

Volume 8
May 2012

GIT
EMEA Edition

SECURITY

MAGAZINE FOR SAFETY AND SECURITY

SeeTec
Software for Video Security

www.seetec.eu

3

Flughafen zürich

Shopping Paradise
Zurich Airport

HB-IYS

Security for Production Sites

Fire Protection

Perimeter Protection

IFSEC Preview

Security for EURO 2012

**COVER: Tyco Solution at
Zurich Airport – Protecting
Business Critical Data Centres**

GIT VERLAG

79 824



CAPTURE IT WITH CLARITY



**Avigilon's end-to-end surveillance solutions
give you image detail no other system can match.**

Get unprecedented clarity with the Avigilon Control Center software featuring High-Definition Stream Management™ (HDSM™) technology, and the broadest range of megapixel cameras – from 1 MP to 29 MP. Our scalable surveillance solutions require minimal bandwidth and storage while producing the very best image quality. And that means you always get the best evidence.

AVIGILON
THE BEST EVIDENCE™

Secure Games, Expensive Games?

With less than 100 days to go before the London Olympics, the organizers under the leadership of Lord Sebastian Coe, President of the organizing committee, did already get a lot of praise from all around the world for their work. The stadiums are ready and infrastructure measurements are on a good way.

No criticism at all? Not exactly. There is some criticism regarding the security costs of the games and the fear was expressed that London will be a city under siege during the games. The Guardian reported that in addition to the concentration of sporting talent and global media, the London Olympics will host the biggest mobilization of military and security forces seen in the UK since the Second World War. More troops – around 13,500 – will be deployed than are currently at war in Afghanistan. The security force is estimated at between 24,000 and 49,000 in total. After the required numbers of security staff more than doubled last year, estimates of the London Games immediate security costs have almost doubled from € 344 million to € 675 million. In the context of post-austerity Britain, this is a lot of money, but when you compare this sum with the final security budget of the 2004 Athens Olympics – around € 1,220 million – this amount seems more reasonable. The security costs for the Beijing operations eclipsed both Athens and London and came in at a staggering € 7.9 billion.

Asked about the worries, Sebastian Coe said: "Security in big global cities is, of course, always a challenge. It is something you have to get right. You want people coming to the city feeling they are coming for a celebration, not a security event, so getting the balance is important". Although in Beijing the security force was estimated more than 100,000 and the Games were held in an authoritarian country, visitors never got the impression that they are surrounded by police and security forces.

Another aspect has to be mentioned when we consider the costs. A great part of the security installations at stadiums and in public can be re-used after the events. In Athens, the CCTV and information system built for the Games remained after the event and is still used by Greek police forces. Often big sport events are technology enabler and allow modern installations that normally would not be installed. The best example is the article on page 28 about the security and safety measurements installed in the Ukraine to prepare for EURO 2012, the other big sports event in 2012. All the investments made there are future-proof and will have an impact far beyond the EURO 2012 games.

If you are coming to IFSEC in Birmingham in May you are more than welcome to visit our team there at GIT's stand in Hall 4 Stand H120.

Enjoy reading this issue!



Heiko Baumgartner
For GIT's Safety and Security team



22

COVER STORY
Protecting Business Critical Data Centres
 Zurich Airport Uses an Innovative Fire Extinguishing System from Tyco Fire & Integrated Solutions

14

GIT SECURITY AWARD 2012 Winners
 The Award Winners of the 2012 GIT SECURITY AWARDS

20

AIRPORT SECURITY
Safe Ground, Safe Air
 Interview with Peter Andres of Deutsche Lufthansa AG

28

SECURITY MANAGEMENT
Let the Ball Roll
 Ukraine's EURO 2012 Stadiums Are Ready to Host Safe and Secure Matches

EDITOR'S NOTE

Secure Games, Expensive Games?

Heiko Baumgartner

MANAGEMENT

EVENT

Security Solutions and Best Practice

IFSEC International 2012 in Birmingham

GIT SECURITY AWARD

2012 Winners

The Award Winners of the 2012 GIT SECURITY AWARDS

TRADE SHOW

Bullish at the Fiera

Preparations Well Underway for Sicurezza 2012

AIRPORT SECURITY

Safe Ground, Safe Air

Interview with Peter Andres of Deutsche Lufthansa AG

FIRE PROTECTION

3

COVER STORY

Protecting Business Critical Data Centres

Zurich Airport Uses an Innovative Fire Extinguishing System from Tyco Fire & Integrated Solutions

22

FIRE PROTECTION

On the Move

C-Tec Relocates to New Premises

24

SAFETY

GAS DETECTION

It's What's Inside that Counts

Finding Hidden Savings During Challenging Economic Times

26

SECURITY

SECURITY MANAGEMENT

Let the Ball Roll

Ukraine's EURO 2012 Stadiums Are Ready to Host Safe and Secure Matches

28

CCTV

Making Sense of Pixels

Resolution, Not the Sensor Pixel Count

32

Test the Best!

Low-light Cameras

In Focus: JVC VN-H37U
 In Focus: Axis Q1604

34

35

In Plane View

East Midlands Airport Takes off with Indigovision IP Video Surveillance

36

Better Image Quality for Healthcare Applications

Megapixel Images Provide More Detail, and Using Fewer Cameras Yields a Rapid ROI

38

CONTROL ROOMS

Point to Multipoint

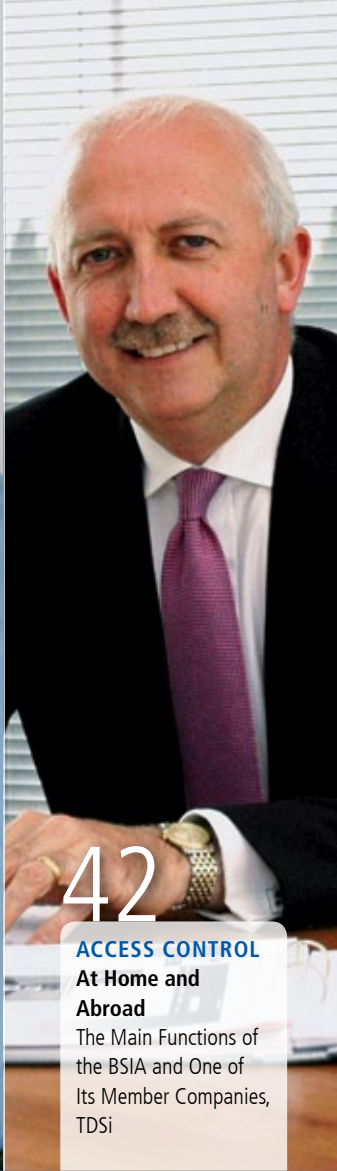
An Efficient Method of Splitting DVI Video Signals to Multiple Devices

40



32

CCTV
Making Sense of Pixels
Resolution, Not the Sensor Pixel Count



42

ACCESS CONTROL
At Home and Abroad
The Main Functions of the BSIA and One of Its Member Companies, TDSi



66

NETWORK VIDEO SURVEILLANCE
Get More than Moore
Trends in Video Surveillance Cameras

ACCESS CONTROL
At Home and Abroad
The Main Functions of the BSIA and One of Its Member Companies, TDSi

42

Ways without Wires
A Constantly Expanding Wireless Campus Access Control System

68

SECURITY FOR PRODUCTION SITES
Advanced Intelligent Management
A Security Management System for Puyang Tobacco Board Mission

46

Gas Grid Safeguarded
Gasunie's gas grid safeguarded with Geutebruck GeViScopes

48

Efficient Protection of PV-Power Plants 24/7
Successful Combination: High-end Video Alarm Technology plus Professional Emergency Service

54

A Big Impact at Nishat Mills Power Plant
Production Sites Demand a High Level on Security 24 Hours

56

Suspicious Heat
Thermal Imaging Cameras Help Secure the Perimeter at BASF

58

PERIMETER PROTECTION
Integrating Fence Detection and Video Analytics

50

INFO SECURITY
The Dangers of Mobile Malware
An Ethical Hackers View on What Steps to Take to Stop Mobile Malware Attacks

62

VIDEO TECHNOLOGY
CCTV at Full Throttle
Applying HD Broadcast Video Technology Simply to Coax CCTV Installations

64

NETWORK VIDEO SURVEILLANCE
Get More than Moore
Trends in Video Surveillance Cameras

66

SECTIONS

News..... 6
Security Products16, 45, 61
BusinessPartner 70
Company Index / Imprint 74

RFID-Technology for innovative Access Control

proxMagic®

Highest Variability

One reader for all Proximity Technologies.



bioProx®

Double Safety

Contactless access control and biometric verification.



tranSpeed®

High-Speed Access Control

Vehicle Access and Parking Management for indoor and outdoor installation.



proxSafe®

Perfect Control

Secure monitoring of keys and valuables for more safety.



deister electronic

deister electronic GmbH
Hermann-Bahlsen-Str. 11
D - 30890 Barsinghausen
Tel: +49 (0) 51 05 - 51 61 11
www.proxentry.com

The RFID Company

Optex Takes Over Raytec



Sensor manufacturer Optex has announced an investment in the 100% share capital of UK lighting manufacturer Raytec. This companies want to capitalize on synergies in sales and technology bringing both sensor and lighting technologies together. Raytec's three founding directors, Shaun Cutler, David Lambert and Tony Whiting remain in the Company. Shaun Cutler says: "The investment by Optex is exciting and very much welcomed by everyone at Raytec. We will continue to operate independently from our UK facil-

ity, however, we now have access to more resources to better serve our customers and alliance partners across the globe." The two Companies, he explains, "share many common goals and firmly believe that by working more closely together we can continue to make a difference to the security industry." Both Company's technologies are often partner products in the field and are used together in major, high security installations and critical infrastructure projects across the globe.

www.rayteccctv.com

Genetec's Omnicast for Musées Royaux des Beaux-Arts de Belgique

Genetec announced that the Musées Royaux des Beaux-Arts de Belgique (MRBAB) (the Royal Museums of Fine Arts of Belgium) has chosen Omnicast to protect their prestigious collection of art work as well as that of the Magritte Museum. The system currently manages over 270 Axis Communications IP cameras, for a total surface area of 45,000m². Renovations at the MRBAB and in the restaurant section, as well as the 2009

opening of the Magritte Museum, led to a rethinking of the facilities' security and surveillance systems, and a desire to take advantage of recent IP developments in this field. The choice had to meet serviceability and performance criteria – a cutting-edge IP video surveillance system, compatible with the existing equipment, and open to other systems, such as the fire and intrusion detection system.

www.genetec.com

New Eneo Business Unit Director at Videor E. Hartig

Videor E. Hartig has appointed Franz-Josef Eberle as its new Eneo business unit director. Beginning last year, the multi-brand distributor has been organizing its team of employees, reorganizing Eneo as a separate department that had so far been led by Managing Director Michael Haas. Before joining the Company Franz-Josef Eberle worked for Dialogic – there he was responsible for product marketing and product development within the Enterprise Market Group, providing business solutions in Video Software and IP Security.

www.eneo-security.com



BSIA Appoints Christo Bosch as Business Development Manager

The British Security Industry Association (BSIA) announced the appointment of Christo Bosch, who joined the Association as Business Development Manager. This role has been newly created within the organization to fill the growing need to widen and develop the membership base across all sections, a main objective of the BSIA's business strategy for 2012. Reporting to Trevor Elliott – the BSIA's Director of Manpower and Membership Services – Christo Bosch will be based out of the Association's London office, with a remit including the whole of Eng-



land and Wales, and will be primarily responsible for the recruitment of new members.

www.bsia.co.uk

IMS: VsaaS Market Set to Double over Next Three Years

IMS Research estimates that the world market for cloud based video surveillance, or video surveillance as a service (VSaaS), was worth over \$500 million in 2011, an increase of 25% from 2010. Sam Grinter, Market Analyst with IMS Research comments that "growth in the VSaaS market is a result of increasing demand from consumer, small-to-medium businesses, and government end users. Also, an increasing number of entrants to the market has accelerated growth of service development, marketing presence, and is also creating a more competitive environment. All

of which means that VSaaS is set to grow significantly faster for 2012 onwards." VSaaS solutions can include: self-monitoring, real time alerts, integrated analytics, and off-site storage. Because of the large feature set of VSaaS solutions, it can be used for a number of applications. Examples of VSaaS deployments range from integrated security systems incorporating on-site and off-site storage and remote video monitoring by a central station, to the 'peace of mind' one to four camera solutions for keeping an eye on loved ones.

enquiries@imsresearch.com

AS&E's Omniview Gantry at Seaport in Dammam



American Science and Engineering in conjunction with Al Zamil Group, announced that Saudi Arabia Customs debuted AS&E's Omniview Gantry cargo and vehicle X-ray inspection system at King Abdul Aziz Seaport in Dammam, Saudi Arabia. The high-energy transmission X-ray system will inspect cargo entering

the port for security threats and contraband. This is the first of several systems to be installed at port and land borders in Saudi Arabia. The system provides high penetration into inspected objects as it moves along rails over stationary vehicles and cargo.

lberman@as-e.com

Indigovision: Jurgen Klijn Senior Vice President EMEA

Indigovision announced the appointment of Jurgen Klijn to its executive team, as Senior Vice President, EMEA. Klijn has been with the Company since 2006, as a sales account manager based in Amsterdam. Over that time, he has built a strong business in the Benelux region. Klijn came to the Company with an established record in security system business development, having worked

with international operating companies Optelecom-NKF, Getronics and previously in a variety of roles with local system integrators. CEO Marcus Kneen welcomed Klijn to the role: „Jurgen’s technical strengths and knowledge in selling the Company’s solution and understanding of the business will ensure continued growth for the region.“

www.indigovision.com

NXP and HID Collaborating on NFC Phones

NXP Semiconductors and HID Global are collaborating to introduce a global, generic Mobile Access solution for NFC-enabled mobile phones. The jointly developed solution to leverage the Companies’ advanced reader technologies within a physical access control infrastructure. The solution supports existing HID Global readers and those based on the company’s iClass SIO-Enabled platform

that fuels the migration of physical access control technology beyond traditional cards and readers by enabling deployment of mobile access with digital credentials. HID’s iClass SE readers will be powered by NXP’s new CLRC663 reader ICs and fully support 13.56MHz smart cards that are ISO14443 compliant, including Mifare Desfire EV1.

www.hidglobal.com

Morpho and Cargobox to Enhance Air Cargo Security

Morpho Detection, the explosives and narcotics detection business of Morpho, Safran group’s security unit, announced it has entered into a teaming agreement with Cargobox, a provider of flexible air cargo solutions, to facilitate the development of integrated technology solutions to enhance air cargo security. The agreement will focus on Morpho

Detection’s explosives detection systems and Cargobox’ innovative, state-of-the-art collapsible intelligent shipping container technology, with the goal of creating comprehensive solutions that enhance safety and security for air shipment of products and goods from shipper to final destination.

www.morphodetection.com

Milipol Qatar: New October Dates for 2012 Exhibition

Milipol Qatar exhibition has announced a change of dates for its 2012 event at Doha Exhibition Centre, the ‘9th International Exhibition of Internal State Security’. Qatar has recently been appointed as host country for COP 18, the United Nations’ summit on climate change. This summit will take place in Doha from 26 November to 7 December 2012 and will welcome 20,000 participants from around the world. In order to ensure that key officials

from Qatar’s security forces are available and that also there are sufficient hotel rooms vacant in Doha for participants, Milipol Qatar 2012 has been pulled forward to 8–10 October. Milipol Qatar, co-organized by the Ministry of Interior of Qatar and the France based Milipol organization since 1996, welcomes every two years industry professionals from the Middle East, Near East and Asia.

www.milipol.com



Suddenly ‘Head of Security’ is a dream job.

Security Redefined^{*}

It’s your responsibility for securing business and people rely on you for a safe and secure work-place. But security technology can be inflexible, complex and, let’s face it, it’s necessary but not often appreciated. What if you could make security control rewarding, reporting a pleasure and visitor management a joy? Nedap’s AEOS system delivers just this because it is the 21st century model for dynamic security management. If you’d like that dream job contact Nedap Security Management www.nedap-securitymanagement.com

Join us!

IFSEC 2012
Monday, May 14th –
Thursday, May 17th
08:00 - 17:00
NEC Birmingham, UK
Hall 4 4/B60

 nedap
technology that matters

Moxa: Fiber Optical Bypass Unit

Moxa's fiber optical bypass unit Obu-102 adds bypass relay functionality to any network node. In linear topologies, a single power outage or node failure can take out an entire chunk of the network, because communications to all the network nodes further down the line are also cut. With relay bypass, that node is instead simply bypassed in the event of a failure, and the rest of the network is unaffected. The unit sits between a node and the network to add bypass relay functionality to any network switches that do not already support this important function. In normal operations, the unit simply acts as a gateway that forwards network traffic to and from the network switch. How-



ever, if power is lost, the OBU-102 will bypass the unpowered switch and simply pass network traffic to the next switch in the relay.

www.moxa.com

Thomas Geutebrück Steps Down from Active Directorship

After about 40 years of entrepreneurial activity Thomas Geutebrück, founder of Geutebrück bids farewell to his active leadership role. He will continue to offer his knowledge on a consultative basis. There has been careful preparation for this generational change of senior management. Katharina Geutebrück has been a successful director in the company since 1999. She has been responsible for the marketing, sales, finance, human resources and internal IT areas. Christoph Hoffmann, who to

date has been the product strategy and support manager has taken up the vacated chair of joint managing director on March 1st. In addition to his previous duties, he will now also be responsible for development and operations. The joint managing directors, Katharina Geutebrück (44) and Christoph Hoffmann (46) want to develop the company strategy by common agreement and with close co-operation with the department managers.

carmen.lahr@geutebrueck.com

Hikvision for Morocco's BMCE Bank

For their new headquarters in the city of Casablanca the BMCE bank of Morocco uses hybrid DVR from Hikvision. In order to secure the facility, which just recently opened in spring, a careful consideration of a number of tangent factors was made. Among these were



a variety of different surveillance cameras that number well over a hundred units, a wireless locking system for the building's 50 glass doors; and security-specific software that allows management to integrate this overall solution. It was immediately apparent that the quality, and type, of DVR was paramount. CST Sécurité, the installer, provided not only a DVR but a variety of

customer-specific ramifications. Of primary importance was to future-proof the solution. Currently, analog cameras are utilized at BMCE's new headquarters, but a gradual change to IP-based cameras is projected in the future. To ensure a problem-free transfer, CST Sécurité chose Hikvision's DS-9016HFI-RH Embedded Hybrid DVR.

hanfei@hikvision.com

Samsung Appoints Sales & Marketing Director

Gary Rowden has been appointed sales & marketing director of Samsung Techwin Europe. Gary Rowden, who until recently was Sales Director of IP distributor Anixter International, has worked within the electronic security industry for over 20 years for both manufacturing and distribution companies. "We are delighted to have been able to recruit Gary to provide leadership of our pan-European sales and marketing teams," said Johan Park, Managing Director. "We are committed to building a successful European company and in particular strengthening or position in both the IP security solutions and consumer security market place.



Gary's leadership and knowledge of how to promote and support IP and network solutions will be immensely valuable in helping us achieve our goals."

STSecurity@samsung.com

Opgal and Ngaro Team up for Thermal Imaging Solutions

A teaming by two surveillance and control companies in Israel and Spain aims for enhanced thermal imaging cameras for security. The strategic partnership between Opgal Optronic Industries and Ngaro Intelligent Solutions will also advance Opgal's expansion in the European market. Yair M. Sakov, vice president of the Security Business Unit at Opgal, said: „Ngaro's product architecture and independently operating modules enable the design of a variety of solutions to protect infrastructures, facilities, processes and people against terrorism, theft,

sabotage, fire, intrusion or any other type of threat which is identifiable by its thermal signature." Opgal's strength is using state-of-the-art thermal and active-imaging technologies, which will be integrated with Ngaro's analytics algorithms for detection, surveillance and control functionality superior to those based on infrared imaging. Also, Ngaro's intelligent surveillance and control systems complement Opgal's thermal cameras to deliver intelligent solutions to Spanish and global system integrators.

www.opgal.com

Microsoft Awards Geutebrück Expertise

In the latest Microsoft Partner Program assessments Geutebrück has achieved the gold standard in the server platform field, and silver in four other categories: independent software vendor, OEM hardware, mid-market solution provider and virtualization. Gold partner status is reached by only one percent of all registered Microsoft partners worldwide as they have to demonstrate exceptionally high standards in their implemented projects, in the skills, experience and qualifications gained by relevant staff, and in Microsoft's product tests. These five awards recognize the Company's expertise in designing and implementing server platforms and infrastructure. Managing director Katharina Geutebrück is



Katharina Geutebrück

delighted: "Microsoft is acknowledging not only our expert professional project advice in the innovative IT field, but also our high performance and exceptional commitment."

carmen.lahr@geutebrueck.com

Lagercrantz Acquires Idesco Oy

Lagercrantz Group has acquired over 90% of the shares in the Finnish company Idesco Oy. Idesco develops and sells products based on RFID technology (Radio Frequency Identification). The company is the market leader in Finland within access control products for high-security, industrial and commercial properties and is also active in areas such as industrial identification solutions. Idesco has its

headquarters in Oulu, Finland and has sales companies in Sweden and the UK. Jörgen Wigh, President and CEO of Lagercrantz Group, commented: "Idesco will become an important addition to our Electronics division. Idesco has a strong domestic market position and we aim to further expand geographically and into the application fields outside access control."

www.idesco.com

Allan Lee New President of Messo Technologies

Messo Technologies announced that Steve Yang has resigned President after he led the Company for five years. Chairman Allan Lee will succeed Yang and serve as the Company's new President concurrently. Allan Lee has an extensive experience and leadership in the video surveillance

industry at the top senior position. As the Company's Chairman, Lee has been dedicated in building the brand by persistently focusing on product and service innovation to offer the topmost product performance and reliability to customers worldwide.

www.messo.com

Good Results at the Close of Sicur 2012

This year's edition of Sicur, organised by Ifema, brought together the products of 1,233 companies, 524 of which participated directly, and was visited by 38,840 professionals. An important feature was the event's international nature, both from the point of view of those taking part, where the international presence accounted for 35%, with the direct presence of companies from 21 countries, and from the point of view of foreign visitors registered, involving 2,872 professionals from 80 countries. The largest number of visitors corresponded to Italy, France, the

United Kingdom and Germany. Another particularly important feature of this year's event was the presence of a group of 60 professionals from Russia; 30 from the United States, and a notable increase in visitors from India, Korea and Kuwait. The Sicur Forum program of conferences, taking place over the four days of the fair, brought together 900 attendees, and the Brokerage Event involved 120 organizations and generated more than 200 job interviews designed for the transfer of technology in security.

www.sicur.ifema.es

Milestone: Michael Flanagan Director of Global Support

Milestone Systems has hired a Director of Global Support. He will scale out the Company's support capability for its worldwide channel to provide more self-sufficiency, flexibility, and predictability - with the ultimate goal of optimal partner and customer satisfaction. The Company continues to achieve strong growth in the fast-growing sector of IP video surveillance, and this includes increasing numbers of installing partners along with ongoing development of Milestone Xprotect VMS. This creates demands for flexible support options that are better tailored to each partner's various needs. To manage this, the manufacturer has hired a competent and experienced director who brings more than 20 years of interna-



tional skills from the engineering and IT industries. Michael A. Flanagan is now Director of Global Support at Milestone Systems, ready to deliver technical assistance to Milestone's authorized and certified partners in more than 115 countries.

www.milestonesys.com

New EMEA Managing Director for Apollo Fire Detectors

Warren Rees has been appointed by Apollo Fire Detectors as Managing Director with regional responsibility for Europe, the Middle East and Africa (EMEA). Warren will work under previous MD Danny Burns, who is now Divisional Managing Director for the Apollo global group of companies with offices in the UK, USA and China. Warren, who joins the Company from sister Halma company Crowcon Detection Instruments, is a graduate in Applied Mathematics with extensive experience of both successful business management and the fire industry. He has previously held the position of Managing Director at Fire



Fighting Enterprises, and before that at Cerberus UK - where he first encountered Apollo in a professional environment, as a competitor.

www.apollo-fire.co.uk

UK: Decrease in Cash-in-transit Attacks

The continued partnership between government, the security industry and its customers has led to a 39% decrease in the number of attacks on cash-in-transit couriers in the UK in the past year, the latest British Security Industry Association statistics have revealed. Statistics published this month by the association's cash-in-transit intelligence service, Safercash, show a marked downturn in the number of attacks, from 751 in 2010 to 460 in 2011. However, with criminals' modus operandi constantly evolving, the BSIA says that the in-

dustry, Government and Police must continue to work together to remain one step ahead of the criminal in order to protect more cash-in-transit couriers from falling victim to such attacks. Support from the judiciary is also an essential part of this work, and in 2011, approximately 950 years of custodial sentences were handed down for cash-in-transit offences dating back as far as 2009, with 19 offenders receiving sentences in excess of ten years.

www.bsia.co.uk/cash-and-valuables-in-transit

Arecont Vision Sustains Double Digit Growth

Arecont Vision continues to post double digit sales growth with its innovative line of megapixel imaging systems. The Company recorded 25.5% increase in revenues up from 51M US-\$ in 2010 to 64M US-\$ in 2011 in its audited financial results. The company has achieved this growth by its continued focus on developing superior megapixel imaging solutions for mainstream video surveillance applications. „Arecont Vision's growth over the past nine years is a result of

our unique focus on designing and manufacturing innovative megapixel imaging solutions that deliver the highest performance and high quality at a great price point," said Michael Kaplinsky, CEO. „Our continued expansion both domestically and globally reflects the growing popularity of our unique product line that stems from our pioneering approach to megapixel surveillance, years of innovation and customer focus."

www.arecont-vision.com

Gunnebo Appoints New CFO and CIO

Bernt Ingman has been appointed new CFO and CIO (acting) for the Gunnebo Security Group. He succeeds Fredrik Östman, who has decided to leave the position as CFO and pursue new challenges outside the Group. Bernt Ingman took up

the position as of March 1, 2012. Bernt Ingman has held the position as CFO at Husqvarna for six years. Before that he has among others held the position as CFO within Munters.

