for homeland, supply chain and indeed cyber security. High on the agenda were accordingly General Dynamics UK, launching a new family of multi-channel secure data recorders, and the Cyber Security Pavilion. Moreover the dedicated cyber security seminar day featured presentations by BAE Systems Detica, Cassidian Cyber Security Professional Services, Palantir, Prolinx, QinetiQ and Telesoft. In the UK, BAE Systems Detica

is one of four Cyber Incident Response Providers certified by CESG, the information assurance arm of Government Communications Headquarters (GCHQ) at Cheltenham, and to which organisations can turn for help when they have suffered a cyber attack.

### Security for Critical Infrastructure

Elsewhere to catch the eye, QinetiQ was displaying OptaSense distributed fibre optic acoustic sensing technology. This delivers

realtime information on threats to long, dispersed assets such as oil pipelines and railway infrastructure vulnerable to illicit incursions. The system can equally monitor movement around borders and airports, as well as engineering activity such as fracking for shale gas or road traffic flows. OptaSense turns fibre optic cables into highly sensitive microphones by shining a pulse of light down the fibre and measuring the light reflected back. By means of computer algorithms, a complete picture is provided of

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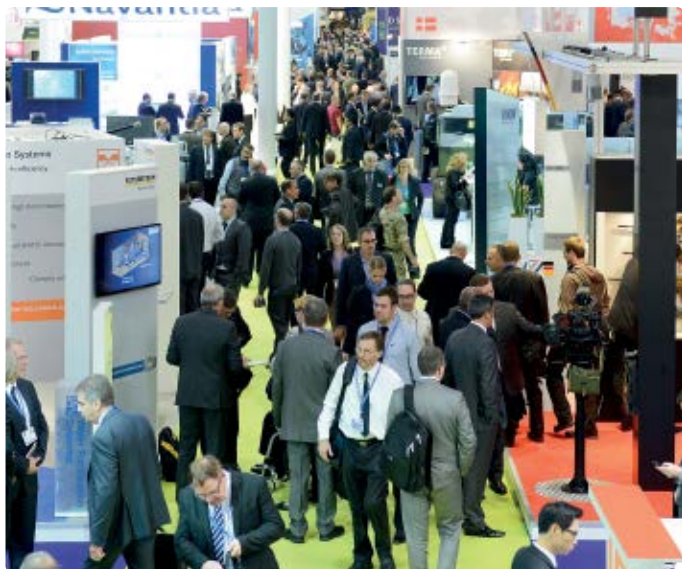
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activity all along the asset – at a fraction of the cost of conventional sensors. Thermoteknix Systems of Cambridge showcased their ClipIR clip-on thermal imager, which attaches to image intensifiers to produce Fused Night Vision – a new technology for seeing in complete darkness or low light. In a dedicated night tunnel built on the Thermoteknix stand in the UK Group Pavilion, visitors were able to test ClipIR performance under real-life night-time conditions.

### Communication Tools for High Security Applications

Among various ruggedised device launches, Becrypt and Getac jointly unveiled the first secure Android 4.1 tablet suitable for police, security and government users. Protected against shocks, drops, vibration and water or dust ingress, the Getac Z710 7in Android 4.1 rugged tablet provides a more secure system to support a range of bespoke applications. It weighs just 800g and has a battery giving more than 10 hours' operational time. It incorporates a 1D/2D barcode reader that enables rapid data capture – up to three times faster than other devices using software-based scanners.

The Android operating system featured with the new tablet includes device encryption, system hardening, and peripheral control and management, which significantly improve the ability to enforce and audit security policies. Engineered for extreme conditions,

the ultra-sensitive touchscreen can be operated even with gloves.

Many other advanced security products merited our close attention along the crowded aisles of DSEI 2013. We noted Cochrane's ClearVu high-security fencing system; the Orion 2.4 concealed bug detector from International Procurement Services; the Raptor RXi surveillance transmitter detector from Winkelmann UK; and Recon Robotics' new 540g Throwbot XT for realtime video and audio reconnaissance. The last-named provides instant tactical awareness to law enforcement, bomb disposal, and urban search-and-rescue teams, before they risk entry into a dangerous environment.

Finally we picked out Scanna MSC's familiar portable and cabinet X-ray scanners – screening and detection technology for diverse security and counterterror operations.

No doubt ongoing developments in electronics will enable security technologies to progress even further come the next DSEI, organised again by Clarion Events at the same venue from 15<sup>th</sup> to 18<sup>th</sup> September 2015.

Oliver Haines

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## INTERVIEW

# Access with Axis

The Market Leader for Video Surveillance Takes a Step into the Access Control Market

Ray Mauritsson, CEO at  
Axis Communications

At Asis show in Chicago Axis surprised the security world with the announcement of entering the access control market with the new Axis A1001 IP based door controller. The market leader for IP video surveillance launches a product is a platform for two different solutions. Axis Entry Manager (Axis A1001 with built-in web based software) is a ready-made solution for small- to midsized business – such as offices, industries and retail stores – with typically 10 doors and basic access control requirements. Axis A1001 Network Door Controller has an open API (Application Programming Interface) for integration of third-party software to scale the system and allowing the unit to be integrated with solutions provided by Axis partners such as integration of video, intrusion detection and HR systems. For GIT SECURITY Heiko Baumgartner had the opportunity to talk to Ray Mauritsson, Axis Communications CEO about the news.

**GIT SECURITY:** Ray, the announcement of Axis' entry into the market for physical access control with a self-developed IP-based door controller comes as a real surprise for the majority of the market. Why this step?

**Ray Mauritsson:** There were two components driving this innovation. From a top strategic level we are always looking for fields to expand our business outside our current offering even if we are very happy with how the market for video products develops. Access control is closely linked to video surveillance and it is a kind of a natural move to step into this market. But of course our talks to system integration partners were also a driving force for developing the new product. Our partners made clear that this is a chance to grow and that there is a strong customer need for more open systems in this market.

**At the presentation of the new standard for access control, Baldwin Gislason Bern, Chairman of ONVIF's Profile C Working Group commented: "Integration between IP-based physical access control systems and video surveillance is no longer considered a luxury in today's market, it is becoming a necessary component for many different types of users". Is this something you experience when you talk to system integrators as your customers?**

**Ray Mauritsson:** Absolutely, our integration partners are at home on both sides, video surveillance and access control. They were asking us for a more open solution that helps them to integrate doors into an IP system while avoiding a proprietary solution.

**The benefit for system integrators is obvious: Easier integration and installation. What advantage can end-users expect from the new technology?**

**Ray Mauritsson:** There are two areas where end-users benefit from our new product. With the existing systems on the market their only option to get a reliable solution that integrates access control and video surveillance is the go for a proprietary system from one vendor. Our system allows them to specify best-of-breed products for all areas. At the same time we are launching with physically the same product a complete solution for small installations. The Axis door controller is two offerings in one: It can work as a strong IP-enabling component in bigger systems our integrators build and also as a powerful stand-alone system that can be operated without any additional software offering. As a stand-alone system it is ideal for the "5-to-10 door" market.

**Why is the launch of the new product limited to the US market?**





Axis Entry Manager (Axis A1001 with built-in web based software) and the Axis A1001 Network Door Controller allow door systems to be integrated in network solutions

**Ray Mauritsson:** First of all, the US is a big market where we have built a strong presence on the video market and where we clearly have achieved our ambition to shift the market towards network video. We have a lot more to do in any of the other markets. The US are the most mature market for us, we have reached a high grade of market penetration there and we already have developed the right internal structure. Entering a new area also means changes in the internal organization.

**Is the more homogenous access control market in the US another reason to start in the US?**

**Ray Mauritsson:** We see the access control market as very fragmented in all regions. There is no difference in the US. The preference to start in the US is more linked to the question where we can put more resources in place to start with. We work very closely with our system integrator partners and we want to start in the region where we can guarantee them the best support. To create a new product is only the basis for a success, you need to organize also a support and service structure for the clients to succeed especially when entering a new market.

**Do you see the market entry in the US as a blueprint for the "rest of the world" and when can we expect to see this product outside the USA?**

**Ray Mauritsson:** Yes, with all our initiatives for growth we aim to become the business leader on a global scale. It is more a tactical decision to do this step-by-step approach. It is hard to predict how much time it will take to enter into this new market, how long we need to get the experience needed and how long it will take to build up an appropriate structure in the other regions.

The product as such does not need to be adapted to a specific region. The timeline will depend on how well the product is received and how fast we can build up internal resources. Hopefully in another year we will be ready to expand.

**Axis has been the pioneer for IP video surveillance and has gone a long way until the new technology was accepted in the market. The access control market has the reputation of being even more conservative. Do you expect a sprint run until you succeed in this market segment or will it more likely be a marathon?**

**Ray Mauritsson:** As mentioned before we have chosen the step-by-step approach and we are prepared for a marathon, a long-term development. Hopefully we can avoid the pain on the last 10 kilometers and do not have to stop when we reach our goal. A smooth ride all the way would be great.

**Proprietary products dominate this market while Axis is known as a vendor who likes to work with open systems. Do you expect a clash of systems?**

**Ray Mauritsson:** We are well aware that there will be obstacles in the market. The market is crowded with products already and even something so unique and beneficial like our door controller will not have an easy entry. That is the reason why we will need to have resources in place to explain and educate partners and customers. Change always takes time but we are very experienced in introducing new technology on the market. As it is not a completely new product category like network video cameras were when we invented them, it should not take too long.

