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# GIT SECURITY

GIT
EMEA Edition

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MAGAZINE FOR SAFETY AND SECURITY

6

GIT SECURITY AWARD 2015 Winners

Evacuation

Airport Security

Fire Protection

EU Secure-ED project

Security for Casinos

COVER: Vanderbilt Industries
Joseph Grillo discusses the acquisition by Vanderbilt of Siemens' Security Products business

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# Showtime

In the editorial of our June issue I was asking the provoking question if trade shows are still relevant and came to the conclusion that this depends on how fast trade shows develop from showcase events to networking events.

Looking back at Security Essen in September I must say it was such an inspiring event. It was a true networking event with thousands of vibrant discussions between security professionals and the industry. It was good to see these discussions as they are crucial to the further development of the security industry. The more solutions are in the focus of the industry – and everybody is talking about security and safety solutions today – the closer the relationship between end-users and the industry needs to be. Off the record many vendors admit that they are lacking customer feedback to develop better products and solutions. Some have even lost contact to end-users because of the complicated distribution channels and are more than happy to start networking with customers at a show. For you as the user of security and safety equipment this kind of networking is a great chance to co-develop better products and solutions.

As you can see on the picture, we were very happy with the show, too. We have met many of you and the time on the show ground went so quickly. A lot of the input we have got is already included in this issue and more will follow.

Enjoy reading this issue!

Heiko Baumgartner
For GIT's Safety and Security team

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10

COVER STORY
**Welcome Back**
Joseph Grillo, CEO of ACRE & Vanderbilt Industries Discusses the Siemens' Security Products Acquisition

12

INTERVIEW
**Flexibility Is Key**
Security Products From Siemens Is Fit For Growth

18

EVACUATION
**An Obvious Standard**
EN54-23 Covering Visual Alarm Devices Assists Supplier Choice


EDITOR'S NOTE
**Showtime**
*Heiko Baumgartner* 3

MANAGEMENT

COVER STORY
**Welcome Back**
Joseph Grillo, CEO of ACRE & Vanderbilt Industries Discusses the Siemens' Security Products Acquisition 10

INTERVIEW
**Flexibility Is Key**
Security Products From Siemens Is Fit For Growth 12

**GIT SECURITY AWARD 2015 – the Winners** 14

FIRE PROTECTION

EVACUATION
**An Obvious Standard**
EN54-23 Covering Visual Alarm Devices Assists Supplier Choice 18

FIRE DETECTION
**Fike's Video Fire Detection**
Protects UK's Heritage 20

FIRE PROTECTION
**Locate Hotspots and Missing Subjects**
Beveren Firemen Value Thermal Imaging Cameras 22

SAFETY

**Zoom In On Product Quality**
The Right Hand Protection Can Make the Difference 24

SECURITY

VIDEO SURVEILLANCE
**High Risk, High Tech**
Dahua Enhances Security Level for Saudi Arabian Petrochemical 25

**Take Twenty-Eight!**
Samsung Techwin Security Cameras On Cue to Protect a Vital Part of British Film Heritage 44

**The Tools of Analysis**
Pelco Expands IP Range to Support Uninterrupted Security Monitoring and Advanced Video Analytics 46

SECURITY FOR CASINOS
**Red, White and Blue**
The Kiowa Casino Applies Video Technology from Dallmeier 26




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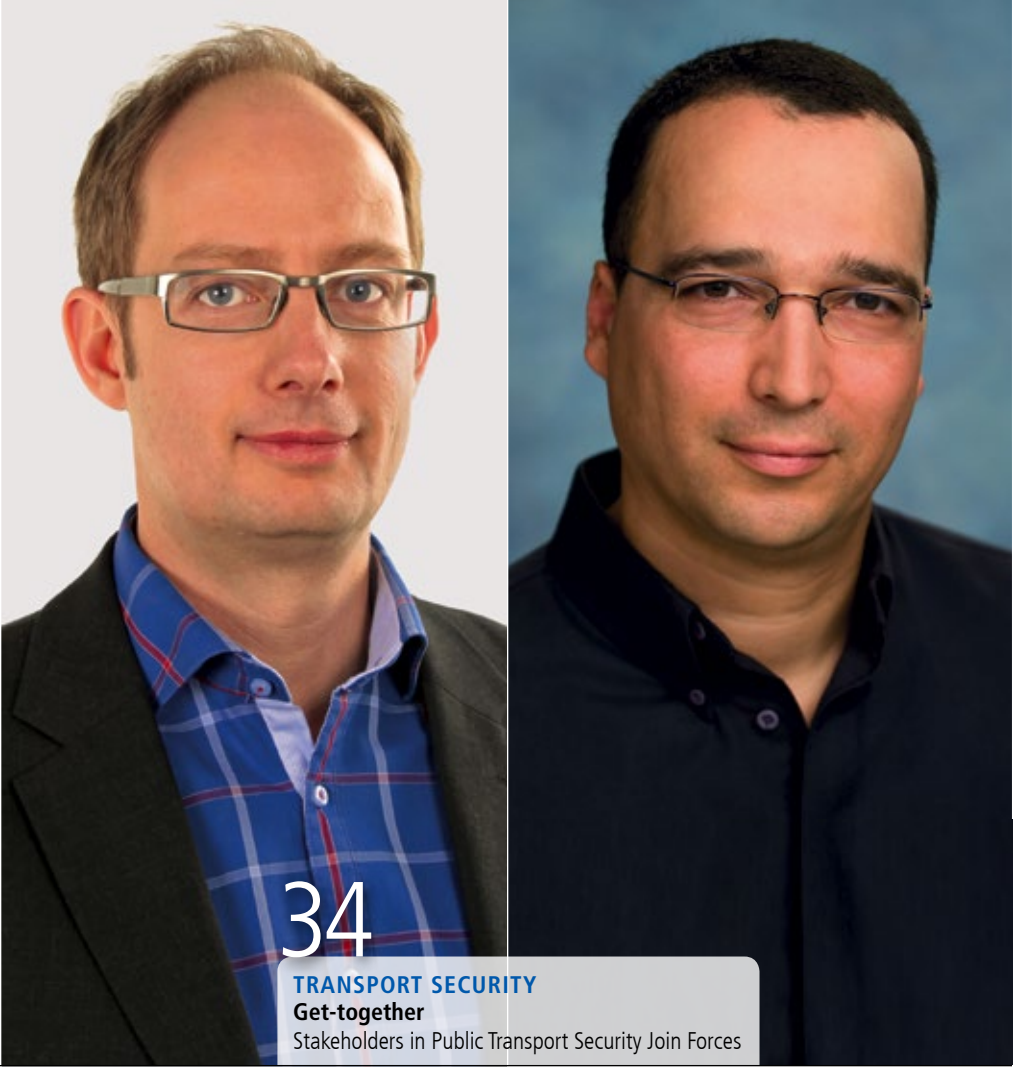


34

TRANSPORT SECURITY
**Get-together**
Stakeholders in Public Transport Security Join Forces


**Too Good To Look Away**
Intelligent Surveillance for Kangwon Land Casino in Korea **28**

**IP Video Helps Oversee Gaming**
Axis Megapixel Cameras Improve Quality And Level of Detail at the Marbella Casino **30**

AIRPORT SAFETY & SECURITY
**Investment In Efficiency**
New State-of-the Art Security Hall at Edinburgh Airport to Improve Experience for Passengers **32**

TRANSPORT SECURITY
**Get-together**
Stakeholders in Public Transport Security Join Forces **34**

SECURITY FOR HOSPITALS
**A Healthy Choice**
Florida Hospital Selects High Resolution Cameras to Upgrade their Surveillance System **38**

VIDEO MANAGEMENT
**High Definition Stream Management**
How to Optimize Scalability and Bandwidth Management **40**

IP VIDEO
Mobotix With New IP Video Solutions At Security 2014 **42**


SECTIONS


**News** . . . . . 6
**Fire Protection Products** . . . . . 21
**Security Products** . . . . . 37
**BusinessPartner** . . . . . 47
**Company Index / Imprint Inside Back Cover**


## A PERSONAL NOTE

To be compliant to the European data protection laws, we have undertaken an initiative to secure that our newsletters and communication are targeting only recipients who have opted-in to get e-mails from us.

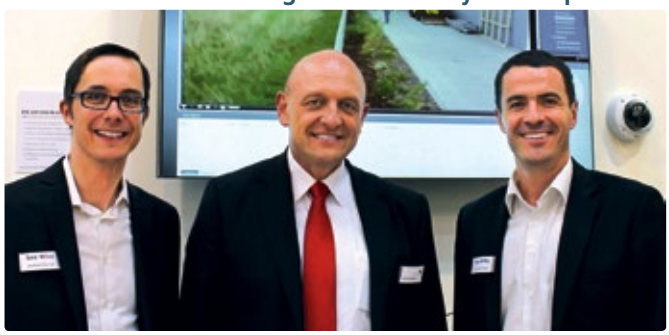
Those of you who have been on our distribution list in the past have already got invitation e-mails to renew the double opt-in to get information from us. Many of you have helped us by clicking on the opt-in and will receive further information from us. Thank you!

For those of you, who have missed this opportunity and those who want to be on our distribution list in the future, please take some minutes of your valuable time to fill out the online form on

**www.git-security.com/user/register**

Heiko Baumgartner
For GIT's Safety and Security team

## Seetec Announces Intelligent Video Analytics Cooperation



During Security Essen 2014 a partnership for intelligent video surveillance was started that combines the open platform approach of Seetec Cayuga video management software with certified camera-based Intelligent Video Analytics from IPS. This allows end customers to apply the solutions of two leading European manufacturers in one joint system approach. The open interface architecture of Axis Camera Application Platform (ACAP)-based solutions enables very simple integration with a rich set of features. The analytics interface also provides an open and standardized interface, which can be used to embed the five algorithms available on ACAP into the video management software. Christian Ringler, Head of Sales at SeeTec, states: „We are noticing a trend in the security market towards multi-vendor solutions." **www.seetec-ag.com**

## Security Partner Program For Sightlogix

Sightlogix, a supplier of thermal camera systems that meet a very specific need for outdoor perimeter detection that stops crime, vandalism and other threats, announced at ASIS 2014 the launch of their Strategic Partner Program to provide customers with solutions based on respective core competencies. This promotes combining the intrusion detection of their Sightsensor thermal cameras with established manufacturers and suppliers of video surveillance hardware and software. Axis Communications is the first to join this collaborative effort. Said Fredrik Nilsson, General Manager, „Partnering with Sightlogix is a natural fit as it brings together the capabilities of both IP video and thermal intrusion detection." **www.sightlogix.com**

## Sports Club Protection By C-Tec

One of Northern Ireland's oldest Gaelic sports clubs, Killeavy Gaelic Athletic Club, is being safeguarded by C-Tec's ZFP touchscreen-controlled addressable fire panel. The club hosts a wealth of football activities ranging from 'under 8s' to 'senior', hurling and camogie. CCL Services in Newry enlisted Belfast-based RES Fire to install a completely new addressable fire alarm system at the ground. The fire alarm panel with touchscreen and Qwerty keypad connects to over 100 Apollo devices at the site. The panel is now available with a graphical interface solution that allows users to view critical events, process alarms and keep secure system logs on a remote PC. **www.c-tec.co.uk**

## New Distributor For Silvernet Wireless Networking Range

Cardiff based Oprema are multi-brand distributors of analog and IP network video surveillance solutions, as well as fire alarm, access control, intruder alarm and data products. „We are very pleased to add Silvernet's wireless networking solutions to our product portfolio," said Matthew Epps, Managing Director. „One of our core objectives is to offer solutions to customers, not just products. We will now be able to offer wireless solutions as an option and see this strategic partnership as a chance for both companies to achieve their business objectives." Utilizing a wireless network as a method of transmitting video and data can result in massive savings compared to traditional cabling methods, and offers a highly cost-effective option for businesses looking to reduce their ongoing infrastructure costs. **www.silvernet.com**

## Marketing and Development New Recruit For Tavcom

Tavcom Training has announced the appointment of Chris Pinder to lead its marketing and development activities. Chris is well known throughout the security industry, having carried out important roles for the BSIA and NSI during a 17-year career. Today the company offers over 70 courses supporting the growth and development of engineers and managers. It also has a strong and growing presence in the Middle East, Australia, Africa and the USA. Paul Tennent, Managing Director said "Bringing Chris on board will greatly assist us with our future ambitions. Globally we have already trained in excess of 65,000 delegates and we hope to reach the magic 100,000 milestone soon." **www.tavcom.com**

## Offline Lock Open Standard

SOAA - the open standard for electronic offline locks - provides organizations with greater choice when it comes to offline locks and a more secure system. Until recently, it was hardly possible to combine multiple electronic offline locks from different suppliers into a single access control system. However, this is a requirement for many large European companies, who indicate that they will no longer be investing in these locks until there is some form of standardization During Security Essen, companies such as Assa Abloy, Uhlman & Zacher and Nedap showed what this standard means in practice. The open standard allows companies to easily integrate different brands of offline locks, meaning companies can now choose the product that best fits their needs. This provides the company freedom of choice and saves costs, as they are no longer tied to one supplier. **www.nedapsecurity.com**

## Security Essen Technology Innovation Award For Raytec

Raytec is proud to announce that they have won a coveted bronze Security Essen Technology Innovation award for their VARIO IPPoE range of network illuminators. The IP-addressable CCTV illuminator has caught attention in the security industry and also won an IFSEC Award in 2013. It enables users not only to control their IP cameras remotely, but also their lighting via a web interface, video management system or HTTP commands from any location on the network. Available in both infra-red and white light LED, lighting can be controlled via other network devices such as cameras, detectors or a VMS and triggered on alarm to deter crime. **www.raytecccctv.com**

## Networking Solutions Customer Value Award To Moxa

Based on its analysis of the industrial communication solutions market, Frost & Sullivan recently presented Moxa with their 2014 Global Award for Customer Value Leadership. It recognizes the holistic industrial networking solution provider with a complete range of industrial networking, monitoring, and computing products that are engineered for the harsh environments of the oil and gas industry. The analysis of products included supervisory control and data acquisition systems (SCADA), programmable logic controllers (PLCs), and IP devices. Their redundancy and millisecond recovery capabilities ensure that communications systems are always available and respond in real time. **www.moxa.com**

## IHS Reports Physical Security Industry Continuing To Grow

Strong market demand in an increasingly competitive physical security equipment and services industry is still driving overall revenue growth in all global regions, according to the latest report from IHS. Other key findings include that the market reached $120 billion in revenue during 2013, a 10.8% increase in market size compared to 2012. The USA remains the largest country with over $6.5bn spent just on equipment, but China gets closer to the number one ranking each year. One in every $5 spent on physical security equipment in Asia is for a government building, not including other state-led facilities and installations such as airports or infrastructure. Further, no single company holds a market share greater than 5% for the physical security equipment and services market globally. Growth in the number of projects employing different types of physical security equipment as a single solution is also increasing, often managed through the same platform. Markets such as Video Surveillance as a Service (VSaaS) or Access Control as a Service (ACaaS) only account for a small proportion of total revenue right now, but are expected to see some of the highest growth rates over the next five years. A convergence in the supply market is visible too, with telecommunications companies taking a greater interest in the security market. More detail can be found in the IHS report „Physical Security Equipment & Services – 2014". **www.ihs.com**

## Hikvision Camera to Smartvue Cloud Solution

Hikvision has announced a collaboration with Smartvue whose solutions combine cost-effective edge devices with cloud storage and video management services. Together, they will provide a cloud-based video surveillance service and camera-to-cloud solution for small, medium, and enterprise organizations in the U.S. and Canada. The technology gives users highly scalable access to video surveillance and storage from any smartphone, tablet or web browser of the video provided by low bandwidth IP cameras that include WDR technology and video intelligence algorithms. Users can log in remotely to view live or recorded video from anywhere in the world and the management tools can give alerts when an alarm has been triggered. **www.hikvision.com**

## Ocularis Integrates With Samsung

OnSSI's Ocularis now provides integration with Samsung's Wisenet III cameras with in-camera NVR capabilities that can be stand-alone or part of a larger system with server-based NVRs. There are also integrations for the native dewarping of popular 360° Samsung cameras and Immervision-enabled cameras and the release of a new Android app. Integrations with more than 300 technology partners allow the company's Event Fusion Engine to turn simple alarms into meaningful alerts. "These integrations, coupled with our Mix and Match camera license architecture provide an attractive VMS choice," said Ken LaMarca, Vice President of Sales and Marketing. "In addition, there is free technical support, and now a service program that ensures we will be there for you anywhere, anytime." **www.onssi.com**