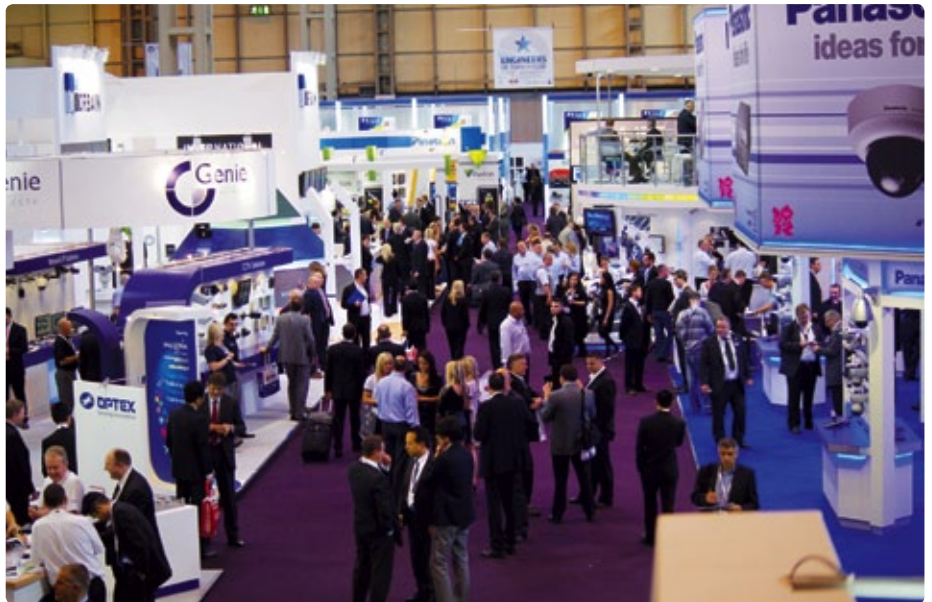
www.gunnebo.com

EVENT

Security Solutions and Best Practice

IFSEC International 2012 in Birmingham

Acting as a barometer for the security industry for nearly 40 years, IFSEC is the world's largest annual fire and security event, bringing together over 25,000 security professionals from over 100 countries. Taking place 14–17 May 2012 at the NEC in Birmingham, IFSEC represents the entire buying chain; from manufacturers and distributors, to installers, integrators, consultants and those responsible for security management within their organisation.



More Education in 2012

This year, IFSEC International's new Security Management Education Theatre will help you manage both your organisation's security risks and clients' sites and keep ahead of criminals. Created for all those responsible for managing the security of their organisation, including facilities, estate and building managers, as well as property owners themselves, the new education programme will provide technology updates, improved solutions to protect inside and outside threats, delivering ROI and personal development. But there is more education planned at IFSEC 2012:

- Next Generation CCTV & Surveillance Education Theatre, produced in association with Digital Grape, will address future technologies within this topical area of commercial security.
- IFSEC International Centre Stage brings together leading associations and industry figures to present and debate topics dominating the security industry in 2012 and beyond. Topics to be discussed and debated are varied and wide-ranging, and include: the 2012 Olympic and Paralympic Games, solutions models for security guarding procurement and management, the future of law enforcement, convergence and the future of security, the alarms standard PD6662: 2010, PSIM, security management training, lone worker protection, CCTV standards, security benchmarking and commercial and criminal investigations.
- info4fire.com Learning Zone - a must for anyone currently involved in or looking to install, design and distribute fire safety solutions.
- The Tavcom Training Theatre offers visitors a free and highly interactive experience. Educational content this year will cover "How CCTV can be more effective" and "Can modern technology work for my company".
- Lone Worker Protection Education Theatre provides an insight into best practice and solutions to protect any lone worker.

Supporting the theme of protecting your employees, IFSEC International will also showcase its first ever Lone Worker Protection Product Area this year to support and protect the UK's 8 million lone workers. Sponsored by Connexion2, the product area will showcase the latest risk control measures and device-based solutions for protecting lone workers and help minimise the risks they face on a daily basis.

IP Solutions

The convergence of data and telecommunications over Internet Protocol (IP)-based networks





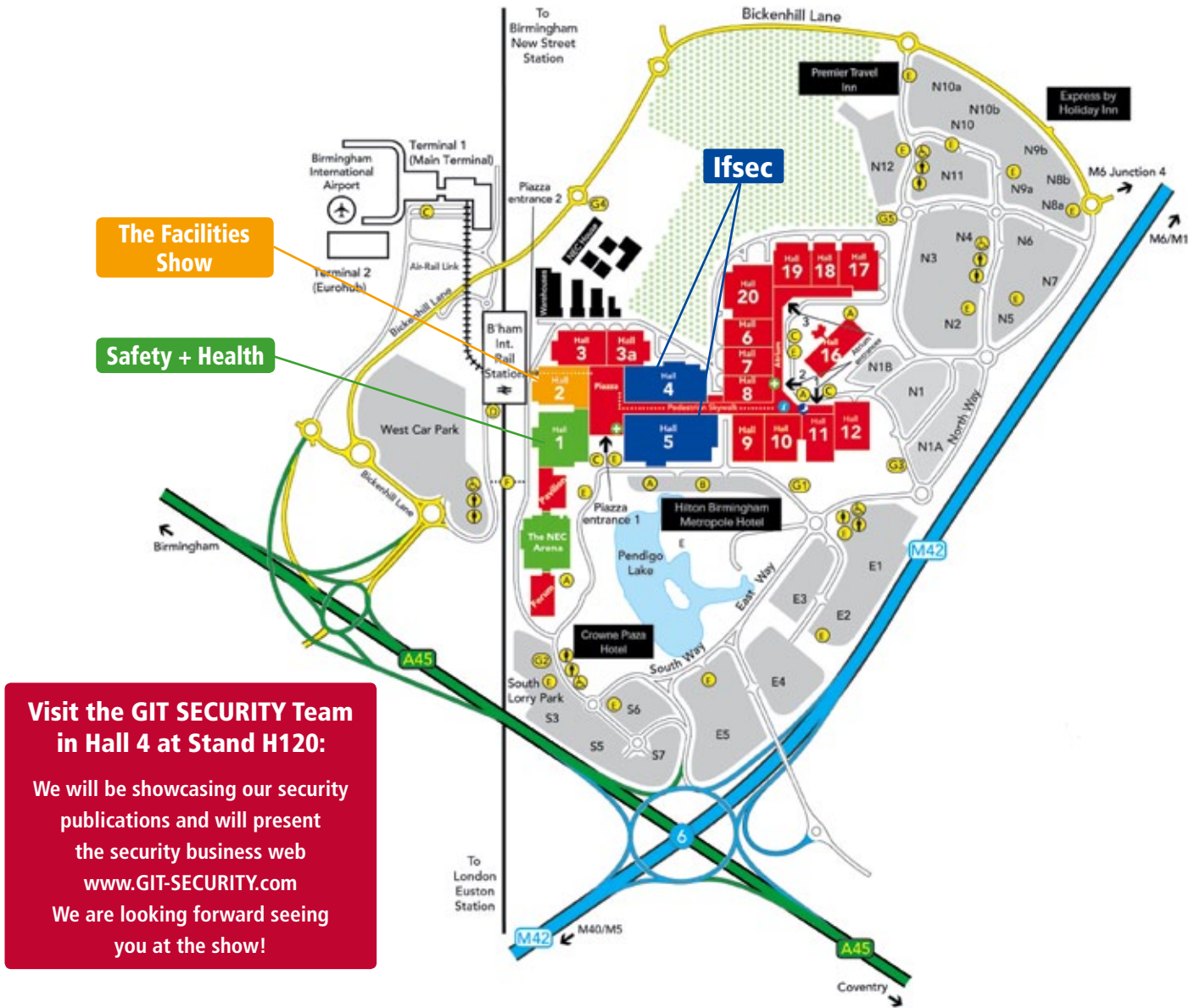
It's the **all-in-one**
megapixel solution... **for all.**

Our new MegaView™ Series Megapixel Cameras bring mainstream video surveillance applications clearly into view. Arecont Vision's all-in-one design combines the outstanding resolution of megapixel imaging with the efficiency of H.264 compression, IR LED Array Illumination with Day/Night operation for use in complete darkness, and weatherproof IP66 rated, vandal resistant bullet-style housings. Plus all the performance features you demand like programmable motion detection, privacy masking, unrestricted image cropping and so much more. Available in four sensor types, the MegaView™ Series cameras are made in the USA and include the 1.3-megapixel AV1125, 1080p AV2125, 3-megapixel AV3125 and 5-megapixel AV5125. They're the all-in-one megapixel solutions for all.

 **Arecont Vision**
megapixel technology...
beyond imagination

+49 (2045) 41337-23
dach.sales@arecontvision.com
arecontvision.com

MADE IN THE USA



Visit the GIT SECURITY Team in Hall 4 at Stand H120:

We will be showcasing our security publications and will present the security business web www.GIT-SECURITY.com
We are looking forward seeing you at the show!

now brings IT and physical security closer than ever. At IFSEC 2012, the brand new ipAssured Zone will help end-users and the channel alike, to better understand IP and the impact it is having on their customers' business today and in the future. This exciting new feature area will comprise of an engaging mix of educational workshops and sharing of best practice.

Anixter will be introducing the latest version of its programme that applies the same technology-driven, standards-based and Best Practice approach to video surveillance. ipAssured Defining Network Video Migration supports current and future video surveillance applications, pairing technology to establish the best migration strategy.

Samsung will be dedicated to demonstrating its ability to support installers and system integrators with Smarter Security solutions. A key objective for Samsung during IFSEC 2012 will be to take the mystery out of installing an IP and network solution and by doing so, demonstrate to customers that with the correct advice and guidance, they need not have any fear of embracing what is truly an exciting technology that offers so many benefits. Not the least of these

benefits is the opportunity to gain maximum advantage from the latest HD megapixel cameras.

Intelligent Integration

While a greater emphasis is being placed on IP solutions, there are also many legacy systems and businesses that are integrating both analogue and IP technologies; to manage investment and facilitate current systems to create hybrid solutions. Continuing the focus on hybrid solutions, ISM (Integrated Security Management) will once again be sponsoring and providing expert insight and advice at the Intelligent Integration Zone. Visitors will be able learn and see where they and their business can benefit from creating multi product hybrid solutions and what integration capabilities will help their business security and business management.

Surveillance

With 57 percent of visitors to IFSEC 2011 expressing interest in CCTV installation and 47 percent interested in CCTV monitoring, the brand new How Lighting Affects Surveillance – Demonstration Area will feature at IFSEC 2012. This product area will demonstrate how differ-

ent lighting conditions affect surveillance from low lighting/ambient conditions to complete darkness. It will highlight the difficulties faced and provide effective solutions through IR Illumination, thermal and night-vision technologies.

Fire Solutions at IFSEC International

IFSEC International is set to introduce the largest ever Fire Solutions area at the 2012 event (<http://www.ifsec.co.uk/fire>) attracting industry heavyweights from across the UK and international fire markets including C-TEC; manufacturers of quality life safety electronic equipment and Apollo Fire Detectors, the largest independent smoke detector manufacturer in the world; present the latest in fire safety technology.

IFSEC Connections

2012 will see the launch of IFSEC Connections – the show's first high-level one-to-one meetings service for its senior-level community. Re-defining the business value of trade show meetings, IFSEC Connections provides the perfect opportunity for buyers involved in or planning projects to discuss products and systems on both a technical and strategic level with solution providers.



Ultimately, this allows them to make informed procurement decisions through the specification and quote stages of the intended project.

New Product Innovation Showcase

A key feature at IFSEC International 2012 will be the New Product Innovation Showcase which will provide exhibitors with the perfect platform to highlight new products and solutions. With 67 percent of visitors citing the sourcing of new products and/or suppliers as an important expectation of the show, this new feature will help visitors easily identify the latest innovations. Ninety percent of IFSEC International 2011 visitors found new products or suppliers they had not previously considered using, which makes the 2012 innovation showcase area a must for exhibitors keen to launch products to market.

Physical security forms the first key layer of a holistic approach to security and IFSEC International's Physical Security Product Area will allow visitors to see a range of products in physical security, such as perimeter protection, locking systems, safes and more.

Electronic security solutions bring an additional layer of security to a construction site. The Access Control Product Area which will allow delegates to identify and compare a range of integrated access control systems, readers, controllers and software systems. Sponsored by access control experts ASSA Abloy, this show feature will bring together many of the world's leading companies including ievco, Gallagher, Kaba, TDSi, Paxton Access, Salto Systems and HID – all set to showcase the industry's latest innovations.

Safety & Health Expo 2012

In the middle of hall where the Safety & Health Expo is co-located to IFSEC, visitors will find the SHP Legal arena that will provide three days of free legal advice from many of the UK's leading solicitors. The SHP Legal Arena returns for 2012 with a packed programme of sessions aimed at keeping safety and health practitioners up to date with the most topical regulatory issues of the day. Opening-day highlights include sessions on the impact of the Government-commissioned Löfstedt review of health and safety regulations; the HSE's new regime for charging duty-holders for enforcement action; and how to deal with both genuine and bogus personal-injury claims.

Day two kicks off with a look at some of the more recent "landmark" health and safety cases, and precedes presentations on why more individuals are finding themselves in the dock, and the growing trend for higher penalties and fines.

The third and final day offers visitors the chance to find out why some companies are avoiding prosecution by declaring themselves bust; and hear about new measures to help businesses challenge 'over-the-top' advice from health and safety inspectors.

▶ CONTACT

UBM Information Ltd., Tonbridge, UK
Peter Poole, Event Manager
Tel.: +44 20 7921 8284 · Fax: +44 7824 417913
peter.poole@ubm.com · www.ifsec.co.uk



TRUE DAY/NIGHT

HD-IR CAMERA

With unique
IR lighting concept



- 5-megapixel CMOS image sensor with **CamInPIX**® technology
- Automatic Day/Night switching supported by integrated ambient light sensing
- Homogeneous IR illumination by high power LEDs
- Minimum illumination 0 lux
- Megapixel varifocal lens (Day/Night): F1.0 / 2.8 – 11 mm
- Frame rate up to 30 fps
- ONVIF compliant
- Voltage supply via PoE (Class 0)



Dallmeier

www.dallmeier.com

GIT SECURITY AWARD 2012

2012 Winners

The Award Winners of the 2012 GIT SECURITY AWARDS

In the January 2012 edition we introduced to you all the winning products of the 2012 GIT SECURITY AWARDS. Now we show you some of the people who are behind all these products: Founders, inventors, developers, marketers. You, dear reader, made them happy with your vote.



Looks good at the welcome desk at trade show booths: GIT SECURITY AWARD trophy



Christian Werner (r) received the award for Samsung in the halls of Wiley and GIT VERLAG by **Dr. Heiko Baumgartner**



Jeremy Kimber is Marketing Leader EMEA at Honeywell Security – and proud to be a GIT SECURITY AWARD winner



Already won several prizes for their super lamps "Led Lenser": Nevertheless **Brigitte Pautzke** (center) and **Annabelle Schleder** (r) are still delighted



Made in Germany and place number one: **Georg Martin, Christina Senninger** and **Dieter Dallmeier** in the production division



„Mister Q“ of Axis: **Kent Fransson** (r), here with **Dr. Heiko Baumgartner** – Axis received an award for Q1602-E network camera

Since May 2nd 2012 companies can again submit products and solutions that will be judged during this year and may win the 2012 GIT SECURITY AWARD 2012 at the end of 2012, beginning of 2013.

Participation conditions and registration: see www.PRO-4-PRO.com/go/GSA2013



Wolfgang Unger (l) is one of the masterminds in LSN loop technology for voice alarm systems by Novar, Esser by Honeywell



Delighted, too – because of the winning Q1602-E network cam: **Dirk Schiller** and **Sona Pauvertova**



Richard Bramham (center) and **Dan Burton** (r) from Apollo received their GIT SECURITY AWARD at Intersec in Dubai



Hosted a big company event because they are winners in even two categories: **Gerhard Mutter** (2nd fr. left), **Matthias Mezger** (3rd fr. left) from Sick AG, here with **Regina Berg-Jauernig** and **Dr. Heiko Baumgartner**



Their baby has won: Developing engineers **Ingo Pooch** (center) and **Dr. Stefan Barten** (r) receiving their GIT SECURITY AWARD in the famous "Draeger Museum" in Luebeck – for gas detector X-zone 5000



Honeywell Security visiting GIT VERLAG in Weinheim: **Stephan Winkelmann** (l) is happy to win with "Day Alarm-Plus", here with **Steffen Ebert**



„Winner!": once more **Dan Burton** from Apollo – so beautiful



Andreas Seltmann (center) and **Christian Rudolph** (r) are happy to win with smoke detector radio module for Genius Hx



Bosch Blue Line Detector wins – **Hanno Vogels** (2nd fr. left), **Olaf Zeissig** (4th fr. left) and **Erika Goerge** (r) happy at Intersec in Dubai

IP & Fiber Transmission Hardware

AFI has introduced a host of IP and fiber transmission solutions. The hardware includes additions to the Company's line of switchers, transceivers, multiplexers and other network communications devices. "Expanding our lineup of IP and fiber transmission solutions enables us to reach out to a wider market with cost effective, innovative products," said Jack Fernandes, President and CEO. The AFI Series USB 2.0 allows any USB 2.0 device to be transmitted through a fiber cable network. The Series 89C-GE provides a completely transparent interface to allow Command GE Series Intercom hardware

to be fully integrated to a multimode or single mode cable infrastructure. The AFI Series 89A-IS enables seamless transparent interface between the Aiphone IP intercom, and a multimode or single mode fiber optic network. MX6p and MX6p-POE Series are six port Ethernet switchers with four copper triple (101/100/1000) speed ports and two SFP gig ports for trunking. The Net I/O 121 Series provides a contact closure/data channel solution offering twelve contact closures and a multi-protocol data channel.

sales@americanfibertek.com

► Ifsec · Hall 5 · Stand C60

Smarter Security

Samsung has announced that its stand in hall 5 at Ifsec 2012 will be dedicated to demonstrating its ability to support installers and system integrators with Smarter Security solutions. "Smarter Security is primarily about how customers can upgrade from an analogue system to an IP and network based solution in the smartest possible way for their businesses with the help of Samsung," said Simon Shawley, General Manager, UK and Ireland for Samsung Technwin Europe. "We want to prove to installers and systems integrators, as well as specifiers and end-users, how they can choose Samsung IP equipment and be confident it will meet, if not exceed, their expectations." A key objective for the Company dur-



ing Ifsec 2012 will be "to take the mystery out of installing an IP and network solution and by doing so, demonstrate to customers that with the correct advice and guidance, they need not have any fear of embracing what is truly an exciting technology that offers so many benefits."

STEscurity@samsung.com

► Ifsec · Hall 5 · Stand D130

High Definition IP Fixed Domes

Indigovision boosts its top end 11,000 range of High Definition cameras with the launch of new IP fixed domes. High Definition cameras are useful in situations where the clarity of images captured is vital. In casinos, for example, it is essential that every detail of action on the gaming tables can be seen at all times. Crystal-sharp images, even in zoomed images, allow management to investigate customer complaints and to identify and prosecute incidents of fraud and cheating. The manufacturer's Fixed Dome provides high image quality under any lighting condition and comes full duplex, synchronized audio. The camera will



be offered in three versions – Internal, Vandal Resistant and Environmental Vandal Resistant (capable of operating at extreme temperatures), each available with standard or telephoto lenses.

www.indigovision.com

► Ifsec · Hall 4 · Stand D20

Entry-level IP Solution

Axis Communications announced its Camera Companion, an entry-level IP video solution for small installations. Consisting of a free software client and network cameras or video encoders with SD-card support, the solution is designed for systems from 1 to 16 cameras. It is suited for retail stores, offices, hotels or other small businesses that need easy-to-use and future-proof video surveillance with HDTV quality. "While network video is increasingly replacing analog technology in larger installations, smaller video systems still rely heavily on analog cameras and DVRs," says Peter Friberg, the manufacturer's Director of System



and Services. "Since Axis Camera Companion records all video in the cameras or encoders, the solution becomes very simple, reliable and cost-effective. Now even small business owners can enjoy the benefits of network video, such as excellent HDTV image quality, remote access to video and scalability," he adds.

www.axis.com

► Ifsec · Hall 5 · Stand E62

Unified Web Client

Genetec announced the availability of its unified web client for Security Center. It is part of the Security Center Mobile 3.0 feature and allows customers to connect back to their platform to view video, control PTZ cameras, configure aspects of their access control and license plate recognition (LPR) systems, and run reports from the most web browsers. The unified web client is a thin client so customers have nothing to download before they connect to the security platform. Instead, users simply require a link to the mo-

bile server hosting the web pages. This allows the web client to be a one-of-a-kind platform-independent interface; users can access the web client from browsers running within Microsoft Windows, Apple iOS, Linux, RIM BlackBerry, and Android operating environments. Some of the more popular browsers that support the web client include Microsoft Internet Explorer, Mozilla Firefox, Google Chrome, Apple Safari, and Opera.

www.genetec.com

► Ifsec · Hall 4 · Stand C30

Professional Network Installations

Samsung has strengthened its range of IP and network video surveillance solutions with the introduction of six new cameras which utilize Wisenets, the manufacturer's latest Digital Signal Processor (DSP) chipset specifically designed for its VGA resolution IP cameras. Features are a third generation Super Noise Reduction (SSNR11) and Super Dynamic Range (SSDR), and the chipset equips each of the compact Onvif compliant VGA cameras with a long list of features which offer real life benefits to users, including simultaneous multi-streaming of video at up to 30 frames per second with a choice of MJPEG or bandwidth friendly H.264 compression methods, Power over Ethernet (PoE) operation and polygo-



nal privacy masking. In addition to standard motion detection, all cameras also have built-in face detection, which can identify the presence of human faces and alert operators in a number of ways, including via e-mail. This feature can also be set on a schedule by days of the week and will even detect faces present behind polygonal privacy masks.

STEscurity@samsung.com

► Ifsec · Hall 5 · Stand D130

APPLY

RIGHT NOW

DEADLINE

JULY 9, 2012

GIT
SECURITY
AWARD
2013
WINNER

GIT VERLAG

The Categories

A – Safe Automation

B – Fire and Explosion Protection,
Industrial Safety

C – CCTV

D – Access Control, Intruder Alarm,
Perimeter Protection

E – Safety and Security Management

Participation conditions and Registration:
www.PRO-4-PRO.com/go/GSA2013



GIT VERLAG



TRADE SHOW

Bullish at the Fiera

Preparations Well Underway for Sicurezza 2012

Today the market is already displaying significant signs of confidence, seven months before the next edition starts. Not only have a large number of exhibitors already confirmed their attendance, but the network of partners supporting the event is gaining force as proof of its value for the entire sector.

„Although influenced by a complex economic scenario that inevitably impacted the size of the exhibition, the 2010 edition was a big success in terms of visitors and satisfaction of the attendees. This result is our starting point for this edition. Our goal is to make Sicurezza grow and turn it into an industrial policy tool serving the market that it represents,” stated Giuseppe Garri, Technology Business Unit Manager of Fiera Milano. „The keywords of the event will be innovation, technological convergence, professional training and awareness. The many partners that have accepted our proposal to work as a system by sharing professional expertise, knowledge and experiences, all to the benefit of the sector’s growth, are supporting us in our pursuit of this goal. I am convinced that this precious contribution, together with what the companies attending have to offer, will help us build an event with broad appeal for visiting professionals, offering tailor-made solutions for each and every one.”

Knowledge and Training

Sicurezza has proven to be the sector’s key event in Italy, not only because it keeps professionals up-to-date on a variety of products and services but also because it is a place where public and private sectors meet and „security awareness” is promoted. This has been made possible by many partnerships with the leading players in the industry: associations, the media and institutions.

The major industry associations – ANIE Sicurezza (Italian Association for Security, Fire Safety and Building Automation), Assosicurezza (Italian Association of Security Systems Manu-

facturers and Distributors), ANVU (Professional Association of Italian Local Police Officers) and Assiv (Italian Security Association), to mention just a few – will seize the opportunity this event offers to take stock of the topics of greatest interest regarding manufacturers, installers, law enforcement agencies and security services.

The strategic partnership with the United Nations Interregional Crime and Justice Research Institute (UNICRI), involved in strengthening security at high-risk sites, is also being renewed. This cooperation will bring Fiera Milano an international event that will create a forum for institution representatives (international and domestic), security managers at high-risk sites and suppliers of products and solutions.

Pressing Appointment

Some of the leading Italian trade media have also selected Sicurezza as a partner and ideal location for gaining in-depth knowledge and exchanging information. In collaboration with the Federprivacy association, the Antifurtoecurezza (EPC Periodici) magazine will organize the „Security and Privacy conference: how to balance needs, projects and installations with current standards and regulations”. The event is devoted to all security professionals who tackle privacy problems and assurance on a daily basis. A special Q&A session during which experts will answer the participants’ questions and queries is scheduled during the conference.

The “IP Security Forum”, an event organized by Ethos Media Group, the publisher of A&S Italy, will focus attention on IP and on the enormous benefit of integration. The forum centers on IP Security solutions, technologies and applications and, for the first time, is part of Sicurezza. After being held previously at three local venues in Bologna, Bari and Turin, the IP Security Forum will be held on 8 November at Fiera Milano. It will offer installers and engineers interested in the potentials and advantages of an innovative technological approach – today a

SICUREZZA 2012
Fiera Milano (Rho) 7-9 NOVEMBER

Italy’s key international event in the security sector, Sicurezza 2012 will be held 7–9 November at Fiera Milano. It covers all areas of interest to professionals in anti-intrusion, fire prevention, passive defense systems, home & building automation, ICT security, intelligence and anti-terrorism, local police force and private security.

reality in Europe – a training and professional update opportunity.

Securindex will be on hand with its set for online TV streaming and will present a new conference/exhibition format focused on the topic of „Money Security”. With the contribution of OSSIF – the ABI (Italian Banking Association) Anticrime Research Centre –, F.A.B.I. (Independent Federation of Italian Bank Workers), ASSOVALORI (Value Transport Companies Professional Association and specialized manufacturers’ associations), the effects of limiting the use of cash, the evolution of cash treatment and security systems for mass distribution and retail and how the banking industry is changing will be discussed.