**How important are partners like VMS vendors, security management system providers and hardware manufacturers for your market entry?**

**Ray Mauritsson:** It should be an excellent opportunity for them to expand their offering, too. The VMS market for example sees fierce competition, so expanding their offering through access control integration should offer vendors a good chance to differentiate with an advanced offering. They may follow different approaches. Some of them will try to go full speed ahead and develop a complete new solution, others will adjust existing products.

**What makes you certain that the new product gets a success?**

**Ray Mauritsson:** You can never be 100% sure that a new technology will be a success but there are a lot of reasons why we believe in the product. We have had several requests for exactly this product from our integrators so we are quite sure that we will have some early adaptors for the technology. There certainly is a pull from the market. We do have the right partners. We have a unique and easy to use product and we had already the first installations. The first reactions were very optimistic. Integrators are happy how the product has been working and how easy it is to use. We have done our homework and now we can't wait to roll it out.

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## ACCESS CONTROL

# The Big Money

## CEM AC2000 Chosen For Central Bank of Nigeria Security System

CEM Systems, a division of Tyco Security Products, has announced that the Central Bank of Nigeria has selected their AC2000 SE access control and security management system to secure many of its premises across Nigeria. The Central Bank of Nigeria (CBN) is charged by the Federal Republic of Nigeria with the overall control and administration of the monetary and financial sector policies of the Federal Government.

„The Central Bank of Nigeria required an access control solution that provides the highest level of security, and that is scalable to meet the needs of their different offices throughout the country, both now and in the future. The AC2000 was the ideal solution in this case to help the CBN meet all their requirements“ said Philip Verner, Regional Sales Director,

EMEA for CEM Systems. „The Central Bank of Nigeria is one of many recent finance industry contracts for CEM Systems and represents a growing trend for us in the sector and the African market in general“.

### Integration

The AC2000 SE provides an advanced level of integration using industry standard interfaces to

link to third party systems. The CBN required the system to integrate with Bosch video interfaces in order to control both the video and access systems via one solution. The Alarm Event Display application responds to all alarm situations in real time, providing a dynamic on-screen interface to external CCTV systems with facilities for CCTV switching, remote door

broadcasting and audio output in response to alarm events.

AC2000 VIPPS (Visual Imaging & Pass Production System) allows CBN administrators to produce professional quality permanent and temporary ID passes for staff and visitors. The CBN also utilizes the WEB Visitors application which has the added benefit of being accessible via the web. This enables





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users to log in remotely via a web page to manage visitors without the need for client access control software on their PC.

To meet the requirement for minimal downtime on site, CEM's AC2000 Failover was utilized to create a secondary server that can take over from the main server in the event of system failure. The switch between the two servers is automatic and results in zero data loss, with notification of the event being sent to system users and administrators immediately.

### Finger on the Button

In addition to the numerous software options chosen by the Central Bank of Nigeria, a variety of the CEM hardware solutions are used on site. The CBN is installing S610e intelligent card readers, which give full off-line validation and decision-making at the point of entry, even when host communication is not available. This terminal also features a keypad and a backlit LCD, which provides meaningful messages to cardholders such as, for example, Wrong Time Zone, Lost/Stolen Card and Access Granted.

Given the CBN's focus on providing the utmost security, CEM S610f biometric fingerprint readers are being deployed in areas that required a higher level of security. This device is a fully integrated biometric and access control reader that is used to control access to restricted areas, which is managed and monitored by security staff using the AC2000 SE system.

Additional hardware also includes the S3030 Portable reader that can be used for ID card validation at temporary entrances that have no power, and can be used as a mobile device for random checks within pre-defined zones. The display of cardholder details on the reader, such as the name, date of birth and job title and also the card holder's photograph, allows on-the-spot visual verification.

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## KEY MAN / ALARM

# Keeping Tabs with Tags

## RFID Technology for More Mobility and Security of People in Need of Protection



Uwe Bartels, Key Account Manager Europe,  
Amantag at Deister Electronic

The protection of people and property has an important place in the security considerations of today's companies and establishments. Whether in healthcare, in public facilities or administrations, there are groups of people everywhere that must be protected with the help of intelligent technology. Patients and residents want to be able to move freely and safely in care centers and clinics. Additionally, the staff need to be informed as soon as a patient or resident leaves the pre-defined secure area. These requirements are met by the Amantag Patient Transponder. Matthias Erler of GIT SECURITY spoke with Uwe Bartels, Key Account-Manager Europe for Amantag at deister electronic.

**GIT SECURITY:** Mr. Bartels, the Deister brand 'Amantag' is an RFID solutions primarily conceived for the healthcare industry. Most of the GIT readers will probably know what a „tag“ is, but what does the prefix „aman“ mean?

**Uwe Bartels:** „Amantag“ stands for Asset Managing Tagging. The technology has been further developed by deister electronic against a background of rising security requirements in the healthcare sector for the protection of people in need of help.

**Let's first take a closer look at a practical application from the healthcare sector: the problem of demented patients wandering off is really an everyday event and a serious problem in old people's homes, isn't it?**

**Uwe Bartels:** Yes. Disorientation is a widespread problem that is becoming increasingly common, above all for people with dementia. This has to do with the demographic development of our society. At the same time, we see that healthcare facilities today frequently have to carry out some of the care tasks that were previously performed by the family. People in healthcare facilities should not be restricted in their movements, as far as that is possible, and this is why the character of an open house is increasingly preferred. The concept of the open

house, however, brings with it the danger of someone leaving unnoticed. It is not a rare occurrence that a demented resident suddenly thinks he has to go to work and then leaves the premises without anyone noticing. The legal regulations state that the healthcare facility carries the responsibility for the custody of its residents.

**How does Amantag help to solve this problem?**

**Uwe Bartels:** The solution provides us with the opportunity to install a protection system with whose help the staff will be informed if, for example, a demented resident leaves their pre-defined secure area.

**How does that work from a technical standpoint, and what are the specialties of the deister systems compared to the competition?**

**Uwe Bartels:** The first piece of hardware we need is a locater. This is installed near the door and forms a detection field; you can imagine it to be like an invisible curtain. If a resident who is wearing a transponder on their wrist passes through this field, the transponder will be activated in that moment and sends a signal to a receiver.

**That presupposes that the lady or gentleman in question is actually wearing the transponder ...**

**Uwe Bartels:** That's true. The wrist transponder has proven to be best in practice. It has been well accepted everywhere because most people have worn a watch or a bracelet in the past, unlike an ankle bracelet which is unusual and often considered uncomfortable. Fitting a transponder into a shoe is also impractical because you have to be sure that all the shoes are equipped and also that the people in care also wear them.

**And thanks to RFID technology, the transponder reacts when it comes near to the locater?**

**Uwe Bartels:** Yes. The transponder is normally passive. However, when it comes near to the locater, or the 'virtual curtain', it is activated and sends its information including the locater ID to the receiver. This is permanently ready to receive and in the case of an alarm forwards the information to a monitoring system. This could be a telecommunications system, a nurse-call system or a danger management system. The Amantag system is available in two versions: as a self-contained or as a networked system.

**What is the difference?**

**Uwe Bartels:** In the self-contained version, the receiver switches a relay contact as soon as an alarm message is received from a transponder. This relay contact is primarily to activate an acous-



▲ The wrist transponder is worn just like a watch

A live picture helps the care staff to assess the situation when the alarm is raised ►



tic sounder, a light or a higher level system. In the networked version all the locaters and receivers are connected via a bus with an intelligent evaluation unit. This also provides the capability to administer support transponders, to operate the software interfaces of third-party systems, to generate personalized alarms and system messages as well as to create automatic reports. The simple and centralized configuration and administration are other advantages of this networked solution. Other systems can be connected if required, such as video surveillance systems for example, to provide simple and rapid evaluation of the alarm situation.

#### What is the advantage of the support transponder that you mentioned?

**Uwe Bartels:** The support transponder is a superordinate transponder. The system automatically recognizes the presence of the support transponder and does not raise an alarm if staff and residents leave the secured area together. This transponder is naturally also available in a version for related family and allows, for example, a stroll with a normally disoriented resident outside the facility, in this case without raising an alarm.

#### The system is also used in hospitals?

**Uwe Bartels:** The most important area of application is certainly protection against resi-

dents of old people's homes wandering off. But of course there is a category of patients in hospitals who are also disoriented, for example in geriatric departments, who are becoming increasingly important. Protection against walking off is also relevant for children's clinics: it often happens that children get homesick and – sometimes in very creative ways – try to leave the clinic and get home. In hospitals, our system serves as a baby protection system. It prevents the removal, the kidnapping or exchange of babies by having an associated pair of transponders for mother and child. We also use Amantag as a mobile emergency call system. Ambulances crews and staff in hospital emergency departments can often get into threatening situations, for example through drunk people. If a staff member feels threatened they can press the button on their wrist transponder and activate a silent alarm to get help.

#### What is the acceptance of these solutions?

**Uwe Bartels:** They are widely recognized and are often specified by the quality management in clinics. It is considered very sensible in healthcare that you can have an 'open house' but nevertheless ensure the safety of the residents. The wrist transponder is always well accepted as most people have previously worn a wristwatch or bracelet.

#### The system can also be connected to video systems – what for?

**Uwe Bartels:** A live picture shows the current situation within the secure area and provides the staff with a clear idea of what to do. This ability reduces the reaction and search times and also significantly reduces the load on staff as care staff not only receive the alarm message but can also check the live pictures to evaluate the situation.