## Kentec Fire Alarm Control Panels

Fire alarm control panels from Kentec are at the heart of a recently completed fire alarm control panel system upgrade at John Radcliffe Hospital Oxford Women's Center, which will allow improvements to the Center's evacuation procedures, and the future implementation of loop powered base sounders throughout the building. Designers and installers Pyrotec Systems chose these fire control panels and repeater units to replace the old addressable fire alarm control panels because of their excellent reliability and compatibility with all the building's existing field devices. The 9 Syncroanalogue addressable fire control panels and 6 repeater units will enable the new network to provide a complete building system solution with flexible cause and effect capabilities. **www.kentec.co.uk**

## Idis NVR Integration With Lenel Access Control

Idis has announced successful factory testing of its DirectIP network video recorders with Lenel's On Guard access control, making them a member of their Open Access Alliance Program (OAAP). The integration provides customers with seamless integration and rich functionality with full-HD surveillance. Quick video identification of critical events enabling a faster and more accurate response to threats and incidents is now available. Functionality includes live video, record, play-back, PTZ control and efficient event management and alarm correlation with full-HD video verification. Packaged as an end-to-end solution, the range includes cameras, monitors, NVRs and video management software with plug-and-play simplicity. **www.idisglobal.com**

## New DACH Sales Contact For Videotec

Videotec, a manufacturer of professional CCTV products, has announced the appointment of Moris Bortolato to the role of Country Manager for Austria, Germany, Switzerland. Moris has acquired long professional experience in marketing and sales working for a major company in the automation industry. Moris Bortolato comments on his new position: „I'm keen to undertake this new working experience and very pleased to be part of the sales team. I have found an exciting and dynamic environment, ideal to grow and specialize in the security industry. I look forward to personally meeting our partners and customers. Together we will seize the new opportunities provided by this evolving market." **www.videotec.com**

## Samsung's Network Cameras and Milestone Video Management Join

Samsung Techwin's open platform WisenetIII network camera series has been successfully integrated with Milestone Xprotect video management software. All the 1.3, 2 and 3 megapixel IP network cameras and domes in the series have been integrated with the VMS, including the recently launched SNP-6320, a 2MP 32x PTZ dome and the 1.3MP SNP-5430, a 43x PTZ network video surveillance dome camera with intelligent auto-tracking. The spare processing power and open platform capabilities of the chipset provides users with complete freedom to choose their own combination of onboard video analytics best matching the surveillance project's requirements. **www.samsungsecurity.co.uk**

## Apollo Fire Detectors In School

Apollo fire detection technology has been chosen to protect the historic The King's School in the grounds of the prestigious Canterbury Cathedral in Canterbury, Kent. It is thought to be the oldest continually-operating school in the world and protecting property as well as life is of utmost importance to preserving this significant piece of educational history. During an ongoing refurbishment of all fire detection systems within the school, more than 150 Apollo XP95 units were recently installed by Triangle Integrated Fire Systems throughout the Meister Omers building, one of the boys' houses and home to 49 pupils. The level 1 system is supported by a Kentec Syncro AS control panel which monitors 16 zones on a single loop. Terry Hailes, Operations Director for Triangle, said: „We've now worked on 14 different system installations here over the past four years. All have been XP95 and Syncro systems with the exception of the original Chapel where the Wireless Xpander range was used as no drilling was allowed for cabling due to the building's age.

**www.apollo-fire.co.uk**

## Silvernet Backhaul and VMS Integration

Designers of remote monitoring video surveillance systems will be encouraged to take advantage of the benefits of wireless networking by news that Silvernet's Point-to-Point, Point-to-Multipoint and Backhaul systems have been integrated with Meyertech's video management software (VMS). The latter is one of just a few companies globally who can provide ‚mixed technology' hybrid solutions that incorporate both analog and digital IP cameras. The integration between the two British manufacturer's respective offerings further enhances an integrated end-to-end video surveillance solution. The two companies will be working alongside each other at seminars and road shows, as well as carrying out other marketing activities in order to promote the benefits of IP-based integrated video surveillance solutions.

**www.silvernet.com**

## Assa Abloy Protects a Key Water Management Installation

The Povodí Vltavy Praha state enterprise that manages and maintains significant minor watercourses and state-owned waterworks in the Czech Republic needed secure online access control and battery-powered locks for its new administrative headquarters. It now has an effective and affordable Aperio solution that integrates non-wired doors with mechanical locks into access control systems via 1-to-8 wireless communications hubs.

**www.assaabloy.com**

## Canon Partners With Arteco and Digivod

Canon has announced two new video management software partnerships. Its cooperation with Arteco, a supplier of VEMS, will enhance their security package by integrating with the camera manufacturer's full portfolio, providing high image resolution, even in areas of low light, and a wide field of vision. The VEMS simplifies the third-party integration process and can be extended to incorporate monitoring, such as opening gates and closing doors. Their partnership with digivod, a provider of VMS, will provide customers with powerful video analysis. The full range of network cameras will be supported and enhance its built-in intelligent self-learning analytic functions, including different filters to classify identified objects. The VMS will support license plate recognition and an optional feature identifies characters starting at 16 pixel font size to detect alpha-numeric characters in either Latin, Arabic, Cyrillic or Chinese and trigger an alarm after certain license plates are read.

**www.canon-europe.com**

## Additions To Dallmeier Camera Range

Dallmeier is bringing a new line of cameras onto the market. The 5000 series features resolutions up to 4K and a special "Nightline" range for optimal image reproduction even in poor light conditions is equipped with an ambient light sensor and a removable IR cut filter and can switch automatically between Day and Night modes. Whether in the form of a redesigned box camera or a vandal-resistant dome camera, this series of cameras all feature high resolution, frame rate and light sensitivity. The latest generation of encoders provide real time ultra-HD video (2160p/30) in the DF5400HD range. They deliver pinpoint sharp 4K pictures in real time and support resolutions of up to 8 megapixels. The DF5300HD range is available if 3K or resolutions up to 6 megapixels are sufficient.

**www.dallmeier.com**

## TDSi Nearing 20 Years of Security Sales in China

The way for many companies to export to the vast Chinese market is to find a niche and build a commanding market share – exactly what Dorset-based security systems manufacturer TDSi has done. It made significant inroads into the Chinese market with UK designed and built products. **Managing Director John Davies** says, „Customers in China recognise the well-deserved UK reputation for quality goods. The Chinese security market wants quality and cutting-edge reliable products, and will pay 15–20% extra for that." In 2015 TDSi will be marking the 20th anniversary of its first sales there. He adds, „Any manufacturer needs to be paired with local partners to truly penetrate the market, especially important in China. Our partners and reputation have grown with the market and this has greatly added to our longevity in the Chinese security market."

**www.tdsi.co.uk**

## Xprotect Video Surveillance and Access Control Interface Module

Numerous Milestone Systems Solution Partners are now using the Xprotect Access Control Module to offer unified integrations of their access control systems into the company's video surveillance solutions. The ability to tie video and access events together in this way greatly improves the speed and efficiency of incident investigations and response. The Smart Client provides the consolidated interface for operating integrated access control systems with such dedicated functions as monitoring access events with video verification, manually assisting passages (controlling doors, gates, etc.), conducting investigations of specific access points or cardholders, exporting video evidence and generating reports. Video of access incidents visually confirms and informs on situations and provides documentation for analysis, rectification or prosecution.

**www.milestonesys.co**

## Emerald All-In-One Box Awarded

Cem Systems, part of the Security Products business unit of Tyco, is pleased to announce that its emerald multi-functional touch screen terminal, has been awarded 2014 Security's Best Award in the ASIS Accolades Awards. The intelligent multi-functional IP access terminal provides a touch screen reader, door controller, VOIP intercom and system terminal, all in a single box at the door. The touch screen LCD 'greets' cardholders by illuminating as they approach, providing a user friendly security experience. Security professionals can use remote apps at the device to update personnel records, book meeting rooms and send important messages to cardholders such as Wrong Door, Lost/Stolen Card, Expiring Card and Access Granted. The device also acts as an information point by displaying general company information, advertisements and audible prompts.

**www.cemsys.com**

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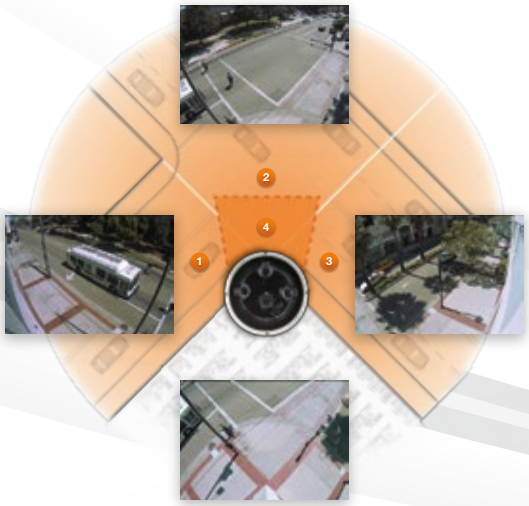
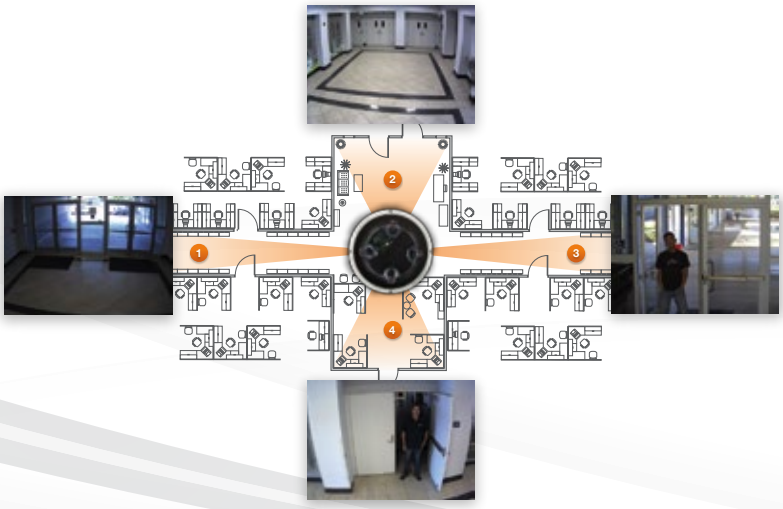



**Hallway Intersection**
(Two Telephoto Lenses, Two Wide Angle Lenses)

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COVER STORY

# Welcome Back

## Joseph Grillo, CEO of ACRE and CEO/Managing Director of Vanderbilt International Discusses The Siemens' Security Products Acquisition

Executives in the electronic security and identification industries may recall a time in the not too distant past, when a series of acquisitions led by a recognized leader in the physical security business took the industry by storm. That leader, **Joseph J. Grillo**, drove a consolidation effort within HID and Assa Abloy's business growth streams with the vision that a fragmented electronic access control market was evolving through advancements in identification technology to protect both physical and digital environments. Today, Joe Grillo's name is associated with a new company: Vanderbilt Industries, which last month entered into an agreement to acquire Siemens' Security Products (SP) business, part of the Siemens' Building Technologies Division. The newly acquired business will be renamed Vanderbilt International (VI) with the sole focus being a strategy of maintaining and growing its leadership position in offering integrated security systems incorporating Access Control, Intrusion Alarm and Video Monitoring systems. Here, Joe Grillo gives his take on the past, present and future of the industry.

**GIT SECURITY: Following the recent announcement of Vanderbilt's acquisition of SP, do you plan a 'shopping spree' similar to what we saw at the time of Assa Abloy's expansion?**

**Joseph Grillo:** First of all, it is worth noting that Assa Abloy has continued to grow and be acquisitive, maybe at an even greater pace in the years since I left. Under great leadership and execution of their strategy, they have clearly outdistanced all their competitors. At HID, even before Assa Abloy, we combined some key acquisitions with substantial organic growth to build the world's leading card and reader manufacturer. Assa Abloy, which acquired HID in 2001, then gave myself and our management team the opportunity (and of course the treasury) to bring together a number of industry players, especially in Europe. We fairly rapidly acquired Indala, Omnikey, Sokymat, Metget, ACG, Interlock and Fargo Electronics just to name a few. We integrated their product offerings to acquire greater technical expertise, global market share, a broader array of products and began to move the company from being simply a card and reader manufacturer to an Identification Business. This proved to be a successful proposition and it continued after I left under successors that I personally recruited. I'm proud of that legacy. Today, we again see indications that the time is ripe for a season of change in the security industry. The fragmentation that existed in the access control market when I left the industry in 2008 is still quite evident with even more new market entrants on the scene. I believe this creates consolidation opportunities for companies with the requisite industry knowledge, technical competence and market experience. We have all of these at both ACRE and Vanderbilt, and, because we are well financed, it is reasonable to expect we will grow our two platforms both organically and through acquisition.

**The most recent of these has been the SP acquisition. What does this mean both for your company and the industry in general?**

**Joseph Grillo:** Vanderbilt saw an opportunity to expand its product offering and geographic market coverage. The addition of SP represents significant value potential with its established installed base of customers and loyal resellers. The market trend is for integrated security management systems and more open solutions from trusted suppliers. SP clearly provides a vehicle to offer these solutions to a broader customer base. This also considerably expands our presence in the security industry by broadening the company's competitive position in a highly fragmented market with great

**Joseph Grillo** is CEO of ACRE and CEO/Managing Director of Vanderbilt International, and a 30-year veteran of the electronic security and identification industries with a track record of successfully growing, acquiring and restructuring businesses. After retiring from the industry in 2007, he is now back at the helm since 2011, once again building an organization in the security industry as opportunities continue to arise in an business segment that remains fragmented even while continuing to enjoy sustained growth. He began his career in the industry in the early 1980s and, after a rapid rise working for major players across the sector, Mr. Grillo became President of HID Corporation. The company grew from a $15M card and reader company to the dominant $100M industry leader with Mr. Grillo successfully leading the effort to sell the company to Assa Abloy. After retiring from Assa Abloy in 2007, he was recruited by the Board of Directors to run, restructure and eventually sell the assets of Digital Angel Corporation. In 2012, Mr. Grillo and his former HID colleagues Will West and Steve Wagner formed ACRE, LLC as a platform to initiate acquisitions in the electronic security industry, with a special focus on access control. They successfully acquired the Schlage SMS business from Ingersoll Rand in September 2012 and then completed the acquisition of Mercury Security in May 2013. In October of 2014 it was announced that the business would acquire Siemens Security Products business in Europe.

growth potential. The acquisition fits our corporate strategy perfectly – and matches Vanderbilt's solid foundation and strong legacy built from nearly three decades in the security industry. As far as the security industry is concerned, market trends show customers are looking for integrated security management systems and more open solutions from trusted suppliers. VI will now provide these solutions to a global customer base and, from the complementary Vanderbilt Industries' product business, customers will have increased R&D and support resources to provide our channel partners with new products and programs that are designed to meet their specific needs. They can also expect to see an increase in converged and vertical market solutions for secure identity related applications.

**More generally, how would you characterize the current state and positioning of the security industry?**

**Joseph Grillo:** In spite of the fragmentation, the security industry has been – and continues to be – a steadily growing business. The opportunity to leverage this, while simultaneously consolidating and integrating the highly fragmented Access Control "OEM" segment, is an opportunity we have analyzed and are executing on. In many cases, large multi-national companies that have consolidated and integrated security products into their product portfolios have produced inconsistent results. We believe that both our experience and our approach will provide for a very positive result.

**Are there key reasons today for investors to look at opportunities in the security industry with re-invigorated interest?**

**Joseph Grillo:** There are indeed. To name the most significant, I would differentiate between the following categories of market trends:
**Market-related:** Security has become mainstream, and as a business, it has become ever more important for organizations to protect their most valuable assets. A decade or two ago we were most inclined to focus marketing efforts on the largest corporate end users and government sectors. Today, not only in the States, where a CSO function has been long-established in the corporate world, security investment is on the rise in every market segment: hospitals, public infrastructure, educational facilities at every level, and for all businesses from small to medium sized enterprises to the largest corporate end users. And integration of sub systems is as important as ever, particularly of video and identification.

**Application-related:** convergence of the physical and digital worlds, now intertwined and "managed" via smart applications, drives demand for new systems capable of offering controlled access to both domains seamlessly while supporting all corporate functions and maintaining easy operation.
**Technology-related:** technologies transformed by the digital revolution have matured and are increasingly being adopted in the slow to change security industry. The use of video monitoring and management has exploded, as has the need for integration of video and access/alarm monitoring. The use of mobile devices to manage these systems is being demanded by busy security executives and protective forces. These changes are helping drive market demand.