The Sicurezza-Gruppo Il Sole 24 Ore magazine will organize the “Sicurezza urbana: il modello di Milano” („City safety: the Milan model”) conference during the exhibition. By focusing on the specific local situation of Milan, the purpose of this conference is to offer a cross-section of the fight against petty crime and serious crime in Italy. It is an opportunity to involve local Milan authorities, the local police force, the public prosecutor’s office and some of the leading manufacturers of video devices.

Exhibition Synergies

In 2012 Sicurezza once again takes place at the same time as Lift – the biennial international exhibition of elevators, components, accessories, technical press and services – thereby increasing the attendance of specific targets (condominium managers, architects, designers) interested in both types of solutions on display.

► CONTACT

Emanuela Crivelli

Fiera Milano SpA

Tel.: +39 02 4997 6255 · Fax: +39 02 4997 6252

emanuela.crivelli@fieramilano.it

www.sicurezza.it

Advantage Line

The choice you always wanted



Bosch Security Systems extends its video portfolio with an all new affordable product range. Finally, everyone can afford the best! The Bosch small business portfolio of professional CCTV solutions is now available. Delivering reliable, long-lasting performance at a competitive price, Bosch small business products combine great image quality with the lowest maintenance needs. They are also easy to install and operate, ensuring fast, simple set-up to save you time, effort and costs. Bosch small business products are perfect for a broad range of applications such as small businesses, retail and schools. So don't delay, visit your local distributor today! www.boschsecurity.com



BOSCH
Invented for life

Deutsche Lufthansa AG is one of the world's largest corporate groups in the civil aviation industry. The Group evolved in the mid 1990's from the scheduled airline operating under the Lufthansa trade name. As a scheduled passenger airline, it continues to be operated by Deutsche Lufthansa AG, which acts as both the sole owner and parent company of today's Group. This, Germany's largest airline, is characterised within the Group as Lufthansa Passage Airlines. In 1994, the cargo business was transferred to the subsidiary company, Lufthansa Cargo AG, while aircraft maintenance was transferred to Lufthansa Technik AG. Catering is similarly provided by the Group's own LSG Lufthansa Service Holding AG, which operates under the trade name of LSG Sky Chefs. Deutsche Lufthansa AG is the initiator and founding member of Star Alliance, the world's largest airline alliance. As a highly diversified aviation group, scheduled air traffic remains Deutsche Lufthansa AG's main business area. Among the Group's many subsidiary companies and subcontractors are SWISS, Austrian Airlines and British Midland Airways. Our Editor Heiner Jerofsky, has met Deutsche Lufthansa AG's Head of Corporate Security, Peter Andres, at Frankfurt's Rhein-Main Airport (Lufthansa's home airport) to discuss the responsibilities and safety strategies of a globally operating airline company.



Peter Andres,
Head of Corporate
Security Deutsche
Lufthansa AG

AIRPORT SECURITY

Safe Ground, Safe Air

Interview with Peter Andres of Deutsche Lufthansa AG

GIT SECURITY: The flight quality and reputation of an airline are directly linked to the concept of security. These high standards apply not only to aircraft, but also to the buildings and systems at ground level. This demands great strategic and organisational effort. How is the Corporate Security division set up, both organisationally and in terms of employees, and how would you define the Group's security objectives?

P. Andres: Lufthansa employs approximately 50 members of staff to look after corporate security – these are more or less equally divided between “traditional areas” of security and the “special area” of aviation security, which demands considerable attention thanks to extensive legislative activities alone. There are also additional security organisations within the subsidiary companies (e.g. Cargo) and Lufthansa's associated airlines (e.g. Swiss). Facility security in Frankfurt (as part of Shared Services)

and, of course, a variety of commissioned service providers complete the picture. The aims (unsurprisingly) are to protect Lufthansa's employees, guests and assets against criminal or terrorist activity. As a global player in the airline industry, we also want a hand in formulating legislation on aviation security and to be able to demonstrate our advisory competence for state actors.

One of the primary tasks of Lufthansa's Corporate Security division is to protect the company's entire business operations within the Lufthansa Group and to ensure the safety of passengers and personnel. Can you guide our readers through this mammoth task, using the example of the Rhein-Main Airport?

P. Andres: In Germany, legal responsibility for aviation security rests with the German Federal Government, the German states, airports and airlines. Duties within the terminals at Frankfurt Airport come first and foremost under the responsibility

of the German Federal Police and FRAPORT. But this airport is like a town in itself, which means the state police and state authorities, the airlines and customs have considerable responsibilities too. This is reflected in excellent cooperation between all security actors here on the ground.

The greatest threat to air traffic comes from terrorist attacks or hijacking. The security authorities and airport operators go to great lengths to prevent such crimes. How far can Lufthansa help to prevent, recognise and eliminate possible security lapses?

P. Andres: Huge efforts have been made to strengthen the security system in Europe and the USA. We see ourselves as part of this system and are involved in effectively implementing measures and bringing about ongoing improvement in these countries. It's more difficult in many other parts of the world, where we tend to find ourselves alone with our security values,

particularly in the airports. In many cases, it's there where we have to supplement available measures with our own activities.

The safety of all property, aircraft and technical equipment – including protection against general criminal activity and other risks – demands well-trained personnel and great technical effort. How do you manage to achieve continually high technical standards, and what qualifications do you require of your employees?

P. Andres: To some extent, we're lucky as our aircraft and systems are frequently located in airports – this means the responsibility for protecting them doesn't have to lie with Lufthansa. Even with cargo operations, we have a sophisticated technical security system to safeguard the large securities stored there.

The subject of aviation security extends across all logistical areas. Air freight handling, special cargo or dangerous goods, and the amount of freight allowed in passenger aircraft, as well as LSG air containers, demand the same care as passenger operations. How can these huge freight quantities be monitored, and what influence does your airline have on security measures for the storage, transport, handling and loading of its aircraft with freight?

P. Andres: The airline has overall legal responsibility for everything that's transported on board. In a personal union, Corporate Security also performs the security duties of Passage-Airline, which means we have to monitor our subsidiary companies (in particular, Cargo and LSG Catering) and other subcontractors respectively. Security regulations for the transport of air freight have been greatly increased in recent time. Appropriate implementation is currently one of the main issues for both ourselves and our security colleagues at LH-Cargo.

What responsibilities and interests does Lufthansa have in terms of guaranteeing and improving aviation security in collaboration with the aviation security authorities?

P. Andres: Collaboration with the authorities is a key responsibility. We have to be effective discussion partners, so that things progress beyond the drawing board. Unfortunately, it often happens that after an event, quick decisions are made and very inefficient "ad hoc measures" are introduced, which then tend to have a long life – take the liquids ban of 2006, for example. Keeping the implementation of legislation practical, while striving for efficiency and innovation, and not losing sight of the facility's competitive ability, require impetus from the airline from time to time ...

Of course, we're also responsible for implementing aviation security regulations via an au-



thority. Achieving this compliance is essential and one of our core tasks. For this reason, we've developed a sophisticated quality assurance system and occasionally face delivering unpleasant messages within the specialist fields of our Group.

The Aviation Security Act has the primary aim of preventing terrorist attacks. The Act authorises and obligates the aviation security authorities, airlines and airport operators to take certain security measures. What specific activities do you expect to see for your airline as a result of this Act, and do you still see this legislation as necessary, timely and adequate?

P. Andres: The stipulations of the Act are sensible. In particular, we're obligated to take certain security measures of our own and to safeguard several sensitive company areas according to the Act's special stipulations. However, it should be stated clearly that it is not only German law, but also European law that's of particular relevance to us. This is because the EU has acquired the regulatory powers for aviation security from EU-member states since 2002, and because the EU standards are directly applicable law in Germany.

For the layperson it's confusing that at airports so many organisations are involved: Ministries of economics, transport, finance and the interior; state and federal police; customs; the public order office; airport security and various private security service providers. What is the cooperation like and do you think this diverse responsibility is sensible, or can you envisage better solutions from the point of view of the airline?

P. Andres: I want to give you a simple answer: It actually works really well.

You are Deputy Chairman of the AEA (Association of European Airlines) and through this role are heavily involved in political work with the European authorities. Can you describe to us the main focus of this work?

P. Andres: Given how binding European legislation is for us, the work in Brussels is very important from our point of view. The complexity of decision making here is still many times greater than at national level, which is why it's important to constantly liaise with all stakeholders in

aviation security, and to keep a close track on the currently laborious and sometimes painful efforts to achieve compromise and progress.

How should readers understand your work as a member of the International Air Transport Association (IATA) within the "Security Executive Group"?

P. Andres: Because air traffic is a global industry, we also have security issues that require global solutions. The IATA is the mouthpiece of the industry, particularly with regard to the ICAO (the UN subsidiary organisation for civil air traffic), which has been advancing the global standard for air traffic safety since the 1950's. Unfortunately in the meantime, there are many cases of overlapping or conflicting security systems within individual countries. This is where we need to make sure we don't end up having to do everything twice, simply to satisfy the ideas of each regulatory authority.

You have been with Deutsche Lufthansa AG for more than 30 years and are familiar with the Group's development and air traffic trends. In your opinion, where do the strengths of this long-established company lie, and what private and professional aspirations do you have for the future?

P. Andres: It's sometimes difficult to talk about strengths, especially when you've been an enthusiastic member of an organisation for so long. If I'm to give you my take on it, I'd say that our strengths lie in being not only a long-established company, but also a very innovative and customer-oriented one. We make continual efforts to improve our efficiency while keeping track of economic targets, and last but not least, we're an organisation with a strong corporate culture.



Dipl.-Verw. Heiner Jerofsky



COVER STORY

Protecting Business Critical Data Centres

Zurich Airport Uses an Innovative Fire Extinguishing System from Tyco Fire & Integrated Solutions AG

Data centres and server rooms present particular challenges when it comes to installing a fire fighting system. In order to protect the expensive computer hardware and most importantly the valuable, non-recoverable data, highly specialised solutions are called for. Other factors also remain important, for example the reliable protection of human life; the impact on the climate and environment; the protection of physical assets and trouble-free, unflinching operation. It is for all of these reasons that Zurich Airport relies on the Inergen plus fire extinguishing system to protect the data centres at its head office in Naefels.

Award Winning Airport

Zurich airport is situated thirteen kilometres north of Zurich city centre in the district of Kloten and extends to four further districts. Approximately 1,500 people are employed by Flughafen Zurich AG, the owner and operator of the international airport at Zurich. In addition, more than 270 partner organisations, employing 25,000 staff, help to ensure that the airport runs smoothly. Within the airport travellers have a large selection of shops and restaurants available to them and the airport also has excellent connections to the Swiss transport system and is within convenient reach of train, bus, tram, and road networks. As a result Zurich is the largest airport in Switzerland and one of the most popular international distribution hubs.

Not only does Zurich Airport stand out because of its scale, it also has an outstanding international reputation. In 2009 it was voted the best airport in Europe in a survey of over eight million travellers and even came fourth in a worldwide survey. The airport has also received the "World Travel Award" in the category "Leading Airport in Europe" for seven consecutive years.

With such a large infrastructure and formidable reputation to maintain it was essential for Zurich Airport to protect its data centres with a state-of-the-art fire fighting system.

Highly Effective Fire Extinguishing System

To thoroughly protect the business critical data in the airport's three server rooms the specialists at Tyco Fire & Integrated Solutions chose to install the Inergen plus fire fighting system. A total of 38 extinguisher canisters are located on site in easily accessible places. The highly effective gaseous system works on the principle of replacing oxygen in the atmosphere with the agent Inergen – a mix of the naturally occurring inert gases nitrogen, argon and carbon dioxide. Inergen extinguishes fire by reducing the oxygen level in a room to 12.5%, at which point most combustibles will no longer burn, while increasing the carbon dioxide content to between 2 and 4%. The increase in the carbon dioxide content stimulates the uptake of oxygen by the human body so protecting anyone who might be trapped, unconscious or injured, from the effects of the lowered oxygen levels.



Infrastructures such as Zurich Airport are the arteries of the world and the neural pathways of our society. Without them a flourishing economy would not be possible. Photo: Flughafen Zurich AG

Zurich Airport has won multiple awards from "Europe's Leading Airport" and "Best Airport for Eating and Drinking" to the famous Swiss "Steel Construction Prize".

Photo: Flughafen Zurich AG



At the heart of the Inergen plus system is a tried and tested pressure regulating technology that offers a number of advantages. Inergen is stored in the extinguisher canisters at 300 bar, in order to reduce the high pressure when activated pressure control valves adjust the initial pressure which can be set to either to 24, 42 or a maximum of 60 bar, to match that required by the pipe network. The extinguishing gas can then flow out at a constant rate and pressure. As a result the pipe diameter, material thickness

and the pressure relieving surfaces can be sized more economically.

The Inergen plus extinguishing agent has a number of other field-proven benefits; the gas extinguishes the fire without leaving a residue or any corrosive by-products that could damage equipment in the server rooms, it does no harm to the environment, and it does not pose any risk to people present. Inergen does not produce fog when the gas is released ensuring that in an emergency escape routes are not obscured.

In summary, Inergen's many features that help to protect people, property and the environment proved to be a compelling combination for Zurich Airport.

▶ CONTACT

Sandra Parpan

Tyco Fire & Integrated Solutions, Näfels, Switzerland

Tel.: +41 55 618 4343

adtech.de@tycoint.com · www.tycoint.com

FIRE PROTECTION

On the Move

C-Tec Relocates to New Premises

Leading life-safety equipment manufacturer, C-Tec, has celebrated its 30th Anniversary by relocating to a magnificent new factory. Situated at the heart of Wigan's Challenge Way commercial district in the UK, C-Tec's state-of-the-art facility measures an impressive 75,000 sq ft (the size of three football pitches) and has been purposely equipped to set the stage for the next phase of the company's development.



The ground floor houses modern manufacturing, meeting, training and storage areas whilst the first floor is dedicated to office space. A custom-built glass staircase, clearly visible from the outside of the factory, links the two floors. A huge backlit C-Tec logo illuminates the spacious marble-tiled reception area and the external entrance to the building.

As one would expect, C-Tec's life-safety innovations feature prominently throughout the building. A powerful 4-loop ZFP touch-screen controlled analogue addressable fire panel links to over 200 C-Tec-manufactured loop sounder beacons and Apollo devices distributed around the site. The panel presents clear and constant feedback on all aspects of fire alarm activity via an intuitive touch-screen. A Quantec addressable call system provides alarm facilities in the marble-tiled disabled persons' toilets and also functions as a panic attack/door monitoring system in certain areas of the building so staff can sound an alarm should they encounter an intruder.

Enough Space for Training and Education

A significant amount of space has been dedicated to training rooms. Over 500 engineers were trained on C-Tec products last year and the company is renowned in the industry for its hands-on free-of-charge courses. Said Andy Green, C-Tec's Marketing Manager: "Our training sessions undoubtedly encourage customers to start installing our products and, as such, we have invested heavily in training facilities. The three new training rooms have been designed to facilitate many

different types of product training to suit the various new product lines C-Tec will be introducing over the coming months." Each room contains working demonstration boards of C-Tec's fire alarm control panels, call systems, power supplies and disabled refuge products. One-to-one training and product presentations are carried out in the meeting rooms adjacent to the training rooms. Two PDA200E induction loop amplifiers have been installed in each room to ensure that the sessions are accessible to the hard of hearing.

State-of-the-art Safety and Security Installations

With regards to external security, a high-tech CCTV/speaker system has been installed to assist the security guards who patrol the building and its grounds. A series of C-Tec's EN54-compliant power supplies control the internal security doors.

Current Building Regulations insist that all non-domestic buildings with more than one storey provide 'refuge' areas and a SigTel disabled refuge/emergency voice communication system has been installed to enable two-way communication between rescue teams and disabled people waiting in the refuge areas should an emergency situation arise.

One of SigNet's Integrity Voice Alarm systems has been connected to the ZFP fire alarm system, and will broadcast alert messages in the event of an emergency. The system also connects to the telephone system to allow members of staff to page individual messages throughout the building from their telephones. In addition,

Integrity stores a wide range of pre-recorded building-specific messages to help facilitate the smooth operation of the building. For example, staff in the collection area will be notified that a caller is waiting as soon as the button outside is pressed.

Said Andrew Foster, C-Tec's Managing Director: "Our magnificent new factory marks the beginning of a new era for C-Tec as we build on the successes of the last 30 years of manufacturing world-class life-safety equipment to venture into very exciting and previously uncharted territory. We intend to launch some highly innovative new product ranges which will dramatically enhance our status as one of the leading manufacturers of fire detection equipment. These are very exciting times indeed."

C-Tec's extensive range of fire alarm control panels, call systems, voice alarms and disability products, many of which are third-party approved, are currently protecting and improving the lives of thousands of people worldwide. The thriving business has been officially nominated as one of the UK's outstanding examples of manufacturing excellence in the Government's prestigious 'Made by Britain' initiative and its innovative Hush Button Fire Alarm Solution has also been hailed a remarkable success.

▶ CONTACT

Alexandra Makinson

C-Tec Ltd., Wigan, UK

Tel.: +44 1942 322744 · Fax: +44 1942 322744

www.c-tec.co.uk



Our 10 Year Product Guarantee provides a warranty on our products.

The guarantee supports our recommended working life of the product and endorses our commitment to providing reliable, quality fire detection products.

Our products save lives and protect property around the globe from the risk of fire - a huge responsibility and one we take very seriously.

trusted partnerships

Apollo Fire Detectors has specialised in the design and manufacture of high quality fire detection products since 1980.

Over the past 30 years Apollo has developed trusted partnerships with over 70 Panel Manufacturers who supply panels incorporating Apollo's open, digital protocol meaning the customer is free to choose different companies to service or maintain the system.

All Apollo products are forwards and backwards compatible, giving customers the added peace of mind that they will be able to source fire detectors that are compatible with their existing devices.

To further endorse Apollo's commitment to provide customers with a reliable, quality product, a 10 Year Product Guarantee is offered on all products.

When specifying a fire system, make **Apollo your partner of choice** – 100% reliable, 100% tested, 100% guaranteed.

winning performances



To find out how you can ensure a winning performance with Apollo Fire Detectors:

Email: trust@apollo-fire.co.uk

Phone: +44 (0)2392 492 412

www.apollo-fire.co.uk


apollo
WORLD CLASS FIRE SOLUTIONS

GAS DETECTION

It's **What's Inside** that Counts

Finding Hidden Savings During Challenging Economic Times



During economic downturns, every department is asked to save money to weather the storm until economic conditions improve. Personal Protective Equipment (PPE) departments are not usually exempt from cost-cutting measures. This article offers guidance regarding where to find savings within your gas detection instrument fleet without compromising safety or instrument performance.

The current financial crisis makes the job of safety and smart product purchases more difficult, as your PPE purchasing decisions could result in severe consequences. Cutting your budget may seem to be impossible, as you've turned every penny twice during the last cost-cutting round of choosing the most economical gas detectors. It's highly unlikely that a reduced number of gas detectors or new purchase delays will not produce a safety compromise!

The Best Detector

What makes one gas detector superior to another, and how can you purchase better-performing detectors and still save money? The answer lies in considering feature combinations such as battery technology, rugged instrument construction, ease of use (minimal required training), calibration and maintenance frequency, reliable software, and most importantly sensors, the core of gas detectors. A gas detector's primary task is straightforward: to detect and monitor specific gases and reliably alert users to the presence of

potentially hazardous gas concentrations. Regardless of other advantageous features offered by a given instrument, without superior sensor technology, finding reliable gas detection can be challenging. Most manufacturers use off-the-shelf sensors from known sensors suppliers. Critical performance factors such as response times, cross-sensitivity, and sensor lifespan are likely to lack sensor differentiation. However, even if you're able to find best-in-class gas detectors, price tags may make you consider buying two detectors instead with lower quality and performance. To resolve this dilemma, it is necessary perform a longterm cost-of-ownership calculation using what's inside as our main driver, the gas detection sensors.

Superior Sensors

Much has been said and written about the importance of loud alarms and robust instrument construction; for simplicity's sake let's focus on how sensors impact your long-term costs. Superior sensor technology not only offers great performance, but also cost-savings while enhancing safety. How? Great sensors offer better stability within challenging environmental conditions, faster response times, and longer expected sensor life. MSA's recent innovation in sensor design technology offer improved performance by embedding electronics inside sensors.

Embedded electronics convert typical analog signals to digital output, resulting in sensor noise control, reduced spikes, decreased RF interference, and end-of-sensor life forecast. Increased sensor stability means fewer false alarms and lower calibration frequency; this factor combined with end-of-sensor life forecast results in better planning and decreased down time. Superior sensor technology combined with well-designed software and instrument design enhances safety by offering more reliable performance. The actual cost of operation shutdown due to false alarms may be substantial and is often not sufficiently accounted for. So what are the tangible savings? Calculate your total costs over longer time periods as little is likely to change within the first two years; replacement components are generally covered by manufacturer warranties. Although most manufacturers offer two-year warranty, claims made within this period often have to be paid via prorated discounts for specific sensors or with new instruments to offset the used time within the warranty period. In addition, most manufacturers may also challenge your warranty claim's validity, citing instrument abuse or misuse. Reputable manufacturers, like MSA, typically provide replacement instruments or sensors with no questions asked.

Hidden Costs

The average lifespan of current-generation gas detectors is about four years or less, usually limited by sensor, electronics, and battery replacement costs. As an example, let's compare cost

Table 1: Instrument cost over 4 years

Instrument	Years of Service	List price	Warranty	Time to replace sensors (yrs)	Sensor replacement cost 4 yrs	Total Instruments required	Total Instruments x Price
MSA Altair 4X	4	900 €	4	4	0.00 €	4/4 = 1	1 x 900 = 900.00
Market Average	4	650 €	2	2	700.00 €	4/2 = 2	2 x 650 = 1300.00

Table 2: Gas costs over 4 years

Instrument	Regulator flow lpm	# gas tests/yr	Testing time (min)	Years of Service	Total gas required (L)	58 L Cylinder price (280Eur) x #cylinders	Total Gas Costs 4yrs
MSA Altair 4X	0.25	250	0.167	4	0.25 x 250 x 0.17 x 4 = 43 L	(43/58) x 280 = 280.00	280.00 €
Market Average	0.5	250	0.5	4	0.5 x 250 x 0.5 x 4 = 250 L	(250/58) x 280 = 1400.00	1,400.00 €

of ownership over four years, including cost of calibration gas and an average one-time sensor replacement. A four-gas diffusion gas detector costs about 650 €; replacement sensors could cost you more than the detector's initial purchase price as well as associated failure risks of other components for the following two years. So, after the first two years of warranty, it is probably more economical to purchase new detectors offering two full warranty years, leading to 1300 € total. Regulations require response tests to be done before each day's use to verify proper instrument operation; this process takes 30 up to 90 seconds, depending upon the test and manufacturer. Most manufacturers offer 0.5 lpm regulators, resulting in 0.5 lpm x 30 sec x 250 working days x four years = 250 liters of gas not including calibrations (Table 1).

If a quad-gas cylinder containing 58 liters costs 280 €, you'll need (250/58) five cylinders x 280 € = 1400 €. Total cost of ownership: 1300 + 1400 = 2700 € for one four-gas detector, excluding downtime and labor costs. Next, consider MSA's regulators of 0.25 lpm and T90 response times < 10 seconds for oxygen and combustible gas, < 15 seconds for CO and H₂S), and bump test times of less than 10 seconds. Using the same math, 0.25 x 10 sec x 250 x 4 = 42 liters allows us to purchase one cylinder for 280 €, a difference of 1120 € on calibration gas only (Table 2)!

MSA offers four-gas detectors for 900 € including four-year warranties, the result is 2700 - 1180 = 1520 € in savings for one detector. These savings don't even include probable reduced downtimes due to shorter test and calibration times, labor, and reduced operational delays due to false alarms caused by lesser sensors (Table 3).

Just imagine the savings for 10, or as with many larger facilities, hundreds of detectors! It really pays off to request additional details and insist upon instruments warranted for four years.

Other Areas for Savings

Newer rechargeable battery technologies such as lithium-ion have no significant memory effects, offer higher capacity, and are able to hold charge much more efficiently than previous rechargeable battery generations. Detectors can

Table 3: Total Savings over 4 years

Instrument	Instrument + Gas Cost 4 years	Savings with MSA Altair 4X
MSA Altair 4X	900 + 280 = 1180.00	1,520.00 €
Market Average	1300 + 1400 = 2700.00	-

be stored for months without depleting battery charge; runtimes of up to 25 hours have been reported for four-gas detectors. Improved battery performance may eliminate the need for additional alkaline batteries, easily saving you hundreds of Euros every year. Is instrument construction rugged enough to survive rough industrial use? Is instrument housing sufficiently dust- and water-tight to help prevent damage during outdoor use? An easy-to-operate instrument minimizes training needs for your personnel. Good instrument design and construction saves you significant cost and time over the years.

Conclusion

In economic downturns when every penny must be scrutinized before spending it, consider unconventional cost-savings areas without compromising safety. Long-term cost of ownership is often not reviewed carefully and typically costs much more than initial gas detector purchases. Choosing MSA's superior sensor technology and construction reduces your overall cost of ownership while increasing instrument performance and safety with faster response to gas hazards. MSA will provide you with guaranteed cost of ownership over four years and back our claims by offering extended warranties. It's unlikely that you can change the economy, but these considerations are very likely to impact how economic conditions affect your company and your profits.

▶ CONTACT

Petra Hauschild
MSA Auer GmbH, Berlin, Germany
Tel.: +49 30 6886 1400 · Fax: +49 30 688 1558
petra.hauschild@msa-europe.com · www.auer.de



SECURITY MANAGEMENT

Let the Ball Roll

Ukraine's EURO 2012 Stadiums Are Ready to Host Safe and Secure Matches

EURO 2012 is being played in Poland and the Ukraine from June 8 to July 1st. The tournament will feature sixteen of the best football teams in the World in competition for the Henri Delaunay Trophy awarded to the winner of the Euro Cup. Three months before the ball rolls, GIT SECURITY had the opportunity to get an exclusive tour to visit two of the EURO 2012 stadiums in Lviv and Kyiv and talk to officials, security officers and integrators about the preparations and security measurements in the stadiums.