#### These are actual practical examples?

**Uwe Bartels:** Yes, that's right. Old people's homes in particular discuss their many particular needs with us and that falls into line with our way of working. Regular exchange of information with the users is the basis for the high customer acceptance of our solutions. Our development team in Barsinghausen notes the requirements of the users and the market and develops the corresponding new RFID solutions.

#### Mr. Bartels, many thanks for the conversation.

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## VIDEO MANAGEMENT

# Manage Security Effectively

## The 'G-SIM' Security Information Management System from Geutebruck

Created as part of a mammoth customer project – G-SIM has meantime become the new Security Information Management System from Geutebruck. Conceived for medium to highly complex, networked video security solutions, it provides seamless integration into the manufacturer's system world. The core functions are central user management, the simple management and operation using map-based control elements as well as the central recording of all relevant operational and system events. Matthias Erler of GIT SECURITY spoke with Katharina Geutebrueck and Christoph Hoffmann, both directors of Geutebruck.

**GIT SECURITY:** Mrs. Geutebrueck, the development of your new G-SIM Security Information Management System was a mammoth project that came about a part of a customer solution – with more than 400 recorders, around 6,000 cameras and 150 locations. Could you give us an overview of when you started, how many developers were employed and what level of investment was involved in the project?

**Katharina Geutebrueck:** You're quite right, it really was a very extensive project we undertook in Australia in response to a customer request. We started back in 2008 – since then it has become a completely new product for our customers. Back then we had some external partners, amongst others, an office of seven developers who were working to our specifications. We have invested some three million Euros into the development of G-SIM because it quickly became clear to us that we had here the opportunity to develop a wholly new security information system.

**What else was necessary to bring the system up to series production level?**

**Christoph Hoffmann:** After the project was completed, we decided to include it in our portfolio. We saw very clearly that the numerous features that were now technically mature could provide significant added value for customers in the market.

**Katharina Geutebrueck:** Our philosophy is generally to provide complete solutions. There was enormous potential available here, in particular because the solution we had at that time needed updating anyway.

**Christoph Hoffmann:** As our projects come in all sizes, a whole sequence of steps were necessary to make the product ready for our purposes and ready for market. That included first of all modularization – which enables us to offer not only complex total solutions but also individual packages. It was also important to have an under-

standable licensing model as well as menus and documentation translated into all relevant languages. Besides that we also developed comprehensive internal and external training courses.

**What are the major characteristics of the solution? And what features do you hope will score most points with users, compared to competitors' systems?**

**Christoph Hoffmann:** When we develop new products we always try to see things from the

end user's perspective – and certain features are the deciding factors for him. These fall into five categories: ease of use, efficient alarm management, support for multi-user teamwork, centralized administration and the subject of redundancy.

**Then let's start with the ease of use. What are the features here?**

**Christoph Hoffman:** Above all we should mention here the interactive maps which make up



**Katharina Geutebrueck and Christoph Hoffmann, both Directors of Geutebruck**

the intuitive user interface. Creating a graphic site plan is extremely simple for the end user – and all formats and plans, as well as CAD drawings, can be imported. The information they contain is now dynamic, which helps particularly with larger projects where there are multiple system users. If an alarm is raised, it is shown on these site plans and everyone can see who is dealing with this particular alarm. This avoids duplication of effort. It is easy to drag cameras from the site plan to the viewer whenever required. The structure of the user interface is very simple and when there is an alarm the user is offered processes which are clearly-defined and easy to complete. These could be a security guard tour, lists with action instructions, etc.

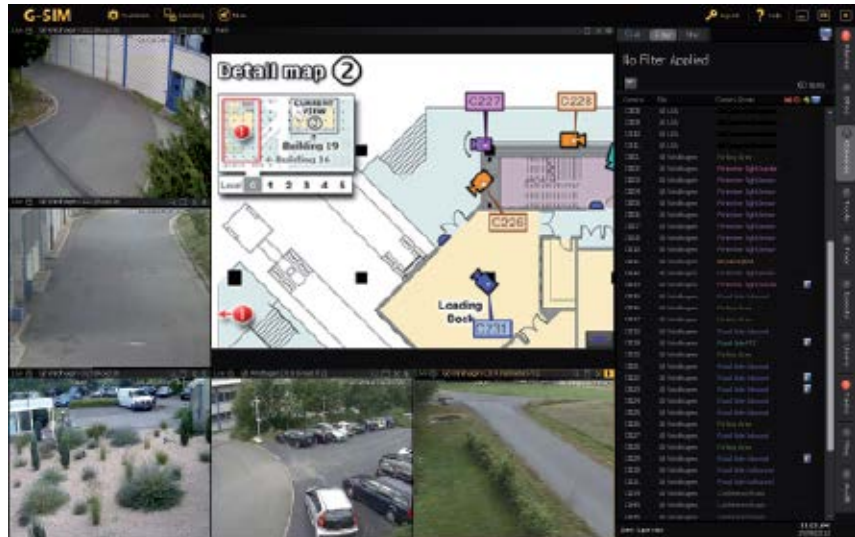
... which takes us right into alarm management.

**Christoph Hoffmann:** Right. When there is an alarm, the users are given specific instructions together with the corresponding site plans. And the right cameras are also activated. That is all very helpful in the light of the nervousness and tension that usually occurs in such situations. The ability to prioritize users is also important, and is often specified in many projects. This enables the supervisor to take over from any user at any time, for example, taking responsibility for an alarm or control of a dome camera. He has priority and can have exclusive control of the camera. Incidentally, all alarms and the way they are handled are automatically documented by the system and can be subsequently made available in a report in all the usual formats like Excel or PDF. This enables processes to be optimized, weak points recognized, and if necessary action plans to be re-worked and keeps the 'compliance monitors' happy.

**Can other systems like access control be connected?**

**Christoph Hoffmann:** G-SIM is an open platform to which other systems can be docked. That could be, for example, access control, perimeter protection, fire or intruder security systems. The interfaces are absolutely flexible and are also made available to external developers in a comprehensive SDK (Software Development Kit). All connected systems and elements can be combined either graphically or with camera images within G-SIM.

**Katharina Geutebrueck:** It is generally our policy to offer open systems, but at the same time complete solutions. We do this because we know that the more simplicity and efficiency required in the application design of highly complex systems, the better the system components have to be matched with each other – and in the end that means compete systems from a single source. It's precisely this ease of use which we want to provide for our customers and we'll



be expanding this approach increasingly in the future. Our maxim for G-SIM is clear: "Just a few people can effectively manage complex systems".

**Let's come back to the central features of G-SIM. You spoke about teamwork with multiple users?**

**Christoph Hoffmann:** When multiple users work with the system, each of them can see where the other is, which cameras and which site plan he is using and what he is currently doing. Alarms can be either manually or automatically forwarded to another member of staff. If the central control room is not occupied for whatever reason, the alarm will be directly

to another location that is manned.

**And all events are recorded in an audit trail?**

**Christoph Hoffmann:** Yes. A central sabotage-resistant database automatically logs everything that happens in the system, including what settings have been made, when and by whom. Later, alarms can be recreated in their original form so that, for example, an examiner can see exactly what the operator saw or ... what he should have seen. This function makes it possible to optimize processes or to change them. Access to this function (as to other functions), can be restricted, maybe to the works council, the data protection officer or a special security officer. The legal requirements here are very different internationally.

**That just leaves the subject of redundancy. There is an integrated redundancy solution, in addition to external security systems. What is the background to this and how does the solution work?**

**Christoph Hoffmann:** Nowadays in the IP field this is a 'must have' as far as servers and cam-

eras are concerned. With G-SIM server redundancy means that the system itself on which the program is running can be configured with redundancy. Then if a server fails, G-SIM imperceptibly switches to using the replacement server. The downtime is less than a second and nothing changes for the user – he continues to work in the same environment as usual. In addition we have the redundancy of the network video recorder. If there are, for example, ten NVR servers with 32 IP cameras each, the images from 32 cameras would be lost and could neither be display nor recorded if one NVR server went down. G-SIM provides two options for this scenario: either the remaining NVRs take over these cameras or a reserve NVR takes them all. Again for the user, totally transparently and imperceptibly. It is just a question of the security requirements and of the budget. Our range of products is suitably wide.

**For which areas of application is the system primarily intended?**

**Christoph Hoffmann:** It is suitable for medium-sized and also for extremely large systems thanks to its modular and flexible architecture. We see the main area of application where live images, alarm management and reporting are particularly important: these are users that actively work with the images they are receiving – and for that you need a video management system. The standard viewer that comes with all our recorders is not the optimum tool in this situation. The emphasis with G-SIM is on efficiently managing any number of recorders, no matter where they are actually situated.

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## VIDEO MANAGEMENT

# Flood Alert

## Swiss Canton Uri Uses SeeTec Software as Early Warning System

The severe floods of 2002 and 2013 have impressively shown the immense extent of damage that natural events can cause in our intensively farmed and densely populated landscape. In both cases, numerous rivers were affected, among others some in the South and East of Germany, Austria and the Czech Republic. In Germany alone, the flood of 2002 brought about damage amounting to approximately €11 billion.

In summer 2005, a storm in the Alpine region also led to floods, resulting in a great deal of devastation. While in mountain regions accidents and damage were mainly caused by landslides, the overflowing rivers and lakes were the problem in the lowlands. Natural disasters cannot be avoided, but the consequences can be significantly reduced through preventive measures. For this reason, the Swiss canton Uri, which was particularly affected by the storm, decided to be better equipped for future floods with the help of a video surveillance system.