**If these factors and reasons to invest are embraced and recognized industry-wide, how will you and your team do it differently?**

**Joseph Grillo:** As I indicated earlier, we believe we will be successful because of our past experience and a very different but focused approach. Our approach is to focus primarily on consolidation of the highly fragmented 'OEM' step in the electronic access control market value chain. The key to this strategy is a belief that using ACRE portfolio company Mercury hardware (control panels) as a foundation for the consolidation provides a unique opportunity to offer a more 'open' environment that is highly desired by both the end user and consulting communities. Bolt on acquisitions will be much easier when only the "front end" software is proprietary.

**If you could pick the most important things to duplicate every time you make an acquisition or start a new venture, what are they?**

**Joseph Grillo:** First and foremost, have a good strategy. Communicate this to the three key stakeholder groups; customers, suppliers and employees. Back this up with good products and unparalleled technical support and customer service. Execution is the challenge you face on a day-to-day basis. By providing the right leadership and culture within the organization(s), you can recruit and cultivate leaders and team players to allow you the best opportunity for success. And of course, a little luck never hurts!!

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INTERVIEW

# Flexibility Is Key

## Security Products From Siemens Is Fit For Growth

As you can read in our cover story on page 10, Vanderbilt Industries last month entered into an agreement to acquire Siemens' Security Products (SP) business. As part of the Siemens Building Technologies Division, the business segment Security Products focuses on the development of cutting-edge access control and intrusion detection products and systems plus video surveillance products. Security Products from Siemens has gone through a major restructuring recently and has as a result centralized a good part of their business in Sollna, Sweden. In parallel Security Products has invested largely in new product lines for access control and intrusion detection and has presented the results at Security Essen. Heiko Baumgartner had the opportunity to discuss with Peter Hawksworth, CEO of Security Products from Siemens, the new product lines and developments in the market. The interview was done just before the acquisition by Vanderbuilt Industries was announced.

**GIT SECURITY: How is business going for the Security Products group?**

**Peter Hawksworth:** We are happy with the latest developments. During our transition phase we have kept all major clients and have gained more than 100 new customers. We have managed the turn-around at Security Products and it is a profitable business again. Now with our new lean structure organization we have accelerated the development of new products and we are proud to show our new portfolio here in Essen and at future shows.

**Integration and solutions for vertical markets are two hot topics here in Essen. How do you manage this challenge as a product supplier?**

**Peter Hawksworth:** One of our biggest assets to fulfill these requirements from the market is the close contact we have with the end-users of our products. With our lean structure it is easier to develop new product lines in close cooperation with them now. One recent example is the cooperation we have with a bank. We discussed in detail with them the technical platforms they use, we analysed their specific needs and what integration work was necessary, and have then adopted our findings in the development of our new intrusion detection products. From our customers we have heard that security is of utmost importance, but our access control products and systems also need to be designed to provide a high level of convenience. As a result, we do everything to make our products not only robust and reliable, but also very easy to install, use and maintain.

**When we met last time, your plan was to accelerate the development in the access control and intrusion detection markets. It looks like you have made progress on this?**

**Peter Hawksworth:** Yes, we have added a web-based access control for small and medium-sized businesses to our access control products portfolio. Making its debut at Security Essen, our Aliro access control system is suitable for small to medium sized commercial applications such as retail outlets, health centres or offices. It incorporates a flat system architecture with easy to use Internet based software and intuitive mobile applications.

Offering a flexible yet robust access control solution, it enables system management from almost any device with Internet access and, as well as distributed applications, supports up to 512 doors, 10,000 users and 100,000 access cards. The system works with the new range of card readers announced earlier this year. These robust, attractive MiFare card readers feature an integral LED based screen that facilitates cardholder interaction by displaying messages based on a user's individual credentials.

**What is new on the detection side?**

**Peter Hawksworth:** We are introducing two new Magic dual motion detectors, which offer reliable detection of intruders and high false alarm immunity. Their performance is based on an improved version of the Siemens Matchtec algorithm, which combines passive infrared and microwave channels to make extraordinarily accurate decisions on motion within their detection zone. We believe this will be our key differentiator in the intruder market. Both utilize our new reflex mirror (double mirror) technology which means that the overall depth of the unit is much less than competitor models. The result are small and very attractive detectors that will suit any installation. As mentioned before, the Magic detector is an example of how we listen to our clients. They have commented that having products that perform well is no longer enough. End-users are also concerned about what the device looks like and this is a topic in which we have invested time and effort.

**You mentioned already how flexible products need to be to meet customer requirements. How flexible are you when it comes to the various regulations in the different European countries?**

**Peter Hawksworth:** We need to customize our products not only for vertical markets but often also for every single country. Our popular SPC intruder alarm system range is a good example. It has recently received approvals in line with the Swiss SES EMA, French NF and Belgian TO-14 (INCERT) standards, as well as EN50131 and EN50136 standards. This confirms that the products are suitable for use in applications where end users and their insurers require compliance with these standards. This makes the range a particularly attractive choice for installers and distributors that operate in more than one country, as they no longer need to order separate products for each market.

**CONTACT**

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Readers' choice

# GIT SECURITY AWARD 2015 – the Winners

Again it was a neck-and-neck race for the GIT SECURITY AWARD 2015. Only three products in each of the five could win: Those ones the most readers were voting for – via fax, letter or online voting on www.PRO-4-PRO.com. Thanks to all participants!

## Category B

Fire and Explosion Protection, Industrial Safety

WINNER

### Stöbich Brandschutz: Fibershield-HC

**Textile Fire Protection Closure For Large Ceiling Openings**

The Fibershield-HC is a textile fire protection curtain with a horizontal closing direction. In case of fire the systems will close large ceiling openings automatically to prevent the spread of fire and smoke to further floors. The systems consists of a coil arranged in a casing, side guides which lead the bottom bar and the fabric. Basically the system can be compared with a horizontal rolling window shade. The fabric is a special coated fire resistant fabric. During the closing procedure the textile will be pulled moto-driven across the opening and finally locked up. In Idle state (standby position) the fabric is coiled in the casing.

## Category C

CCTV

WINNER

### Bosch Security Systems: Dinion IP ultra 8000 MP

**IP-camera with ultra HD resolution**

The Dinion IP ultra 8000 MP camera by Bosch is the first IP camera delivering ultra HD resolution (3840 x 2160) relevant to the video surveillance market. It sends detailed images even when motion and challenging lighting pervade the scene. Bit rate and storage costs are cut by up to 50% thus lowering network strain vitally. Persons and objects are recognized in a long distance, while moving objects are identified in dark and bright areas and can be captured in ultra HD resolution at 30 fps. The camera enhances safety and security by offering better identification skills during live viewing and retrospective analysis. The camera is ideal to captures faces, numbers and large areas like airports and casinos, that need 24/7 surveillance.

WINNER OF THE READER PRICE

READER PRICE

Congratulation to Simone Mennig, Koenig & Bauer, winner of the reader price a brandnew camera.

2nd PLACE

## Denios: UltraSafe SumpDeep

### Drawn Sump

UltraSafe from Denios is the world's first deep drawn sump without edges, corners or weld seams and therefore completely water tight. UltraSafe is the ideal safety solution for handling hazardous substances, thanks to the proven deep drawing process. Internal transport is made easier thanks to the integral foot design, which makes it simple to lift with a forklift from either long side. UltraSafe is available in 2 versions: galvanised or painted, each with galvanised grid, with a storage capacity of 2 x 205 litre drums.

3rd PLACE

## Novar/Honeywell: ES Detect

### Fire Detector For Conventional Areas

ES Detect is a microprocessor controlled non addressable fire detector setting new scales for use in conventional areas: in addition to intelligent algorithm for early detection the innovative product has an integrated drift compensation. The DIN 14675 demanded operation time of the detector can thus be extended from 5 to 8 years. ES Detect includes a wide range of detector types including the multi-sensor detector OTblue and O²T, with all advantages of parametrisation to be used in conventional areas with difficult environmental conditions. Due to its possibility of readout data regarding measurement, degree of contamination, alarm counter and operating hours ES Detect is more comfortable in maintenance as a normal conventional detector.

2nd PLACE

## Axis Communications : Axis P1428-E

### Bullet-style Network Camera

The Axis P1428-E bullet-style network camera is Axis' first 4K camera coming with a resolution of 3840x2160 pixels at 25/30 fps. It is the top model in the new Axis P14-series, delivering in total seven camera models designed for outdoor (IP66) and demanding indoor environments. True day and night, P-iris with remote focus and zoom, I/Os and micro SDHC/XC card slot, Axis' corridor format and the typical Axis easy installation form a perfect combination. This camera model is an ideal candidate to cover large areas and/or provide a high detail level at full framerate. Furthermore it markets for a price that makes high-res video surveillance very affordable. A large variety of accessoires complement this camera series.

3rd PLACE

## Mobotix: M15D-Thermal

### Thermographic Camera

The new modules of the thermographic camera measure the thermal radiation of objects and persons and therefore work even in complete darkness. In connection with the Mobotix MxActivitySensor motion detection software, it is possible to detect movements in the image reliably also at night. Only changes in location trigger a signal, while objects moving in place do not. Also at daytime, thermal modules provide an advantage, because they also capture objects moving in the shadows, in twilight or behind bushes. The advantages of an M15-Dual camera with a thermal module and daylight sensor originate from the combination of both images: images taken by day or also in the twilight produce high resolution 5-megapixel images, while movements at night are detected reliably. The Mobotix thermal modules have been certified as weatherproof according to IP65. Like daylight modules, they are available in different focal lengths.

Readers' choice

# Category D

Access Control, Intruder Alarm, Perimeter Protection

## Honeywell Security: MB RF Magnetic Contact

**Compact and Flexible: Magnetic Contact**

The MB RF magnetic contact from Honeywell Security is equipped with two internal sensors, al lowing the monitoring of two windows/doors etc. with only one detector. In addition, two external inputs are available for the launch of additional contacts – for example for integrating other win dows or doors. All inputs (2x internal and 2x external) can thereby be identified individually by a control panel. The design of the detector and mag-net is aligned, which will support an optimal arrangement. The range in free space is up to 300m.

# Category E

Safety and Security Management

WINNER

## Denios Complete-Data-Center (CDC)

**The Server Room on the Way to the Data Center**

The CDC is the secured, fire-protected and vandalism-protected IT container system. All for the operation required systems of the infrastructure are in place and geared to each other. The turnkey ready support requires only the connec-tion to network and power. The active IT technology occurs independently of manufacturer, which can be brought in by the user. CDC offers huge cost and planning certainty, reasonable by untimely, intensive coordination, as one of the benefits the CAT2 certification preparation. Also the secure future based on the partnership of the established international partner and manufacturer. In addition, the CDC connects the demanded operational safety with optimized operating expenses by using of efficient precision climate control and UPS.

2nd PLACE

## Abus Security-Center: Eycasa Door & House Wireless Video System

### Communicate – Monitor-Open

Abus draws on its experience in the areas of door security and video surveillance for designing the Eycasa door and house wireless video system. For the first time, the security idea (video images) combines home comfort and optional video-acoustic monitoring for small children or the elderly in need of support. The base set consists of a video door unit and main unit, enabling you to see, hear, speak and switch. Thanks to a total of 4 wireless channels, the outdoor camera and the family care camera can also be connected – each with automatic day and night vision. A portable handset for trouser pockets (remote control for seeing, hearing, speaking and switching / range 30 m) will be available shortly.

## Siemens: Magic Mirror

### Motion Detectors

'Magic Mirror' motion detectors utilise an innovative dual mirror design which sets new standards in detection sensitivity and enables an extremely compact design as well as making them less susceptible to false alarms. The modern and elegant design suits the most stylish of environments and a flat, low profile format and flush mount ability ensures unobtrusive installation. Magic Mirror detectors are available as passive infrared and dual detectors, 12m and 18m range, with and without anti-mask. Installations can be carried out quickly and error-free due to features like Auto Walktest and new End-of-Line concept (EoL). Onboard energy-efficient electronics means Magic Mirror detectors consume significantly less power than comparable models.

3rd PLACE

3rd PLACE

## Honeywell Security: MB Secure

### Modular Platform for Security Solutions

MB Secure is a new generation control panel. All MB Secure systems are equipped with a consistent hardware board and firmware that already contain the complete scope of services and all the functionalities. All functionalities can be activated via license keys as required. Thus, users only pay for what they really need. Another advantage of the new MB-Secure: It is one of the few security control panels in which installers can make later upgrades without structural changes. For changing requirements, additional functionalities are activated easily via license keys.

2nd PLACE

## Securitas: Remote Video Solutions

### Audio-Visual Remote Surveillance

Security Service 2.0: Securitas presents its ‚Remote Video Solutions' (RVS) product. The security specialist demonstrates how „datability" – the responsible and intelligent use of large volumes of data – is already being put into practice today. RVS combines the most modern IP technology with intelligent analysis software. The core functions include 24/7 perimeter protection of property, video inspection patrols, remote lock operation and supporting services. At the heart of the solution is the ability to talk live from the control center. This system makes it possible to react quickly to events, in the best case before damage can be caused to the object under surveillance. False alarms and a high intervention rate can thereby be reduced to a minimum.

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EVACUATION

# An Obvious Standard

## EN54-23 Covering Visual Alerter's Devices Assists Supplier Choice



Paul Pope, Apollo Fire Detectors

There is a myriad of legislation and standards that govern the protection of buildings and its occupants and the consequences of not bringing all these together and ensuring the highest levels of fire detection, safety and evacuation can have tragic results. Paul Pope of Apollo Fire Detectors considers a holistic fire hazard approach to evacuation as well as the recently introduced European standard covering visual alarms.

The process of safe evacuation from a building or area is complex and can require the input of fire safety specialists from the initial consultation and design stage through to the commissioning stage and finally the ongoing building management. The main point being that no one fire safety element works in isolation. The fire detection and alarm system provides the main method for the early warning and the evacuation strategy to begin. However, in addition a lot of work needs to be undertaken to ensure that all elements come together to ensure that occupants are given the best possible chance to exit the premises safely and quickly in the event of an emergency.

Some of the different elements involved include ensuring that the buildings structural terrain and human sensory terrain are all designed and maintained correctly for the safe escape. This would include a refuge strategy for each floor in the building that may be recognized as part of the normal "fire escape" process.

It is important that all areas of the building are assessed to ensure the appropriate type of detection is used for the differing fire risks. Understanding the type of fire risk, materials present, fire load, environment, sensor technology and the best detector locations are critical for early and reliable fire detection.

### Elementary Considerations

There are some elements of the evacuation strategy that are not quite so obvious. They may include ensuring that the fire detection system operates and monitors any fire protection measures correctly according to the fire evacuation strategy; for example simultaneous or phased evacuation, closing fire containment doors; grounding lifts to a safe area relative to the fire, fire and smoke damper control and fire suppression systems.

Furthermore, occupants may not be familiar with their surroundings, possibly orientated to a different time zone and speaking different languages – all these issues need to be provided for in the event of an emergency. It is therefore essential that fire detection and evacuation strategies provide simple and intelligible methods of notification and guidance to allow for a safe controlled evacuation in a timely manner. In some large buildings where members of the public are involved e.g. airport terminals, shopping centers the evacuation strategy can be quite complex and requires a lot of thought by all parties concerned before any evacuation strategy can evolve.

The emergency evacuation plan should be the subject of frequent training so all employees are familiar with its contents and there should be regular evacuation drills with a review and record of the results. In order to assist disabled or sensory-impaired people to escape from fire additional provisions will be required and it may also be necessary for staff to be regularly trained in the correct procedures and adequately staffed to cope with this eventuality – all of which has to be thought through and managed.

### Visible Solution

A mandatory European product standard (EN54-23: fire alarm devices – visual alarm devices) came into force on 31 December 2013. The aim of EN54-23 is to enable manufacturers to design, produce and have certified Visual Alarm Devices (VADs) to a specified visual coverage and mounting position to ensure that occupants are made aware of the need to evacuate whether they are deaf or have impaired hearing, including individuals whose hearing may be temporarily affected by external factors such as areas of high ambient background noise, the use of ear defenders, or even the intentional limiting of an audible alarm. In these situations, audible alarms – sounders – are not considered to be effective as the only primary means of warning device.

One solution which has become popular is a combination of audible and visual alarm devices – historically known as sounder beacons. VADs are particularly useful in areas such as the public areas of hotels, hospitals, and shopping centers to name a few. Following a site/risk assessment, VADs should be positioned wherever hearing impaired individuals may be unaccompanied e.g. bathrooms, toilets and bedrooms. They are not, however, intended to waken people from sleep and in these situations should be used in conjunction with tactile alarms.