NSK Olimpiyskiy Stadium: Tradition and Modern Security

The venues for the matches will be within host countries Poland and the Ukraine. All the stadiums belong to professional football clubs from the two countries and have a capacity between 32,400 and 83,000 people. While the smallest stadium for Euro 2012 is the Municipal Stadium in Lviv, which will host approximately 33,400 passionate fans, NSK Olimpiyskiy Stadium in Kyiv is by far the largest EURO 2012 stadium. The total arena capacity of 70,050 seats includes 64,119 standard seats, 3,546 business seats, 150 seats for disabled people plus 738 VIP seats in 39 sky boxes.

Stadium NSC „Olimpiyskiy” will host the EURO 2012 final and the closing ceremony and has a long tradition going back to the 1920's. The date of birth of the stadium is August 12, 1923 when the Red Stadium named after L. Trotsky hosted the first events of the First Kyiv Region Olympiad. In 1935 year a competition on “rising” the level of the Red Stadium was announced and a project of one young architect Mikhaylo Grechina became the winner.

The stadium was built in 1937 to 1941, but the stadium's opening, scheduled for June 1941, was postponed for 5 years due to World War 2. Since then the sport complex changed its name three times. In the 1940's and 1950's it had the name of Nikita Khrushchev before it was renamed to “Republican Stadium”. Since the Ukraine is an independent state, „Olimpiyskiy” was granted the status of the National Sports Complex (NSC).

The current renovation of the stadium is already the third one. In 1966 and 1967 the building was expanded and the second tier of the tribunes was completed. From 1978 to 1980 a major reconstruction was made to host football matches for the XXII Olympic Games.

Architecture

It has taken 38 months since the beginning of the stadium reconstruction in August 2008 before its grand opening in October 2011. NSC “Olimpiyskiy” is now a modern arena on the basis of the old building. The renovation project saved the existing authentic embankment of the lower tier and the reinforced second concrete

tier of the tribunes and connected the 80-year sports history of Ukraine with European experience and advanced technologies. The new arena will be used as a multifunctional sports arena for football matches and athletics competitions at international level. The modern face of the stadium will present a glass facade and a cover in the form of suspended hovel with a semitransparent synthetic membrane covering all the seats.

Modern Technology

The state enterprise NSC „Olimpiyskiy“ is responsible for the stadium and it was their demand that the complete infrastructure of the stadium meets the requirements of UEFA. For the safety and security of the stadium these requirements have led to a new security system including video surveillance, an increased number of entries to the stadium, new escape routes, a new evacuation scenario, an advanced access control system, a new sound system and a modern IT infrastructure.

It took enormous efforts to build the basis of the stadium:

- 118,836 cubic meters of concrete structures were arranged.
- Ten full days were necessary for the simultaneous lift of the 800 tons roof cabling system on the 80 axes by 160 powerful hydraulic jacks.
- 37,148 tons of metal roll were worked during the reconstruction time.
- 100 000 square meters of granite were used for the finishing of NSC and the surrounding area.
- 5825 trees were planted in the park zone.

To meet the UEFA requirements and to fit the needs of the local teams, the stadium has been equipped with state-of-the-art technology. We have taken a closer look at some of the components and solutions installed that are linked to the stadium's security and safety.

Communication and Sound System

Modern sports stadiums are multi-purpose venues, hosting concerts as well as sporting events. Security measures must therefore also include a professional sound system that is capable for high-quality music reproduction and is used for public address purposes. In case of emergency the system must be able to guide an evacuation. In Kyiv, loudspeaker systems by Electro Voice (EV) are used and the acoustic calculations of the stadium were made using software EASE from AFMG. Electro Voice's official distributor company Sound House Pro made the setup and fine tuning of the sound reinforcement complex using the hardware and software platform IRIS Net with support from the Electro-Voice's Tech Support team.

The Electro Voice equipment was chosen because of the outstanding sound characteristics of the general purpose sound system and the public address system according to the FIFA and

UEFA requirements. All the system components are working under the single software IRISNet that allows simple and visualized control over all the parameters and components of the sound system.



Maxime Soloviov, Head of IT at NSC "Olimpiyskiy" and Alexey Konichenko, Sound Engineer of Soundhouse Pro at the sound control room.

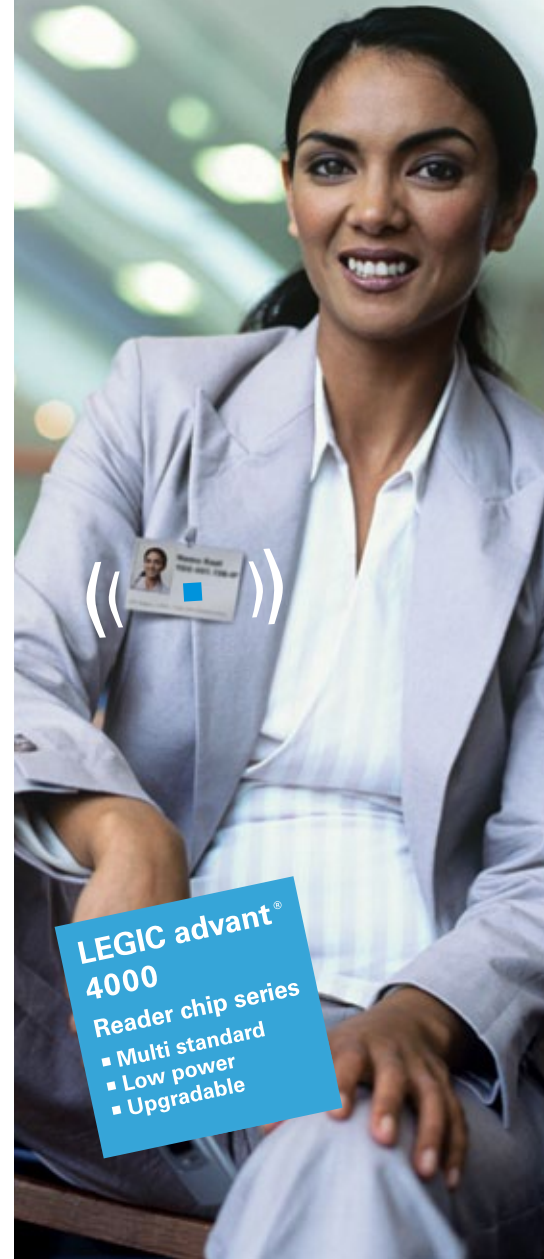
Integrator Transexpo, responsible for the integration of all electronic installations, pointed out that for all relevant sound and security systems, the ease-of-use was very important since the operators of the systems often change from one event hosted in the stadium to another. For the sound system for example it was crucial that the control user interface is simple and convenient to handle with a language selection option between Russian and Ukrainian.

The public address and evacuation system is managed in a special sound control room that has control over 36 Bosch Praesideo digital public address and emergency sound system units plus 160 loudspeakers from Bosch. Presetting programmed for various scenarios allow the operator in case of incidents and emergency to react very quickly and to launch an appropriate announcement via the system while the entertainment system is automatically paused.



At NSK Olimpiyskiy Stadium, EV-Innovation Series Speakers, EV CPS Power Amplifiers and EV N8000 Digital Matrix build the backbone of the sound system.

My Access to my Business.



LEGIC advant[®] 4000
Reader chip series

- Multi standard
- Low power
- Upgradable

Any service I can imagine, any security level I desire.

All on one chip. On the credential of my choice.

Contactless smart card technology: www.legic.com



Visit us at IFSEC Birmingham, hall 4 - booth B75

Video Surveillance System

To observe, anticipate and eliminate threats in a stadium, an integrated system combining video surveillance, access control, intrusion detection, evacuation and communication systems is crucial. In Kiev all the information is bundled in a modern IP system – one of the first IP video projects in the Ukraine – and displayed in eight control rooms that are linked together.

According to Maksym Stoyko, the responsible Country Manager from Bosch Security Systems Ukraine for the EURO 2012 stadiums, it was clear from the beginning, that an IP video system will be installed to secure Olimpiyskiy Stadium. The system was planned to deliver a maximum of flexibility, to integrate signals from access control and to allow a future update for HD video.

The UEFA requirements for the video system were clear: Any person in the stadium should be visible at anytime in all critical areas. The backbone of the video surveillance system is built by 400 Bosch Flexidome 2x IP NDN-498 day/night cameras equipped with progressive scan and wide dynamic range technology. The combination of 20-bit image processing and wide dynamic range technology provides a sharp and very detailed image with accuracy in color reproduction even under harsh lighting conditions. The cameras allow tri-streaming, dual H.264 and M-JPEG simultaneously.

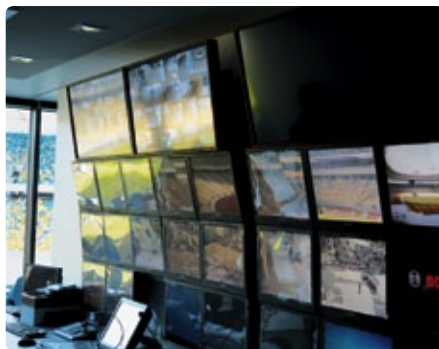
To secure the perimeter of the stadium 14 Bosch AutoDome outdoor PTZ cameras were installed. Very close to the supporters and possibly within their reach, Bosch has installed twenty vandal-resistant MIC 400 stainless steel cameras. The cameras have been designed to offer an extremely reliable, robust, and high quality surveillance solution for security applications that demand the very best performance, regardless of the installed environment.

All the video data is stored on Bosch NVR's (iSCSI storage) for three months and is accessible from all eight security control rooms. Managed by the latest version of Bosch's Vidos 4.0 video management software, all the data can be examined with a forensic search for objects, colors and faces. The intelligent video analytics tool analyses 16 parameters in defined areas and creates automatic alarms e.g. if an area is too crowded, persons climb over fences, enter prohibited areas or pass entries in the wrong direction. The integration of the video system with the intrusion detection elements, also delivered by Bosch, creates a powerful security tool.

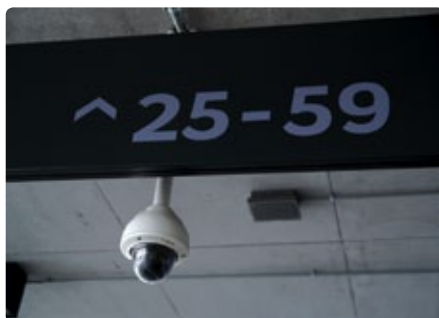
For the video surveillance at the stadium entrances an upgrade is planned for the near future with the latest series of Bosch HD auto domes. This upgrade will allow operators to clearly identify all visitors at all entrances.

Another interesting option for an upgrade is to combine the video surveillance with Nedap's "Photo Event" tool that can link pictures captured by surveillance cameras with a database

that contains the personal data and biometric characteristics of the stadium staff. With this link the staff members' personal data are always current and directly available at doors and entrances. With the module "Photo Events" photos and additional data are displayed in the event monitor of AEOS. It allows for the system user to check whether the person presenting his badge at an entrance is the same as the person whose picture is stored in the database.



One of six security control rooms at Olimpiyskiy Stadium



Bosch Flexidome 2x IP NDN-498 day/night cameras secure the stadium



Vandal-resistant MIC 400 stainless steel cameras were installed close to the supporters

Access Control Systems

On the access control side of the security system, modern equipment is installed not only at the entrances of the stadium but also at every single access point and door. Volodymyr Pievskiy, Deputy Director General of Transexpo, explained that it was very important to harmonize and integrate all systems to keep the facility, patrons and employees safe and secure. Special measures were taken to maintain order and make admission to the EURO 2012 matches and other sports events as quick and hassle-free as possible. The stadium requires stringent security controls at all entrances for supporters of op-

posing teams and the entrances needed to be equipped with particularly robust units which only allow single file entry. To secure the perimeter of the stadium, Kaba has installed together with Transexpo 54 full height turn-stiles at the entrances. The FTS-L01 full-height turnstile was developed for large venues. As a double unit, it is particularly space-saving thanks to its interlocking turnstile columns. A total of eleven cross bars guarantee single-file access, even when there is little staff support. The ticket readers in Kiev are placed in the housing.



Full height turn-stiles with integrated ticket readers at the entrances

To secure the doors of the stadium buildings, elevators, sky boxes, employee rooms and security control rooms, Transexpo installed Nedap's AEOS system for access control and intrusion. 528 intrusion zones were defined and at almost 600 doors and entries Nedap Convex Mifare readers are used. The Convex readers enable clients using Nedap AEOS or a third party access control system to migrate smoothly to Mifare or DESFire technology. At Kiev stadium 35 Nedap AP4803 units combine IP-based access control with a processing unit and 4 reader interfaces, enabling up thirty-two doors to be secured. The 4-in-1 card reader makes it possible to seamlessly integrate virtually all current card technologies such as Barcode, HID and Mifare, with the use of Wiegand, Omron, RS232 and similar communication protocols. The AP4803X security controllers installed at the stadium provide a perfect, cost-effective solution to secure several doors in various areas of the stadium building using Mifare reader technology.



Access to intrusion zones is controlled via Nedap Convex Mifare readers

The Nedap system allows security officials in both stadiums (Kiev and Lviv) to establish graded security levels for different areas of the stadiums. Alarms are managed by the Graphical Alarm Handler on an AEOS Face in the AEOS system, giving the operators clear work instructions. Combined with a graphical representation of buildings, the stadium layouts and alarms, the Graphical Alarm Handler shows the actual status of the alarms and who is handling them.

Another very helpful tool used in both stadiums is the fully integrated "Guard Tour" that enables the extensive monitoring and audit trail of security guards. With the Guard Tour it is possible to define a sequence of card readers or alarm inputs that have to be checked within a pre-defined time span during routine tours. With the "Guard Tour" option, guards can be sent on their rounds of the premises while their progress is monitored from the control room.



Volodymyr Pievskiy, Deputy Director General of integrator Transexpo, relies on Nedap security controllers

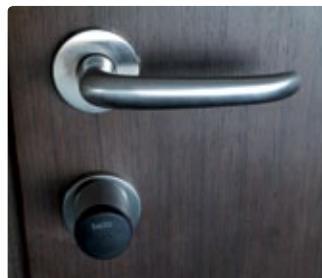
Arena Lviv: Municipal Stadium and Event Location

The stadium "Arena Lviv" is one of the newest European stadiums and will hosts three games of EURO 2012. After EURO 2012 the arena is going to be the center of football games and entertainment events of international, pan-Ukrainian and regional importance. With a capacity of 33,400 spectators it is the smallest of the EURO 2012 stadiums but the new construction allowed positioning of the seats tailor-made for football games and events. This enables the visitors to have a genuine presence feeling of the action on the field. All the stands are placed under the roof which is partially transparent. Enormous squares around the sports arena provide enough space for big sports and entertainment

shows, festivals and concerts for more than 120 thousand visitors. The stadium fulfills all the UEFA requirements most of which are focused on the highest comfort and security level for the fans.

The Business Area

Exquisite menus in a first class restaurant, comfortable seats in front of the field's central line and other comforts like priority parking have been established for the over 400 business seats at arena Lviv. This area and also the exclusive president box, are accessible via private entrances, secured by a special access control system Nedap developed together with integrator Transexpo. The card system allows the owner to access elevators and the sky boxes in the business area. Based on Nedap's AEOS system the security system is managed by several security controllers that control entrance doors, elevator access and gate locks. Similar to Kiev, Nedap's Convex Mifare readers and AP4803 security controllers were chosen to secure the almost 400 intrusion zones and 600 doors.



Salto electronic locks at the doors to the business seats area

Brilliant Sound and Fast Evacuation

Like in Kyiv also in Lviv, the teams of integrator Transexpo, Electro Voice and Sound House Pro created and installed a state-of-the-art sound and public address system that completely covers all seats. Managed via the sound control room all areas can be addressed individually. The public address and evacuation system consists of 24 Bosch Praesideo digital public address and emergency sound elements and 670 loudspeakers. Thanks to the Public Address and sound system, skilled staff, and carefully planned escape routes, the complete evacuation of the all visitors of the stadium is possible in eight minutes in case of emergency. ■



SMART WIRE-FREE ELECTRONIC LOCKING SYSTEMS

THE KEYLESS SOLUTION TO MECHANICAL KEY CONTROL



The complete wire-free access control solution you thought you'd never find

The new SALTO GEO (Global Electronic Opening) cylinder has been designed to recognise the need for the latest access control features in a compact cylinder lock. Intelligent and powerful, it is also easy to use and intuitive to operate. The open architecture and SALTO SVN data-on-card back up enable it to connect with an existing infrastructure to create a fully integrated wire-free access control platform.

Secure, flexible, and cost effective, SALTO offers a huge range of electronic locks and cylinders that turn any door into a fully featured access control door providing full control over who can access what, where and when 24/7.

www.SALTOSYSTEMS.com



SALTO
inspired access

CCTV

Making Sense of Pixels

Resolution, Not the Sensor Pixel Count

The Panomera multifocal sensor system from Dallmeier is making a big splash. Yet the company that manufactures it is deliberately not calling it a 'camera' but a 'multifocal sensor system'. And even though they talk in terms of many, many megapixels, they insist that the number of megapixels is fundamentally not the decisive element. So to find out what the real secret is we spoke with Martin Martin Theis, Product Manager at Dallmeier, about the technical background.

GIT SECURITY: Martin Theis, in three sentences: what is so innovative about this system?

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

That really sounds very simple...

Martin Theis: In principle it is exactly what the user wants from a video surveillance camera. The entire area observed by the camera should be displayed in uniformly high quality. But anyone who has ever zoomed in on an image will notice a marked difference: while objects in the foreground are certainly displayed with sufficient resolution, when the user attempts to enlarge objects from the background, they appear as so many ill-defined blocks. Let's consider an example taken from real life. When you look at an image of a large car park outside a shopping center, the number plates of the cars in the front rows are still legible, but in the back rows the image loses definition when it is enlarged and it is no longer possible to make out the letters. This is why when we developed the Panomera one of our objectives was to ensure that the resolution never fell below the specified parameters, not even in the most distant areas of the image.

How is this high resolution possible?

Martin Theis: We are using a completely new lens and sensor concept. In conventional cameras, the pixels are used uniformly within the sensor, that is to say, the available megapixels are distributed evenly throughout the entire image. But the actual scene is not two-dimensional like the sensor, it is three-dimensional – and the expanse of the lateral and depth perspectives becomes progressively larger the farther back you go. Now if the pixels are distributed evenly on the camera sensor, this means that the same number of pixels is available for capturing a much larger area than in the foreground of the image. And logically, as a result more distant objects cannot be resolved any more when you zoom in. With Panomera on the other hand, we can guarantee uniform resolution over the entire object space. We do not use just a single optical device, but a multifocal sensor system, meaning several lenses with different focal lengths. In this way, we „slice up“ the scene so that each area has the optimum focal length assigned to it.

Couldn't you also achieve this effect by using several HD cameras in conjunction with each other?

Martin Theis: Define "several"! In order to obtain comparable resolution, you would have to stretch material resources to the limit. And apart from that, the user you would have to divide your attention among that many more single images. Multiple distributed HD cameras would certainly not enable you to work as efficiently and ergonomically as a single integrated system. In developing this system, we invested a tremendous amount of expertise and years of experience in the field of video security technology in order to make this possible. You will not find a comparable system on the market today.

What is your position in the debate regarding the constant increase in numbers of megapixels?

Martin Theis: In general, you can ignore the discussions about numbers of megapixels and the resulting rivalry among manufacturers to increase megapixel resolutions. We began developing the Panomera using an entirely different approach. What exactly does the customer want? In theory, the customer is not particularly concerned whether a camera has 12 or 21 meg-

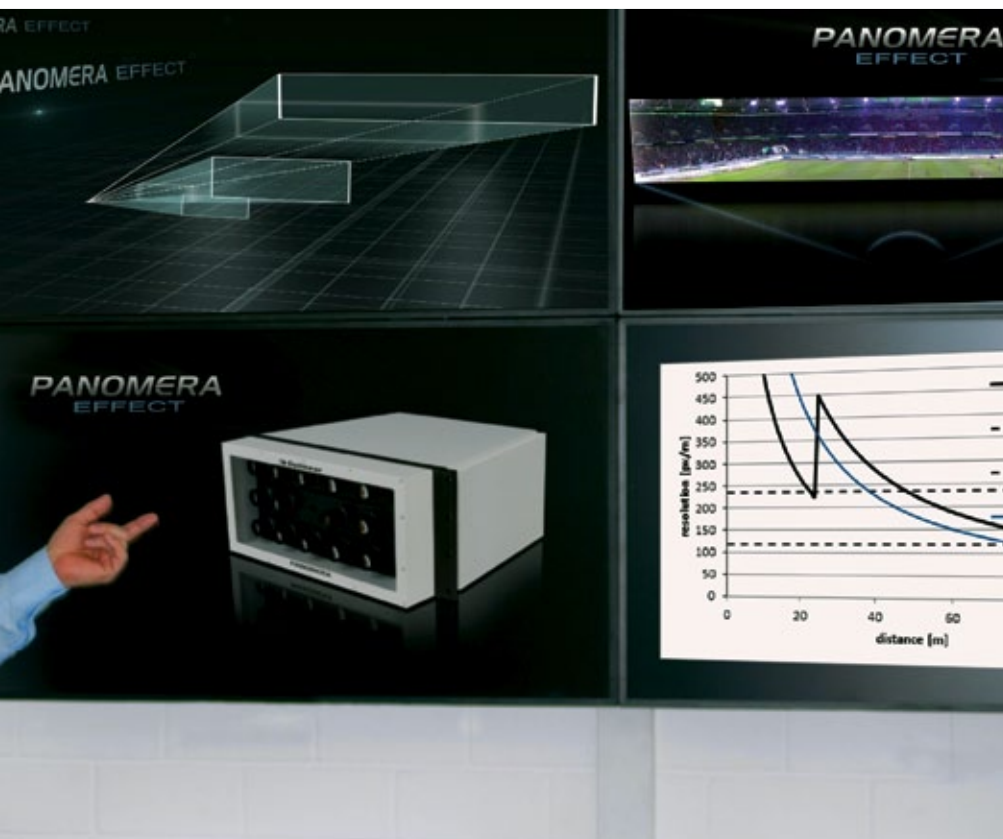
Dr. Martin Theis,
Product Manager
at Dallmeier



apixels. The key question for the end user is how clearly and sharply the object he wants to see will be displayed. So we turned our thinking upside down. We did not want to increase the number of pixels on the sensor just so that we could stay abreast of the market in terms of megapixel numbers. The bottom line for us was the surveillance task the device was intended to perform: how do we create a system that is capable of showing more distant objects at the same high resolution and with good contrast? So in our deliberations we went „back to the roots“ as it were. Instead of the number of sensor pixels, we use the resolution in pixels per meter as the basis for our measurements. Strictly speaking, the correct terminology should even be line pairs per meter

Can I interrupt briefly: why „line pairs per meter“?

Martin Theis: A line pair consists of one black bar and one white bar. If you move across a line pair transversely, the brightness switches from zero to one. This switch from bright to dark (modulation) loses contrast due to the optics, the sensor, the electronics, etc., until the two bars, which were originally quite distinct become grey-in-grey as the line density increases. Anyone who has handled cameras seriously is familiar with the bar charts on which you look for the point where two bars become indistinguishable. This limit value, line pairs per meter, shows precisely how many black and white bars an observed object can be divided into. And this number in turn can be compared with the limit values for „Observation“, „Recognition“ and „Identification“ that the military and police security experts work with. So the question is not



how many pixels you have, but how the object appears in the image.

That makes sense. But Dallmeier is still advertising high megapixel counts as a selling point ...

Martin Theis: Yes, that is true. The end customer is faced with an enormous variety of different HD and megapixel cameras, and of course he wants to be able to compare them with each other. So we too provide megapixel and resolution comparisons with conventional cameras, so that prospective buyers have common points of reference and comparison. Comparisons of this kind are helpful for the customer, although I would like to emphasize again that this is not just a new super-megapixel camera, it is based on an entirely new technology.

Another advantage of the Panomera is that it continuously records the overall image. Is that not standard practice?

Martin Theis: Unfortunately it isn't. Of course, fixed dome or box cameras always record the whole of the area they are surveying. But these cameras are not equipped with an optical zoom, so they are not suitable for monitoring expansive areas, or at least only as overview cameras. This is why a lot of PTZ cameras are being used at the moment. These can be used to zoom and move within the scenes. But at the same time PTZ cameras have a definite disadvantage: they can only ever record the area that the operator is currently watching live. Let's revisit the example of our car park: if the operator is currently zooming in on the front left portion of the image, only this area is being recorded. So if an in-

cident were to take place at a different location at the same time, it would not be possible to review it afterwards. With Panomera, on the other hand, the entire scene is recorded continuously and in maximum detail resolution – regardless of which area the operator is viewing live. This makes it possible to analyze incidents after they have occurred.

What plans do you have for this product line in the future?

Martin Theis: We are in the process of completing project studies for a large number of customer inquiries. Because Panomera is not a mass-produced „off-the-rack“ solution for all requirements, we carry out the necessary project studies in advance to ensure that the multi-sensor system is customized and the resolution required by the customer will be achieved. Our first projects have already been put into operation, because many customers have realized how cost-efficient the system is compared with conventional equipment. I'm sure that we will be putting many more such projects into operation in the near future.

Thank you very much for talking to us.

▶ CONTACT



Dallmeier electronic GmbH & Co. KG,
Regensburg, Germany
Tel.: +49 941 8700 0 · Fax: +49 941 8700 180
info@dallmeier.com · www.dallmeier.com

THE BEAUTY
OF A KEYLESS
WORLD.



Digital Locking Cylinder 3061.

Wireless – installed in just a matter of minutes. 300,000 openings with a single battery, 3,000 access events can be stored. Available in many versions, e.g. – directly networkable: install the cylinder connect to the wireless network! Can be operated with MIFARE® Classic and MIFARE® DESFire cards as an option. With the Digital Locking and Access Control System 3060, we supply the perfect solution to satisfy all your requirements.