### The Theoretical Flow

The water engineering department of the canton relies on a video management system to protect particularly vulnerable areas. Hence, video cameras should monitor the level of the local waters at strategically important locations. The areas of overflow spillways (dikes) and flood buildings (driftwood grills, delay basins) should be provided with a reliable solution that runs stably under extreme external conditions and that can be operated intuitively. Another important criterion was the gradation of the rights of

use. Access to the system's images should be granted to numerous employees to ensure 24/7 surveillance, while operation and configuration (e.g. an export of the recordings) should only be available to selected members of staff. To protect the privacy rights of randomly recorded people passing by, the cantonal operator required differentiated authorization groups. Since no security system had been in use for the early warning of floods before, an external office was entrusted with creating a list of requirements for implementation in 2011. The requirements of the engineering office of R. Stöckli AG from Zurich were subsequently implemented locally by ParCom Systems. On their recommendation, the client chose the software solution of the German company SeeTec AG.

### Before the Rainfall

The implementation of the video management system started promptly. The modular system concept of the SeeTec Multi Solution Platform provides numerous options and features that meet the customers' individual wishes. Thus, the user is provided with a variety of clients that can



optionally be activated or deactivated. In addition, external systems such as burglar alarm systems, intercoms or lighting systems can be operated directly on the SeeTec surface via I/O modules.

Outdoors, video cameras from Axis Communications are in use at 13 locations along river beds. Specifically designed for outdoor use, the cameras are equipped with a robust housing and thus provide clear images even under extreme conditions. The cameras keep an eye on strategically selected points so that a rise of the water level can be detected and reported immediately. The central control station of the system is located at the Civil Engineering Office in Alt-dorf, the canton's main location. The staff here has full access to the installed cameras and is able to configure and control them. 30 workstations are available to the administration. In total, more than 40 users, also including external emergency organizations such as local fire brigades, have access to the live images.

#### Who Sees What

What is of crucial importance for the cantonal administration is the finely graduated and flexible assignment of user rights in the client soft-

ware. Thus, external users defined previously are able to view camera recordings, but can neither export them nor change system settings. "The different user rights and the software's user interface, which can be operated intuitively, approach an easy handling. Basic system training was carried out within a very short period so the performance of both hardware and software is paramount", said Mirco Stadelmann, Project Manager at the partner ParCom Systems. In addition to the surveillance cameras, fixed lighting is connected with the SeeTec system via Internet by means of an I/O module and a UTMS router installed at each site. This allows the staff to operate the lighting remotely and, in case of poor visibility conditions or at night, the light at any camera location can be switched on to be able to recognize emergencies at an early stage. The site plan displayed in the software contains the locations of the installed hardware and shows the current status of the lighting (on or off) via integrated lamp icons.

In addition, SeeTec Anywhere software is integrated into the platform by the manufacturer, Citrix, so that authorized employees are also able to connect to the video system remotely via their usual application. A prior installation of the

SeeTec software on the individual workstations is not necessary, simplifying practical usage in everyday life.

Fritz Epp, Head of the Water Maintenance Department at the management of the canton Uri, is extremely satisfied with the result. "The installed solution has decreased our workload and effort immensely. It allows us to detect danger early and to take preventive measures for the protection of entire villages and communities. We do not have to physically check on site if everything is in order all the time but can now easily view the situation from the control station."

To date, several small floods have been detected and dammed up early. For the future, an extension of the number of cameras is planned so that unpleasant surprises can be prevented to the greatest possible degree.

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## BRANCH FOCUS CASINOS

# The Nights of **the Round Table**

Axis Brings Megapixel Video to a Newly-opened Casino



RIU Pravets Golf Spa and Casino Resort is a luxury complex in a unique location near Sofia in Bulgaria. The facility offers several restaurants of different sizes and has conference halls and many other facilities for corporate events and conferences. The guests therefore have high expectations of service and, with those, a high level of security. This is especially true for the Casino and the reason why the investor decided to step ahead of the current regulations and invest in a future-proof, high-resolution, IP-based video surveillance system.

The Casino is the final piece of the RIU Pravets Golf & Spa development. Corporate customers and guests looking for luxury and leisure will be impressed by the facility and the services provided by the hotel. A key-factor for any visitor's comfort is security and, when it comes to the thrill of the roulette table or a blackjack game, security turns into a must.

Certain specific requirements defined the basis for the sophisticated IP solution: the cameras had to be used for general surveillance but at the same time able to focus on the tables when required. Identification of even the smallest object was essential. Several tests with various types of equipment took place to find the best performing vendor in this specific environment.

The real-time live view and huge volumes of recordings placed high demands on the network, and especially on the servers. Not a frame could be lost; no object should be unrecognizable. Real-time video and image recording must contain as much detail as possible. These were the mandatory requirements from the security officers and, when talking about the casino business, easily understandable. Minimum levels of redundancy and flexibility were also defined.

### Next-generation Casino Solution

A local integrator, Telelink, was involved in the project from the design phase. Based on the customer's requirements, the proposed solution included five different Axis cameras – from

VGA up to 3 megapixels. Depending on the specific application, different cameras oversee the different operational areas. Megapixel cameras provide the highest level of details for the games in progress while lower resolution cameras provide an overview of the non-critical areas of the casino. Milestone Xprotect Corporate video management software runs on IBM servers to provide the central monitoring room with live views and reliable recording capabilities.

Test results and previous experience led the engineering team to the solution using Axis IP video surveillance and a Milestone video management system. Axis provided various options for the cameras, depending on the floor height, mounting options, lighting scenarios and resolution requirements. Taking all those specifications into account, the design of the system included 5 different camera types: the Axis P3301, 215 PTZ, P3344 (1 megapixel), P1346 (3 megapixel) and P5534 PTZ (1 megapixel). Having many megapixel cameras makes the network traffic grow significantly, so to optimize the traffic and at the same time maintain image quality, H.264 compression was widely implemented in the system. This approach also reduced the volume of the archive.

### Essential Archive

Different types of storage technologies were introduced to meet the requirements of recording speed and volume. Having 25fps for 3



megapixel and 1 megapixel cameras proved to be a major challenge for the Telelink team. Fast and well-organized SAS disks handle the video streams as the initial recording destination, and the oldest video is transferred to a long-lasting SATA storage archive. The unified playback in Milestone allows the use of different archive locations, depending on the speed and storage requirements. "The megapixel solution from Axis ensured outstanding level of detail of live and recorded video streams for this very sensitive and specific casino application" said Lachezar

Todorov, CEO of Teratour Services who operate the complex.

The final result is a sophisticated, real-time, high-resolution, IP video surveillance solution with extremely detailed recording and advanced management. Nothing can stay hidden now! Each move and action can be played back from several different angles and views, if necessary. As a result of the implementation, the customer is now operating a surveillance system with megapixel quality records and real-time live view. Time will prove the concept in this particular market segment.

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#### Network Video Recording for Financial Institutions

Verint announced enhancements to its Nextiva Edge VR solution, which features scalable, enterprise-class video monitoring, recording and analytics capabilities. Specifically designed for banks and financial institutions, the advanced network video recording platform helps enhance security and streamline investigations in a variety of financial and retail bank environments. The latest version of the solution delivers the benefits of an embedded NVR, including bandwidth optimization, remote

access and robust surveillance analytics. Its video surveillance functionality can easily scale to support up to 64 IP and analog cameras. Consistent with the system's open platform design, the solution integrates with various edge devices and systems to deliver flexibility to customers in the financial market. Among the enhancements to the platform are advanced investigation tools, such as face detection, license plate recognition and a variety of surveillance analytics.

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

#### Approved For Sterile Environments

Xtralis announced that version 1.14 of Intrusiontrace, a downloadable intrusion detection analytic for the Adpro Fast Trace 2/2X, has been approved as a primary detection system for operational use in sterile environments by the UK Home Office Scientific Development Branch (HOSDB). The Imagery Library for Intelligent Detection Systems (i-LIDS)

is the UK government's benchmark for video analytics (VA) systems. i-LIDS is comprised of a library of CCTV video footage based around 'scenarios' central to the government's requirements. Sterile zone monitoring addresses alarm events consisting of the presence of people in a sterile zone between two security fences. [mkemshall@xtralis.com](mailto:mkemshall@xtralis.com)

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## VIDEO SURVEILLANCE

# Easy on the Eyes

## Munich Soccer Clubs Rely on Panomera Multifocal Sensor Systems

The Allianz Arena in Munich is no longer just one of the largest and most attractive football stadiums in Europe, it is now also one of the safest. The video surveillance system in the stadium in the Bavarian state capital has been thoroughly overhauled and converted to Dallmeier technology. At the heart of the system, Panomera multifocal sensor technology is tasked with ensuring order in the North and South ends of the stadium.

The home stadium for FC Bayern Munich, which is where TSV 1860 Munich also play their home games, can accommodate over 71,000 spectators. In order to ensure the safety of fans and players at all times, the existing video surveillance system has been completely modernized. "The system for controlling individual PTZ cameras was technologically temperamental and the resolution achieved was no longer equal to current needs. It would not have been commercially viable to modernize or expand the existing system, so we set out to find a new system", says Richard Ponteles, Team Leader Technical FM, Operations Department at the Allianz Arena Munich Stadion GmbH.