Until as recently as 2010, no European product standard existed to determine the light output performance criteria and installation requirements of VADs, resulting in inconsistency across how manufacturers declared their products' performance. The introduction of EN54-23 clarifies the need to meet specific requirements, test methods and performance criteria for VADs. This enables those responsible for specifying systems to compare like with like, and identify the most suitable VAD for each application.

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**Ansell Protects™**

FIRE DETECTION

# Fike's Video Fire Detection Protects UK's Heritage

The SigniFire Video Fire Detection (VFD) system from Fike Safety Technology (FST) has been deployed in the Battle of Britain Memorial Flight (BBMF) hangar to protect some of the nation's most valuable historic assets. Based at RAF Coningsby, the aircraft of the BBMF are regularly seen at events commemorating World War II, British State occasions and at air displays around the UK and Europe. Most notable amongst the WWII aircraft are the Spitfire, the Hurricane and one of only two flight-worthy Lancaster bombers in the world. It was therefore imperative that when the fire protection needs of the BBMF hangar were reviewed, a state-of-the-art solution was chosen to provide effective and reliable fire detection. The new system was designed and installed by T.I.S., an integrated solutions specialist and part of Fike's nationwide Integrator Network.

The camera-based SigniFire VFD visually detects the presence of fire or smoke at its source. Multiple cameras were installed, covering both the floor of the hangar and the roof space. The technology offers many benefits including fast and reliable response, effective protection in demanding environments, excellent value for money and the bonus of providing CCTV images for security purposes, if required. The video can aid incident response and can be recorded for post-incident analysis.

Following a rigorous competitive tender, SigniFire was chosen for its advanced technology, resilient and redundant architecture and its field proven reliability. The testing phase at RAF Coningsby created an unusual problem, explains, Mark Wilson, Head of Contracts for T.I.S. "Due to the nature of the environment and the priceless value of the assets held in the hangar we were not allowed to light real test fires for the commissioning of the system, so we developed a unique artificial flame and smoke simulator. At the time of testing both the original fire detection system and the VFD were operational. These tests demonstrated SigniFire's excellent fast response to the initial presence of both smoke and flame."

Unlike conventional fire detection systems, SigniFire doesn't use traditional forms of smoke, heat or flame detection. Instead, it works by automatically analysing video images at the point of detection in each video fire detector, looking for tell-tale characteristics that indicate the presence of smoke and/or flames. Distributing the video processing to within each fire detector camera delivers improved resilience and with the use of fire resistant cable allows the system to be BS 5839 certified. Video is recorded on a NVR and monitored remotely on a touchscreen SpyderPanel. SigniFire is also connected to a newly installed addressable fire alarm system in the building.

An aircraft hangar creates one of the most demanding environments for VFD, with day/night light changes, slow moving aircraft, bright sunlight and constantly opening hangar doors. The application of video exclusion zones and double-knock triggers on both flame and smoke detection ensures false alarms are minimised and that the BBMF hangar has reliable and effective protection around the clock. In addition LED white lighting was installed next to each camera to ensure minimum illumination at all times.

## CONTACT

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## Tactile Protective Gloves

The Hyflex range of industrial gloves from Ansell provide extreme durability and a comfortable fit for precision handling in abrasive applications. The tough 1.1 mm Fortix nitrile foam coating offers EN Abrasion Level 4 protection, with up to three times the abrasion performance of other lightweight, knit-dipped gloves. The coating is 20% more breathable than earlier formulations, for cooler, drier hands and less sweat. Matching the natural contours of the hand, the second-skin liner is tailored to create a more comfortable wearing experience at the base of the little finger, across the fingertips and through the palm to provide greater dexterity. The robust abrasion performance, enhanced comfort and high dexterity make the model 11-840 an ideal solution for workers who move between tasks such as the assembly of small or medium-sized parts, feeding production lines or raw materials reception. Silicone-free material means no transfer of silicone contaminants to metal parts prior to painting.

**www.ansell.eu**

## Long Duty Gas Detector

The compact Gas Alert Micro Clip XL from Honeywell Analytics provides protection from atmospheric gas hazards with an extended rechargeable lithium polymer battery life, especially useful in cold weather. Simple one-button operation activates the detector, runs the self-test, displays alarm set-points, displays peak gas exposures and clears them, calibrates and zeros. There is no need to move any switches to operate the instrument, which significantly reduces training times. The detector is fully compatible with BW's Micro Dock II automatic test and calibration system and Fleet Manager II desktop software. Intelliflash verifies operation and compliance to both the user and supervisor. A large alphanumeric LCD display gives simultaneous and continuous readouts for each gas monitored in ppm, %LEL and % v/v values, as applicable, showing the real-time gas concentrations present. Gas alarm icons will clearly identify alarm type, gas hazard and the alarm level encountered, a low battery condition, instrument status, safe display, stealth and calibration steps.

**www.honeywellanalytics.com**

## Fisheye Cameras With IR

Vivotek has announced the launch of two network cameras, the FE8181 and FE8181V. In addition to 5-Megapixel and fisheye fixed dome features, the cameras are fitted with a removable IR-cut filter for day/night functionality and a built-in 10 meter IR illuminator for uniform lighting across a 360° surround view. Steve Ma, the company's Executive VP, stated, „There are few fisheyes on the market that have good IR LEDs built in." These models are designed with a 5-Megapixel CMOS sensor, enabling viewing resolution of 1920x1920 at a smooth 15 fps. Equipped with a 1.5 mm fisheye lens for 180° panoramic (wall mount) or 360° surround viewing (ceiling/floor/table mount), they provide coverage of wide, open areas such as airports, shopping malls, parking lots, retail stores and offices without blind spots.

**www.vivotek.com**

## Extended Loop Protocol

Apollo Fire Detectors, designers and manufacturers of fire detection products, have added the Soteria range to their portfolio of products. It is designed to improve detection, reduce false alarms and deliver improved reliability. It has been extensively tested by the company's in-house testing team with advanced testing equipment. The device's enhanced fire loop communication protocol has been named Core Protocol, and gives greater control and more loop power. This builds on the established capabilities of XP95 and Discovery, with forward and backwards compatibility and the ability to manage a significantly increased number of devices.

**www.apollo-fire.co.uk**

## Sampling Smoke Detector

Wagner's Titanus air sampling smoke detector technology detects even the minutest quantities of smoke particles and is considerably more sensitive than conventional point-type detectors. In this way, the system offers a valuable time advantage when initiating effective measures for locating and extinguishing fires. The latest version, Multi·Sens, can analyze burning patterns to determine what substance is burning. For example, it can distinguish between a burning cigarette and burning plastic, and can evaluate whether a notification alarm or a fire alarm should be triggered. The knowledge gained into what is burning makes it possible to define new protection concepts in order to initiate the appropriate and effective countermeasures directly. Staff can simply be notified of cigarette smoke, instead of the fire brigade being called in.

**www.wagner.de**

## Thermal Monitoring and Issue Detection

Flir Systems has launched its AX8 fixed-mount thermal imager. Combining thermal and visible cameras along with the proprietary MSX technology in a small package, it is used for automated and uninterrupted condition monitoring of critical electrical and mechanical equipment. The Lepton thermal imaging core in this model provides early detection of temperature-related issues in electrical and mechanical equipment, guarding against unplanned outages and equipment failure. While displaying over 4,800 active temperature points per image, it also provides streaming temperature data over industry-standard Ethernet/IP and Modbus TCP interfaces for easy analysis, has a built-in web interface, and includes a full suite of analysis and alarm functions that automatically send alerts when it detects elevated temperatures.

**www.flir.com**

## Enhanced IP Camera Range

Pelco has announced additional capabilities to its Sarix Enhanced Range with SureVision 2.0. This comprises the company's high-end fixed IP cameras, which also includes their Professional and Value ranges. New features include an integrated analytics suite and ONVIF profile G compliance at a competitive price. „Last year we completely revamped our fixed IP camera range with more than 100 different camera models" said Herve Fages, Senior Vice President. „We're adding features to the range that will solve monitoring challenges." The latest advancements are ideal for difficult lighting environments and provide high reliability in mission critical situations.

**www.pelco.com**

With the Flir K50 you can see temperature changes resulting from all kinds of chemical reactions in containers

FIRE PROTECTION

# Locate Hotspots and Missing Subjects

## Beveren Firemen Value Thermal Imaging Cameras

The appropriate firefighting equipment can be critical for a fireman, for his own survival on the one hand, and for saving the lives of others on the other hand. To ensure the safety of its crew and to deliver even better firefighting services, the firefighting department of Beveren, Belgium, recently invested in a Flir K50 thermal imaging camera.

### High-risk Areas

Beveren is a municipality located in the Belgian province of East Flanders and very close to the city of Antwerp. The port of Waasland (Dutch: Waaslandhaven) is also located in Beveren, on the left bank of the river Scheldt, facing the port of Antwerp on the other side of the river.

The Beveren-Waasland fire department is responsible for the fire safety of a number of municipalities in the vicinity of Beveren, and for the Waasland port, which houses a number of high-risk companies that produce or make use of chemical or toxic materials. The Beveren firefighting team includes 40 professional firemen, 3 officers and more than 50 voluntary firemen.

Especially with the high-risk areas of the Waasland port under its care, the Beveren fire department has always had an eye for advanced technology in order to support its team. That's why the department has already been using thermal imaging cameras for many years. A specific type of camera system includes a PTZ camera system, including a visual and a Flir thermal camera that can be mounted on the fire truck.

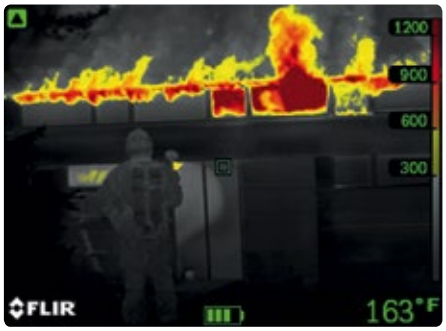
"We have been using this system for a few years now and it has always helped to give us an extra pair of eyes," comments Corporal Stefaan Terryn of the Beveren team. "We can use the PTZ system to monitor the situation for possible hotspots on site and send the video images to a crisis room through a wireless link. This way, this camera system helps the local authorities to assess the situation on site from a distance and take the appropriate measures when necessary."

### Handheld Thermal Imaging Camera

While the PTZ system is chiefly used to be mounted on a fire truck, the Beveren fire department also makes use of handheld thermal imaging technology from Flir. More specifically in 2013, the department purchased a Flir K50 point-and-shoot camera for firefighting applications.

"This camera is very useful for us for a wide range of applications," says Corporal Stefaan Terryn. "For chimney fires for example, the K50 can help us detect hotspots in a drop ceiling. Or we can use it to see temperature changes resulting from all kinds of chemical reactions in containers, something that is very useful to us because of the many chemical industry companies in the Waasland port. A thermal imaging camera is mostly used in progressive points in time, so we can see the evolution of a fire: either it's cooling down or heating up again."

When the firefighting team receives an urgent call, they usually use three vehicles: the actual fire-fighting truck, an aerial ladder platform and a tank vehicle. The thermal imaging camera is located in the fire-fighting truck and is mostly used for revision of fire-fighting activities, in other words: to see whether all work is done and all fires are extinguished effectively.




▲ TI Basic mode: For initial size-up of fire scene and fire attack

◀ The Beveren fire department uses a PTZ system with a visual and a Flir thermal camera to monitor fire situations

Another application of this thermal imaging camera is a targeted search for missing persons. To this end, the Flir K50 has a dedicated color palette (SAR mode) to assist firefighting professionals in locating subjects more easily.

"The camera also helps you see dangerous situations without the need to enter a specific area," says Corporal Stefaan Terryn. "We recently had to attack a fire in an engine room of a ship that was located in the Waasland port. This is a good example of a situation where thermal imaging is indispensable. Entering an engine room that is on fire is very dangerous. With thermal imaging, you can see what's going on from a safe distance."

## Affordable and Lightweight

"Before we purchased the Flir K50, we evaluated several TIC models. The Flir K50 came out as the most interesting one in terms of price-quality ratio," comments Corporal Stefaan Terryn. "Unlike previous handheld TICs we had used, the Flir K50 is also very light, which makes it easy to handle. We already carry a lot of weight, including our heavy fire suit, air tank and high-pressure equipment. So any additional equipment should be lightweight. The fact that this is a point-and-shoot model, makes the K50 very straightforward to use, in contrast to other handheld camera models that have an angled screen."

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# Zoom In On Product Quality

## The Right Hand Protection Can Make the Difference

IPS Alpha Technology makes it a top priority to keep the workplace safe for both products and people. A clean production facility is essential for running operations smoothly. Using special Ansell gloves in the company's new hi-tech factory in the Czech Republic helps reduce risks.

**Hyflex 11-618: The perfect balance between comfort and cut resistance**

IPS Alpha Technology Europe manufactures LCD modules for flat screen TV. The company was established in Japan in 2005 as a joint venture of three major television manufacturers, Matsushita, Toshiba and Hitachi, to supply high-quality crystal panels for their products. To cover the booming European market for flat-screen televisions, IPS Alpha has opened a new production plant in the Czech Republic with almost 1,500 employees. Once produced, the panels are then built into the televisions by the manufacturers themselves.

### The Challenge: Maintain a Clean Production Environment

For IPS Alpha, the safety of its workforce is as important as the safety of its products. All production is carried out a 'clean-room' environment. A clean-room is an area in which the air quality, temperature and humidity are closely regulated and monitored in order to protect the sensitive equipment from contamination. This type of environment is vital when working with highly sensitive technologies such as flat-screen televisions. Clean-rooms are rated according to the size of particles larger than 0.5 microns in any given cubic foot of air.

For the same reasons of quality, people working in clean-rooms are required to wear special protective clothing that does not shed lint and which also prevents particles of human skin and hair from entering the atmosphere in the room. "The slightest contamination in the production process can reduce perfectly good equipment to worthless scrap," says Michal Zabusek, Production Manager at IPS Alpha. "Not to mention the loss of time and money."

### A Partner With Vision

With the constant need to stay focused on protection, it is reassuring to be able to rely on the support of a professional supplier who not only knows your needs, but who also works closely with you in finding the right solution for all your requirements.

Ansell acts as a genuine partner, not only by advising which gloves to use, but also by developing new and enhanced gloves in conjunction with IPS Alpha. Each type of glove used is tested and monitored regularly for usage, wear and results. Analysis of these results provides the advice needed to ensure that the electronic goods IPS Alpha manufactures are properly protected. The safety of goods is one thing, of course, but management is also constantly looking for ways to protect its employees from injury. As in any factory, goods handling and packing are an integral part of the overall production process at IPS Alpha. It is Ansell's responsibility to help find the right balance between keeping the company's staff safe and ensuring products are made and remain in perfect condition.

"With over 130,000 gloves used every month, it is essential to have a partner you can count on," says Mr Zabusek. "We have looked at a number of other suppliers, but Ansell always comes out as the best choice. They deliver the added value we need to make the right decision regarding gloves for every task." More that 90% of the workforce wears protective clothing of some type at IPS Alpha's Czech factory, so it is important to encourage everyone to use gloves. And to make employees fully understand the need for protective wear, Ansell provides personalised training courses, as well as training videos and posters to be displayed in the work area.

As a responsible partner, Ansell also provides assistance whenever there are problems or questions. The local sales manager and product support people are available at all times. "It is not uncommon for us to receive urgent deliveries from Ansell Brussels to keep our glove stocks up to the required level," adds Mr Zabusek. "I'm sure we would not have received the same level of quality and service had we opted for a glove supplier other than Ansell. They are really the best!"

### Benefits: Quality, Advice and Greater Productivity

"In Ansell we have found an excellent partner who understands our business and the issues that go with it," says Mr Zabusek. "We are more than satisfied with their products and services and if I had to rate them, I would give them a score of 120%!"

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VIDEO SURVEILLANCE

# High Risk, High Tech

## Dahua Enhances Security Level for Saudi Arabian Petrochemical

"Oil and gas" are definitely among the top mentions that come across one's mind when talking about Saudi Arabia, and as a matter of fact, this country owns one-fifth of the total global conventional oil reserves, ranking No.2 largest in the world, after Venezuela. With this unsurpassed natural resources, the Saudi made petrochemical as its pillar industry with a complete and mature system from exploration, exploitation to transportation as well as the extensions to the whole industry chain.

### Surveillance Upgrade

Al-Jubail petrochemical company (Kemya), established in 1979, is one of the largest petrochemical corporate in the country; and over these years, the company keeps in expansion and innovation, aiming to create a more productive yet safer and greener working environment; and video surveillance system upgrading is part of the plan.