Phone: +49 89 99228-0
www.simons-voss.com
www.facebook.com/SimonsVoss.Global

In Focus: JVC VN-H37U

JVC's VN-H37U is part of JVC's new Super LoLux HD line of network cameras equipped with 1/3-inch CMOS imagers that can deliver up to 30 fps full frame rate, Progressive Full HD images and offer multi-codec support. The new Super LoLux HD cameras promises to deliver superior color reproduction, even in low light, and match the sensitivity of JVC's well established CCD-based cameras. The VN-H37U includes Clear Logic Video Intelligence image processing, which compensates for back lighting and digitally removes ambient fog, haze, rain, or smoke. that can deliver up to 30 fps full frame rate, progressive HD images. Other features include auto back focus, on-board recording to SD card, motion detection, privacy mask, and a variety of built-in video analytics features, including active tampering detection, and audio detect.



CAMERA TEST

Performance

Performance assessment when used with 1,000 Lux

The camera produces a good image under optimum lighting conditions. Colours appear on the warm side, with a slight red tint. The contrast rendition is good, and minor tonal shades are also clearly visible. Static and moving objects are reproduced very sharply. There is no evidence of image noise.

Performance assessment when used with less than 1,000 Lux

As is to be expected from a camera that has been optimised for low light performance, the VN-H37U also produces a very clear image in poor lighting conditions. The camera's recovery performance is good; the contrast ratio is adjusted to the respective lighting situation. Under 10 lux, slight noise is perceptible in some colour fields. Under 2 lux, the noise affects the entire image; colours are notably paler; and the image loses definition. It should be noted that the integrated 3D-DNR noise reduction is automatically deactivated at frame rates of more than 15 images/second – hence, this was not assessed during the test. Even under 0.5 lux, the scenery is still clearly visible and smearing is slight. And at considerably less than 0.5 lux, the camera continues to produce images in which the big picture is still vaguely recognisable. However, even slight lighting changes result in long recovery times here.

Performance assessment in backlight situations

The camera also performs well in back light situations. After just 1.5 seconds, it produces a stable black/white image. In the process, the back light compensation system clearly overexposes the image. Background details, however, are still clearly visible. Switchover to colour mode occurs relatively late.

Performance assessment in use: Bandwidth measurement

The bandwidth required at 1000 to ca. 0.5 lux remains very constant at 4.5 MB/s. Under back light conditions in particular, the bandwidth requirement clearly reduces – here, the highest level reached is just over 8 MB/s

Conclusion

Even with weak scenery illumination, the very light-sensitive PoE camera produces good images, with up to full HD resolution. Restricting the frame rate to 15 images/second deactivates the integrated noise reduction. Up to three image streams (H.264 and MJPEG) can be delivered simultaneously.

Technical data for the camera test

Manufacturer	JVC
Model	VN-H37U
Firmware version	0.09.115
Distance to test chart	0.7 m
Lens used	Tamron MP 2.8-8 mm IR1:1.2 1/3 CCTV CS
*Focal length set	6 mm
*Compression method H264	H.264 High Profile
*Max. Resolution	1920 x 1080
*Compression	50%
I-Frame-interval	1 second
Max. stream bandwidth	unlimited
Measured frame rate	30 fps
Average bandwidth	4.5 Mbit/s

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

Assesment with differing illumination conditions

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

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

*BL= Backlight

Test the Best!

Low-light cameras

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

Performance

Performance assessment when used with 1,000 Lux

Under good lighting conditions, the camera produces an extremely high-contrast and clear image, although some tonal shades are lost. Colours appear on the cold side, with somewhat reduced saturation. The acute sharpness is striking; contours are emphasised and lines reproduced very precisely. The motion sharpness is close to perfect; there is no evidence of smearing or Moiré effects. No image noise is detected.

Performance assessment when used with less than 1,000 Lux

With decreasing light intensity, colours tend to appear warmer; the contrast decreases somewhat overall, which results in a rather more natural overall impression. Under 30 lux, the image becomes somewhat darker overall. The camera, which has been optimised for back light conditions, cannot fully compensate for the reduction in lighting. However, the scenery continues to be clearly visible. An effective reduction in image noise is noted. However, this results in the formation of artifacts and reduced sharpness under low light conditions. Even at two lux, hardly any smearing can be detected with moving objects. At 0.5 lux, the image rendition still occurs in colour.

Performance assessment in backlight situations

The recovery time is extremely short; after ca. one second, the camera produces a stable image in which the back light source clearly overexposes. As is to be expected from a camera that has been optimised for this purpose, the scenery background is reproduced very light all over – details are even visible in the border area of the test image.

Performance assessment in use: Bandwidth measurement

The camera was tested using high profile, H.264. From 1000 lux to 0.5 lux, the camera bandwidth required remained relatively constant at ca. 5 MB/s. In an extremely low light field and when confronted with back light conditions, the recovery performance results in short load peaks of more than 20 MB/s. Overall, the average bandwidth required is 5.64 MB/s.

Conclusion

The network camera with WDR and very high contrast range, which has been specially optimised for back light situations, produces unsurprisingly good results, particularly in difficult lighting and back light conditions. Of particular note is the fine image definition, even with moving objects. The maximum definition of the PoE camera with streaming is 1280 x 960 pixels – it can provide multiple MJPEG and H.264 video streams simultaneously.

In Focus: Axis Q1604

Axis Q16 Network Camera Series comprises of indoor and outdoor-ready fixed cameras that deliver outstanding image quality in demanding video surveillance conditions, such as poor light or highly variable lighting. Equipped with Axis' Lightfinder and WDR technology, the Q1604 is designed to enable clear identification of both people and objects, even in highly variable lighting conditions. The camera's Wide Dynamic Range with dynamic capture works by acquiring several images with different exposure times to handle complex scenes such as when light comes through a window creating both dark and bright zones. The camera delivers progressive scan image quality at 1MP or HDTV 720p in compliance with the SMPTE standard in resolution. It can generate multiple, individually configurable H.264 and Motion JPEG video streams simultaneously and allows easy installation with remote back focus.



CAMERA TEST



Technical data for the camera test

Manufacturer	Axis
Model	Q1604
Firmware version	5.40.3.1
Distance to test chart	0,7 m
Lens used	Tamron MP 2.8-8 mm IR1:1.2 1/3 CCTV CS
* Focal length set	6 mm
*Compression method	H.264
*Resolution	1280 x 720
*Compression	50 %
I-Frame-interval	1 second
Max. stream bandwidth	unlimited
Measured frame rate	30 fps
Average bandwidth	5.64 Mbit/s

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

Assesment with differing illumination conditions

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

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



CCTV

In Plane View

East Midlands Airport Takes off with IndigoVision IP Video Surveillance

Located in the heart of the UK, East Midlands Airport is an important hub for UK passenger travel, connecting over four million passengers annually with more than 90 destinations. As the UK's primary pure freight airport, it is home to leading air freight operators DHL, TNT and UPS and is also a major air hub for the Royal Mail. With this high responsibility for people and property, the airport's operators need a highly efficient surveillance system.

IndigoVision's end-to-end IP video surveillance systems have recently been installed at the airport, providing the business with more detailed analysis and greater storage of video surveillance footage. Working with local partner P&G Electrical, IndigoVision has reused some of the

existing infrastructure and cameras, adding new high definition cameras, 195 static and 18 PTZ cameras in a mixed constellation of analogue and IP units.

The distributed and open architecture of this IP video system provides the ideal installation platform for the migration of existing CCTV equipment, and seamless integration with other security systems. The company's NVRs (Network Video Recorders) are now providing the airport with 52TB of storage, necessary due to increased government requirements for retention of footage. The export of that footage for analysis has also been simplified.

Three 'Control Center' stations have been established at the airport, to allow multiple-location monitoring from the car park, security operations and apron control centers. User reports have been particularly positive regarding the camera salvos, guard tours and alarm acknowledgment features of this management software suite, as well as its easy to use, intuitive interface.

John Doherty, Security General Manager East Midlands Airport, commented: "The IndigoVision

solution has allowed new technology to enhance our security monitoring and analysis of footage here at East Midlands Airport. As a large organization with multiple sites that need to be monitored, the IP Video surveillance system has provided us with an easy to use solution that suits all of our requirements."

All cameras across the airport now use the company's Activity Controlled Framerate (ACF) technology. ACF controls the frame rate of the video stream based on the amount of motion in the scene. When there is no activity, video is streamed at minimal frame rate; the instant any motion is detected, video is simultaneously transmitted at maximum configured frame rate. This significantly reduces the bandwidth and NVR storage requirement for cameras monitoring generally static scenes.

▶ CONTACT

IndigoVision, Edinburgh, UK
Tel.: +44 131 475 7200 ~ Fax: +44 131 475 7201
enquiries@indigovision.com · www.indigovision.com

2 Megapixel Telephoto Zoom D60x16.7SR4

NEW With Optical Image Stabilization



IFSEC, Hall 5 Booth E25
May 14-17, 2012

**Day
Night**

**HD
2MP**

High resolution with Anti-Vibration technology for surveillance during day and night

- ▶ Focal length range 16.7-1000 mm, with a built-in 2x extender for focal length of up to 2000 mm
- ▶ Supporting resolution of up to 2 Megapixel for pictures in High Definition
- ▶ Day+Night technology for sharp images at day and night without focus shift
- ▶ Available with built-in optical image stabilization to minimize image vibration
- ▶ Remote controllable built-in filter system offering ND filters and a visible light cut filter
- ▶ Auto focus function available for accurate focusing
- ▶ Precise lens control by PC via RS232C interface possible

Fujinon. To see more is to know more.



CCTV

Better Image Quality for Healthcare Applications

Megapixel Images Provide More Detail, and Using Fewer Cameras Yields a Rapid ROI

Video surveillance is critical to the hospital and healthcare environment. Surveillance challenges include expensive equipment, sensitive documents, pharmaceuticals, food services, retail areas, vast parking lots and structures, and lots of people, all active on a 24-7 basis. Staff, sick patients, visitors, newborns, long-term care patients – some with special needs such as Alzheimer's – all must be protected. Volatile environments such as emergency rooms can even be prone to gang violence in some areas. A hospital is like a city that never sleeps.

Complicating video surveillance at hospitals are privacy considerations along with mandates from other authorities having jurisdiction. Video system design and installation require sensitivity to healthcare market regulations. New camera capabilities such as enhanced privacy masking can help. For example, the door to a patient's room or an outside window can be masked electronically in a camera's image to ensure patient privacy.

Megapixel cameras are a useful tool to increase video surveillance effectiveness while minimizing costs in the hospital and healthcare environment. Higher-resolution cameras such as 1080p HD (high definition) cameras offer a 675 percent resolution increase over analog or standard (VGA) network cameras, and that's with just slightly over 2 megapixels. Many third- and fourth-generation megapixel solutions offer resolutions beyond 1080p – 3, 5, 8, 10 and 20 megapixel resolutions. More resolution (or pixels) means more information, which translates into greater detailed coverage, increased system functionality and better and more efficient forensic investigations.

Megapixel Cameras Offer Mega-Capabilities

The two most useful megapixel camera features to help hospitals improve security are clearer, more detailed images and the ability to monitor large areas without interruption. Only megapixel surveillance cameras meet these demands. Megapixel cameras are available in many configurations and image sizes that offer resolutions beyond what we refer to today as high definition (HD). A single megapixel camera can monitor a wide field-of-view continuously and provide the ability to electronically zoom-in on any area of the image – all while recording the full scene. Megapixel technology allows fewer cameras to be deployed while potentially increasing coverage areas versus conventional camera technologies. For vast open areas, such as parking lots and facility grounds, megapixel cameras are also available in 180-degree and 360-degree panoramic models to provide unmatched coverage capabilities.

Many hospital and healthcare applications are perfect for megapixel cameras. Entrance and egress points of a healthcare facility's grounds

and physical structures are important as they are the front line of defense for security professionals. However, internal areas such as emergency rooms, nurseries and areas where controlled substances are stored also require continuous surveillance. With the high volume of pedestrian and vehicular traffic, identity management is a major concern. With megapixel cameras, security personnel can zoom-in on license plates, faces, possibly even ID badges to identify individuals. This level of detail becomes more important in an environment where uniformed staff can be difficult to identify.

The layout of the facility and its physical characteristics determine the number of cameras needed to provide adequate coverage, and each facility will differ based on these characteristics. The number of security personnel deployed will also vary depending on staffing requirements for foot patrols to complement electronic patrols via video surveillance. One thing is certain: By deploying megapixel cameras, fewer cameras can be used to cover larger areas. This reduces the number of video displays that security personnel need to watch during "live" shifts. As a result, the manpower required for both manned and unmanned video surveillance operations can be reduced, thus freeing these resources for other important security concerns.

Megapixel IP video cameras capture continuous views of large areas. In contrast, a standard-definition pan-tilt-zoom (PTZ) camera deployed to watch a large area might miss something. Typically, PTZ cameras are set on a pre-programmed "tour" sequence that provides various views. The problem is that something could go unseen if the PTZ is pointed in the wrong direction. Operators are also needed to direct a PTZ to zoom in on an incident in real time. In the case of megapixel cameras, every incident in the field of view is captured whether the operator is actively viewing the incident or not. System operators are able to zoom in on archived megapixel video by enlarg-

ing sections of an image – something that cannot be done with standard definition IP or analog video because there simply isn't enough resolution and the image would become pixelated.

Also, large format megapixel images with dramatic increases in resolution are ideal for forensic identifications. The ability to cover larger areas with greater detail using fewer cameras dramatically reduces the overall time spent investigating incidents. This reduction of time enables the hospital to conduct more investigations with fewer personnel.

System Considerations

About 75 percent of hospitals now have digital video surveillance systems, and the trend is likely to accelerate. Some hospitals have been slow to adopt IP video in general because they already made a significant investment in analog solutions. VGA, or standard resolution IP video, really offered little or no benefit over analog. If the existing network infrastructure could be leveraged, there was still significant conversion expense to move to IP such as encoders or more costly IP cameras along with NVRs (Network Video Recorders) or HVRs (Hybrid Video Recorders) in lieu of existing tape or analog-based DVRs. The return on this investment (ROI) with VGA IP solutions just wasn't there when you consider that – after all of that expense – there was no increase in image quality. However, using megapixel solutions, the ROI for IP conversions is dramatic.

A hospital might choose a "hybrid" system to reap the benefits of an IP-based systems (including megapixel imaging) while preserving a previous investment in analog infrastructure. However, the superior image quality of megapixel video is an important element in the compelling argument for a complete transition to a networked video surveillance platform as resources become available. It's common following an initial implementation of megapixel technology that the ROI

realization prompts a more rapid, full-scale conversion than was perhaps initially planned. Also, the availability of products on the market that convert existing analog video coax transmission to network IP transmission enables hospitals to leverage existing analog infrastructures so that conversions are more cost-effective.

The facility footprint itself creates infrastructure logistics for signal transmission; therefore, leveraging existing network infrastructures with IP megapixel solutions is an advantage. Compression technology has improved related to video images, which mitigates any concerns about bandwidth, and the cost of storage also has decreased. VMS (Video Management System) megapixel integrations have multiplied. In short, megapixel technology is becoming mainstream for healthcare applications.

New Uses on the Horizon

Facial recognition and other advanced video analytics have dramatically improved in recent years and continue to gain traction for general surveillance applications. The ability of megapixel cameras to capture tremendous detail provides the data required for advanced analytics such as face recognition, allowing video surveillance systems to automatically identify individuals on "watch lists" that should not gain access. New analytics software solutions are more powerful than ever, and they are benefiting from the increased volume and quality of data made available by megapixel cameras to perform more complex functions. Megapixel video is poised to become even more useful to hospitals and healthcare facilities in the future.

CONTACT

Carole Dougan

Arecont Vision, Glendale (CA), USA

Tel.: +1 818 937 0700 · Fax: +1 818 937 04 64

www.arecontvision.com

VISUAL DISPLAY SOLUTIONS FOR COMMAND & CONTROL – MADE IN GERMANY

Your competent partner for complete large screen solutions

-) **LED-lit DLP® Rear Projection Cubes:** Many different sizes and resolutions
-) **Super Narrow Bezel LC Displays:** Especially designed for modular video walls.
-) **Professional LCD Monitors:** Designed for professional use in sophisticated applications. Resolutions in full HD and higher.
-) **Graphics Controllers:** Display of any data signals. Hardware decoding for IP video streams with special input boards.
-) **Wall Management Software:** Perfect wall control with the eyecon software. Flexible solution, simple and efficient alarm management.

) **eyevis GmbH**, Hundsschleestrasse 23, 72766 Reutlingen/Germany
Tel.: +49 (0) 7121 43303-0, Fax: +49 (0) 7121 43303-22, www.eyevis.com, info@eyevis.de



eyevis
PERFECT VISUAL SOLUTIONS

CONTROL ROOMS

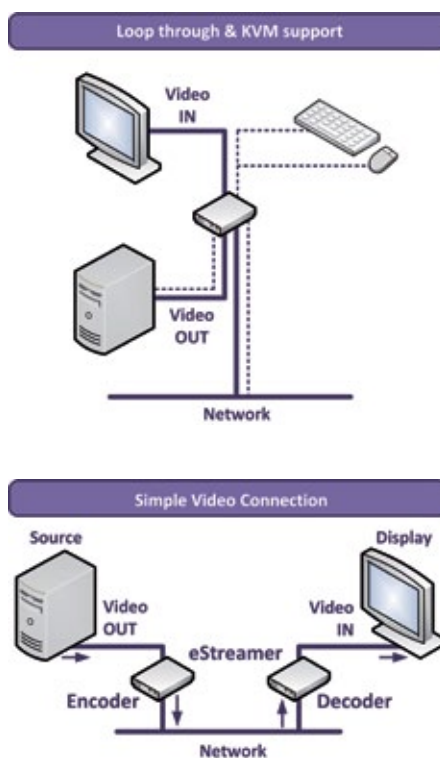
Point to Multipoint

An Efficient Method of Splitting DVI Video Signals to Multiple Devices



In the past, the distribution of DVI signals was implemented using hardware based matrix switchers. These are devices with a finite number of signal inputs and outputs. There are a number of situations however where it is required to provide the same video signal simultaneously at various locations to a potentially unknown number of viewing devices such as monitors, beamers and PCs in a one-to-many topology. The Reutlingen, Germany-based company eyevis has come up with a solution for so-called estreaming.

The possibility to transmit this type of signal over large distances is gaining in importance in modern installations as DVI signals often have to be transmittable to any location or device, such as a beamer or display cube, without any limitations. The Eyevis estreaming solution provides a flexible and scalable technology to convert the video stream into data packets and send it in real time with low latency over networks.



The signals can be fed in and extracted in high quality at any point in the network, which effectively creates a virtual network matrix out of the network infrastructure. The system is based on an encoder/decoder solution which transmits the signal over networks after applying a special Eyevis eJPEG compression.

The Estreamer eS100 is used together with standard Ethernet switches and networks and

can be configured either as an encoder or as a decoder, or work simultaneously in both modes. In this way an existing configuration can be flexibly rebuilt or expanded; a very useful and helpful attribute for rental purposes or in projects with quickly changing configurations.

The View From Afar

But the eS100 has another neat trick up its sleeve: it can function in KVM mode, which means that it can be connected to the keyboard, video and mouse sockets of a PC/server and, through its networking capability, provide remote control to a remote VNC client effectively anywhere in the world. This is a hardware alternative and may be preferred for security-critical installations over the various remote control software packages on the market that must be installed on the PC/server itself.

The areas of application of the solution are very diverse: this technology can be applied anywhere that DVI signals need to be distributed to different screens, for example, to replace existing DVI-matrices or to distribute video signals to several conference rooms or halls at multiple locations within a building. The solution is equally suitable for use by companies as well as by public institutions or operators of secure areas. The main advantages are the easy configuration, the ability to use the existing network infrastructure and the scalability of existing Estreaming projects.

▶ CONTACT



Max Winck

eyevis, Reutlingen, Germany

Tel.: +49 7121 43303 127 · Fax: +49 7121 43303 22

m.winck@eyevis.de · www.eyevis.de



You call the shots
...with digital video recorders
from a professional performer!



Security expert Grundig offers professional video surveillance solutions for all security applications. Our latest analogue DVRs digitise, manage and store up to 32 analogue video channels at optimal resolution and frame rates. They allow intelligent, remote access; have flexible memory capacities and integral multi-monitor support. Grundig's outstanding performance comes from a long-standing career in security.

German video security excellence - by Grundig.

FOR A GOOD **REASON**
GRUNDIG



For further information visit www.grundig-cctv.com

ACCESS CONTROL

At Home and Abroad

The Main Functions of the BSIA and One of Its Member Companies, TDSi

Ground-breaking and innovative companies find it difficult to get legislation changed or to establish standards of practice by themselves. Here, a trade association will represent their cause and that of like-minded companies. After Intersec in Dubai, GIT SECURITY spoke with James Kelly, Chief Executive of the British Security Industry Association (BSIA) and with John Davies who is Chairman of the BSIA Export Council and of TDSi.



John Davies, Chairman of the BSIA Export Council and of TDSi



James Kelly, Chief Executive of the British Security Industry Association (BSIA)

GIT SECURITY: Mr. Kelly, is it possible to characterize a specific role of British companies in the international security market – are there, in your experience, certain skills or qualities that are being connected with British products?

James Kelly: Quality, I think, is the overarching theme here, particularly for overseas customers choosing to purchase their security products and services from a BSIA member company. The BSIA's strict membership criteria means that they can have confidence that their security is in safe hands, despite being located in a different country. The BSIA requires its members to be independently inspected to the ISO 9001 quality standard, which also includes confirmation of compliance to British and European standards where applicable.

Where are the particular strengths of British security businesses compared with those of other countries?

James Kelly: Best practice is highly important to BSIA member companies, which can provide

reassurance to overseas buyers. BSIA members are at the forefront of standards development in both the UK and Europe, and the Association's own codes of practice often go forward to be developed into British or European standards. The UK Trade and Investment (UKTI)'s Defense and Security Organization (UKTI DSO) worked with various security industry bodies, including the BSIA, to produce a report on the capabilities and strengths of the UK security industry. This report found that UK companies receive considerable international recognition for their ability to provide reputable, trustworthy services and reliable products. Among the results of this report, it was noted that the UK provides security support to NATO programs including maritime protection and defense against mortar attacks, and is also a world leader in chemical, biological, radiological and nuclear (CBRN) defensive equipment. Not only that, UK security companies are also recognized for their skills in providing security for world sporting events, including the Beijing 2008 Olympic Games. They also have extensive experience in border patrol, utilizing the latest biometric and forensic equipment at airports and ports,

as well as helping secure cyber activity worldwide through specialist systems developed in the UK.

Could you give us an idea of the size and relevance of the BSIA? How many members are there and what are the important topics on your agenda as an association?

James Kelly: The BSIA is the trade association representing approximately 500 members operating in all aspects of the UK's private security industry, including electronic sectors such as CCTV, Access Control and alarm manufacturers, as well as manned-guarding sectors, including security guarding, consultancies and close protection. The BSIA is primarily a lobbying organization and is extremely active in liaising with Government to ensure that legislation reflects industry and customer needs. The Association lobbied for regulation of the security industry for over 15 years, culminating in the introduction of the Private Security Industry Act 2001 and the launch of the Security Industry Authority. More recently, the BSIA has been involved in the development of a new era of regulation and

licensing for the UK security industry, with the Association at the heart of the Security Regulation Alliance, a single-issue body established to work alongside Government and the SIA to ensure that the future regulatory landscape is fit for purpose and beneficial to our members.

Mr. Davies, you are chairman of the Export Council of the British Security Industry Association and have done surveys on security customer's demands. Could you sum up the findings for us?

John Davies: With the world market for fire protection and security valued at around £176.8bn, raising awareness in overseas markets of the quality of UK products and services is a key function of the BSIA, and in particular of its Export Council. This is a forum for BSIA member companies who are focused on extending their local business to overseas markets and also acts as an invaluable port of call if overseas contacts are interested in developing a relationship with a UK company, either as a customer or distributor. Recently the Export Council carried out some research to coincide with the recent Intersec 2012 event in Dubai, which underlined the heightened demand in the Middle East marketplace for the latest security systems from UK businesses, despite significantly tougher global trading conditions. Nearly two-thirds of the BSIA's Export Council's member companies (62.5%), who responded to the survey and were active in this pivotal region, reported that they had witnessed a notable increase in their business revenues from the Middle East over the past 12 months. By contrast just under a third (31.3%) of the companies saw business levels remaining static and only a small minority (6.3%) reported sales in the region had fallen.

In which branch of security are these firms active and where do they see their customers' main interest?

John Davies: In terms of the business areas covered by the companies surveyed, 75% were electronic security manufacturers, 12.5% were involved in cash and property marking, with the remainder split equally between security distributors and installers. When they were questioned about the approach to security technology that they believe has had the greatest impact in the Middle East over the past 12 months, the clear leader was hybrid solutions, cited by 61.5% of those surveyed. These are able to combine legacy analog infrastructure with the latest digital, networked, security technology. Alongside this, with the HD (High Definition) revolution well established for consumer electronics, BSIA's Export Council members are starting to see mega-pixel technology making its mark on CCTV in the Middle East, at 30.8% being ranked second in this element of the survey. Another approach, Intelligent VCA (Video Content Analysis) whose poten-

tial is now finally being realized, came in third at 7.7%. Significantly, the research investigated the leading factors that Export Council members were seeing as the drivers for customer buying decisions in the Middle East. It was discovered, for instance, that although initial purchase price ranked as the most important by 57.1% of the respondents, technological innovation was cited as the leading element by nearly 29% of those surveyed. In addition, it was encouraging to find that compliance with industry standards - which is a key requirement for BSIA membership - was the main decision-making factor that 14.3% of companies questioned were finding in dealing with their Middle East customers. Above and beyond these, other subsidiary factors mentioned included confidence in the supplier and if it was a prestige brand. The survey also sought to discover which vertical markets were leading the way in taking up the solutions offered by BSIA Export Council member companies. It was reported that the top market sector was government at 64.3%, followed in joint second place by hotel/leisure and retail - both with 14.3% - and finally transport at 7.1%.

Was your Company's presence in Dubai successful? In what way?

John Davies: Intersec 2012 was successful for us. We experienced a 35% growth in visitors to our stand and noticed that the geographic spread of visitors was wider this year. Of particular note was the number of visitors from both East and West Africa.