The security managers saw the Dallmeier Panomera multifocal sensor system at the "Sponsors Sports Venue Summit" and were convinced by the performance capabilities of this new camera technology. An extensive planning phase followed during which technicians from Dallmeier visited the site a number of times to



## View-By-Wire

### Panomera from Dallmeier in the Munich Allianz Arena

Security in the stadium – this is also a continuous and demanding challenge in the Allianz Arena, home to both FC Bayern and the TSV 1860 sports club. GIT SECURITY spoke with Jürgen Muth, Managing Director of the Allianz Arena, about the most recent steps taken to ensure the security of the fans, the players and the staff.

**GIT SECURITY:** Mr. Muth, the security of soccer stadiums is often the subject of lively discussion. There are, for example, security-related guidelines regarding the construction and technology used that are issued by the DFB (German Soccer Association). What significant matters have arisen recently in this regard for the Allianz Arena?

**Jürgen Muth:** One major aspect is certainly our comprehensively renewed video surveillance system. We have also installed an additional electronic access control system in the standing area of our home club Bayern Munich.

**Let's talk about the video surveillance system – why was it necessary to modernize it?**

**Jürgen Muth:** The problem was that we had two camera systems of different generations. Some



Jürgen Muth, Director of the Allianz Arena



▲ Clearly identify flare throwers and vandals: "We can trace the pictures back at this point and identify the people."

A new sensor concept in the Allianz Arena: A gigantic area is monitored in high definition from just one point of installation ▼



Please turn the page ►

of the cameras were the original ones installed when the Allianz Arena first opened; others had been installed later. We also needed better facilities to watch the fan blocks. Above all we needed user-friendly operation that integrated the entire system, regardless of the manufacturer of the camera, so it could be controlled with just one joystick at any workstation.

#### How was the decision made to use Dallmeier technology?

**Jürgen Muth:** We tried systems from various suppliers first of all and talked with our colleagues at other stadiums who had been involved in the subject recently and had installed new systems. The short list amounted to three systems that we then tested extensively together with the police on site.

#### What did those tests involve?

**Jürgen Muth:** Well for example, with the help of the local Fire Brigade we let off some pyrotechnics: the image quality is really put to the test here. Flashes and bright light in general are of-

ten a problem because faces can then no longer be recognized. The Panomera from Dallmeier, however, showed otherwise: despite the pyrotechnics, the image quality was excellent. In addition, we were able to completely monitor the stadium curve, to save the images and then follow the action in reverse at different levels of zoom. For example, if a visitor puts on a balaclava or if a large banner is raised and pyrotechnic readied behind it, we can look back at the images from this area and identify those people before the point in time that the balaclava was put on or the banner raised. Dallmeier definitely provides the system technically best suited to our needs, and it is very easy to operate by plug and play. That was a very important point for us so that it is easy for staff to use the system even if they haven't done so recently.

#### And are you happy with the result?

**Jürgen Muth:** I am very happy, both from the project management and the implementation point of view. The staff have reported that their first experiences of the system in operation were also very good. Our own people and also the

colleagues from the Police are very satisfied. To everyone's delight we have made a big leap forward with Panomera. Everyone now wants to use the new facilities that we didn't have before.

#### What other measures will you be taking in the near future with regard to security at the stadium?

**Jürgen Muth:** For the moment we have completed all that we had planned for this Summer. So for the moment we are certainly in very good shape with regard to stadium security. But the subject remains continuously in focus of course – the DFB and the DFL are very active in this respect. We follow it closely and keep up-to-date with the technical developments.

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Where is the Panomera? Systems were installed at giddy heights and have all areas of the stadium completely in view

design a new video system that was perfectly adapted to the Allianz Arena.

### High Resolution North and South

The heart of this new video installation is the patented Panomera system, a so-called multifocal sensor system. Unlike conventional cameras that rely on single lenses, the multifocal sensor system operates with multiple lenses, each with a different focal length. This new sensor concept makes it possible to provide surveillance over a vast area with the highest possible resolution from a single installation point. "Even more distant individuals or objects are captured with the same quality resolution as those in the image foreground", explains Roland Meier, Head of Panomera at Dallmeier.

And there is one other important difference from conventional cameras: whereas PTZ cameras only ever record the zone that is currently being viewed live, which means that the success of searches depends crucially on the respective operators, with Panomera the entire image – that is to say the entire area under surveillance – is recorded continuously and at maximum resolution. This means that no details are lost and a wide range of analysis and evaluation options are made possible.

The responsible staff members at the Allianz Arena were particularly concerned to provide security in the spectators' areas at the North and South ends so the Panomera systems were mounted at a dizzying height. Three cascaded systems were fitted behind the scoreboard cover on the upper tier of the North stand while sev-

eral more on the lighting gantries are trained on the lower tiers of the North and South end. "The resolution of detail offered by this system is simply incredible", said Richard Ponteles.

### Integrating the Existing Installation with the Dallmeier System

In all, about 100 cameras are used to oversee the entire stadium area, including the stands, the inner building, entrances and exits and even the car parks. In the course of the modernization, depending on their condition, the existing cameras were either replaced with Dallmeier dome cameras or box cameras with integrated infrared illumination or were incorporated into the new system. "Previously, we worked with two management systems in order to be able to operate the cameras from the various manufacturers but these have now been replaced with a single system from Dallmeier, the Semsy Management System. The legacy cameras from multiple manufacturers, the Dallmeier HD cameras and the Panomera cameras can all be controlled and analyzed very simply with one management system", explains Richard Ponteles.

Four workstations, all equipped with the Semsy Management System and the Panomera Viewer, have been set up in the command center for the police. Another three workstations are located in the Welcome Area West, the Stewards' Office and the Engineering Room. This enables the security staff and stewards to be optimally deployed in the stadium during matches, and even areas such as the stairwells or lifts can be overseen reliably. In addition, all status reports



Panomera at the heart: 100 cameras monitor the whole stadium area of stands, internal buildings, entrances and exits as well as the parking lots

from the Pguard advance analysis software are routed to the workstation in the Engineering Room, so the staff there is informed automatically if a fan or a camera malfunctions, for example.

Several DMX 1600 Smatrix were installed for recording the legacy cameras while the Panomera system images are stored on IPS 2400 Smavia. This is a high-performance appliance with integrated storage system and a high recording speed. It is particularly notable for its extremely space-saving design as well as low power consumption and heat emission.

### Resounding Success

Managing Director Jürgen Muth also considers the new video system a complete success: "The extremely high detail resolution, the capability of integrating our existing system, and particularly the intuitive operation of the system were the decisive factors for us in choosing Dallmeier. We are more than satisfied, both with the system and with the consulting support we have received from them."

### ▶ CONTACT



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Wakefield control room after 5 years and 5 months of 24/7 operation

## CONTROL ROOMS

# On the Go – Non Stop

Eyevis LCD Video Wall and Controller at Wakefield Control Room in Continuous Operation for Six Years

Following the formation of Eyevis UK in the Summer of 2007, the company installed its first ever UK control room video wall system at Wakefield Metropolitan Borough Council Urban Traffic and CCTV control room during September 2007, six years ago. Since the installation was completed, the control room and video wall system have been in constant 24/7 365 days a year operation, helping to keep the council's regions and inhabitants safe and to record video evidence that has been used in thousands of court prosecutions to bring people to justice.

When Eyevis was selected by the council in 2007, following a detailed commercial and technical evaluation process, the Wakefield evaluation team, led by the Operations Manager for Enforcement, Mr Darren Pollington, noted that their proposal and solution was a 'high-end' offering, requiring a higher investment in comparison to many of the responses that were proposing the use of non-industrial grade LCD technology.

However, six years on, Darren Pollington explains that their conviction to go with this high-end solution has proved to have been the correct one. "The Eyevis video wall system has provided outstanding reliability and operation during the past six years and, as you can see from the recent photographs taken, it continues to do so. We have not had to change a single LCD display unit out of the fifteen in operation, only to exchange some power supplies and fans, which have been managed by our incumbent CCTV maintenance contractor 2020 Vision with the continued excellent support from Eyevis UK. We should also remember that at the time of the tender process back in 2007, our competitors

were telling us that it was technically impossible to simultaneously display 166x CCTV images on a video wall in real time. As you can see, this has been achieved continuously by the Netpix video wall controller. With regard to this controller, we have had zero component failures and the Eyecon control software V3 we are using, even after six years, remains the most flexible solution we have seen and provides the level of flexibility we need to respond to different circumstances."

### Personal Arrangement

"A good example of this flexibility was a few years ago when we had serious flooding in the region. The operators created their own specific wall layouts on a shift-by-shift basis to monitor specific cameras that were providing very useful information on water levels and where we needed to coordinate resources with the emergency and rescue services. As you will see on the video wall layouts, our operators use the window properties of the control software to color the frame of camera images for different regions or for specific activities that are on-going at any one time."

Steve Murphy, Managing Director of Eyevis UK commented "As Wakefield was the very first installation for us in the UK, it has always been a special installation. As Darren explained, it has followed our other UK projects and proved to have been extremely reliable. In addition, the whole Wakefield project, from the overall control room design, the level of system integration between the security management systems and the video wall and the operational practices in the control room, have proved to be inspirational and motivational to many other clients that we have shown around the installation who were considering and preparing for their own control room upgrade. To this end, we would like to sincerely thank Wakefield MBC for their cooperation during the last six years. It has been and remains an excellent working relationship.

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## VIDEO SURVEILLANCE

# Full HD and Smart Control

## LG's New Series of HD Cameras Adds Flexibility to High Resolution Performance

With the introduction of five new Onvif compliant Full HD bullet, dome and mini dome cameras to their IP Range, LG is combining the benefits of IP network performance with Smart Control, a motorised pan and tilt function within the dome models to enable the final position of the lens to be adjusted after installation. The models are available either in a vandal-resistant IP66 housing or a stylish internal cabinet. All five come with a 3-9mm IR Corrected Vari-Focal lens and Auto Back Focus.