According to the integrator, Kemya's existing surveillance structure is based on analog, but to acquire easy maintenance and management, the client plans to upgrade the system to network by introducing encoders as a transit station on the basis of the existing analog cameras, and using network video recorder for storage while VMS platform for a comprehensive management. "Unlike other projects that we were involved at the very beginning," said Peter Xuan, Overseas Project Manager at Dahua Technology. "When the integrator found us, the whole project has almost had everything settled, except the back-end part as the devices that planned to be adopted failed to meet the demand of the client – to be compatible with the third party encoders and VMS."

### High Investment, High-tech and High Risk

"I soon realized that it could be our great chance, though we do face a serious challenge – the tight time frame," Xuan continued. "As the project needs to be implemented in a short period of time, and waiting means wasting, so after I got the detail requirement of the client, we start immediately on planning and making proposal, and soon we narrowed down the model to NVR724-256DR, a 256-channel super network recorder."

NVR724-256DR supports 256ch@1080p real-time recording and has an impressive 512 Mbps incoming capability, which is to say, the device is fully capable to ensure the smooth operation, and since large storage is a necessity for big scale and crucial applications, take this case for example, the plant needs 24/7 non-stop monitoring, which inevitably generates a large volume of data, so iSCSI & Mini SAS expansion is provided to render possibility for mass extra storage, in addition to the default 24-HDD accommodation.

Moreover, the NVR is equipped with a LCD screen, making adjusting and maintenance much easier. The most important part in this case is the integration with a third party encoders and VMS software, thus a lot of effort, such as SDK and sample providing as well as testing was made to make everything right, ensuring the integration goes smoothly.

### Failure Is Not An Option

Meanwhile, petrochemical related industry is characterized with "three highs" high investment, high-tech and high risk. Any error or miscarriage will lead to a disaster, causing great losses in people's life and property, and video footages are crucial for evidences in mishaps. This requires very high stability of the system, so Dahua have done a series of customization to ensure system 100% stable and reliable by adding redundant power supply, RAID and N+M hot standby in this case.

"As a saying goes, when need is highest, help is highest, "said Lourenco Rui, Technical Manager of Thales Group, a local system integrator. "We are very satisfied with Dahua's prompt response and its good product quality and professionalism helps us successfully complete this urgency project and all the integration in such a short time, ensuring the smooth implementation of the project."

Xuan emphasized that compatibility is always one focus we've been paying attention to, and this case is a good proof to that point. The whole project only took one month before everything's settled, customers' needs and satisfaction are always the focus of a project.

### ▶ CONTACT

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SECURITY FOR CASINOS

# Red, White and Blue

## The Kiowa Casino Applies Video Technology from Dallmeier

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The Kiowa Casino in Oklahoma, USA provides 60,000 square feet (over 5,500 m²) of undiluted Las Vegas-style gambling excitement. Guests can choose from more than 900 slot machines with the latest games as well as gambling tables for such classic games as Blackjack, Ultimate Texas Hold-Em and 3 Card Poker. The casino is open 24 hours a day, 7 days a week, and guests have a choice of a steakhouse, a buffet or a sports bar and grill in between their gambling sessions. Michael Pratt, Director of Surveillance for the casino, turned to Dallmeier in order to upgrade the existing video surveillance system to reflect the latest advances in the field.

The company has been developing and manufacturing individual CCTV/IP video network solutions specifically for casinos since 1997 and been active on the North American market for more than ten years. According to Michael Pratt, the critical element in the decision by the Kiowa Casino was the flexibility and simple integration capability of the Dallmeier system: "We wanted to add high definition cameras to our existing installation, and we chose the company's IP cameras because of their outstanding image quality. It was particularly beneficial for us to be able to integrate our existing analog camera installation from a third-party provider into the new system without difficulty."

## Intuitive Operation

The system is controlled via the Semsy Security Management System that can easily be adapted to the customer's specific requirements. It is not only possible to personalize the graphical user interface, but also to add new functions. In this way the software meets exactly the customer's unique demands. The Kiowa Casino also decided to implement the VMC-1 Video Management Center consisting of a keyboard, a joystick and a jog-shuttle, with which an operator can navigate through all of the cameras simply and intuitively. The individual components of the VMC-1 can be arranged in any configuration, so they can be used equally well by both right-handed and left-handed operators. Since its installation, it is not only the equipment that has functioned flawlessly; Michael Pratt is also entirely satisfied with the customer support: "We are very happy with the support and after-sales service we receive."

Every Dallmeier CCTV/IP solution is principally designed to be able to serve as an open platform for third-party integration. An enormous variety of integration options has already been implemented, particularly in the casino sector, including, for example, bar-code scanners, playing card readers, cash register systems, slot machines and access control. An interface with the Infogenesis POS system was implemented at the Kiowa Casino too. The data from cash register transactions is linked to the video images and stored in an SQL database. This makes it possible to carry out a vast array of additional search options in video recordings, by amount or item for example.

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SECURITY FOR CASINOS

# Too Good To Look Away

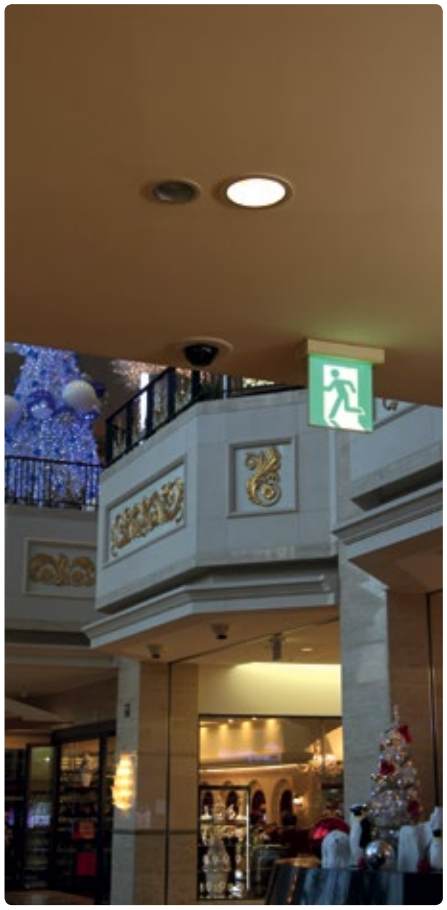
## Intelligent Surveillance for Kangwon Land Casino in Korea

The Republic of Korea – commonly known as South Korea – lies geographically nestled between China and Japan. Around half the population of over 50 million people live in and around Seoul, making the metropolitan area the second largest in the world. The country's consistent GDP growth has resulted today in a highly developed country and a people with high available income and purchasing power. And after a hard weeks work, some people like to some like to have a little flutter now and then.

As one of the most popular casinos in Korea, Kangwon Land Casino has a total of 132 game tables and 960 slot machines. In addition, Kangwon Land also operates hotels, theme parks, golf courses, resorts and skiing grounds, attracting millions of visitors from both Korea and overseas. After using analog surveillance systems for more than 10 years, Kangwon Land decided to replace the legacy system with a full HD IP surveillance solution.

### Technology Mix

Partnering with Samsung SDS, Bosch has been chosen to provide its IP video surveillance systems to Kangwon Land. More than 2,000 cameras are installed, which makes it the largest HD IP surveillance installation for Bosch in Korea. Autodome Junior HD fixed and PTZ series, Flexidome HD series cameras are deployed, and Intelligent Video Analysis (IVA) technology is also used to support the operator's daily work. Moreover, the Bosch IP system has been seamlessly



integrated with a Genetec platform, providing a capable VMS supported by the intelligent imaging of Bosch front end devices. The iSCSI edge recording from Bosch IP cameras and encoders to the DLA allows additional resilience against potential network outage.

Integrated with Genetec, Bosch IVA also enhances the operational user experience with positive results. „With HD cameras we can capture high quality video instantly whenever a dealer or the floor-master requires. Once you have experienced the new video quality you can't stop using it!" The customer says, „The IVA also makes it easier for operators to monitor activities, even under challenging lighting conditions. The edge recording and playback response time fully meets the requirements of our analysts in their daily work."

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SECURITY FOR CASINOS

# IP Video Helps Oversee Gaming

## Axis Megapixel Cameras Improve Quality And Level of Detail at the Marbella Casino

The Marbella Casino has belonged to the Spanish group Cirsa since 1985. Just like any casino, it is required by law to use video systems, and therefore has a number of infrastructures and equipment that need to be updated on a regular basis. The Marbella Casino is currently in the process of migrating to IP video. Advances in technology are a major asset to casinos, because they offer new features and improvements in the quality of images, especially for the most critical aspect of their activity, which has to do with the monitoring of gaming operations.

The Marbella Casino has been a client of Sensorvideo, a partner of Axis Communications, since the mid-1990s. Following its advice, the Casino has been gradually incorporating the necessary hybrid and IP equipment to facilitate a smooth transition from analog video to digital video without compromising its business operations, since it only closes one day a year.

### Move to IP With Less Cameras

The use of Axis IP cameras with HDTV and megapixel resolution has enabled the Casino to reduce the number of cameras required to cover the gaming area, and it also delivers clearer and better quality images, which is essential to providing adequate monitoring of all the activity taking place at the Casino's tables. It is expected that by 2014 all points where money changes hands will be covered with IP cameras, and that the video system will be 100% digital by 2016.

Cirsa, owner of the Marbella Casino, is the number one Spanish company and one of the world leaders in the sector of gaming and recreation. Cirsa presently owns, among others, 32 conventional casinos and 83 electronic casinos. Since its opening, Casino Marbella has received more than 4 million visits, with occupancy levels of up to 1,400 people per day. Spanish casinos are subject to very strict regulations and overview, and due to current legislation, they must have numerous mechanisms that enable them to ensure the reliability, security and transparency of gaming. In this sense, the video system is key to the monitoring and traceability of the gaming operations recorded.

Casino Marbella has worked for years with the company Sensorvideo, specialized in digital video recording and transmission for casinos and gaming rooms, among other sectors. The current video system consists of 123 cameras and is divided into two subsystems. One of these subsystems is responsible for controlling the entrances and areas outside of the casino, and has about 80 cameras. The other subsystem has 45 cameras and analyzes – both on live images and recorded video – all of the procedures associated with the different games available: cash movements, opening or closing of tables, the individual operations of each game, etc. Thanks to this video system, it is possible to resolve all conflicts related to gambling, as well as identify people who try to commit any act of fraud.

Nearly forty Axis network cameras have been added to this latter subsystem, mainly AXIS P3346 Network Camera, which provides images with a resolution of 3 megapixels and offers other quality features, like the P-Iris. It also includes features for easy installation and use, such as remote focus, pixel counter, multi-view, and the ability to generate multiple streams of video simultaneously with different configurations.

### Low Light and Reflections

The unique characteristics of casinos make them a very demanding environment. First of all, the lighting is low and soft, which presents a major challenge for the majority of cameras. Secondly,

the cameras must have control over items that produce reflections, such as the playing cards, and which are of a different color, such as the gaming chips. Using Axis cameras delivers images with an optimum level of detail and crisp color.

The majority of the work of the Risk Inspection team is performed on recorded video, which makes it essential for the recording to be of high quality and readily accessible. The Heitel recorders and the images from the Axis cameras represent a leap forward in that there is a noticeable technological difference compared to analog video.

Other characteristics inherent in IP video are very advantageous for a casino: the flexibility they offer for adding one or more cameras to the system, the ability to easily change their location, and the possibility of creating highly accessible systems that provide the facility to ensure that the video system remains operative even in the event that any of its components should fail or malfunction.

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## Economic Surveillance Package

Vivotek has announced that its Convenient Retail Solution is now available on the market. The company recognizes the needs of retail market customers and has responded by developing a cost-effective and user-friendly solution. It comprises the ND8321, an 8-channel plug-and-play network video recorder, elegantly designed ultra-mini bullet network cameras and ultra-mini dome network cameras. The solution is ideal for retail outlets like convenience stores, boutique stores, restaurants and clothing stores. Steve Ma, Executive Vice President, remarked, „Some smaller scale retail owners might hesitate to embrace high quality surveillance solutions because of the price tag. We have developed this solution to provide a quality performance system at a reasonable cost. Our goal is to help our customers and ensure a safer shopping environment for their customers without breaking the bank." **www.vivotek.com**

## Camera Feature Additions

Arecont Vision has added a number of significant features to the company's Megaview 2 day/night bullet megapixel cameras. One particular is Stellar (Spatio TEmporal Low Light ARchitecture). The cameras also feature optional on-board storage up to 32GB via an SDHC card slot, Corridor View capability that allows the camera's image to be rotated 90 degrees for better coverage in hallways and corridors and an ability to scale images to different resolutions to better meet system bandwidth and storage requirements. Remote focus/zoom p-iris lenses, Wide Dynamic Range (WDR) up to 100dB, integrated infrared illuminators and a choice of wide angle or telephoto options are also found in the range of models with resolution up to 10MP. **www.arecontvision.com**

## Faster Fingerprint Module

Suprema, a global provider of technology in biometrics and identification, has announced the launch of the SFM5500 Series fingerprint embedded modules. This series feature 533 MHz DSP with a high precision capacitive sensor as well as an optical sensor delivering high image quality and a highly durable sensor surface. With the enhanced DSP and functions, the new module offers far faster verification and identification time than its predecessor, SFM3500 Series. It also enables users to manage and transmit biometric data more securely and faster since it is equipped with WSQ (Wavelet Scalar Quantization) image compression technology. It also features a FIPS201 approved algorithm, which compliances to ISO and ANSI standards. **www.supremainc.com**

## Starter Lock System

Simons Voss now offers Starter-System, a simplified version of its 3060 Digital Locking and Access Control System, making it easy to switch from a mechanical lock system to a digital one at a low cost. The system now also brings the advantages of digital lock systems to small installations with up to 20 doors and 100 authorized access users. This solution includes digital locking cylinders and small digital transponders that open doors at the press of a button in the same way as electronic car keys. Powered by battery, they use radio signals to communicate with the locking cylinder. Included is a software CD and a USB configuration device, which transfers data from the computer to the system hardware, locking cylinders and transponders. **www.starter-system.com**

AIRPORT SAFETY & SECURITY

# Investment In Efficiency

## New State-of-the Art Security Hall at Edinburgh Airport to Improve Experience for Passengers

With almost 9.8 million passengers traveling through its terminal in 2013, Edinburgh Airport is Scotland's busiest airport. More than 40 airlines serve over 100 destinations and the airport has continued to see record-breaking customer numbers in 2014. The fifth largest in the UK in terms of passenger figures, Edinburgh Airport is currently going through a period of rapid expansion.

Plans were announced in late 2013 for a new £25m terminal extension to be created at Edinburgh Airport which would house a state-of-the-art security hall, airline offices and retail units. In order to accommodate the ever-increasing number of people, airlines and aircraft, the security team have been at the forefront of a major project to design and create a completely new security concept that will improve the journey for passengers and the working environment for employees.

Part of a wider strategy for growth and to enhance efficiency and service, Edinburgh Airport is investing in new intelligent technology solutions to streamline airport operations. Extensive investment has been made in technology, with a new X-ray configuration that has the capability of processing in excess of 800 images per hour. Passengers will be able to benefit from faster flow, which will see waiting times significantly reduced.

### Essential Expansion

Julie Matthews, Head of Security, explains: „We've been seeing significant passenger and airline growth for over a year and have recently recorded our busiest month on record. While growth like this is fantastic, it also presents a number of challenges, specifically how we as an airport with limited room to physically expand can accommodate ever-increasing numbers of passengers while continuing to provide the good customer service."

The new security hall will provide a completely new facility for passengers. It's one and a half times bigger than the current hall with a double height ceiling and sky-lights to fill it with natural light. Passengers will benefit from a quicker, more efficient security check with longer lanes, bigger trays and more spacious re-packing areas. Dedicated FastTrack lanes have also been created, with a link bridge connecting a designated parking zone in the multi-storey car park directly to the new security hall.

The design has been incredibly important and has resulted from consulting with Security Officers on simple but crucial features to make their roles easier. Julie explains; „From the beginning of the project, we've been very clear about having all of our Security Officers involved. From the design and layout of the new space to the way equipment is installed, we engaged our team throughout the entire decision-making process."

„We even commissioned a light study to identify the best places for the sky lights in the roof. We've also completely removed all pillars from the hall which can take up valuable space and cause obstruction to passenger flow."

Having seconded two members of her team to focus exclusively on delivering the new security service, Julie has been working closely with over 250 members of the security team to roll-out a comprehensive familiarization project, making sure every member is comfortable with the changes.