What impressions did you personally bring back from Dubai and the Middle East in general?

John Davies: TDSi has been exhibiting at Intersec now for 8 years. Over that time the show has grown significantly and is now the pre-eminent regional security exhibition that attracts visitors from across the Middle East. The Middle East in particular is an important and growing region for the sale of our products. TDSi sales to the Middle East represent 15% of our total and these sales are showing double digit growth year on year. We've noticed that customers in the region are also becoming an important source for new product ideas and innovation.

The Company is 30 years old this year. What has changed since the very beginning of TDSi's career in the security market?

John Davies: TDSi started life in the Time and Attendance market (hence Time and Data Systems International) and quickly moved into the electronic access control market when we invented the Infrared card reading technology. The development of 1, 2 and 4 door controllers soon followed and relationships with companies such as Chubb opened up overseas markets. There



Any faster and they would see into the future!

GEUTEBRÜCK TopLine IP cameras with H264CCTV – nothing goes faster! Megapixel IP cameras setting new standards: www.geutebrueck.com

GEUTEBRÜCK
Competence in Video Security

have been many changes in the last 30 years, mainly driven by the development of new card reading technologies like mag stripe, Weigand prox and Mifare. And over the last decade there has been significant growth in and the acceptance of biometric reading technologies.

Is there anything particular that's moved the market?

John Davies: Over the last decade there has been a noticeable movement on the integration side of things which today sees access control at the hub of integrated physical and network security and surveillance systems. The fast pace of integration is also driving the move away from proprietary protocol based systems to a need for more open systems that allow integration at the 'machine' level. Today at TDSi we spend a lot of time ensuring that our software and hardware systems are as open as they can be and allow installers and system integrators to put forward solutions that can, wherever possible, make use of the older 'legacy' components on existing systems, thus maximizing the return on investment for end-users.

Which are the most significant and important milestones that you look back on that are still important today?

John Davies: The most significant milestone was the initial development of the IR reader back in the early 80's and then the controllers and software required to ensure a workable electronic locking system for end-users. We still sell this product today which is testament to its ease of use and unique security features. Other milestones would be the development and continuous improvement in functionality to the software systems that lie at the heart of the access control system and provide more and more the integration capabilities. Another significant development at TDSi was our introduction of the Digigarde range of fingerprint readers back in 2008 which we're adding to this year with the launch of Digigarde Plus. Biometric reader development will continue to be a significant area of product development activity and we'll be adding facial recognition and multimodal biometric readers to the range over the rest of the year. The development of Vugarde – our NVR software platform – was also significant last year.

Could you describe to us the one or other important customer or recent significant project you have equipped with your solutions?

John Davies: We've had some real successes over the last couple of years, both at home in the UK and overseas. Some of our biggest projects in terms of the number of doors have been in China where we've had success supplying systems to the new Metro lines in Shanghai, Beijing and Tianjin. The banking and large cor-

porate sectors in China are also significant users of TDSi systems as well. It makes me proud to know that product that is made in England has found a ready and growing market in China.

Looking at the international access solutions market as a whole: what are the most important driving forces in your view? In what direction is the business going, in what ways are your customers changing their expectations and how do you respond to them technically or structurally?

John Davies: The most important driver is the need to provide open and integrated security solutions. That last word is important. Customers need a solution and not a collection of products or separate sub systems. This is driving us more and more to understand all the components in the security network, to develop software and hardware that have ease of integration at their heart and also to develop strategic relationships and partnerships with manufacturers of complementary components such as intruder alarms, CCTV, ARC's and the like. Over the last 5-6 years we've been on an integrated systems journey and see that this will continue for some time.

What changes, new products and projects can we expect from you this year or in the near future?

John Davies: TDSi has a busy year of product launches scheduled for 2012. We launched a new fingerprint/Mifare/PIN reader called Digigarde Plus on April 2nd. This is IP65 rated and POE powered and will be for access control as well as to get us back into the Time and Attendance market again. There's a new version of Exgarde due at the end of April that has Integration at its heart – this new version will see the integration to Texcom's Premier range of intruder panels and to Microsoft Active Directory as the key elements, plus a web front end for easy access to reports. Modules will also be launched later in 2012 to provide BACnet and SIA4 protocols to Exgarde for integration into Building Management Systems and alarm receiving centers. We will also be launching a full range of POE access control networkable controllers as well as 8 and 16 door variants of our Ex series of controllers.

Thank you both very much for your insight into the BSIA and for this topical market information.

▶ CONTACT

TDSi Ltd., Poole, Dorset, UK
Tel.: +44 1202 723535 · Fax: +44 1202 724975
sales@tdsi.co.uk · www.tdsi.co.uk

BSIA
Tel.: +44 845 389 3889
info@bsia.co.uk · www.bsia.co.uk

Flexible Video Surveillance



At this year's Ifsec in Birmingham Seetec will present its Multi Solution Platform, integrating video technology into customers' ecosystems and processes. In addition, the new software version 5.4.2 will be showcased. The joint presentation of Seetec, Eyevis and Advancis can be found at booth F140 in hall 4. The concept behind the Multi Solution Platform picks up the thought that every company and every user has specific demands concerning security management. The Company's solution bears in mind individual conditions and allows a modular and demand-based embedding of video surveillance into the clients' processes. Visitors can experience the solution in the scenario of a gas station, showing some of the most important challenges a video surveillance system faces today. An important point is the facility's safety and security. As in many cases fuel is still paid in cash, gas stations often become target of robberies. Furthermore, the working environment is highly explosive and flammable and therefore safety regulations have to be kept in mind.

www.seetec.eu

▶ Ifsec · Hall 4 · Stand F140

Thermal Analytic Cameras



Sightlogix has introduced their newest Thermal Sightsensor system. It overcomes the limitations of thermal imaging during daytime and hot weather to deliver the most accurate outdoor video analytics and clearest thermal images. The solution brings thermal analytic capabilities to a wider market, with pricing per meter comparable to costs of fence sensors and visible cameras with analytics. This has been achieved by doubling the system's on-board image processing, reducing the costs of the electronics and housing, and streamlining manufacturing. In addition to thermal, the camera is available in a lower-cost day/night visible version. The "Thermal Sightsensor brings thermal video analytics to the same price-per-meter as other modalities for perimeter security," said John Romanowich, President and CEO.

info@sightlogix.com

Full HD IP Dome Cameras with Auto Focus

Basler has started series production of two new IP dome camera models. The BIP2-D1920c-dn (Outdoor, AF) and BIP2-D1920c-dn (Indoor, AF) models offer auto focus functionality and deliver real-time video frame rates of up to 30fps at Full HD resolution (1,080p). The integrated auto focus functionality makes dome camera installation simpler; the lens can easily be focused through the camera's web application. Over and above their audio functionality, the manufacturer's IP dome cameras have a built-in Micro-SDHC card slot for local storage of up to 32GB of data. This functionality makes it possible to store live streams or single camera images in configurable time intervals on an SD card. With its IP66-certified aluminum housing and



an operating temperature range from -40°C to +50°C (-40°F to +122°F), the vandal-resistant BIP2-D1920c-dn (Outdoor, AF) model allows video surveillance in outdoor applications. The BIP2-D1920c-dn (Indoor, AF) dome camera is equipped with a lightweight plastic housing and is perfectly suited for network video projects indoors.

bc.sales.europe@baslerweb.com

Access Via NFS-Mobile Phones

Hirsch Identive, a business unit of Identive Group, presents an access solution that enables customers to use NFC-enabled mobile phones as secure credentials to access their facilities. The company's Dignet access control platform, Velocity 3.5 management software and multiple near field communication (NFC) door readers provide an end-to-end NFC physical access solution. "Many of our customers have been assessing the use of mobile phones

as an alternative to traditional access cards as a more convenient ID device," says Stephen Healy, President and General Manager. "Our NFC 'Mobile Touch to Open' solution demonstrates how customers can augment or over time replace their traditional access credentials with NFC-enabled smartphones, lowering the cost of credential issuance and improving security by reducing forgotten access cards."

www.hirsch-identive.com

Video Management Software

Milestone Systems' Xprotect Corporate is a software for sophisticated, high-risk security installations. The operator tool Xprotect Smart Client has a new streamlined interface. The Company also announces the availability of the Integration Platform Software Development Kit (MIP SDK) 3 for Milestone Solution Partners (MSPs) offering applications that can be integrated into Xprotect. The Smart Client is an adaptable, easy-to-use client application for the daily operations of surveillance installations. The streamlined interface helps improve usability, making it easy to monitor installations of all sizes, access live video,



investigate security incidents and export recordings. The Client provides an efficient working environment that can be optimized for different tasks and operator requirements and is available in 26 languages. It has the option to choose dark or light themes for different working environment needs.

www.milestonesys.com

► Ifsec · Hall 4 · Stand F90

High Security Seismic Detector

Risco Group has released a high security Seismic Detector, designed for 24/7 protection of vaults, safes, ATMs, reinforced concrete walls and strong rooms, steel armored cabinets, vending machines and doors. The detector monitors the vibration and temperature of the protected surface and will detect all known types of intruder attacks, such as sledgehammers, diamond head drills, explosives, hydraulic pressure tools and thermal tools. The detector features a Piezo sensor with pattern recognition digital signal processing, Temperature sensors that detect extreme cold and high temperature attacks, as well as wall and cover tamper protection. The instrument is



simple to install – both on the Bus of the Company's security systems, allowing unique remote parameter setting and diagnostic capabilities – or as a regular relay detector with built-in EOL resistors.

www.riscogroup.com

► Ifsec · Hall 4 · Stand D10

HDcctv-Compliant IP Video Encoder

The HDcctv Alliance and Euresys have announced the HDcctv compliance certification of the Picolonet HD4. The IP video encoder from Euresys is now listed at www.highdefcctv.org/compliant-product-finder. HDcctv cameras are a complementary alternative to MP IP cameras, because HDcctv-compliant cameras digitally deliver HD video over at least 100 meters of standard RG59 coaxial cables with no transmission delays and no compression artifacts. Picolonet HD4 initiates a class of HDcctv-compliant products, the IP video encoder/streamer components. The Alliance has already certified many different types of products such as cameras (dome, box, bullet or PTZ), monitors, DVRs, matrix



or repeaters. This variety of compliant products and components gives a large and growing choice for integrators to design flexible HDcctv-based video surveillance systems.

sales@euresys.com

► Ifsec · Hall 4 · Stand D117

NVR Server and Storage Solution

The Gevstore-IP/16Bay-2P is Geutebrück's latest redundant dual-processor storage server system for IP applications requiring high performance and high survivability. This is a complete solution designed to meet high-end video security requirements in stand-alone and networked applications in environments such as airports, prisons, power plants, pharmaceutical companies and casinos. The powerful and failure resistant server has two Xeon processors, a redundant power supply and integral hot-swap level 6 RAID for up to 16 HDDs and video databases of up to



32TBytes. It records 800 images per second and streams 800 images per second simultaneously. It has virtual matrix functionality for IP cameras using all the common compression processes and formats, both standard CCD and megapixel.

www.geutebrueck.com

SECURITY FOR PRODUCTION SITES

Advanced Intelligent Management

A Security Management System for Puyang Tobacco Board Mission

In order to enhance security capabilities and reduce potential safety problems in the eight branches of the Puyang Tobacco Board, the use of a network camera surveillance system became necessary. This monitoring system mainly targets three areas: activities of the company's internal and external personnel, security of the surrounding environment, and warehouse management and control.

The Solution

With the increased business volume and accelerated pace of operations of the Puyang Tobacco Board, the staff's internal activities have also picked up. In order to ensure the security and stability of the logistics and sales office as well as file storage, and to ensure the safety of public properties, the network camera surveillance system requires the following functionalities:

- Real-time high-definition video surveillance on each main entrance
- Ability to record video of each monitored location for security reasons
- Effectively ensure safe operations at production sites according to standards, and examination of outgoing materials and worker discipline
- Real-time monitoring of the transfer of materials at each main entrance
- Ability to adjust the focus of camera lenses to clearly monitor the specific details of vehicles entering and leaving the premise
- Monitoring of the actual production line workers at all times

"The installation of a network video surveillance system will ensure that the management of the Tobacco Board can perform timely and accurate assessment and examination of the work and efficiency of the staff from all departments.", explains Zhang Maodi, Platform Manager at Digi-



tal China in Zhengzhou. "The surveillance system realized a systematic, scientific, modernized and unified management. Through the monitoring and control of main areas and key points, it provides an intuitive grasp of video information, further enhancing our security technology, our management efficiency and shortening our response time."

In response to these requirements, Axis and its partner Digital China designed a network video surveillance system for Puyang Tobacco Board to perform 24/7 monitoring of the office counters and warehouses of all eight branches. Axis 216FD Network Dome Cameras were installed in each of the warehouse and office locations, with flexible adjustment for the focus of camera lenses based on actual monitoring needs.

Axis M1113 Network Cameras were installed at the entrances of the company to continuously monitor personnel entering and leaving the premise and the surrounding activities. This network video surveillance system includes the monitoring system for the production environment and video surveillance of office areas. The system utilizes network cameras to perform real-time and effective monitoring, video display and video recording of the entrances, office areas, storage areas, and the personnel entering and leaving the premises of each of the eight branches. At the same time, the system employs advanced decoding, storage and network transmission technology to realize remote monitoring, video transmission, intelligent control and historical data query.

The system is based on the newly planned specialized network for monitoring, which can achieve ten gigabit bandwidth for the backbone and one gigabit bandwidth to the workstations. It is an advanced high-speed network that can simultaneously support the integrated transmission of data and video. A control room was also set up in the monitoring center which can perform information gathering, storage, analysis and examination of each control points of the

logistics building. It can also control and monitor all sites and areas under surveillance.

Continuous 24/7 Video Surveillance

Axis and Digital China have constructed an advanced digitized, interlinked and intelligent network video surveillance system for the Puyang Tobacco Board. The system has a clear hierarchy, distributed intelligence, distributed configuration and centralized management.

At the same time, the front end of the network video surveillance system employs standardized, scalable and upgradeable hardware, which means that while it can be implemented all at once, it is also reusable. The monitoring system uses the common TCP/IP protocol for transmission. In addition to video surveillance system applications, the front-end equipment can also provide standard networked video data for other applications, thus realizing a multi-purposed system, providing high performance with a low cost while allowing good scalability, thus maximizing the investment of the client, achieving optimal return on capital.

After the system is completed, it can perform continuous 24/7 video surveillance of targets within the premise, while storing the video data for up to 7 days. It can also save the recorded data onto optical media while performing real-time monitoring and recording of unexpected events, thus providing audio and visual evidence which can aid the police in solving cases or provide technical support for emergency measures of plant security. In terms of security incidents, this system can be used to search the stored images after the incident has occurred, lock onto and track suspects, thus providing timely information to protect the staff and firsthand information to fight crime.

▶ CONTACT

Axis Communications AB, Lund, Sweden
Tel.: +46 46 272 0 · Fax: +46 46 272 0
www.axis.com



Get it Right – In Any Light

Hikvision 1.3MP WDR Network Cameras

With the new WDR cameras from Hikvision, indoor and outdoor images are now crystal clear in any light.

Hikvision now offers a comprehensive lineup of HD network cameras with its industrial-grade WDR feature. Boasting with Hikvision advanced ISP (image signal processing) technology and super wide dynamic range up to 120dB, the new WDR cameras delivers crystal-clear images in any contrast lighting conditions. The combination of an excellent low-light sensitivity and self-developed 3D DNR (Digital Noise Reduction) algorithm makes these WDR cameras more valuable in nighttime surveillance. Equipped with these unique features and functions, these cameras are all-in-one camera solutions for always getting the right images in any light. Available models includes DS-2CD864FWD-E (box camera), DS-2CD8264FWD-EIZ (bullet camera), DS-2CD764FWD-EI (dome camera) and DS-2CD7264FWD-EZ (dome camera).

Key Features

- Top notch WDR technology
- Excellent low illumination
- Industrial-class 3D DNR
- Advanced IR arrays (except DS-2CD864FWD-E model)
- HD video real-time recording



Also Available >>

NVR



Standalone DVR



Digital Video Server



Network Camera



Compression Card

UL CE FC RoHS ISO9001:2000 ISO14001



The GATE (Gas Access To Europe) terminal near Rotterdam with its three storage tanks, jetties and a processing area was opened in 2011.

SECURITY FOR PRODUCTION SITES

Gas Grid Safeguarded

Gasunie's Gas Grid Safeguarded with Geutebruck GeViScopes

With over 15,000 kilometres of pipeline in the Netherlands and northern Germany, dozens of installations and approximately 1,300 gas receiving stations, Gasunie operates one of the largest high pressure, gas pipeline grids in Europe. Its annual gas throughput totals approximately 125 billion cubic metres and its network forms the core of what is called the northwest European 'gas roundabout'.

Gasunie operates a rolling programme of infrastructure expansion and modernisation, which naturally applies to its security systems too. Video surveillance has been playing an increasingly important part in protecting its most significant sites in recent decades, particularly because of its role in alarm verification. Gasunie is a long term user of Geutebruck digital video products having always had Geutebruck recording hardware and software at heart of its cctv system.

Gasunie's sites vary in function and size. Some are very small, remote and rarely visited. Others occupy several hectares and are routinely staffed by dozens of Gasunie employees as well as external contractors. Since 1988 the company's strategy has been to install technical security systems and centralize the site security. Depending on the site, the security infrastructure ranges from simple fencing to sophisticated fence systems with perimeter detection systems and CCTV. "The fundamental requirement at every location is that unauthorized intruders are always identified as fast as possible at the perimeter," explains Reiner Woldring, Gasunie's corporate security advisor.

"Where necessary there are two high fences with alarm systems on the outer fence," elaborates Herman von Hierden, a member of Gasunie's electrotechnics, instrumentation and process control department. "That way unauthorized intrusion can be detected even earlier."

Security processes such as controlling the access of authorized staff and the verification and tracking of alarm reports following the detection of an intrusion event are all coordinated from the 24-hour Groningen control centre. CCTV systems operate at 25 sites. "We need the camera pictures for verifying the alarm reports which may need to be followed up by the police or another special guarding service," reports Reiner Woldring. "We don't do a full preventative evaluation of the images. We no longer have guards with dogs on site who could take a look when a detection report comes in. Instead we rely on camera surveillance. For this we need good quality cameras, reliable transmission and storage of camera pictures as well as user-friendly functions for calling up the pictures in the alarm centre."

At Gasunie the complete security system for all sites is now IP-based. "Even the old analogue camera system has been modernized", continues Herman van Hierden, "so that we now have the same standard across the whole country on all sites. There used to be sites with 30–40 analogue cameras which still couldn't provide any usable quality pictures. So even though the detection was very reliable, it was not always easy to verify the detected events. Now we work with a lot fewer cameras per site, and most of them can be remote controlled from the centre." Control centre staff now call up camera images in real time and can immediately replay the recorded footage whenever there is an alarm.

Local system integrators Alphatron and Strukton Systems have been responsible for upgrading the cameras and remain responsible for the maintenance of the alarm centre systems. They replaced the old X.25 data network with a broadband Ethernet connection and the old Pegasus transmission system with a modern GeViScope platform to which all cameras are connected.

At remote sites nocturnal camera surveillance is made possible by automatically controlled lighting. Data connectivity at remote sites has always been a challenge. "The limited bandwidths available between head office and some of Gasunie's remoter gas pumping locations generate perfect environments for Geutebruck equipment to demonstrate its efficient bandwidth management," grins Koen Pelle, Geutebruck country manager for the Netherlands.

GeViScope video platforms are fully integrated into the Gasunie security management system which it developed itself. Multi-system integration is vital, for instance to ensure that the camera system can be linked to the access control systems – so staff in the control centre can know at any given moment how many and which people are present at which site.

"All site visitors have to present their passes on arrival," explains van Hierden. "This goes for people from third party companies as well as our own staff. Anyone who has not obtained a visitor's permit in advance cannot enter the site. At

some locations we retain remote control over access at the alarm centre. Then the camera system is vital. The control centre staff can tell from the permits or identity cards whether an individual has been issued with a visitor's permit for the relevant site and they can compare the pass photo with the camera image to determine if the person present is the one who has authorization." Both for remote-controlled access control and for detecting an unauthorized intruder, it is important that the camera pictures are available immediately in the alarm centre. "In practice," Woldring adds, "it is now just a matter of seconds. The system is set up so that when a detection event occurs in a particular sector, pictures from the cameras in that area are available straight away."

Within the security infrastructure, sub-systems running under different operating systems operate amicably together. Several of these technical marriages have been cemented with the help of Geutebruck's free software development kits and its free assistance for software developers. "At Gasunie it is SDKs which facilitated the seamless integration which allows security centre staff for example to control their own large video wall, to manage remote PTZ cameras and to export video sequences all through their own management system's operating interface," explains Patric Meyer, SDK manager at Geutebruck.

So far so good – but what would happen if there were a catastrophic failure which knocked out the Groningen control centre? Gasunie of course has planned for that eventuality. It has set up an equivalent security centre at an undisclosed location somewhere else in the Netherlands. "Whenever necessary this second centre can be used to take over all duties," confirms Reiner Woldring.

► CONTACT

Carmen Lahr
Geutebruck GmbH,
Windhagen, Germany
Tel.: +49 2645 137 350
Fax: +49 2645 137 239
carmen.lahr@geutebrueck.com
www.geutebrueck.com



full internet control.

ULISSE FOR NETWORK CAMERAS



The ULISSE for Network Cameras is the First PTZ specifically created for CCTV applications in combination with the modern **ONVIF SD, HD and Megapixel cameras**. All the PTZ and camera's functions, including wiper and preset, can be easily controlled via network, using most VMS on the market, with only one IP address device..

PERIMETER PROTECTION

Integrating Fence Detection and Video Analytics

Port of Charleston is one of the busiest container ports along the United States' Southeast and Gulf coasts. Moving more than 600,000 pier containers per year and ranked 8th largest U.S. port in cargo value, with \$50 billion in annual shipments, Charleston is recognized as North America's most efficient and productive port. As a vital hub for global freight transfer, implementing a site protection solution that would safeguard facility infrastructure without adverse affect to flow of cargo was a critical goal.

Wando Welch Terminal is Port of Charleston's largest terminal, both in cargo volume and physical size. Jeff Brown, HNTB consultant and contractor to South Carolina State Port Authority, has managed the SCSA security program since 2005. Overseeing perimeter protection and access control for the Port's terminals, he was tasked with enhancing Wando Welch's perimeter security system. As the Coast Guard representative responsible for reviewing South Carolina State Port Authority's facility security plan, Jeff Brown evolved into directing Port of Charleston's security operations when a consultant with his credentials was needed to customize a plan complying with new legislation.

Identifying the Challenges

In evaluating program options, Brown considered the Port's unique security challenges. Prior to 9/11, ensuring secure transfer of cargo was a key focus at Wando Welch Terminal, and roving patrols by Port Police managed loss prevention. With the prospect of terrorist breach, a system that could reliably detect and monitor disturbances at the perimeter became the new paradigm.

A must for Brown was finding a solution that successfully addressed a marine environment; one that remained in near constant motion between ship, vehicle and foot traffic. This scenario would trigger nuisance alarms in most security systems, so the new system needed the intelligence to recognize and ignore traditional environmental disturbances to avoid desensitizing monitoring personnel with false positives.

Another challenge was balancing the divergent priorities of airtight terminal security and efficient cargo transfer. By definition, complex counter-terror measures had the potential to slow the pace of a facility consistently recognized for high productivity. It was imperative to narrow the solutions to those that delivered superior intrusion detection without being cumbersome to administrate.

"At the very core, Port Operations and Port Security are 180 degrees out of phase because Operations wants to move cargo as quickly as possible. It's all based on turn times," Brown explained. "But you've got shipping lines that rely on the Port Authority to securely transfer their cargo and 105 Regulations in place, so Port Police needs the security of the terminal ensured."

Brown describes working through these conflicting issues as one of the most difficult functions he performs, and cites strong communication as the key to effectively bridging the gap between Operations and Security. He coordinates closely with port operations, engineering, IT and maintenance teams. He also regularly consults port police, customs and border protection, the U.S. Coast Guard, and Project Seahawk – an innovative pilot program at Port of Charleston created by Congress under the guidance of the Department of Justice to enhance port security operations, capabilities and coordination. By understanding and addressing the needs of each of these constituents, Brown has managed to deliver a security program that satisfies all parties.



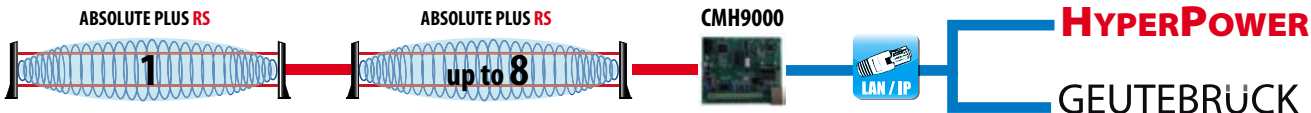
WWT © Marvin Preston



PureTech's PureActiv provides intelligent video analytics, 3D geospatial command and control, autonomous PTZ tracking and open architecture for ease of integration with the MicroPoint Cable system.

Southwest Microwave's MicroPointCable system pinpoints fence cut or climb attempt to within 3m, while ignoring environmental disturbances such as wind, rain or vehicle traffic.

SICURIT Perimeter Protection Systems



**NEW INTERFACE
CMH9000**



Your Plug&Play interface for linking over IP Digital Dual Technology Barriers *ABSOLUTE PLUS* and Digital Microwave Barriers *DAVE* into **HyperPower** and **Geutebrück** systems.



Find out more at www.sicurit.com

Developing Plan

Mapping out security program expansion guidelines for each of the facility's five non-continuous terminals was Port of Charleston's greatest challenge. "105 Regulations say that you have to monitor your perimeter and access points, but it's up to the individual entities to figure out how to comply," Brown explained.

To address this responsibly, Brown and his team formulated a comprehensive Security Improvement Plan – an industry best-practice concept incorporating solutions that delivered the protection required by Port Authorities, and addressed the risks identified by the Port during vulnerability assessments. "To put together a plan of this magnitude, we had to take a holistic approach," outlined Brown. "There was extensive coordination between Operations and Security. Each of the Port's various internal and external constituents were consulted."