LG adds five HD cameras to their IP Range



### Full HD Performance

The five additional cameras are divided in to four domes, of which two are vandal resistant and one bullet. LND7210, LND7210R are internal domes and the LNV7210, LNV7210R are vandal resistant domes. The LNU7210R is the bullet camera. All are true Day Night 2 Megapixel domes with High Quality images, Real-time streaming in Full HD with both cameras employing Wide Dynamic Range.

A built-in SD card recording facility assures the user that even should a network failure occur, images will still be recorded locally at the camera which can then be downloaded when networks communications resume. Motion detection or other local events can all be recorded to SD card. Added features such as the Embedded Video Content Analytics, Bi-directional Audio, PoE and up to Multi Streaming and including Region of Interest ensure that the new cameras are a great compliment to the IP HD range from LG.



### Smart Control

With the Smart Control feature implemented within the latest Full HD mini domes, the field of view can be adjusted within seconds without the need to attend site. The internal module can be rotated, tilted and the zoom adjusted to give the required field of view for the new risk. Accessible from a web browser, iphone, tablet, PC, DVR, NVR or third party platform, this extremely flexible feature enables fast reactive times to ensure that the images viewed and recorded are the ones that the end user needs at all times.

Initial installation times are reduced thereby minimising any potential inconvenience caused to the day to day running of the clients business. Final set up and commissioning can be completed at the control position allowing the engineer less time in public areas and therefore a more efficient installation. Once the camera has been installed the engineer can remotely adjust the final view thereby creating minimal disturbance to the end users daily operation.

### Flexibel According to Business Needs

The Smart Control feature also allows the cameras field of view to be changed remotely as the end users requirements change throughout their business needs. Many applications and vertical markets will benefit by using this feature, especially where minimal disturbance is required in public spaces. Business never stays the same, it is expected that there will always be changes and it is up to us to prepare for those changes and to react the quickest to maximise the opportunities.

Sometimes in the security industry we are not informed or consulted about those changes until the last moment when all of a sudden it is urgent. Opening times cannot be met, licences not given, promotions need to be started, high value stock is arriving, threats to public safety increase. Integrators have to react quickly to meet the new deadlines and challenges that are presented. On these occasions the integrator needs to attend site to make various changes to a CCTV system so the end user can continue with their business objectives.

Risk always changes, whether caused by seasonal promotions in retail, building alterations, public transport, warehousing as stock levels fluctuate, safety in public spaces, or museums where the locations of art changes as new exhibitions are introduced. All of these examples and more are a reality and the security needs to be flexible without being compromised. Smart Control within the new LG domes allows the area that needs to be monitored to be changed in a matter of seconds as the end user requirements demand.

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## Video Management and Analytics

IPS presents the latest version 4.0 of its Video Manager and Video Analytics. The first is an IP-based, unlimited scalable platform for sophisticated video surveillance applications. It offers dedicated functionalities for basic Network Video Recorders (NVR), comprehensive Video Management Systems (VMS), 3D georeferencing Video Management Systems (3D VMS) and overall Multi Site Management (MSM). The new version offers features such as support of ONVIF compatible cameras and devices; multi Instance Device Server for efficient usage of the performance of server resources; redundant Device Server as n+1 redundancy to enhance the operational safety with automatic switching in case of a failure of a device server to the redundant device server; alarm management with workflow and reporting; improved and standardized operation of Playback and Instant Replay; docked resource list with fade-in and fade-out operation and information panels; context-sensitive help function in system and analytics configura-



tion; new Mobile Client for iPads and iPhones as well as new JSON Gateway Service for the communication between Management and Mobile Client; support of additional camera models from Axis, Arecont, JVC, Panasonic, Securieye and Xenics. IPS Video Analytics are intelligent, software-based analytics modules operated on servers or cameras for the automatic detection of security related objects or events in video images. In real-time, they allow motion detection, object tracking, object classification, object identification or behaviour recognition. Version 4.0 includes: Public Transport Protection for real-time alerting in case of unauthorized behavior in underground or overground railway installations; Dome Tracker for real-time control of PTZ cameras.

[www.ips-analytics.com](http://www.ips-analytics.com)

## NVR All-rounder

Geutebruck's Netporter is a pure IP, network-based NVR and a smart all-rounder suitable for almost any kind of application. The standard model comes with eight separate 1000Base-TX ports for IP camera connection and you can add a further switchboard to provide another eight ports if desired. With an integral high performance 180W PoE 1Gbit switch for up to 16 IP cameras, you don't need any external ancillary components such as camera PSUs, switches or midspan components. Installing and connecting cameras is extremely easy and each camera is automatically allocated its unique IP address using DHCP. The



Company's Omnibrid technology enables customers to use different video compression formats within the same system (M-JPEG, H.264 [Multimedia], H264CCTV, MPEG4CCTV, MPEG4CCTV/MP). Other features include TCP/IP digital matrix functionality, port status indicators, centralized IP camera and switch configuration, and remote controlled voltage management with power consumption display for all PoE cameras.

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

## Wavesight's Wireless Eechnology for Port Operator

Wavesight's outdoor wireless CCTV transmission has been selected by Associated British Ports and deployed at Grimsby and Immingham docks, one of the UK's biggest car import terminals. Utilizing their existing hardware, transmitting high-bandwidth CCTV images and generally leveraging a more powerful and cost-effective system from their existing network infrastructure was the task assigned to systems integrator Global Vision CCTV and the manufacturer's own network design team. Associated British Ports (ABP) needed a high-definition megapixel video surveillance system capable of monitoring their entire port operation. This encompassed everything from general port security to employee safety and productivity – all monitored from a central station. The solution specified was an Avigilon HD Surveillance system, which was versatile and flexible enough to support hardware from other CCTV vendors – including analogue cameras – while utilizing ABP's existing infrastructure to achieve a more cost-effective and powerful solution. ABP installed a range of HD megapixel Avigilon cameras at the port of Grimsby. These cameras capture everything

from vehicle entry and exit movements to monitoring the lock gates at the port, which open and close to allow ships to pass. The cameras also ensure that there are no obstructions to prevent the lock gates from opening and closing when required. Analogue video encoders were used to integrate a new analogue PTZ system and existing analogue cameras into their new HD surveillance system. The majority of cameras are connected through the fibre network back to the marine control room where the system is monitored in real-time. To achieve a reliable solution, Global Vision CCTV chose Wavesight to supply the wireless infrastructure, creating a cost-effective extension to the existing network and allowing new camera locations to be installed at an affordable price, while at the same time linking all of the network video recorders (NVRs). A combination of Wavesprints, Waveflows, and Wavemaxs was chosen to transmit images back to the central control room. The systems integrator used Grimsby Dock Tower, a hydraulic accumulator tower and famous maritime landmark in Grimsby, as a relay point.

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

## IR HD Mini Domes

Hikvision is enriching its portfolio of 2-line HD network cameras with the introduction of its first IR mini dome IP camera series: the 1.3-megapixel DS-2CD2512F-I(W)(S) and 3-megapixel DS-2CD2532F-I (W)(S). The compact models are equipped with IR functionality. They are also able to withstand a wide temperature range of -30°C to 60°C, and their housing is designed to fit in a wide variety of environments. The cameras are equipped with 10pcs IR LEDs, offering an IR range of up-to 10m, to produce clear vision even in night mode. With the latest 1/3" progressive scan CMOS, these models capture sharp and clear images at 2,048x1536 (DS-2CD2532F-I (W)(S) model) and 1,280x960 (DS-2CD2512F-I(W)(S) model) resolution for identification purposes. Moreover, both



cameras even provide full HD 1,080p/HD real-time high-quality image performance. The cameras incorporate a switchable IR cut filter for true day/night operability and 3-axis adjustment ability to allow users the ability to easily adjust their desired view. Additionally, they feature advanced image enhancement functionalities like DWDR, 3D DNR and BLC, to provide a clear preview even under challenging lighting conditions.