### Go With the Flow

Central to the ethos has been the use of intelligent technology to streamline the entire security facility. New body scanners were introduced earlier this year to help accelerate staff and passenger familiarization Created by L-3 Security and Detection Systems, these scanners will speed up the entire security process for passengers.

Six Smart Lanes have been installed by MacDonald Humfrey, each with a Parallel Divest feature, which allows up to seven passengers per lane to simultaneously load their carry-on items into trays ready for screening. The lanes are connected to a Matrix Smartview System which links into a remote screening area. Trays that have passed security screening are then presented back to the passenger to allow them to redress. Rejected trays are separated for further screening by a Security Officer at one of

Wider lanes and more space for passengers and staff, all under surveillance

sixteen search stations. A tray-return system has also been installed to ensure empty trays are returned to incoming passengers faster and more efficiently.

## Queue management

Speed and efficiency are crucial to any airport security facility and Edinburgh has implemented these solutions to increase throughput and minimize waiting times. Following the introduction of facial-recognition technology in 2013, the airport installed a passenger monitoring tool from UK-based Crowd Vision, which provides real-time data on crowd numbers, density and flow.

The company has developed an innovative analytical capability to measure the throughput and utilization of airport security. Live dashboards will produce immediate feedback to staff on how well they are directing passengers through the process and avoiding congestion. Data collected over time will measure performance and aid planning and continuous improvement to understand effectiveness and allow for further improvement.

„It's crucial that we constantly monitor passenger flow so that we can have the right number of lanes open and officers on duty. Having previously worked with London City Airport, Crowd Vision were recommended to us. Their technology means we can monitor the entire security area, with particular focus on eliminating crowding and maximizing the space we've created, which we didn't have previously", Julie explains.

## Proving Ground

The fundamental benefit of using real-time data means the security team can immediately identify any areas of congestion. The ability to understand crowds in real-time differs from other video-analysis solutions as it allows the monitoring of crowd characteristics over extended periods of time. This, in turn, helps managers plan rosters and deploy resources to crowded locations to maintain sufficient throughput.

The airport is now at the point where it is carrying out rigorous testing of the new facility, and this in itself can provide challenges to staff on the ground. Julie said: „To test our new equipment, we've been processing small groups of passengers through the new search area over the last two months. It's crucial that we use passengers as this presents staff with an environment which is as realistic as possible. We're also able to act on feedback quickly and to make any necessary changes to the process. This part of the project has been a challenge as, in order to maintain our daily airport operations, we've had to operate both current and new security search areas at the same time."

Using an IP infrastructure for various systems enables efficient overall security management

## IP Infrastructure

As more passengers than ever before travel through its terminal and with a 6,000m² extension nearing completion, Edinburgh Airport recently upgraded its entire analogue security surveillance system to an IP solution. Working together with Indigo Vision, the airport has gradually upgraded its entire surveillance system - both internal CCTV and external perimeter detection system - by installing 300 HD cameras across the site. Siemens acted as installers of the airport-wide surveillance upgrade. The objective was not only to improve airport site protection but also enhance procedures and efficiencies.

Greater situational awareness has been provided across the airport terminal and airfield as a result of this IP upgrade. The installation of the HD cameras provides greater coverage of passenger flow. Through the security management platform, surveillance systems between the terminal, car rental facilities and car parks are now linked where they were previously standalone.

Further protection is provided by Acoustic Fence Detection across the 16km of airfield perimeter fencing. This is supported by thermal imaging cameras that provide advance notice of any potential intrusion across designated alarm zones. The new 2,350m² security hall will also be monitored by 49 cameras, ensuring 100% coverage.

Julie said: „We adopted a consultative approach with Siemens to establish individual requirements for particular areas of the airport that have different surveillance needs. One of the key challenges was to ensure a smooth transition from existing technology to the new, and to achieve this Siemens created a detailed asset migration plan." This enabled the security operation at Edinburgh Airport to continue largely unaffected. Edinburgh Airport's new terminal extension and security facility will open later this year.

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Secur-ED consortium members

TRANSPORT SECURITY

# Get-together

## Stakeholders in Public Transport Security Join Forces

There is a wealth of technology available to rail operators to improve the safety and security of passengers, staff and infrastructure. Yet whilst there has been huge investment in upgrading infrastructure, systems and sensors, a lack of standardization, compatibility and the cost can all limit the ability of operators to use them to their full potential. However, a consortium is making big strides in changing this.

The four-year EU Secure-ED project (Secured Urban Transport – European Demonstration) has brought together operators, authorities, the security industry and experts to develop and demonstrate solutions to improve urban public transport security. Secure-ED is a consortium of large and medium-sized European public transport operators from Madrid, Berlin, Paris, Milan, Lisbon and Bucharest. Working together with public transportation industry experts such as Thales, Alstom, Ansaldo and Bombardier, as well as physical security industry vendors including Axis and Nice, the group collectively creates packaged modular solutions that enhance urban transport safety security.

Addressing daily public transport security issues such as vandalism or anti-social behavior, to more serious situations such as physical violence, metal theft or even terrorist attacks, the objective of the EU project was to select and evaluate a set of tools to improve urban transport security. This extended to ensure that different security system components work together to increase efficiency, as well as enabling different entities such as police authorities and operators to share these insights in real-time. A key requirement is that solutions should be scalable so that they can be adapted for use in large as well as medium size public transport systems across different cities in the EU. These solutions are then evaluated during live 'in-the-field' demonstrations.

### Handling Aggressive Behavior Towards On-board Ticket Inspectors

In the first scenario Axis, Nice and Bombardier looked at the rising incidents of aggressive behavior towards ticket inspectors. The Secure-ED consortium has developed a comprehensive solution that builds upon a small application developed for smartphones, which creates a 'panic button'. In a test simulation, a 'distressed' inspector pushes the panic button on their device and triggers an alert in the Nice physical security information management platform (PSIM) – a Situator from Nice – installed at the command and control center. The alert contains the GPS coordinates of the device so it is able to automatically locate the nearest on-board Axis IP dome camera and display a live high-quality video stream from the vehicle using Bombardier's LTE (4G) wireless network. In addition, pressing the panic button also initiates a three-party call with the police and the control center in which the ticket inspector can report the incident and request police back-up. Crucially, as the inspector's GPS can control when the alert is sent with the alert they can see on an on-screen map exactly where the train, tram or bus is, and also the next station at which the police can board. With the live video feed displaying and capturing the incident as it unfolds, the police dispatcher and command center operator are able to observe events in real-time.

Once the situation has been handled, the extensive recording and reporting capabilities of the solution (included within Nice Situator) allow the entire scenario to be fully reconstructed and shared with all relevant internal and external parties. They in turn can replay the incident as part of the investigation, to collate evidence for possible prosecution or to help deliver operator training, process improvements or changes on the ground as part of a continual cycle of improvement.

### Detecting Unauthorized Access to Restricted Areas

Intruders at train yards and depots pose a serious threat to the safety and security of public transport vehicles. At one end of the spectrum is the ill-intent sabotage of safety systems and at the more pervasive end are acts of theft and vandalism, whether it is graffiti, stealing metal, or damaging rolling stock. The cost of this can run high as well as endangering the lives of the intruders. In the second Secure-ED demonstration and working together with Milan public

SIEMENS

# Opens doors to easy installation

## Aliro – IP access control – not complication

When you're installing IP Access Control the last thing you need is anything that slows you down or trips you up. Time, after all, is money. That's why we've made Aliro as simple to set-up as it is to specify – so you can get in, get everything done, and get straight onto the next job.

Its display panel walks you through every installation, each Access Point is pre-configured out of the box, and plug-and-play makes every single set-up straightforward.

A one-door, one-controller, system with Ethernet and RS485 connections for flexibility, and web based software for easy administration – Aliro is new, sophisticated and secure. And loved by end users.

**Aliro – Your way in**

**www.aliro-opens-doors.com**

Live Secur-ED surveillance and intrusion review

**Patrik Anderson**
Director Business Development, Axis

**Udi Segall**
Director Business Development, Nice Systems

transport operator ATM (Azienda Trasporti Milanesi), Axis Communications, system integrator Ansaldo STS and incident management software provider Nice Systems developed and tested a solution to rapidly detect unauthorized access to a complete train depot in Milan. The solution combines outdoor thermal and Pan-Tilt-Zoom (PTZ) cameras, advanced intruder detection video analytics and PTZ tracking to detect breaches and follow an intruder's movements. The demonstration also included an in-vehicle installation to automatically alert train drivers if there are still people or objects inside the train cars once entering the depot.

Axis IP cameras were installed to monitor the train depot. Thermal cameras with intelligent video capabilities such as motion detection and cross line detection were able to reliably detect intruders even in situations when there was limited visibility or at night. Smart video analytics algorithms were able to differentiate larger objects such as a person from a rabbit in order to avoid false alarms.

The operator in the control room is presented with a live feed from the nearest camera to the reported intrusion and follows pre-defined response plans embedded in NICE Situator, giving him step-by-step instructions on the course of action to take. For example, depending on the circumstances, they might be instructed to use the loudspeaker, to turn on bright lights or to dispatch security. As in the first demonstration, the incident is fully captured and can be shared, reconstructed and replayed.

## Bucharest: Successful Adaptation of the Milan Demonstration

Working with Regia Autonoma de Transport Bucuresti (RATB), the bus, tram and trolleybus operator in Bucharest, two demonstrations were held that addressed the handling of aggressive behavior towards ticket inspectors and detecting unauthorized access to restricted areas. Axis Communications, system integrator Bombardier and incident management software provider Nice Systems were able to successfully adapt the Milan demonstration to a bus and tram depot in Bucharest.

In addition to video surveillance for the depot, both a tram and a bus were fitted with Axis IP cameras to automatically send an alert should there still be people or objects inside. In contrast to the Milan demonstration, 4G LTE wireless transmission was used to relay high quality live video streams not just to the tram or bus driver but also to the security control center. The 4G LTE tests were very successful, demonstrating high reliability and providing excellent video quality.

## The Backbone of All Security System Components: The IP Network

The IP network becomes the backbone of all the security system components. This way, public transport operators can flexibly build out their security systems over time without being strapped to a proprietary solution. They can select an incident and security management software of their choice to manage the input from the various security system components. Feeding the input from all components into one security management center enables quick and efficient incident detection and management. Surveillance camera footage can be easily shared between different locations and entities, ensuring optimal collaboration and exchange of information so that everyone involved in responding to an incident is well informed, well prepared and knows what to expect when they arrive at the scene.

Combining wired Ethernet cable with wireless network technologies, it is possible to connect all surveillance cameras in a transit system to a security control center, where authorized security operators and emergency response resources can view live or recorded video footage from any part of the transit system, be it a station, bus, train, tunnel, depot or any other part of the infrastructure. This helps to ensure that every incident is handled correctly and with the right resources. Instead of relying and acting on second-hand information, all decisions can be made based on what is actually going on.

## Realistic Solution Concepts

As a company with 30 years of experience in the field of network video technology and as a founding member of ONVIF (Open Network Video Interface Forum), Axis Communications also contributed to Secure-ED. The Milan and Bucharest demonstrations have shown that IP-based security systems can be adapted and scaled to provide operators with flexible, future-proof and cost-effective public transport security solutions.

The concepts devised in Secure-ED meeting rooms have been transformed into real solutions that provide tangible value for rail operators. With innovations in camera technology and the bandwidth of LTE, we have moved far from grainy black and white images from analogue cameras on a closed circuit and now have broadcast quality images that can be streamed in real-time (from a moving train!) to the control room from any point on the rail or bus network. Combine that with a PSIM system that enables the operator to make sense of the information they are receiving by integrating with other systems and sensors, guiding them in managing the situation, subsequently reviewing and reporting on the incident, and you have a very powerful and future-proof solution. We are constantly reminded of the importance of what Secure-ED is really about and what everyone taking part is striving for – safety and security across every rail network around the world.

## ▶ CONTACT

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## Ultra High Definition Camera

Arecont Vision's Megavideo 4K (3,840 x 2,160 pixels) Ultra High Definition (UHD) camera provides a total resolution of 8.3-megapixels (MP) at 30 frames per second (fps) to deliver spectacular images. The camera's exceptional resolution and fast frame rates are ideal for mission critical applications where the fastest and most subtle movements need to be captured. It features a sophisticated one-inch 8.3 megapixel image sensor and extremely fast internal processing that runs at quadruple the speed of conventional megapixel cameras to deliver images in both bright and low light environments. The camera also features true day/night capabilities to capture UHD color images during daylight hours and high-resolution black and white images under low lighting conditions. **www.arecontvision.com**

## Adaptation by Software

The number of threats a security system must offer protection against is constantly increasing. This is difficult with systems that are based on hardware and which are therefore fixed and closed. „These systems cannot adapt to the new reality of the Security Manager", says Ruben Wegman, CEO of Nedap. „The only way to solve this is with software. Software modifications not only allow you to respond flexibly to current requirements, but also to new security issues in future." During Security Essen, the company showed that it is possible to respond easily to existing and future requirements by separating hardware and software.

**www.nedapsecurity.com**

## Pre-configured Recorders

Axis has introduced the Camera Station S10 Recorder series which consists of three out-of-the-box-ready desktop and rack-server models. These recording solutions are ideal for mid-sized installations such as in schools and larger retail stores requiring high-definition video surveillance. Users can quickly set up the devices because they come pre-configured to a variety of the company's network cameras. The intuitive human interface provides a flexible live view layout, responsive PTZ control and configuration of installation system settings. The series comprises an S1016 workstation model for use in office environments with up to 16 video channels, an S1032 rack server for up to 32 channels and the S1048, a rack server model for up to 48 video channels. **www.axis.com**

## HD Box and Dome Cameras

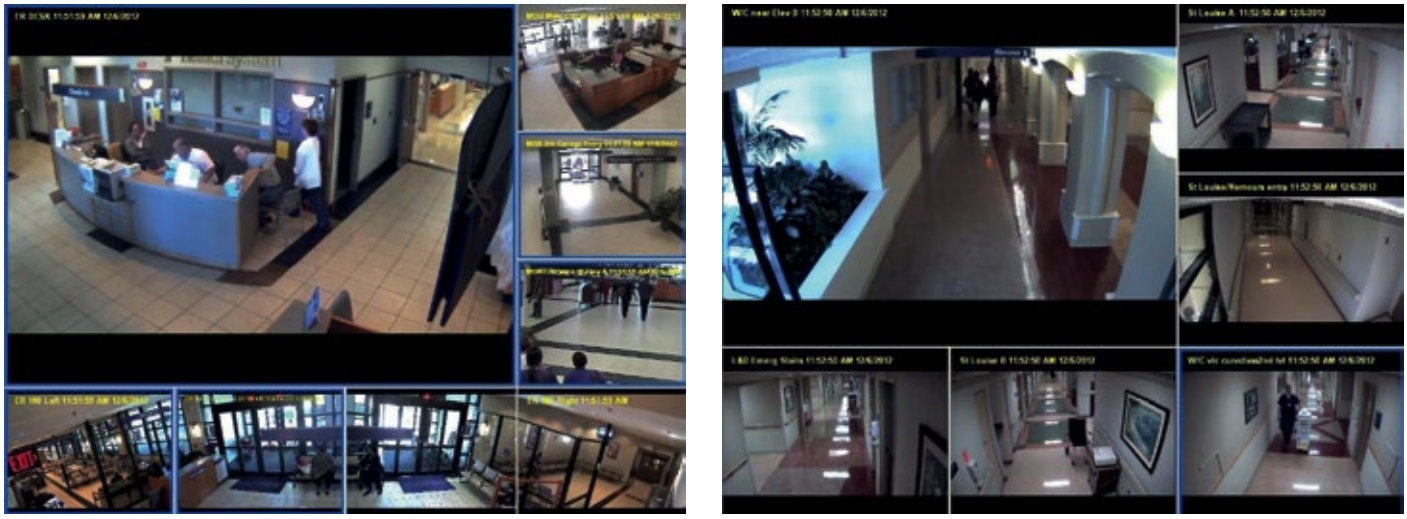
Dahua Technology has introduced two vari-focal HDCVI cameras, the 720p IR HAC-HFW1100R-VF box camera and an IR dome, the HAC-HDBW1100R-VF, which complete its HDCVI portfolio. These two cameras output clear and crisp images at 25/30 frames per second at 720p, and their focal length reaches from 2.7 to 12mm, allowing a more flexible monitoring view. This means one single camera can be adjusted for a different target area based on the users' needs. The camera's IR distance is up to 30 meters thanks to a smart IR algorithm that features non-LDR (light-dependent resistor) technology. **www.dahuatech.com**

SECURITY FOR HOSPITALS

# A **Healthy** Choice

## Florida Hospital Selects High Resolution Cameras to Upgrade their Surveillance System

Sacred Heart Health System is a 466-bed acute care facility. It includes Sacred Heart Hospital in Pensacola, Florida, Sacred Heart Children's Hospital and Sacred Heart Women's Hospital. The Sacred Heart Health System previously depended on an outdated analog video system with limited capabilities to provide surveillance of the large facility. Surveillance technology used at the institution had not kept up with the physical expansion of the facility, and the existing analog cameras didn't provide the required resolution to make important details visible to ensure adequate security.