Traffic flow at each terminal was evaluated toward restricted area boundary redefinition, and detailed site diagrams and project cost estimates were developed. The plan eventually included equipment design and performance specifications for the initial upgrade at Wando Welch Terminal. "This master plan has been critical to the success of Port of Charleston's security program," Brown emphasized. "All affected parties agreed on it. Everybody understands what is expected, how it will be delivered and what the price tag will be." In fact, Brown reports that the plan's elaborate detail has been an important factor in the Port's ongoing success in securing grant monies for bringing the security upgrades to fruition.

The Integration Partner

Upon plan approval, Brown tackled hiring a systems integrator to handle the installation. To attract only highly qualified candidates, he employed rigorous selection criteria that included evaluation of each firm's technical certifications, breadth of manpower, implementation history for similar systems and quality assurance parameters.

"We had our design, so everyone would be delivering the same product," Brown recalled. "I wanted to know how a prospective partner would strategically approach the installation, and what they would do to set themselves apart. We expected a thorough plan of action." Port of Charleston ultimately selected I-Sys Corporation of North Charleston, South Carolina. Along with capabilities that satisfied Brown's stringent requirements, I-Sys committed to providing a level of service that included 24-hour response time, 72-hour resolution of issues and a 3-year warranty on installed product.

An Intelligent Solution

According to Port of Charleston's Security Improvement Plan, a key requirement of the new perimeter system was its ability to precisely

locate fence line breaches and monitor intruders from point of attack through incident resolution. Brown acknowledged that it would be unmanageable and costly to install cameras along every linear foot of its irregular boundary for this purpose. Instead, the Port chose two market-leading intelligent detection solutions: Southwest Microwave's Intrepid MicroPoint Cable fence detection system – which offered pinpoint intrusion location and tie-in of detection zones to CCTV camera presets – and PureTech's PureActiv wide area video surveillance system – which successfully identified and tracked qualified targets.

"There weren't many companies who could deliver what we wanted," said Brown. "We went through an exhaustive process to ensure that we were going to get the most appropriate, best of breed perimeter security system."

The synergistic solution they selected enabled the Port to strategically place visible light, infrared illuminated and thermal pan-tilt-zoom cameras controlled by the PureActiv system at key points along the perimeter, and integrate them with the MicroPoint Cable system to quickly locate and react to intrusions across the port's vast property.

"We chose MicroPoint because it was the only sensor that could detect to within 3 meters and direct camera PTZ activity to incident location," Brown explained. "PureActiv provided intelligent video analytics, 3D geospatial command and control, autonomous PTZ tracking and open architecture which easily integrated with MicroPoint and our Lenel access control system." Brown recognized that the Southwest Microwave fence detection system had been successfully paired with PureTech's video analytics package at other sites, including City of Phoenix Water and Tucson International Airport. "The fact that this was not the first time these two products have been integrated, that all the kinks had been ironed out, was invaluable to me."

Extensive Testing

Once the MicroPoint Cable/PureActiv system was installed, the Port's security team, I-Sys Corporation and PureTech conducted thorough performance verification testing to ensure round-the-clock functionality at every point along the fence line. "We painstakingly went to each camera and had an 'intruder' run, walk, roll, crawl and climb the fence to ensure that cameras and fence sensors worked properly," said Brown. With an extensive array of PTZ cameras, this endeavor took weeks to complete. While Brown concedes that the testing was more rigorous than most, results were overwhelmingly positive. "I expected our vendor to prove to me that the system was ready to do what it needs to do," Brown recalled. "They knocked it out of the park. It was an amazing success." In fact, Brown remarked that in general, the new solution far exceeded his expectations both

during the testing phase and initial implementation.

A Solid Solution

Port of Charleston's new perimeter detection system solves the facility's main concerns, terrorist breach and cargo loss. Southwest Microwave's Intrepid MicroPoint cable system allows the Port to confidently pinpoint a cut or climb attempt to within one fence panel. PureTech's PureActiv system reliably analyzes disturbances, then smoothly tracks and manages qualified events until they are resolved.

Each product has contributed to solving environmental nuisance alarm issues common to other detection technologies. MicroPoint effectively identifies fence attacks while ignoring distributed environmental disturbances such as truck traffic at the Port. PureActiv copes exceptionally well with the diversity of port environments, including busy waterside cargo loading areas, long fence lines, active roadways and controlled entrance and egress points.

The solution has delivered the port a cost-effective system for detecting intrusions along a lengthy perimeter, and an efficiency that reinforces both systems' smart sensor capabilities. The ability to assign detection zones in system software at any point along the cable has reduced hardware requirements and simplified assessment. PureTech's analytics can identify targets at long ranges, minimizing the required number of cameras and simplifying monitoring processes. By employing standard cameras, the system further reduces cost and gives the port installation flexibility without compromising detection standards.

"I could not be more pleased with the new system," Brown stated emphatically. "I do not think there are other products out there that do what MicroPoint Cable and PureActiv can. These solutions are so well integrated that I almost forget that they are two separate systems. The entire perimeter security system performs the way it's supposed to. If every system I implemented worked as well, then my job would be easy."

CONTACT

Eric Olson

PureTech Systems, Phoenix (AZ), USA
Tel.: +1 602 4249842 · Fax: +1 602 4249842
eric.olson@puretechsystems.com
www.puretechsystems.com

Maira Zanosso

Southwest Microwave Inc., Tempe (AZ), USA
Tel.: +1 781 899 6761 · Fax: +1 781 899 6761
mairaz@southwestmicrowave.com
www.southwestmicrowave.com

Network Video Management

DVTel announced availability of its latest version of Latitude NVMS V6.2. This release gives operators and administrators greater configuration flexibility, ease of access for casual users through Internet Explorer, and a mobile video application feature that turns Android phones into an IP video surveillance camera. The system also features transcoder improvements for remote viewing (outputs of H.264, MPEG4 or MJPEG), integrates the manufacturer's EV series encoders with audio support, and

offers additional 3rd party camera support (beyond the current 300+ models) from Axis, Arecont, Bosch, Panasonic, Pelco, Sony and Cisco to name a few. "DVTel is very pleased to bring this latest version of Latitude to market. We believe current users will benefit through its increased flexibility, improved performance and speed of set-up," said Ami Amir, EVP, Marketing and Products.

info@dvstel.com

► Ifsec · Hall 4 · Stand E20

ICNIRP Standard Field Measuring

Narda Safety Test Solutions offers low-frequency electromagnetic field measuring devices with evaluation conforming to ICNIRP 2010. PC software is available free of charge for the Electric and Magnetic Field Analyzer EFA-300, which enables uploading of the new limit values to the instrument. A separate "ICNIRP 2010" version of the Exposure Level Tester ELT-400 is available. All previous and existing probes can also be used with the new instrument.

support@narda-sts.de



All-in-One Cameras

Arecont Vision introduces the Megadome 2 series of all-in-one H.264 cameras combining megapixel resolution with remote focus, zoom, day/night and auto-iris capabilities. The new functionality will allow systems integrators to install the cameras without locally fixing the field of view or focus of the camera. All lens operations can be remotely controlled from the head end to refine the field of view and focus of the scene. Short or full range focus scan functions analyze the local or full scene to determine the best focus for the chosen field of view. The day/night camera is offering 1.3 megapixel resolution at 42 frames per second (fps), with the



Megadome 2 AV2255AM providing 1,080p full HD resolution at 32fps, and the AV2255AM has Casino Mode to ensure consistent 30fps recording for those users needing guaranteed frame rates.

www.arecontvision.com

► Ifsec · Hall 5 · Stand D50

Protocols Implemented

Being one of Geutebruck's partners, Sicurit Alarmitalia Spa has implemented Getas protocols for linking CMH9000 interfaces and Hyperpower control and monitoring platform into Geutebruck central CCTV management software Gevisoft. Hyperpower and CMH9000 series can be easily interfaced to any Geutebruck

DVRs/NVRs system sending so called actions in order e.g. to start an alarm, which results in a recording as well as for instance a PTZ camera moving to a preset position. The effects of actions can be configured in Geutebruck systems and no programming is needed for that.

www.sicurit.com



People expect more from technology today – or in other words, less. Less cables, less equipment, less hassle. Why should video surveillance be any different?

AXIS Camera Companion lets you offer cutting-edge network video also to customers with smaller areas to cover, giving them the advanced options they're looking for today. AXIS Camera Companion records all video directly on each camera's SD-card – so no need for DVRs, NVRs, extra cables, or even a computer during operation. With superb HDTV image quality and remote and mobile live viewing, it's a no-brainer for your customers. And with its easy installation, low maintenance and competitive price, it's a dream-come-true for you.

AXIS Camera Companion – the easiest way to network video surveillance.

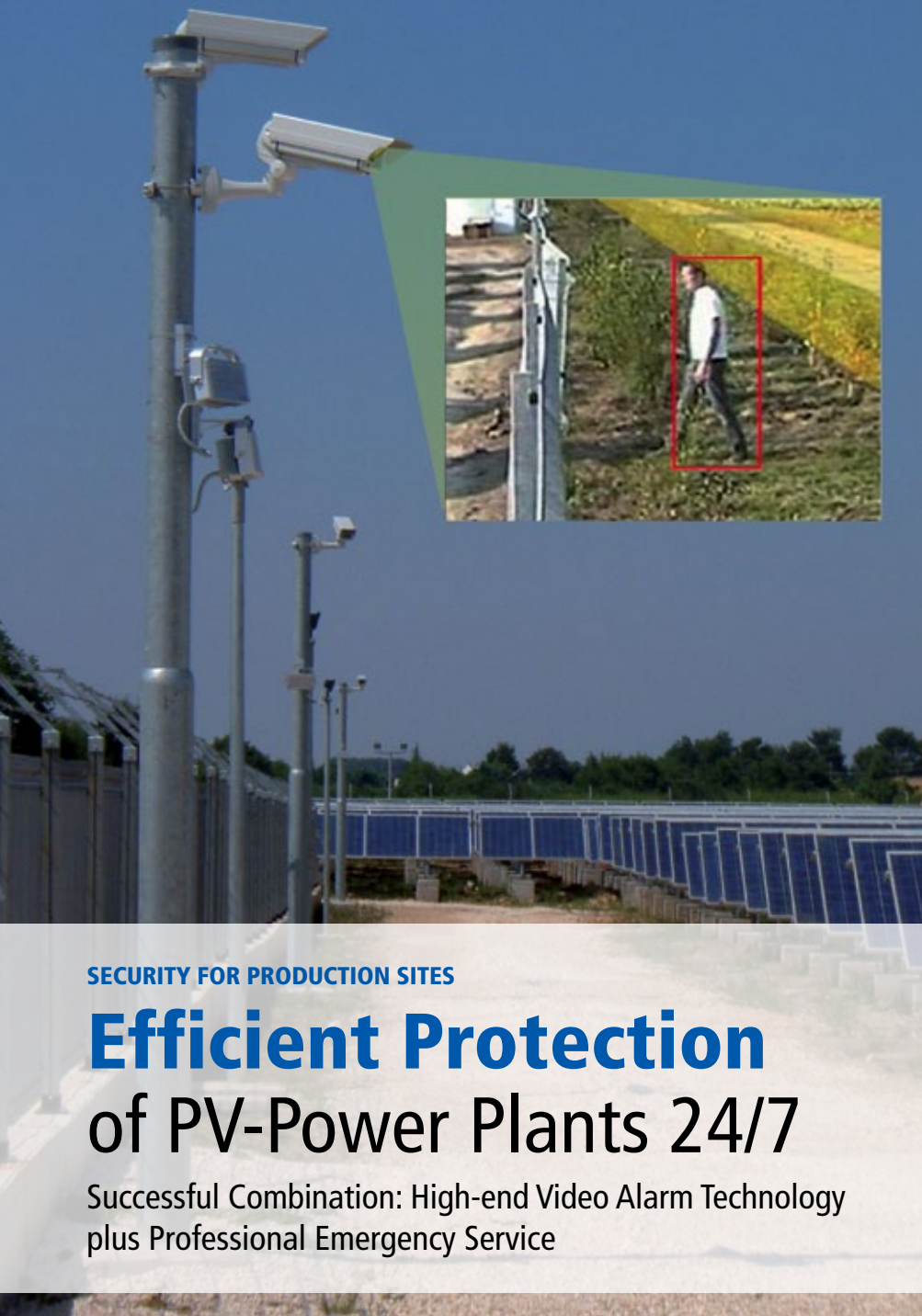
Get the Axis picture. Stay one step ahead.

Visit www.axiscameracompanion.com



- HDTV image quality
- Direct recording on SD cards (no DVR needed)
- Viewing apps for iPhone, iPad and Android
- Cameras powered over the network
- No PC needed for operation
- Free viewing client
- Scales easily from 1 to 16 cameras
- Encoders support for analog cameras
- No single point of failure





SECURITY FOR PRODUCTION SITES

Efficient Protection of PV-Power Plants 24/7

Successful Combination: High-end Video Alarm Technology plus Professional Emergency Service

Globally, photovoltaic systems connected to the grid rose from 16.6 GigaWatt (GW) in 2010 to 27.7 GW in 2011. The number of markets reaching more than 1 GW of additional capacity during 2011 rose from 3 to 6. In 2010 the top 3 markets were Germany, Italy and the Czech Republic; in 2011 Italy leads the ranks and Germany, China, the USA, France and Japan follow, each with over 1 GW of new capacity.

In an article in the May issue of GIT SECURITY in 2010 we did show how huge solar parks can be effectively protected against vandalism, sabotage and theft by intelligent video alarm systems. Through the implementation of thermal cameras and an enhanced connection to monitoring service providers, solution provider viasys has further improved their solution for an extremely efficient surveillance of solar parks.

Efficient Perimeter Protection

One of the best concepts for the protection of outdoor area photovoltaic power plants is fence protection that combines video surveillance with high-end video analytics. High-end video analytics reliably generates alarm images in case of a perimeter violation. The "classic way"



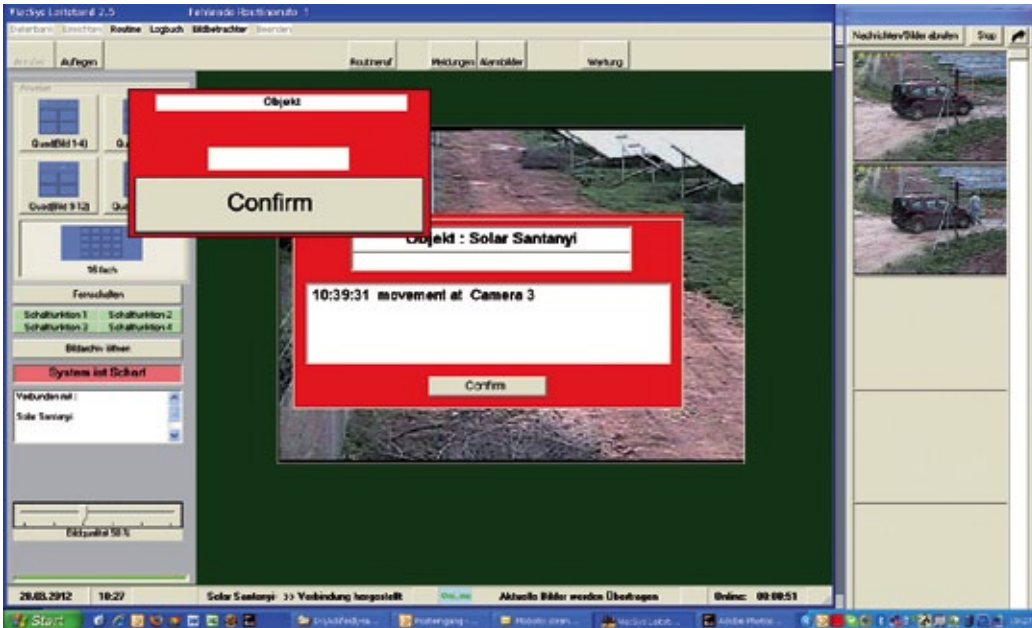
Video detection with thermal imaging cameras works excellent in outside conditions

to combine video surveillance with sensors includes the use of mast-fitted high quality day/night cameras in combination with LED infrared illuminators. The data captured by the cameras is transmitted to video analytics system where the data is analysed.

"The video analytics software installed is of vital importance," says Hannes Ackfeld, CEO of viasys. "Simple virtual trip wire and motion detection functionalities that are sometimes included in camera software, are not sufficient."

Motion detection is sometimes referred to as a 2D tool, while state-of-the-art video analytics allows you a view into the third dimension and to differentiate between objects close to the camera and objects far away. The software must exclude false alarms triggered by animals or weather but at the same time detect relevant incidents like intruders or vehicles reliably and then directly transmit the alarm images to the connected monitoring centre in order to start the predefined intervention. The viasys analysis software permanently checks the delivered images for movements and analyzes them using various complex software filters. Different parameters and advanced algorithms are used to customize filters for different situations. An alarm is only triggered in response to a clear motion sequence.

In standard video surveillance situation, an operator has to constantly monitor the screen for incidents. This leads to a heavy workload, decreased concentration and a low reaction speed. A recent study that examined CCTV operators watching a 90-minute video with the task to verbally report the detection of four target behaviours, showed that almost a quarter of the operators lost concentration in the first thirty minutes, almost two thirds in the second thirty minutes. The viasys video alarm system recognises only relevant movements by eliminating



Alarm message linked to an intervention plan inform the operator

most of the inconsequential activities like animals, moving clouds etc. Until an alarm is triggered by persons or vehicles and an alarm image is transmitted to the monitoring centre, the screen remains black. In case of an alarm, the corresponding video picture is displayed immediately with the motion marked by a detection frame like a pop-up on the screen.

Fast Reaction Via a Control Centre

"It is crucial for a 24/7 protection of solar parcs that the sites are directly connected to a competent security control centre," adds Hannes Ackfeld. "We work with leading emergency hotlines and security control centers like ADT, G4S, La Vigilanza, Prosecur, Securitas, Pysec and W.I.S. We have developed specific intervention plans for every possible event that might occur. With the advanced software not only an alarm pops up at the operator's screen, but he also gets displayed all the instructions and options for action to be taken. Every step is documented and the client gets a detailed alarm protocol that makes it easy to check the whole system. This is also important to prove that everything was done the correct way e.g. if there are discussions with insurance companies or the owners of the solar parc. Providing a solution means not only to capture an incident with the camera, to ana-

lyze it, to forward the alarm to an operator but also to complete the process chain until the police takes over or patrol arrives at the site. So often we do find that components of a process chain work well but not the whole system. This has led us to create our own control room software tailor-made for an alarm work-flow."

Video or Thermal Imaging?

Although for a high accuracy of the video alarm system high quality cameras are necessary, only a low bandwidth is required for the connection to the emergency hotline. For remote sites it is possible to send the alarm message and pictures from the site via UMTS mobile phone networks. The quality of the pictures is sufficient to decide what action is to be taken to react on the threat. Especially in the US, more and more installations are built, where independent units of poles equipped with solar panels, cameras and a battery work together via a wireless networks without any cabling.

Since 2007 viasys has already protected over 200 sites in Germany, Spain, Italy, France, Bulgaria, Czech Republic and USA. The large number of installations is a proof of the reliability of the system and is the basis for the experience the company now can rely on. In the first years viasys was installing CCTV cameras combined with their video analytics software.

cally change the situation for video analytics. Video detection with thermal imaging cameras does work excellent in outside conditions. In bad lighting conditions where video footage from CCTV cameras needs additional LED IR illumination, thermal imaging cameras still deliver the high contrast footage that is necessary for video analytics," adds Hannes Ackfeld.

It takes 8 minutes 19 seconds for light to travel from the sun's surface to earth, some seconds to transfer the energy of the sun into electric power and with an intelligent perimeter protection system it takes only some more seconds before an intruder of a solar parc creates an alarm that will be taken serious.

► CONTACT

viasys Intelligent Video GmbH,
Frankfurt, Germany
Tel.: +49 69 7191388 0
Fax: +49 69 7191388 66
info@viasys-iv.com
www.viasys-iv.com

WHAT NOW?

HOW WILL YOU EVACUATE SAFELY?



If you don't know the answer then Evac+Chair can supply you with the right solution.

Evac+Chair is a universal evacuation solution for smooth stairway descent during an emergency. Single user operation ensures no heavy lifting or manual handling is required during emergency evacuation procedures.

For more information visit our website at:
www.evacchair.co.uk



T: 06238 984 6810

F: 06238 984 6835

T: +44 (0)121 706 6744
E: enquiry@evacchair.co.uk
W: www.evacchair.co.uk

Evac+Chair International Ltd
ParAid House Weston Lane
Birmingham B11 3RS



SECURITY FOR PRODUCTION SITES

A Big Impact at Nishat Mills Power Plant

Production Sites Demand a High Level on Security 24 Hours

When it comes to security for Pakistan's Nishat Power Limited power plants – located in the city of Jambar Kalan and their head office in Lahore – one can see considerable development during recent time. From late 2010 through the first quarter of 2011, Nishat management took steps to install security at a number of their Pakistani power facilities. For these installations to be made, both inside the plants and out, Hikvision was brought on board to ensure the highest level of quality.

A Decision for Higher Security

Management at Nishat Mills Limited, the parent company of Nishat Power Limited, decided to introduce a comprehensive security system specifically to monitor movement of personnel and outside traffic. In order to do so, a number of considerations were taken into account: foremost among them, the architectural layout of the facilities, lighting conditions, and the variety of dissimilar working areas. In the later case, the differences extended between employees working outdoors on the top of elevated buildings, to smaller office spaces used for shipping.

In order to achieve these security arrangements, Kamran Rashid, CEO of Digital Links – the Pakistani firm contracted for this project – relied upon Hikvision. Mr. Rashid noted, "Initially, management at Nishat was leaning towards low price security components. But, it took only a brief meeting and demonstration to establish the quality that Hikvision brings to the table. After, Nishat management was firmly convinced that Hikvision was the way to go."

Yet, the question of actually how to secure all of these varying locations still needed to be addressed. Mr. Rashid decided "to use a variety of Hikvision cameras, since each of these specific models offers a technological strength to overcome a particular problem."

The Outdoors

Case in point was the outdoor working area, where employees often roamed the top of tall boilers in their day-to-day operations. Hikvision's DS-2AF1-517B 36x WDR Speed Dome was selected to perform this task. These speed domes were strategically placed upon higher facilities, such as chimneys or poles, to take advantage of the DS-2AF1-517B's ability to view all areas of the horizon.

Additionally, "the excellent zoom feature was critical to accurately monitor what these

workers were doing as a means of ensuring their safety and the overall security of the plant," Mr. Rashid explained. Features such as a 1/4" Sony CCD, proportional zoom function, and 3D intelligent positioning function are but a few of the features that allow this speed dome to see both individual workers, and a detailed view of the horizon of this plant.

Staying outdoors, the DS-2CC192P-IRT Analog Camera was tasked with securing the perimeter of the facility. To take advantage of a 40-meter IR range capacity, this camera was placed on gates and boundary walls to secure the perimeter. Built within a sturdy and compact structure design, the DS-2CC192P-IRT features a 1/3" Sony CCD, vari-focal lens with auto focus, wireless remote with zooming function and the ability to operate within a minimum illumination of 0.1Lux @ F1.2 (0 Lux With IR) all combined to offer a "perfect camera to use in the daytime and at night to see what is happening on the periphery of these power plants," Mr. Rashid explained.

Of particular note, the ability to remotely zoom onto objects at night was exceedingly important. Mr. Rashid noted, "We have the ability to see whatever might be of interest to us – be it an automobile license plate or a person walking – at the touch of a button and all with the confidence that lighting is not an issue."

Inside

Inside the power plants, two different Hikvision speed domes were utilized. For smaller rooms, the DS2CC502P-M Dome camera was chosen. In these areas, often staffed by only a handful of employees for tasks such as shipping, the ability to see detail was paramount. "Obviously, security personnel need the ability to quickly adjust the cameras vantage point and zoom onto an area in great detail. In locations such as this, detail is king," Mr. Rashid elaborated upon.



The tremendous detail required is provided by another 1/3" Sony CCD, auto white balance, auto gain control, electric shutter control and backlight compensation; all the while guaranteeing high performance regardless of light level with a low illumination capacity of 0.1Lux at F1.2. Yet, in larger indoor areas, such as control rooms that monitor engines and other vital machinery, Hikvision's DS2CC572P-M Dome camera was used. Mr. Rashid explained, "For rooms such as this, where there is a lot going on – such as multiple lines of control panels – we really needed to take into account the specific dynamics of the working space."

One example of this was the low ceilings. This limited the use of a traditional box camera and put the focus onto a dome, which has the ability to give more flexibility in these con-

ditions. Both clear detail and an equally clear picture of a broader area were deemed important factors that needed to be addressed by this camera. And with Hikvision technology, such as digital signal processing, internal synchronization and day/night functionality with auto-switch, both were.

Finally, Hikvision's DS-7316HI-S Standalone DVR allowed these Nishat power plant managers the ability to view live streaming video, playback, and configure video parameters utilizing the LAN function – and all from their offices. Utilizing Hikvision's IVMS-4000 software to seamlessly link supervisors' computers to Hikvision DVRs has proved to "increase both efficiency and introduce a more streamlined method of sharing video information," Mr. Rashid explained. "Furthermore," he elaborated, "utiliz-

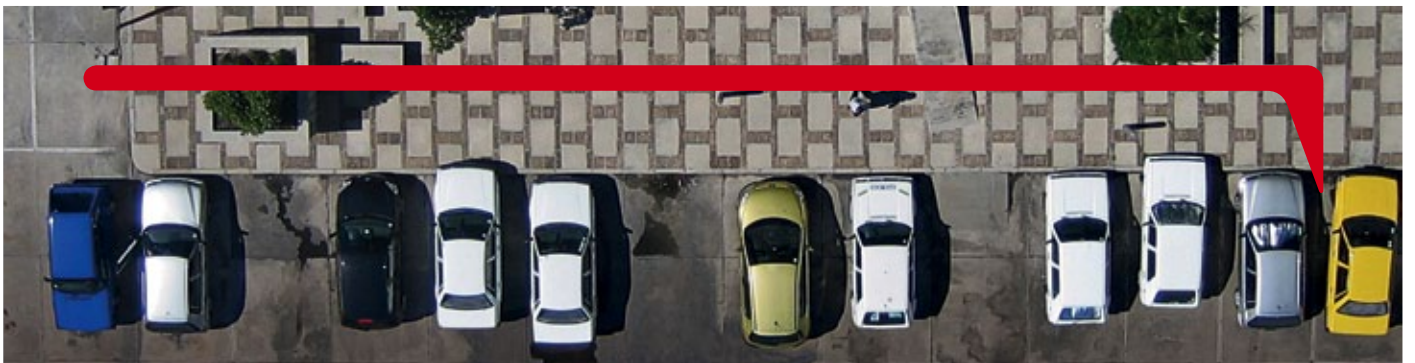
ing H.264 video compression and each DVR's 4 SATA HDD at 2TB each, the requirement of 15 days recording is no longer an issue. We are very happy with the hard-drive space."