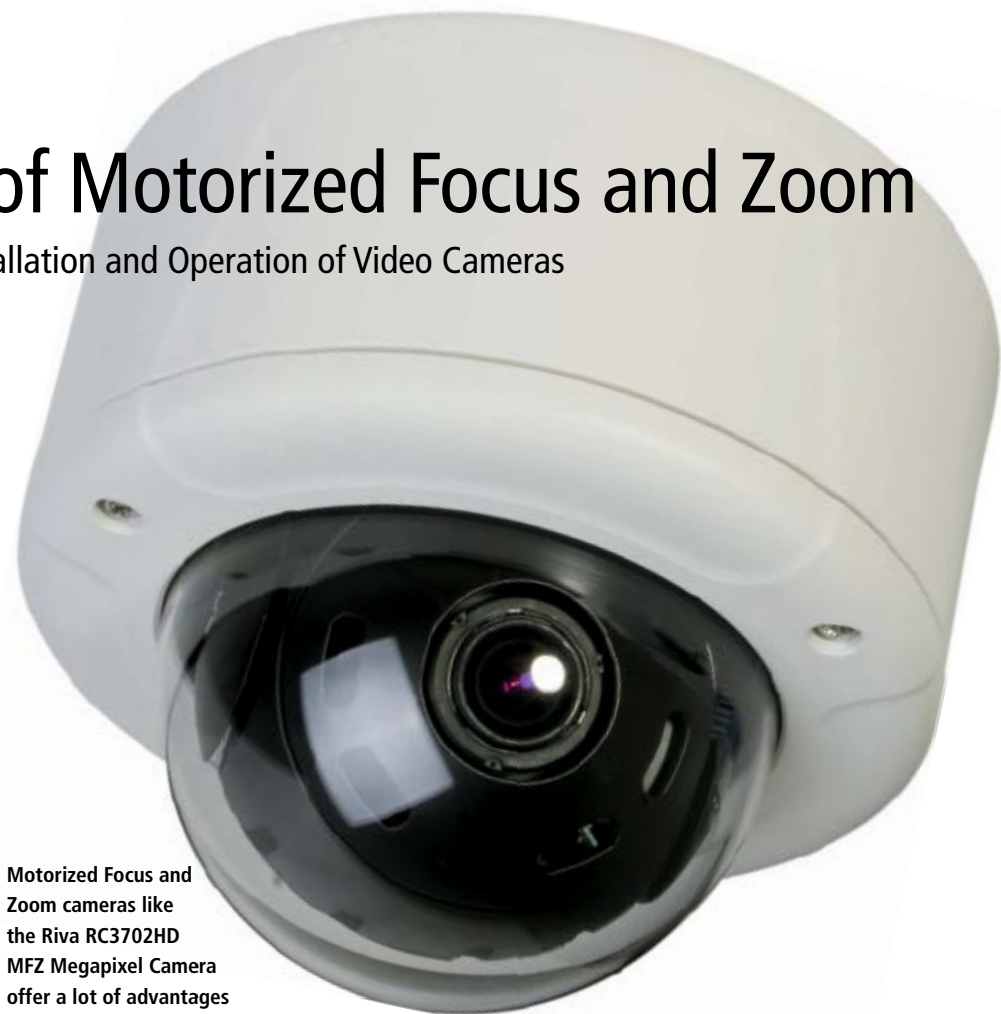
[www.hikvision.com](http://www.hikvision.com)

## VIDEO SURVEILLANCE

# Advantages of Motorized Focus and Zoom

## How MFZ Can Help With the Installation and Operation of Video Cameras

Setting the focus of a megapixel camera is a challenge: it is time consuming and it will hardly give you an ideal result. Lens quality, outdoor installations, weather condition, missing experience and the light situation might make it even worse. The following explains the difficulties of focusing megapixel cameras.



Motorized Focus and Zoom cameras like the Riva RC3702HD MFZ Megapixel Camera offer a lot of advantages

### Installation

During installation, two people are required to set the focus of a network camera. One person sitting in front of a computer giving instructions while the other one setting the focus. Thereby, the accurateness is not secured, especially if the camera is already installed on the ceiling or higher pole. Professional installers, but also others who have experience in installing HD Megapixel CCTV cameras will agree on the comment that "Adjusting the focus is always challenging". Therefore, most of the installers tend to finish the focus setting before finding the perfect position.

### Image Delay and High Resolution

The IP video stream is not real-time due to video process latency, meaning that an effective feedback for an accurate focus can not be provided. Therefore, any focus correction is not an instant adjustment, but more a lucky hit. As the image sharpness of megapixel cameras (resolution 1920x1080) is 6 times clearer as of regular cameras, even slightly inaccurate settings will have an impact on the image quality. Therefore, the focus has to be set even more precise.

### Temperature Effect

The focus of megapixel cameras is sensitive to temperature. The following pictures illustrate how the focus varies when a temperature change occurs after installing. Benefits of cam-



How the focus varies when a temperature change occurs after installation

eras like the Riva IP megapixel cameras with remote focus control and cameras with MFZ enable a remotely controlled focus adjustment. From a remote area, the focus can easily be adjusted with only a couple of mouse clicks.

A further benefit is the cost and time saving. The purchasing price of an IP camera with MFZ is slightly higher compared to a regular CCTV camera, but considering the maintenance costs and time, these cameras with MFZ save a lot of expenses.

Riva cameras for example, equipped with an analog video-out terminal for installation purposes, do not require a 2nd person, but a person on-site. With MFZ the cameras can be focused remotely. Not only the installation, but also re-adjusting the focus is much easier compared to a regular CCTV camera. According to the "Motorized Focus/Zoom" only several mouse clicks are needed to re-adjust the focus, e.g. in chang-

ing weather conditions. The costs and time of re-adjusting cameras without MFZ would be significantly higher than the purchasing price gap between a regular CCTV camera and a camera with MFZ.

To summarize, considering time, effort and costs, cameras with MFZ provide significant advantages compared to regular CCTV cameras. Thus, the MFZ control function in megapixel cameras is not "optional", but "essential".

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### Outdoor-ready Network Camera

The bullet-style AXIS Q1765-LE Network Camera offers full HD image quality, 18x optical zoom and built-in IR illumination making it suited for around-the-clock surveillance installations, where it covers great distances providing both wide overviews as well as detailed images for identification purposes. The outdoor-ready camera is designed for monitoring entrances, exits and perimeter, and for pole mounting for surveillance of parking lots or general city surveillance purposes.



The company's Corridor Format allows for effective monitoring of vertical scenes such as long streets or long perimeters. Its robustness and reliability makes it especially suitable for critical installations like traffic junctions.

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

### Rack Mountable 16-Channel Network Video Recorder

Vivotek announced the rack mountable 16-channel Linux embedded Network Video Recorder (NVR) NR8401, which operates independently from a PC, providing end-users with a stable and efficient recording system with a wide range of network management and system settings. The full range of the manufacturer's network cameras, including the latest high megapixel and fisheye models, works seamlessly with NR8401. An NVR can connect directly with other networked devices via the Internet. The recorder can not only directly connect with central management soft-



ware as the company's "Vast", but is also compatible with the iViewer application, allowing for remote access on handheld devices. Real-time monitoring, recording and data management can be performed simultaneously via the simple and smooth web browser interface, and the NVR is equipped with web console dewarp functionality, supporting the 10, 1P & 1R dewarping modes for fisheye cameras.

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

### All-in-one

Bosch launches the new Divar IP recorder family. It consists of all-in-one video management systems as well as storage solutions. The all-in-one solutions combine a network recorder, storage array, client workstation and integrated software. All recorders enable recording, viewing, and export of high-definition and standard definition resolutions, while streams are displayed in 16:9 and 4:3 aspect ratios simultaneously. The recorded videos can be viewed and managed using a remote operating client, and integrated operating client or a built-in web application. Instant



access to HD video scenes from anywhere is possible thanks to the Company's Dynamic Transcoding Technology. This technology enables high-resolution live video streaming and playback even over limited bandwidth connections, adapting the image quality to the available bandwidth.

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

### Fully Integrated

Onssi's Video Management System is fully integrated with the Axis A1001 Network Door Controller. The integration provides video surveillance and security operations at all levels to be seamlessly combined onto Ocularis' platform. This allows users to monitor and control video surveillance and access control operations side-by-side when Ocularis and the new Axis solution are paired together. ConvergenceTP of North Haven, CT implemented the integration as a partner of both companies. The integration allows

critical video and access control data to be displayed side-by-side on the Ocularis platform, as opposed to viewing associated video with text overlays. This makes it easier for security personnel to monitor events in real-time, and provides an added level of security by visually matching access cardholders with live images to ascertain identities. This integration offers unique value by offering search engine functionality and statistical analysis of the access control events.

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

### IP Camera Family

The IP 5000 camera family from Bosch featuring up to five-megapixel resolutions is designed for a wide range of typical surveillance needs. By the end of 2013 the range will consist of thirteen cameras in four different designs: micro domes, bullet, indoor and outdoor domes. They are offering a variety of resolutions for different image detail requirements and SD card storage options. Options for outdoor installation include vandal resistance, water and dust-proof enclosures, and IR LEDs for night-time monitoring. Varifocal lenses also simplify adjusting the field of view. The cameras incorporate two special bandwidth reduction technologies. Firstly, intelligent Dynamic Noise Reduction (iDNR) adapts the degree of noise reduction real-time based on an analy-



sis of the contents of a scene. For example, bandwidth is reduced by up to 50 percent when no motion is present. As soon as an important object is detected, bandwidth increases to capture maximum detail. Secondly, bandwidth is further reduced by way of area-based encoding that enables compression parameters to be set for up to eight user-definable regions. This means less interesting regions are more highly compressed, leaving more bandwidth for the important parts of the scene.

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

### Key Control and Management

Morse Watchmans' Keywatcher Touch now offers scheduled PDF reports that are automatically emailed to authorized recipients. Email delivery of customized or standard reports can be scheduled for any frequency or specific time, or they can be accessed using the company's smartphone app. The Truetouch software runs all programming, remote functions and reports for all Keywatcher Touch locations while the server performs synchronizations of transactions as well as maintain-

ing the SQL database. Both access control systems and customized client control software interface with the server application. Keywatcher Illuminated can be configured with a variety of modules and customized to specific user needs. In addition to several different key modules, available modules include the credit/access card module and single and dual locker modules which can be used in any Keywatcher system for holding small valuable items.

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

## In Focus: IQeye 7 Series

The 7 Series is a full-featured HD indoor camera from IQinVision. This next generation camera provides multiple, individually configured and simultaneous MJPEG streams. Designed with the installer in mind, analog video out along with remote back-focus makes installation easy. The 7 Series camera supports PoE and features a moveable IR filter for true day and night functionality. The camera provides image controls for optimization of video for any lighting condition. Two-way audio allows for interactive communication between the camera and monitoring site. It also supports the configuration of virtual cameras and permits camera-based movement recognition.