**With Arecont Vision IP megapixel cameras, Sacred Heart security operators are able to view multiple cameras and zoom into details on a single monitor**

Since the Daughters of Charity opened the area's first hospital in 1915, the Sacred Heart Health System has grown into the region's leader for providing high-quality, compassionate health care. It is affiliated with Ascension Health, the nation's largest Catholic and nonprofit health system. The Pensacola facility is a Level II trauma center, a Level II pediatric trauma referral center, and a Level II/III neonatal intensive care unit.

Recognizing the need to update their video surveillance capabilities and coverage, Sacred Heart Health System called upon Redwire, a provider of electronic security headquartered in Tallahassee, Florida, who designed and performed the installation of Sacred Heart's new video surveillance system. „Performance sold us on Arecont Vision megapixel cameras," said Michael J. Matroni, Emergency Preparedness and Security Manager. „The demo we saw really convinced us of the quality of the products."

### Camera Variety

The new system uses cameras in patient care areas, hallways, lobbies and at all entrances and exits. Based on the surveillance parameters for each camera location, the hospital deployed a variety of different cameras including 2-megapixel dome cameras, 3-megapixel dome cameras and 8-megapixel 180-degree panoramic view cameras.

For some indoor locations, the hospital chose the DF4 all-in-one 1.3-megapixel dome cameras that capture 1,920 x 1,080 pixel images at 32 frames per second (fps). Offering higher resolution for indoor and outdoor applications, Megadome AV3155 3-megapixel cameras are also used throughout Sacred Heart Health System. These H.264/MJPEG color all-in-one cameras incorporate a 4.5-10mm megapixel varifocal lens housed inside an IP66 (weather-resistant) and vandal-resistant dome. They provide 2,048 x 1,536 pixel resolution at up to 15fps and feature an easily adjustable 3-axis camera gimbal along with 360-degree pan, 90-degree tilt and 360-degree z-axis positioning to make it simple to fine-tune the camera's view during installation.

### Less Is More

180-degree panoramic view cameras are used to cover large areas such as lobbies and open spaces at Sacred Heart Health System. These cameras incorporate four 2-megapixel sensors, each offering 1,600 x 1,200-pixel resolution for a total resolution of 6400 x 1200 (8 megapixels) at 6fps. The camera's dome housing is IP66-rated and vandal-resistant making it ideal for harsh environments. „We are using the video surveillance system to look for recorded video of suspicious persons after a description is given," said Mr. Matroni. „We are also using it to review slip-and-fall complaints and to address issues of employee accountability."

The wide area coverage of Arecont Vision cameras allowed the hospital to save funds with fewer cameras purchased and installed, lowering both initial costs and total cost of ownership over the life of the system. The hospital also benefits from the aesthetics of installing a single camera in the ceiling instead of multiple cameras. The savings on equipment and manpower resulting from Arecont Vision megapixel cameras contributed to a faster return on investment for the system, which was an essential design objective of Mr. Matroni and the management team.

### ▶ CONTACT

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## Long-range Surveillance Mapping

Puretech Systems, a manufacturer of geospatial video analytic software, has integrated its Pure Activ geospatial surveillance solution with General Dynamics Global Imaging Technology's line of VZ-series mid to long-range cooled electro-optical and infrared (EO/IR) multi-sensor camera systems. The integration enables the camera systems to utilize the company's thermal video analytic and long range, map-based PTZ control capabilities. The resulting solution is ideal for a wide range of homeland security applications requiring long-range targeting and wide-area perimeter surveillance including border and coastal protection. The solution provides the ability to detect and dynamically display the target's location on a map-enabled, geospatial command and control. Paired with the EO/IR capabilities of the VZ-series day and thermal sensors, the integrated solution meets surveillance and reconnaissance demands in ground-based defense and homeland security missions requiring maximum detection distance, in the most degraded weather conditions, day or night. **www.puretechsystems.com**

## Upgraded Event Detection

Avigilon Corporation has updated its Avigilon Control Center (ACC) software. ACC 5.4 enables complete video analytics configuration and management support for the company's HD Dome and HD Bullet cameras with adaptive video analytics and Rialto analytics appliances. The end-to-end solution provides users with highly accurate real-time alarms for proactive incident monitoring and response in a unified platform. „The combination of these powerful high-definition video management capabilities with our video analytics technology provides users with protection and event detection to keep both people and property safe, as well as business intelligence that they can use to make better business decisions," said Dr. Mahesh Saptharishi, Senior Vice President of Analytics and Data Science. **www.avigilon.com**

## Fiberoptic Links and Repeaters

Comnet Communication Networks of Danbury, Connecticut USA, a manufacturer of fiber optic transmission and networking equipment, has expanded its Reliance line by introducing the RLFDX series of substation-rated fiber optic RS-232, RS-422, RS-485 2/4 Wire and TTL Logic Data Links/Repeaters. The products are a direct replacement for the Garrettcom/Dymec5800 series of serial data over optical fiber products. They can be used in electric utility substations and switchyards, manufacturing plants, roadside/trackside equipment installations and wherever other severe-duty conditions are encountered. Apart from the high level of electrical isolation as well as enhanced protection for peripheral IEDs, RTUs and other equipment, the main benefit the series provides is to extend transmission distances optically, transmitting serial data up to 30km. **www.comnet.net**

## All-Round Camera

Axis Communications has launched the Q6000-E network camera, offering a 360° overview powered by four 2 megapixel camera heads. It integrates seamlessly with their Q60-E Series of PTZ dome network cameras to form a combined unit able to simultaneously provide both monitoring of large spaces as well as high detail optical zoom on areas of interest. Operators can optically zoom in on details of interest with high precision while simultaneously maintaining an overview of large areas of up to 20,000m² (215,000 sq. ft.) – about the size of four American football fields. This makes it ideal for city surveillance applications, monitoring food courts in shopping malls and other open areas. Individually configurable video streams in H.264 compression to greatly optimize bandwidth without compromising image quality and Motion JPEG are available. **www.axis.com**

## Powered Access Key

Winkhaus' expansion of blue Smart access control with an active key has introduced a variety of functions. For instance, it adapts to passive cylinders that do not have an internal power supply. The key can also be used as a programming device and assume the task of a power adapter. The technology communicates in a virtual network and the centrally-controlled system combines the benefits of online and offline solutions. At first glance, it is the larger format of the active key that differentiates it from the standard key. It offers more room for an internal power supply and contains a controller for the implementation of rights changes on the cylinder. It also opens and closes cylinders with a depleted battery.

**www.winkhaus.de**

## Robust Positioning System

At Security Essen, Videotec unveiled their Ulisse Maxi PTZ, now available with LED illuminators to ensure superior quality images even during nighttime, with infrared or white light. This is a robust and efficient PTZ positioning unit designed for continuous surveillance of large areas over significant distances in outdoor environments. It allows management of the largest motorized zoom lenses in the market, up to nearly 8 kilos of total weight, with enhanced resistance to vibration and temperatures up to 60°C. The illuminators are mounted in the lateral brackets and follow the pan/tilt movements to light up the scene steadily and evenly and provide excellent images in low light conditions. The IP66 protection rating guarantees total resistance to the most severe weather conditions. **www.videotec.com**

VIDEO MANAGEMENT

# High Definition Stream Management

## How to Optimize Scalability and Bandwidth Management

The scenario repeats itself all too often: the hourglass or spinning icon when accessing live or recorded video, waiting for the system to catch up. Slow, choppy and blurry video as it struggles to deliver required resolution and frame rate. These are the familiar symptoms of a video management system (VMS) unable to handle the demands of a growing high definition surveillance architecture.

While improved compression technologies like H.264 have provided bandwidth savings over predecessor standards, the overall performance of your VMS is not determined by compression alone. As you expand the count of high-resolution cameras within your system, the strain on network and other computing resources undoubtedly increases. To address the challenge of system scalability and bandwidth management, Avigilon has developed its High Definition Stream Management (HDSM) technology. HDSM is a proprietary stream management technology that drastically reduces server-client bandwidth requirements and makes optimal use of client computing resources, enabling greater scalability and increased camera resolution.

### How It Works

While other VMS systems are dependent on leveraging video compression, multicasting and multi-streaming for bandwidth management, the Avigilon Control Center software employs HDSM, a purpose-built bandwidth management technology, which reduces overall network load by an order of magnitude more than traditional technologies.

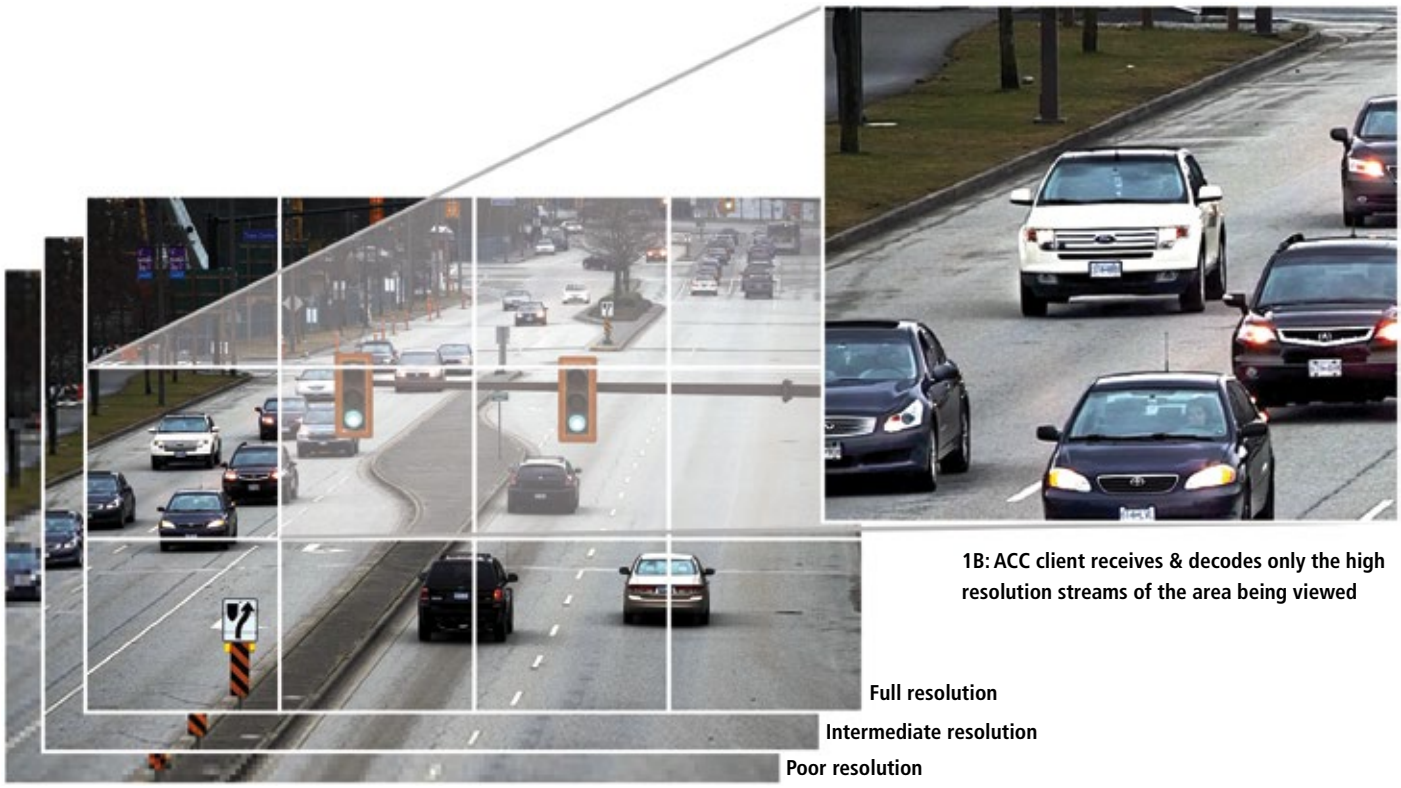
HDSM stores the video information on the server as small packets. Simultaneously, HDSM separates the video into multiple useable segments: lower resolution and smaller size streams for situational awareness, and much larger streams for full image detail. HDSM then intelligently manages these streams based on what the user is viewing. For example, if multiple cameras are being displayed in Avigilon Control Center with full field of view, the lower resolution stream is sent from the server to the client. When the user engages a camera and digitally zooms in for greater detail, the higher resolution stream is provided. However, only the portion from that region of interest is sent. This dramatically reduces the amount of information exchanged between the server and client, by only providing the information that the user needs at that time, regardless of resolution.

### High Definition Stream Management 2.0

Until now, HDSM was most effective with the JPEG2000 compression standard. This was primarily due to the dynamic adaptability of the JPEG2000 compression standard with high-resolution imaging. While JPEG2000 provides coding flexibility and high imaging performance, it also produces higher average bitrate streams and less overall compression than H.264, and is not a widely used standard within the video security surveillance industry. As a result, HDSM 2.0 was developed to operate with the H.264 compression standard, simultaneously providing users with high-resolution imaging performance, further bitrate reduction of H.264 and the intelligence and flexibility of HDSM. This technology pairing provides a unique and superior network performance over systems solely utilizing H.264 compression.

### The Next Section Outlines How this Works:

In figure 1A, HDSM is illustrated with the white line grid over a 16 MP image. The image is divided into 12 distinct areas. When a user zooms in on an area for more detail, only that portion, (e.g. in this illustration 1/12th of the total resolution) is sent from the server to the client. Not only does this drastically reduce the band-




1A: ACC server stores full resolution and low resolution streams

1B: ACC client receives & decodes only the high resolution streams of the area being viewed

width between server and client, it reduces the required decoding resources, which enables improved system performance, responsiveness and overall user experience.

HDSM also uses progressively lower resolutions. For example, if you were to display the full field of view of a 16 MP camera on your 1080p (2 MP) monitor, you would receive an intermediate resolution since you only need 2 MP of data. And when a camera is being viewed within a multiple camera display (e.g. one of 9 cameras in a 3 x 3 grid), the lowest resolution is used. In the end, HDSM provides only the resolution and detail you need when you need it.

## Conclusion

For system integrators and end-users planning for their video surveillance system expansion, the Avigilon Control Center software with HDSM technology is a solution that will provide them both increased performance and flexibility. With HDSM 2.0, Avigilon has paired H.264 compression with intelligent bandwidth management technology to create an effective solution in enabling broad system scalability in both camera count and resolution.

**▶ CONTACT**

Avigilon Corporation, Vancouver, Canada
www.avigilon.com

## Combination Lock

Assa Abloy has enhanced its Aperio range with the L100 lock with PIN code. The battery-powered lock offers optimum physical protection, transmits door status information to the access control system and provides multi-level authentication, without the need for any wires. The lock provides an easy way to extend any access control system to integrate doors with higher security requirements. Security managers can obtain real-time „open/closed" and „locked: yes/no" status information from the lock. Users' existing cards - or PIN codes of between 4 and 8 characters - continue to open and lock the newly equipped doors. Mechanical keys cease to be necessary as the wireless lock grants access simply by entering a PIN, via a card reader, or with a combination of both. **www.assaabloy.de**

## Dual Standard NVR

Milestone Systems, the open platform company in IP video management software (VMS), provides an easy way to make the transition from analog to digital technology. There is no need to throw out older cameras that are still working as you add new network devices to your surveillance solution. This series of NVRs will now offer versions with integrated encoders that make it simple to connect both analog and digital cameras, which run on IP networks. The NVRs are pre-installed with Milestone VMS and let end users build on their initial investment. The series supports the company's encoder licensing when choosing from more than 200 encoders that are used on the NVRs. At launch, two configurations of the NVRs will be pre-installed with Xprotect 2014. **www.milestonesys.com**

IP VIDEO

# Mobotix With New IP Video Solutions At Security 2014

At this year's security in Essen, Mobotix presented new compact sized Hemispheric camera, demonstrated its recent remote station for the IP video door intercom and introduced new software developments. "Important highlights this year include previews of the MxMultiViewer, our new video management software, the MxDisplay management station and the all new i25 Hemispheric camera," said Mobotix founder Dr. Ralf Hinkel.

### i25 – A New Compact Sized Hemispheric Camera

The revolutionary Q25M has given birth to a brand new hemispheric camera, which is nearly half the size. The new indoor camera is a fully featured device and built on the 5MP hardware platform. "We believe customers will love the i25 because it offers many of the same features found within the Q25, but at a much lower price point," said Oliver Gabel, Mobotix' Chief Technology Officer.

The wall mountable i25 captures an entire room with stunning 180° wall-to-wall view, without any blind spots. As with all Mobotix Hemispheric devices, the virtual PTZ on the live and recorded images is performed by the i25 camera without requiring an additional computer or software.

Available in both Day (color) and Night (B&W) models the i25 caters to the most challenging lighting conditions and a wide range of indoor surveillance applications.

### MxMultiViewer – Intuitive Video Management Software

The MxMultiViewer video management software is a completely new development for PC, Mac and Linux systems that focuses on ensuring simple and intuitive use. Full screen display at a single mouse click, support for several screens and a transparent view of events and alarm messages are just some of the many advantages of the new software. Particularly outstanding is the automatic configuration of the extensive MxMultiViewer. All Mobotix components in a network are detected and pre-installed automatically. Thus, a complete network of cameras and door intercoms can be brought into use in just a few minutes, without a browser or additional software - free of charge, of course, from Mobotix.

### MxDisplay – Building Automation Server With Touchscreen Display

The MxDisplay is the fixed remote station for the IP video door intercom and stands out, in particular, for its intuitive and easy use. With only a few swipes, the user can call up, for example, an overview of the cameras in the building and the most recent video messages from the door intercom or generate a new access transponder for a guest. No matter which menu the user is in, a tap on the key icon immediately displays the live image of the door intercom. Keeping the button pressed a while longer will open the door. If necessary, this can be secured further using a PIN or transponder. The MxDisplay can be integrated flush with the wall and is available in black or white.

i25, compact sized hemispheric camera

MxDisplay – building automation server with touchscreen

Another advantage of the MxDisplay is that it can be operated wirelessly. It can also be used as a base station for other displays in the building. Smart phones and computers can be used to log into the display via the network or integrated Wi-Fi in order to use all the functions in the same manner. A ringing at the doorbell is then forwarded to the smartphone or the workstation. Thanks to the Wi-Fi Access Point function, the MxDisplay creates Internet access for these smart phones and computers, which makes it unnecessary to set up an additional Wi-Fi system in the building.

### Reliable Detection At Night: M15D-Thermal and S15D-Thermal

A world first innovation, available in both the Mobotix M15D and S15D, is the ability to combine both thermal and optical sensor modules in the one camera. While the thermal sensor provides movement detection, the optical sensor provides crisp clear object identification. This enables the M15D and S15D to deliver accurate detection of motion in all lighting conditions and visual verification of who or what triggered the motion event. The advantage of using thermal sensor modules is that they can visualize heat radiating from vehicles and persons, for the purpose of accurate movement detection up to 400 meters away from the camera, even under the most challenging lighting and environmental conditions.

The flexible video cabling, weatherproof design and tiny footprint allows the two S15D thermal sensor modules to be installed into any location up to two meters away from a single S15D core unit.

The Mobotix M15D and S15D dual lens cameras come standard with MxActivitySensor, a state of the art intelligent motion detection software. When enabled in the thermal camera, MxActivitySensor registers movement without artificial lighting in pitch black conditions and during the day time, with stunning accuracy.

**▶ CONTACT**

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### Security Solution for Homes and Small Businesses

The Tinyon IP 2000 WI (wireless) and IP 2000 PIR 2-in-1 cameras from Bosch provide reassurance that alarms will be triggered when needed and video data is recorded and safely stored, so that looking back at what happened is possible, regardless of time and place. Both models combine a built-in passive infrared (PIR) sensor and a 720p HD IP video surveillance camera. Even in complete darkness, the PIR sensor enables the detection of any motion within a five meter range. Depending on the light levels, a motion alarm triggers the built-in white light LED, ensuring high quality video images. Besides motion detection, both cameras offer a built-in microphone to trigger sound-based alarms and a built-in loudspeaker. **ipp.boschsecurity.com**

### Display Solutions in Moscow

Professional displays and intelligent signal transmission for complex control rooms, digital signage applications, creative video walls for showrooms and interaction at POS/POI are presented by eyevis from 29 to 31 October 2014 at Integrated Systems Russia in Moscow at booth 1-165. In addition to the high-resolution LED modules with 2 mm pixel pitch and the EPU-LC display series with integrated image processing, the company will present eyecon Metawall 2.0 systems for video wall management via standard IP networks, large-format touch displays with UUltra-HDresolution, high-brightness rear projection cubes, the netpix 4900 graphic controller as well as omnishapes developed for creative installations. The Coconote multitouch table with more than 100 touch points from Virtual Sensitive will also be shown for the first time. **www.eyevis.de**

### Access Control System

Aliro, the access control system from the Security Products business segment of Siemens, has a clear system architecture with user-friendly software and intuitive mobile applications. The system can be managed from virtually any Internet-connected device. System costs are proportionate to the number of doors to be protected. This makes Aliro ideal for small to medium-sized businesses such as retail outlets, health centers and offices requiring a straightforward access control system that, as a distributed application, can manage up to 512 doors, 10,000 users and 100,000 access cards. It uses the company's current-generation Mifare card readers. They feature an integrated OLED display which shows messages and instructions based on user credentials. The user interface is available in eleven European languages and is compatible with all common reader technologies on the market. It also benefits from common features such as anti-passback, and supports local integration with intrusion detection systems. **www.siemens.co.uk**

VIDEO SURVEILLANCE

# Take Twenty-Eight!

## Samsung Techwin Security Cameras On Cue to Protect a Vital Part of British Film Heritage

Samsung Techwin video surveillance technology is playing a key role in helping to create a safe and secure environment for all who work on a site which first opened to the world of film in 1913. Situated in South West London, Twickenham Studios offers a bespoke service to all media, including film and television, and can claim to be the only London-based studios that caters for both stage and post-production requirements. Such expensive facilities of course need to be protected against equipment theft.

Despite working on highly successful films, such as ‚The Others', ‚Best Exotic Marigold Hotel' and ‚The Iron Lady', the Studios went into administration and in 2012 seemed destined for demolition. However, following a successful Save Twickenham Studios campaign, the site was purchased by British businessman and property magnate Sunny Vohra, who quickly implemented a multi-million pound plan to modernize and re-equip the Studios.

With the need to ensure that valuable production equipment and other assets will not be an easy target to would-be thieves, Carl Childs, Head of Engineering for Twickenham Studios was tasked to source a video surveillance system that would allow the monitoring of all activity throughout the studio. „The cost implications of having to replace equipment can be significant, but equally important was the need to safeguard against any disruption to film production and to verify 100% compliance with the Studio's strict health and safety procedures." With the assistance of Aray Architects, a tender process resulted in video surveillance specialists Securebase being awarded the contract to install a 28-camera IP network based system.

### High-speed Action

"Having successfully installed Samsung Techwin security equipment on a number of previous occasions, we were pleased to see that Twickenham Studios had specified the company's cameras for this particular project," said Dariush Hekmat, Director of East Finchley based Securebase. "We needed to install and commission the system within one week and so it was very

helpful that all cameras and recording equipment were sourced from a manufacturer who we had confidence in, and whose products we were familiar with. This was very much a team effort. We received excellent technical support from Samsung Techwin and our ability to complete the project on time was further enhanced by Twickenham Studio's engineering department overseeing the professional installation of an IP network infrastructure before we arrived on site. With POE (Power over Ethernet), installation time was further reduced as this negated the need to install power points at each camera location."

Twenty-seven of the installed cameras, which are equipped with the Open Platform WisenetIII DSP chipsets, are capable of capturing 2MP Full HD (1080P) images when the lighting level is as low as 0.01 Lux and have an ultra fast frame rate of 60fps, which results in latency-free clear images. This can be particularly beneficial in a scene with moving subjects by ensuring that image edges are kept sharp and clear. Thirteen of these cameras are SNO-6084R weather resistant bullet cameras, ten are SNV-6084R vandal resistant dome cameras and four are SND-6084R internal dome cameras. All are day/night cameras with motorized varifocal lenses and have built-in IR LED illuminators to capture high quality images, even in total darkness.

## Review the Scene

An SNF-7010 360-degree 3 megapixel camera has also been installed at a specific location at the Studio where many standard cameras would normally be required to monitor such a large area without any blind spots. The images from all twenty-eight cameras are simultaneously recorded on a Samsung Techwin SRN-1000 network video recorder which has 12 terabyte onboard storage capacity, enabling Carl and other authorized personnel to quickly retrieve recorded video evidence of any suspicious activity.

"By investing in a future-proof IP network-based video surveillance system that can be expanded at any time if our requirements change, we have put in place a highly effective tool which should help us to protect our assets and maintain a welcoming, as well as safe, environment for many years to come for everyone who visits or works at the Studios," said Carl.

**▶ CONTACT**

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## Discreet Security Lighting

On a large private estate in Vancouver, Canada, Raytec is at the heart of a 24/7 HD CCTV system for a residential client. Colin Bradley, President of specialist audio video integration company Coastal Integrated Technologies in Vancouver, who was responsible for designing the system explains: „From the outset we knew that high quality illumination was going to be a key component and the challenge was making it look residential rather than like a prison." The client did not want white lighting or any visible red glow to detract from the beautiful natural surroundings. The Vario i8-3 triple panel wide-angle covert illuminators from specialist lighting manufacturer Raytec were chosen to achieve full coverage over such a large area, with 360 degree illumination and up to 100m (328ft) from only 2 units. **www.raytecccctv.com**

## Petrochemical Boundary Protection

„Canada will climb to the No. 3 or No. 4 spot in the world as a major oil producer (from No. 5 now), trailing only heavyweights Russia and Saudi Arabia, and likely running neck and neck with the United States. Canada will be the world's fastest-growing petro-state." (cit. Canadian Association of Petroleum Producers). The industry also has one of the highest demands for physical security. This was a key driver and impetus for Sicurit's exclusive agreement with Control Innovations, an electronics and instrumentation manufacturing company based in Calgary, Alberta, Canada's energy capital. Originally focused on oil and gas exploration and production instrumentation, Control Innovations manufacturing now includes electronics and instrumentation. They have established a dedicated dealer network to supply Sicurit's perimeter protection solutions across Canada. **www.sicurit.com**

## Starter Lock System

Simons Voss now offers Starter-System, a simplified version of its 3060 Digital Locking and Access Control System, making it easy to switch from a mechanical lock system to a digital one at a low cost. The system now also brings the advantages of digital lock systems to small installations with up to 20 doors and 100 authorized access users. This solution includes digital locking cylinders and small digital transponders that open doors at the press of a button in the same way as electronic car keys. Powered by battery, they use radio signals to communicate with the locking cylinder. Included is a software CD and a USB configuration device, which transfers data from the computer to the system hardware, locking cylinders and transponders. **www.starter-system.com**

VIDEO SURVEILLANCE

# The Tools of Analysis

## Pelco Expands IP Range to Support Uninterrupted Security Monitoring and Advanced Video Analytics

Pelco by Schneider Electric is a designer, developer and manufacturer of video security systems. They have announced further capabilities for their Sarix Enhanced high-end fixed IP cameras with Surevision 2.0, which also includes their Professional Range and Value Range.

Sarix with Surevision 2.0

Sarix without Surevision 2.0

The Sarix range of cameras integrate with major third-party video management systems through the Pelco API, as well as with other third-party software and systems through the open ONVIF profile S and G protocols, to work seamlessly with the company's video management systems. New features in the Enhanced Range include an integrated analytics suite and ONVIF profile G compliance at competitive prices. Existing IP-driven camera solutions are designed for any lighting condition, application and environment.

„Last year we completely revamped our fixed IP camera product range with more than 100 different camera models, making these product launches among the most ambitious in our history," said Herve Fages, senior vice president, Schneider Electric, Pelco Video Line of Business. „We're adding new features to the Sarix Enhanced Range to meet the needs of our customers that will solve monitoring challenges." The latest advancements are ideal for difficult lighting environments and provide exceptional reliability in mission-critical situations. These advancements include, amongst others, an Integrated Analytics Suite. This uses intelligent algorithms to monitor scenes continuously and without the risks associated with human error. Every Enhanced camera with firmware version 2.1 or later comes as standard with eight intelligent video analytics features. These analytic tools detect any potential threats caught on camera and send an alarm to notify system operators of abnormal activity, enabling a timely and educated incident response.

Also introduced is Edge Storage, which stores video, audio and metadata to an SD card directly in the camera for uninterrupted monitoring if the connection to the VMS is lost. This functionality enables any ONVIF G compliant VMS to retrieve missing video when the network connection is restored for reliable security supervision and to complement head end storage. This capability is advantageous for mission-critical installations, such as at an airport, where edge storage in cameras could be a critical to the strategic backup plan.

### Bright At Night

In the wide range of Sarix Enhanced indoor, environmental and vandal options, including box cameras and domes, Performance IQ Surevision 2.0 technology gives advanced low-light capability, true wide dynamic range (WDR) and anti-bloom technology for high image quality. Even under difficult lighting situations, this technology delivers good images by utilizing 3D noise filtering, providing a smooth response to illumination changes and improved tone mapping to retain color accuracy and overall image contrast.

This range of cameras offers up to two full HD video feeds (up to 1080p at 30 ips) using H.264 compression for optimized bandwidth and storage efficiency and two simultaneous, independently configurable video streams for the most demanding applications – such as casinos and city surveillance, for example. These rugged fixed IP cameras were designed to provide high reliability and fault tolerance for mission-critical applications so users always receive the video they need. Operating temperatures for environmental models can range from -40 to +50 °C (-40 to 122 °F) covering Arctic to desert environments. Dome models include options that are IP66 rated for dust and water protection, plenum rated for in-ceiling applications, and impact rated for up to 50J of vandal protection.

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### Mobile DRM

Giesecke and Devrient, a supplier of end-to-end secure mobile solutions and Verimatrix for securing and enhancing revenue with multi-network, multi-screen digital TV services, recently showed a user-friendly digital rights management (DRM) solution for mobile video services that incorporates the high security standard of pay-TV solutions at the IBC 2014 Exhibition in Amsterdam. The application is easy for end users to navigate after downloading from the app store of their compatible Android handset. In stationary pay-TV applications that are common today, the required encryption keys are stored in a smart card, which can be omitted from this solution. The digital key data is loaded directly over-the-air into the protected area of the compatible handset, where it is kept safe throughout the entire life-cycle of the application and remotely managed. When a user requests access, this initiates over-the-air activation of the DRM mechanism over a secure channel to the device via the company's secure Trusted Service Manager. **m.gi-de.com**

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## Index


| | | | | | |
|---|---|---|---|---|---|
| Abus | 17 | Geutebruck | 3 | Samsung | 7, 44 |
| Ansell | 19, 21, 24 | Giesecke & Devrient | 46, Inside Front Cover | Schneider Electric | 46 |
| Apollo | 8, 18, 21 | Hikvision | 7 | Siemens | 17 |
| Arecont | 9, 31, 37, 38 | Honeywell | 16, 17, 21 | SeeTec | 6, 13 |
| Assa Abloy | 8, 41 | Idis | 7 | Sicurit | 45, CA |
| Avigilon | 39, 40 | IHS | 7 | Siemens | 12, 17, 32, 35, 43 |
| Axis Communications | 15, 30, 37, 39 | IndigoVision | 32 | Sierra | 29 |
| Bosch | Outside Back Cover, 14, 28, 43 | Kentec | 7 | SightLogix | 6 |
| C-Tec | 6 | L-3 | 32 | SilverNet | 6, 8 |
| Canon | 8 | Milestone | 8, 40 | SimonsVoss | 45 |
| CEM Systems | 8 | Mobotix | 15, 42 | Stöbich Brandschutz | 14 |
| ComNet | 39 | Moxa | 7 | Suprema | 31 |
| Crowd Vision | 32 | Nedap | 6, 37 | Tavcom Training | 6 |
| Dahua | 25, 37 | Nice CTI | 34 | TDSi | 8 |
| Dallmeier | 8, 26 | Novar | 15 | Vanderbilt | 10, Front Cover |
| Denios | 14, 16 | OnSSi | 7 | Videotec | 7, 39 |
| Epoc Messe Frankfurt | Inside Back Cover | Pelco | 21 | Vivotek | 31 |
| Eyevis | 23, 43 | PureTech | 39 | Wagner Group | 21 |
| Fike | 31, 20 | Quantum Secure, | 21 | Winkhaus | 39 |
| Flir | 21, 22 | Raytec | 6, 45 | | |



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