## CAMERA TEST



### Performance

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

Assessment of performance at 1,000 Lux  
The IQeye 7 Series impresses with a brilliant picture from a well-lit scene. The colors are strong and realistically reproduced, the image is sharp and almost noise-free.

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

When tested at levels below 1,000 Lux the camera delivered a constant 30 frames per second. Here too the image was detailed and with realistic colors. Only at a level well under 100 Lux did slight impairments in the image start to become visible, although there was no dramatic worsening of the image quality. As from 10 Lux a slight blurring can be seen. Worthy of praise is that even at the low light level of 0.5 Lux the camera still did not switch to b/w mode and continued to deliver images in color. The picture noise is of course higher but the color and detail reproduction remains excellent as before.

#### Assessment of performance in backlight situations

When there is backlight the IQeye 7 Series provides overdriven images that could not be used to determine the test parameters. The backlight spread over the entire image and made objects and background unrecognizable. No objective evaluation was therefore possible.

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

The H.264 video stream at 30 frames per second provides a predominantly linear average bandwidth usage of 8MB/s. When switching to b/w mode under backlight conditions the bandwidth drops significantly.

#### Conclusion

The IQeye 7 Series provides a consistently good picture with neutral color reproduction under even lighting conditions. For the device used in the tests, however, the backlight performance could not be evaluated due to the high over-modulation of the image. On the positive side, it must be mentioned that the camera still allows objects and movement to be seen even at extremely low light levels.

#### Technical data for the camera test

Manufacturer	IQinVision
Model	IQ762NI
Firmware version	3.1.2
Distance to test chart	0.70 m
Lens used	Tamron MP 4–12mm 1:1.4 ½ CCTV DC
*Focal length set	ca. 6 mm
*Compression method	H.264
*Max. Resolution	1920x1080
*Compression	H.264 and MJPEG
I-Frame-interval	1 second
Max. stream bandwidth	unlimited
Measured frame rate	30 fps
Average bandwidth	8 Mbit/s

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

#### Assessment with differing illumination conditions

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

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

# Test the Best!

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

## Performance

### Assessment of performance at 1,000 Lu

The JVC VN-H57U(A) delivered an image under good lighting conditions with a slight red shift. A manual white balance was not carried out as the test takes place under factory settings. All objects were reproduced sharp and with good contrast; smearing and image noise were hardly perceptible.

### Assessment of performance below 1,000 Lux

The camera continued to provide almost constant good picture quality under reducing light conditions, impressing in particular with its high level of detail. Under weak lighting (under 2 Lux) no red shift is apparent anymore. Even at 0.5 Lux, the camera continues to deliver color images. An automatic switch to B/W mode does not happen yet, thanks to the 'Super LoLux' technology. Although the picture noise increases under these conditions, the contrast and clarity remain almost unaffected.

### Assessment of performance in backlight situations

The performance of the camera under backlight conditions is consistently good, impressing above all by its extremely short readjustment time of just under one second. The backlight source did not significantly over-modulate and details in the background remain easily recognizable.

### Assessment of performance in use: bandwidth measurement

The bandwidth usage of the camera stayed very linear at a low 4.3 MB/s. The bandwidth dropped after switching to b/w mode, using just over 1 MB/s.

## Conclusion

The new camera generation from JVC delivers images that, even under extremely weak lighting, allow objects and their movements to be clearly seen, thanks to its 'Super LoLux' technology. When well lit, a scene appears sharp although slight quality loss is apparent in color reproduction.



## In Focus: JVC VN-H57U(A)

JVC's VN-H57U(A) series feature true Day/Night performance and Super LoLux HD technology for superior color reproduction, even in low light. The embedded Clear Logic Video Intelligence image processing promises to provide superior wide dynamic performance, back light compensation, edge enhancement and anti-fog capabilities. The VN-H57U(A) includes a 1/3-inch CMOS imager that delivers Full HD 2.2MP at up to 30fps – and can produce rich color images in light as low as 0.15 lux. The VN-H57U(A) offers remote and auto back focus. Other features include ON-VIF compatibility, an DS card slot, audio features, camera-based analysis tools such as motion detection and also privacy masking.

## CAMERA TEST



### Technical data for the camera test

Manufacturer	JVC
Model	VN-H57U
Firmware version	5.00.019
Distance to test chart	0.7 m
Lens used	Tamron MP 2.8–8mm IR1:1.2 1/3 CCTV CS
* Focal length set	6 mm
*Compression method	H.264
*Resolution	1920x1080
*Compression	–
I-Frame-interval	1 second
Max. stream bandwidth	4096 Kbit/s
Measured frame rate	30 fps
Average bandwidth	4,28 Mbit/s

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

### Assessment with differing illumination conditions

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

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

### Megapixel Cameras

Arecont Vision has showcased its Megaview 2 and Megaball 2 series of all-in-one Day/Night H.264 megapixel cameras at Asis 2013. Both camera series feature remote focus and remote zoom P-iris lenses to ease installation, and optional true Wide Dynamic Range (WDR) at 1,080p and 3 megapixels (MP). The Megaview 2 cameras are available in resolutions of 1.3MP, 1,080p, 3MP, 5MP and 10MP. They offer optional built-in infrared (IR) illuminator LEDs. The cameras come with a junction box and an easy to adjust 3-axis wall mount to further simplify installation.



Their bullet-style enclosures are IP66 environmentally rated. The spherically shaped Megaball 2 cameras are available in 1.3MP, 1,080p, 3MP and 5MP models, and come with an integrated cable management structure to simplify installation. They also offer versatile bracket or dome installation configurations.

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

### Panoramic Megapixel Camera

Arecont Vision has introduced a 12 megapixel (MP) 360° panoramic camera with true Wide Dynamic Range (WDR). The Surroundvideo panoramic camera produces high quality images of wide areas even in the most challenging lighting conditions without the aberrations produced by single sensor fish-eye panoramic cameras. Approximately half the size of the manufacturer's previous panoramic dome camera, the new camera's unobtrusive design makes it suited for numerous applications both indoors and out. The company's WDR technology delivers a dynamic range of up to



100dB at full resolution without lowering the frame rates. By combining long and short exposures in the same field-of-view, WDR maximizes the amount of detail in both bright and dark areas of a scene.

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

### Mini-Dome

Axis presents the M3026-VE, which provides 3-megapixel and HDTV 1,080p video with a 106° horizontal angle of view. It has an automatically removable infrared-cut filter, which enables the camera to capture color video during daytime conditions and make use of infrared (IR) light in low-light conditions for high-quality black and white video. The manufacturer's M30 Series now comprises eight products including the recently launched outdoor-ready M3024-LVE with built-in IR illuminators and the 2-megapixel M3025-VE. Installation of the camera is quick and easy. It can be mounted on



walls or ceilings, and the camera direction can be easily adjusted. The camera supports Corridor Format for vertically oriented video streams that maximize coverage of areas such as along walls and aisles. It also comes focused at delivery, which shortens the installation time.

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

### Vandal and Extreme Weather Resistant

Samsung Techwin's Wisenet III 2MP Full HD network vandal-resistant dome camera, the SNV-6084, is designed to work effectively in severe weather conditions as well as being resistant to physical attack. The camera is IK10 vandal resistant and weatherproof to IP66, it can withstand high temperature variations of -50°C to +55°C, making it suited as a video surveillance solution in even the most challenging environmental conditions – e.g. at airports, ports, car parks, trading estates and open public spaces where there is a need to capture evidence grade images from a large number of cameras. Both the camera and its in-built heater can be powered by standard PoE (Power over Ethernet), negating the need for the installation of separate cables for power and



image transmission, or additional costly midspans. Equipped with a 3–8.5mm motorized varifocal lens, the Onvif conformant SNV-6084 is a true Day/Night camera with an infra-cut filter. It is designed to capture high quality color images at an ultra fast frame rate of 60fps at 1,080p and features enhanced Wide Dynamic Range which with performance greater than 120dB can accurately produce images in scenes that simultaneously contain very bright and very dark areas.

[samsung@drsmarketing.co.uk](mailto:samsung@drsmarketing.co.uk)

### Full Integration

Grundig Security announced its SDK integration with Teleste Corporation, provider of open platform IP Video Management System (VMS) software. Teleste Corporation's IP video management systems are used for controlling, processing, viewing, allocating and recording multiple IP CCTV video channels on distributed architecture. Products range from multiple Network Video Recorders NVR control software through to IP video management systems for unlimited video chan-



nels and concurrent user connections. The company's VMX and S-VMX video management software are used in many prestigious, high camera count, surveillance projects. The Company specializes in transportation and public space security markets.

[info@grundig-security.com](mailto:info@grundig-security.com)

### Call Box for Harsh Environments

Talkaphone has released a hardened, Nema 4X rated, call box with a handset for noisy and harsh environments. Typically used at industrial complexes, transit facilities, bridges and similar outdoor locations, the unit features durable marine grade stainless steel construction and additional security with a latching door. The call box offers extra room to accommodate any of the manufacturer's

handset emergency phone, which offers privacy during conversation and clarity with a noise-canceling microphone. The Company's bright all-LED Blue Light can be deployed with a hardened call box, granting high visibility at great distances. The unit can be programmed to flash the LED Blue Light when a handset is lifted off the hook, attracting attention to the scene.

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

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Video monitoring components and systems

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Video monitoring components – e.g. cameras, lenses, screens, monitoring technologies, DVR, NVR.

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