Benefits

The exemplary performance of Hikvision at these Nishat plants has had a cascading effect. Mr. Rashid noted, "From performance, to the ability to generate savings, to the excellent customer service, Hikvision has made a very positive impact in these Nishat facilities."

CONTACT

Hikvision, Hangzhou, China
Tel.: +86 571 88006060 · Fax: +86 571 88006060
wulin@hikvision.com · www.hikvision.com



See the difference.

Ideal for use in security surveillance solutions, the Canon 1.3 megapixel range all share high specifications, including high resolution and embedded analytic functions. The VB-M40 PTZ has 20x optical zoom, all other models offer an ultra-wide-angle lens with over 100° field of view. With a range of indoor and outdoor accessories, you'll find Canon offers everything you need for a robust surveillance solution.

To discuss your network camera requirements, get in touch with Canon today.

Come and see us at IFSEC Hall 4, Stand E40.
network.cameras@canon-europe.com



VB-M40



VB-M600D



VB-M600VE



VB-M700F

Canon

All devices are in conformance with ONVIF (v1.02) and therefore can be easily integrated in systems with 3rd party ONVIF compliant equipment.



Klaus Altmeyer,
Head of Technical
Security at BASF
Ludwigshafen



SECURITY FOR PRODUCTION SITES

Suspicious Heat

Thermal Imaging Cameras Help Secure the Perimeter at BASF

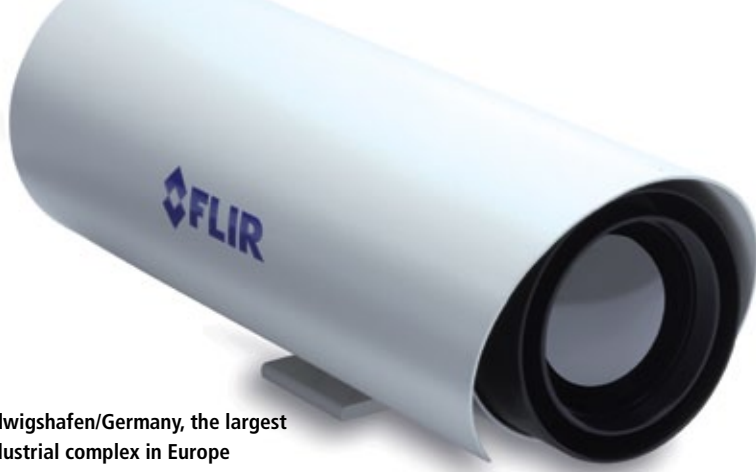
In 1865, Friedrich Engelhorn founded the initially small scale chemical company 'Badische Anilin- & Soda-Fabrik AG'. The company grew over the years into the world's leading chemical company nowadays known under the name 'the BASF Group' with a portfolio ranging from oil and gas to chemicals, plastics, performance product and agricultural products. With over 200 chemical production plants, several hundred laboratories, technical centers, workshops and offices, the BASF headquarters in Ludwigshafen, Germany, is the largest integrated industrial complex in Europe, covering an area of over 10 square kilometers. With large amounts of potentially dangerous chemicals coming and going and numerous highly classified chemical processes going on it goes without say that perimeter security is a big issue.



The difficult task of protecting the entire perimeter of the complex is the responsibility of Klaus Altmeyer, Head of Technical Security at BASF Ludwigshafen. "We take the perimeter protection very seriously, so we want to make sure that we use the best detection tools modern technology has to offer. That is why we have incorporated thermal imaging cameras in our perimeter protection program."

"The system has to be able to detect every single intruder, no matter what the lighting conditions are", Altmeyer explains. "But that is easier said than done, for the perimeter of the complex is about 20 kilometers in length and

◀ The red line represents the diverse perimeter of the BASF plant in Ludwigshafen.



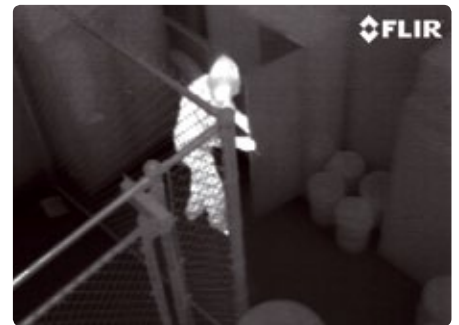
◀ BASF in Ludwigshafen/Germany, the largest integrated industrial complex in Europe

▲ Flir SR-Series fixed mounted thermal imaging security camera.

it borders several different types of terrain. On one hand there is the river Rhine, on the other side there are motorways and another part of the perimeter borders the city. To defend such a diverse perimeter we need to employ a wide variety of detection tools, such as ground sensors, fence sensors, motion detectors and such. But in some areas many of these tools are simply not satisfactory. They might produce too many unwanted alarms, due to vibrations caused by heavy traffic, for instance, or the layout might not leave enough room for them to be installed, or environmental factors make their use impractical. We therefore needed a long range

detection tool to provide improved perimeter security."

At first Altmeyer investigated the use of visual light CCTV cameras, combined with advanced video analytics software. "But in my experience automatic video detection does not work in outside conditions, at least not to the high standards we have here at BASF. In bad lighting conditions the video footage from CCTV cameras simply do not provide enough contrast for automatic intruder detection. Then I learned that FLIR Systems was marketing a new product: thermal imaging cameras for perimeter security. I made contact with Bertrand Völckers from FLIR



▲ Potential intruders show up clearly on the high contrast thermal images produced by the FLIR SR-Series thermal imaging cameras.

Smart IP, Smarter Protection

MESSOA[®]

MESSOA TECHNOLOGIES INC.

· USA · JAPAN · TAIWAN · CHINA

Email: info@messoa.com

URL : www.messoa.com



2-Megapixel Full HD Network Cameras

Get smarter protection and enduring results! MESSOA offers a complete range of 2MP network cameras featuring advanced MegaSmart™ video intelligence and superior video quality optimized by proprietary Lumii™ imaging technology to assist you in setting up your video surveillance systems the smart way!

Full HD

ONVIF



Systems and he demonstrated this new product. I immediately realized that this was exactly the type of sensor I was looking for."

CCTV cameras rely on color contrast and are therefore dependent on the presence of enough light to generate high contrast footage. Thermal imaging cameras record infrared radiation, which is emitted by all objects as a function of their temperature. The temperature difference between a human body and its surroundings allow thermal imaging cameras to provide high contrast images that the video analysis software can use to accurately detect intruders regardless of lighting conditions.

Extensive Tests

To make sure that a system based on thermal imaging detection tools would function perfectly Altmeyer performed extensive tests before purchasing the first cameras. "After we were certain it would work we bought a couple of dozens of FLIR thermal imaging cameras to secure the river bank. This was back in 2007. The thermal imaging cameras proved to be a very good solution. After seeing the success of the thermal imaging cameras at this location we decided to expand the use of thermal imaging cameras."

Depending on the requirements of a particular location with regard to field of view the FLIR SR-324 or SR-334 was used. If the advanced video analytics software detects movement on

the thermal footage these cameras produce, CCTV cameras on a pan and tilt platform are automatically pointed at the location of the intrusion, to give the guards in the control room the best possible view of the situation. "During the daytime we can use those CCTV cameras to identify the subject. If the alarm is triggered during the night, we send out walking patrols with dogs to investigate."

Easy Installation and Low Maintenance

Installing the FLIR thermal imaging cameras was relatively easy and the system requires little to no maintenance, according to Altmeyer. "We already had masts in place for the CCTV cameras, so all we had to do was to affix the thermal imaging camera, plug in the power cable and the fiber optics cable that transports the thermal video footage to the central control room. No additional infrastructure was required. We've been using these thermal imaging cameras from FLIR Systems for years now, operating 24/7, and not once did we have a technical problem. No maintenance was needed until now."

"The unwanted alarm rate is also very low", Altmeyer explains. "Thermal imaging cameras rely on thermal contrast instead of color contrast, so the video analysis software can very accurately distinguish between an actual intruder and flying birds or shimmering water, for instance. The only unwanted alarms we had in

all these years were actually welcomed by the guards. When specialists of our environmental department come to take water samples at the river bank then the alarm goes off. But this is actually a good thing, the control room guards assure me, for this confirms that the system really works."

Mobile Thermal Imaging

The success with the FLIR SR-Series fixed mounted thermal imaging cameras has also led to the purchase of mobile hand held thermal imaging cameras of the FLIR HS-Series. "We have bought two of these cameras for the guards to take with them when they investigate an alarm at night. The guards can use the thermal imaging camera to see whether there really is an intruder and where that intruder is, allowing them to prepare for the encounter. This not only helps with the early detection of intruders, but also enhances employee safety." "I am very happy with the overall performance of the FLIR Systems thermal imaging cameras", concludes Altmeyer. "I am convinced that thermal imaging might also be a solution for the security issues that some other BASF sites are facing."

CONTACT

FLIR Commercial Systems, Breda, Netherlands
Tel.: +31 765 79 41 94 · Fax : +31 765 79 41 99
flir@flir.com · www.flir.com



DISCOVER NEW OPPORTUNITIES & IMPROVE YOUR KNOWLEDGE

VISIT **IFSEC INTERNATIONAL** TO STAY COMPETITIVE IN YOUR MARKET, DISCOVER NEW BENEFITS OF **ANALOGUE, IP AND HYBRID SOLUTIONS** AND TAKE ADVANTAGE OF FREE TECHNICAL EXPERTISE AND ADVICE.

ACCESS CONTROL | CCTV | COUNTER TERROR | FIRE SOLUTIONS | INTRUDER ALARMS | IP/NETWORK SECURITY | LONE WORKER | PHYSICAL SECURITY

IFSEC INTERNATIONAL IS PART OF THE PROTECTION & MANAGEMENT SERIES, UNITING SECURITY AND FIRE WITH FACILITIES AND SAFETY PROFESSIONALS.

REGISTER FOR FREE ENTRY QUOTING: GSMA AT WWW.IFSEC.CO.UK

SUPPORTED BY



14-17 MAY 2012
NEC BIRMINGHAM, UK

SEARCH IFSEC   

FEATURING:

- ▶ NEXT GENERATION CCTV & SURVEILLANCE THEATRE
- ▶ SECURITY MANAGEMENT THEATRE
- ▶ TAVCOM TRAINING THEATRE
- ▶ IP ASSURED ZONE
in association with Anixter
- ▶ INTELLIGENT INTEGRATION ZONE sponsored by ISM

OFFICIAL
MEDIA PARTNER



ORGANISED BY



Access Control Innovations

Salto Systems will present its access control solutions at Ifsec 2012 (stand D40 hall 4) including the latest additions to its XS4 platform. It provides a wire-free networked electronic locking solution with a great range of features. One of the newest additions to the XS4 product range is the electronic lock with keypad providing a choice of locking methods on doors where extra levels of security and control may be needed. It offers multiple security authentication methods to control access including proximity card, combined use of a PIN code + proximity card or a separate keypad code. It is also available in a wireless version for online real-time control. Joining this will be Amok, the manufacturer's electronic escutcheon designed for use in the educa-



tional environment. It has a built in card reader on the inner escutcheon which enables users to activate the Amok function mode in order to lock down the room quickly.

info@saltosystems.com

► Ifsec · Hall 4 · Stand D40

Vandal-resistant Dome Camera

Grundig has introduced a vandal-resistant WDR CCTV camera, the Pixim fixed dome. It uses a 1/3" CMOS Seawolf sensor for a particularly high WDR performance. Each pixel's data are processed separately. Every part of the digital image produced by the camera has optimal exposure and color reproduction accuracy, irrespective of lighting conditions. It provides clear and detailed images. "Blooming" and "dazzle" can be widely eliminated. The dome camera is designed for high-contrast lighting conditions, and can be integrated into intelligent video analysis applications such as license plate

or facial recognition. The day/night camera has a removable IR cut filter. Its color resolution is 690TVL with black and white at 800TVL. It has an external weatherproof housing rated at IP66, 3-axis gimbal with surface, flush and angle mounting options and a Tamron vari-focal lens of f = 2.8–10.5mm. Motion adaptive digital noise reduction is another feature. The Company's camera range also includes two fixed dome and two speed dome cameras, based on the 1/3" Sony PS Super HAD CCD, also with advanced WDR capability.

simone.kischkat@asp-ag.eu

► Ifsec · Hall 5 · Stand C30

All-in-One

With its enhanced Modular Alarm Platform 5000, Bosch now enables automatic fire detectors, such as the 420 Series, to be automatically integrated into the platform's LSN ring. This removes the need for special fire detectors with relay bases. The new release represents a particularly cost-effective and time-saving solution for installer and customers. These services make the platform attractive for applications where an intrusion system is mandatory – and where the customer wishes for additional fire detection. A common example is a bank foyer with automated teller



machine, accessible day and night. While the foyer is always equipped with intrusion technology, it does not necessarily have a fire detection system. However, with the updated version of the system, the vlessly integrated into the intrusion system.

erika.goerge@de.bosch.com

► Ifsec · Hall 4 · Stand F90

Imaging Solution Optimized for IR-Assisted Cameras

Pixim launched its Nightwolf imaging solution specifically designed for IR-assisted CCTV and IP cameras. It eliminates hot spots common to IR cameras with near-field reflective objects in the scene and correctly exposes highlights as well as darker background details simultaneously. A typical IR-assisted CCD camera attempts to solve the hot spot problem by either closing down a mechanical iris or dimming the infrared LED lights. While either of these compromises can help avoid hot spot satura-

tion, the resulting side effect is that the camera loses critical shadow detail greatly reducing the utility of the captured video. With its imaging technology, the solution is able to capture both foreground and background details even in cases where very strong IR lighting is deployed. Use of expensive mechanical DC iris lenses or adjustable infrared LEDs is no longer necessary.

www.pixim.com

► Ifsec · Hall 5 · Stand D113

Camera for Highly Frequented Places

Riva's 2 Megapixel IP camera RC1100M with embedded 3D video analytics (VCA) has been designed especially for applications at highly frequented places and important vertical markets (logistics, retail, traffic monitoring systems). The camera offers extensive video analytics at simultaneous Dual Stream of MJPG and H.264. A lot of features, such as 2-way audio, digital in- and output, USB port and SD card slot, are included as standard. The extensive onboard video analytics VCA is easily upgradable with additional VCA filters (smoke/fire, perimeter intrusion, speed sensitive object tracking, directional detection,



color filter etc.) for individual requirements. A self-learning algorithm reduces the false alarm rate to an absolute minimum. The intuitive 3D calibration enables an easy and effective setup of the video analytics in a few steps. The transmission of large video data containing little or no process information will be avoided. This helps the users to save network and computer power and high costs for storage media.

www.rivatech.de

Comfortable Administration of Video IP Systems

Dallmeier's Pservice is an application that allows for a comfortable configuration and administration of the Company's Video IP systems. It scans the video network for Dallmeier devices, automatically detects those and displays them in an overview. Recorders and cameras can thus be administered conveniently. The comprehensive functions range from changing IP addresses to updates for camera and recorder software and up to user and rights administration. It is also possible to restart the devices. The application can be used for all the manufacturer's network cameras and all its recorders as from the fourth generation. The recorders and cameras that



are detected during the network scan can conveniently be moved to a directory tree using drag & drop, and then be divided into different groups, so-called virtual systems. This allows for a clear and structured representation of the entire Video IP system.

www.dallmeier.com

► Ifsec · Hall 4 · Stand D80



INFO SECURITY

The Dangers of Mobile Malware

An Ethical Hackers View on What Steps to Take to Stop Mobile Malware Attacks

The mobile phone is unrecognisable in comparison to its original 'brick' form of the 80s. Instead of a 'yuppie' status symbol, now it's considered by many as a necessity. In recent times mobile applications are available to use mobile phones as tools to control video surveillance and as keys for access controls systems. While battery life used to be considered the key feature, today it's a heady mix of memory capacity, browser speeds, megapixels, touch screen quality, HD ability, playback, sleek design and available apps. Hardly anyone thinks about how secure the device is when making that all important decision between Apple, Blackberry or Android.

As our handsets become more than just a way to make and receive phone calls, their appeal to criminals also increases. Of course, having the physical device stolen is a major inconvenience, but that is just one way criminals are monetising mobiles. Mobile malware, once theoretical, is now very much a reality and a growing threat.

For the business user, accessing the corporate network and viewing emails using their mobile devices, criminals might have access to data that can prove lucrative in the right hands. For VIPs it could be a little more personal as the little devils broadcast their locations via GPS. Even for the man on the street, with the introduction of mobile payments apps, there's more to lose than just the contact list and photos.

Malware on smartphones is used by criminals to make money. They steal information – contact details, emails, personal data or even financial information; they hijack browser sessions – interfering with online banking transactions and circumventing one time password (OTP) security procedures; even certain apps can have a malicious undertone for example sending SMS messages to premium rate numbers.

A worrying trend is that, increasingly, attacks are becoming more targeted and it's executives

that are firmly in the criminals' sights due to the valuable data they're carrying on their phones. Using a combination of SMS and social engineering tactics, hackers can spoof the phone number of a friend or a colleague to send an SMS asking the victim to click on a suspicious link etc, and opening up the phone to attack.

Malware Infections Rising

To prevent malware spreading, we're seeing a number of approaches from some of the mobile operating systems. Apple and Blackberry have introduced security protocols, in tandem with a meticulous acceptance process for apps offered via their stores. The picture is less secure for Android. Perhaps because it currently has the highest market share, the mobile operating system provides attractive returns for criminals. Another theory is that due to the openness of the platform and the existence of other markets from which to download apps, it's easier to infiltrate. Whatever the reason, the stark reality is that it attracts the most malware. That said, as market share moves and rogue programmers perfect their code, it would be foolish to think that any particular operating system will remain infallible indefinitely.

Prevention Better than Cure

The most successful form of attack against malware is a defensive stance and in this everyone has a function to perform. As they're on the front line, phone users themselves must understand the risks, and the criminals' tactics, if they're to practice safe phone use:

Step One – Are You Already Infected

It can be difficult for the end user to know if they do have any malware on their phones, but there are a few basic factors that can be indicative. Users should regularly check which apps are actually running on their phones. Anything suspicious should be deleted. Indicators that malware is present can also include decreased battery life (because there is something running in the background on the phone) or an increase in data use (as the malware transmits data from the phone).

Step Two – Block Activity

To prevent premium rate number scams, it is important to check your bill regularly for anything out of the ordinary or, better still, contact your provider and block this type of number.

Step Three – Prevent Infection

There are a number of elements to this that, while not a guarantee, will help minimise malware when used together.

- Antivirus software for mobile phones is available to download, however it is argued that they can be ineffective
- Settings on the phone can be changed to prevent installation of content that isn't from trusted sources
- Just like spam mail, be careful following links sent from contacts within the address book
- Only use bona fide marketplaces, such as the Google marketplace, to purchase and download apps. Of course the free ones, while attractive, could offer more than you bargained for
- Check the apps permissions before its downloaded and ensure you restrict them from conducting any unwanted activity

Regardless of whether the handset is corporate or personally owned, organisations should encourage their workforce to practice the security steps above.

For businesses issuing staff with phones, they should also consider:

- Installing anti-virus software as standard
- Look for, and deploy, tools that can manage mobile devices in much the same way as traditional PCs
- Think about device encryption capabilities to avoid data leakages resulting from device loss or left, and perhaps a solution that can remotely locate and destroy AWOL devices

- Where possible, restrict and control what can and can't be done on the phones
- If you can't stop it then create and communicate security policies that govern what data can, and can't, be accessed and stored. It is also essential that users understand why this is so important

Unlike viral desktop programs, phones aren't spreading infections from one to another or to other devices, so the spread of the threat is reduced. You have to either download a rogue app, or click on a bad link, to inject malware onto the phone. But that could change. If we don't get a grip on malware now, tomorrow we could be facing an epidemic as it's only a matter of time before criminals create malware that can and does jump between devices. Today, while we still have the power to stop mobile malware, let's work harder and smarter to unmask the secret assassin.

▶ CONTACT

Jaime Blasco

AlienVault Europe, Madrid, Spain

Tel.: +34 91 515 1344 · Fax: +34 91 413-5968

www.alienvault.com

The HSM SECURIO C16 document shredder, as the smallest member of the SECURIO range, is ideal for private use and small home offices. Very compact, very economical, very secure – and everything in HSM quality "Made in Germany".

www.hsm.eu



Great Products, Great People.

HSM®

VIDEO TECHNOLOGY

CCTV at Full Throttle

Applying HD Broadcast Video Technology Simply to Coax CCTV Installations



Despite the high-profile attention that IP CCTV has received in recent years, many new CCTV installations still use analog technology. Countless installers have found that the superior image quality and functionality that IP CCTV systems claim to offer do not outweigh the straight-forward installation and minimal IT support associated with analog systems. We asked Margarete Betger, Export Manager of Grundig, who design and manufacture analog, IP and HD CCTV security systems, to interpret this trend and to explain why the new HD CCTV technology is proving so popular.

▲ Broadcast quality video throughout the building

Simple coaxial connection and configuration ►



The High Definition Serial Digital Interface (HD-SDI) is derived from the television broadcast industry. Just as HD television has been replacing standard television in domestic applications, HD CCTV has been doing likewise in video surveillance applications. When high-quality video is transmitted across a network, compression artifacts and latency can occur due to the bandwidth limitations of IP networks. Reducing frame rates helps to address these issues but frame rates below 25 fps are no longer real-time and video quality is still compromised. Within the broadcast industry, latency and artifacts are simply not acceptable, so IP network technology has never been an option. Instead, the broadcast industry developed SDI, its own standard for digital transmission using coaxial cabling. The SMPTE standard has also been used within SDI development to ensure system compatibility between manufacturers. It is this SDI standard that the security industry is now adopting for

HD CCTV to provide a high-quality, digital video transmission solution for coaxial cable infrastructures and one that has been embraced at Grundig.

HD-SDI CCTV is a major breakthrough that is uniting the broadcast and security industries. It combines digital CCTV quality with simple, analog-style installation and support. HD-SDI enables the transmission of uncompressed digital video in real time (25 fps) over RG59 coaxial cable and delivers a significantly higher image quality than IP. It even enables installers to offer a digital upgrade to analog systems, re-using the existing coaxial cable infrastructure to save money. Not surprisingly, HD-SDI CCTV is proving to be extremely popular with installers who have shown they prefer the simplicity of connecting a CCTV camera directly to a DVR using conventional RG59 coaxial cable. They also do not want to have to protect the entire CCTV system from network security threats.



No compromise high definition surveillance

Vital Statistics

The SDI standard has categorized data rates for the transmission of uncompressed digital video over RG59 coaxial cable. Standard Definition SDI (SD-SDI), which approximates to D1 resolution (720 x 576 pixels), uses color-subsampling of 4:2:2 with a data rate of 270 megabits per second. HD-SDI, sometimes described as 1080p (progressive scan), equates to 2 megapixel resolution (1980 x 1080 pixels) with a data rate of up to 1.485 gigabits per second. 3G-SDI, originally developed for digital cinema applications, is designed for uncompressed HD signals without color subsampling (4:4:4) and twelve-bit digitalization. The resulting data rate is 2.97 gigabits per second.

There are now many surveillance cameras with SD-SDI, HD-SDI or even 3G-SDI connectivity. Transmission distances are similar to IP, ranging from 100m for HD-SDI down to 70m using 3G-SDI. However, developments in SDI-specific fiber optic transmission systems are extending transmission distances to many kilometers.

Full-HD in Real Time

Within HD-SDI the image is presented in 16:9, wide-screen format, meaning no black bars appear on high-resolution, full-HD monitors. HD-SDI is of considerably higher resolution than D1 and the IP-based 1.3 megapixel (1280 x 1024 pixels) cameras commonly available. However, whereas IP CCTV

solutions use video compression techniques to reduce video data size before transmission, HD-SDI uses no compression at all so quality is always optimized.

The 'spare' bandwidth available in HD-SDI transmission enables additional data to be carried within the same coaxial cable as the video signal. This can include alarm triggers, alerts, PTZ telemetry control and live people tracking. HD CCTV is ideal for applications where a site is monitored in real-time. Examples include football stadiums, casinos, train stations and airports. System control, tracking, identification of specific individuals and the initiation of an immediate response to serious incidents are all enabled.

Inherently Secure

An HD CCTV system can still be connected to an IP network for remote access, DVR software updates, remote maintenance or multi-site control and management. However, this is best done at the DVR, after the HD-SDI signal and image processing has taken place.

Despite CCTV manufacturers developing IP CCTV equipment that is easily set-up by installers, the IP CCTV system itself is rarely where problems occur. Securing the video data within an open IP network (LAN or WAN) requires IT expertise beyond the comfort zone of most security installers. Most IP network environments need advanced security settings to protect data. By comparison, SDI is a

closed system with limited external access. This makes it intrinsically safe, far simpler to protect, ideal for installers and very effective in security applications.

The crystal ball-gazers at Grundig believe that HD-SDI CCTV will continue to evolve and adapt to

the particular needs of surveillance technology. It could even reach the point where it supersedes IP CCTV. The HD CCTV Alliance is working with the broadcast SMPTE committee overseeing developments such as bi-directional audio, the extension of coaxial cable transmission distances to 300m or more as well as power over coaxial solutions. At its core, HD-SDI combines all the best parts of IP and analog CCTV systems to produce a new high-quality, cost-effective CCTV solution that is both installer-friendly and secure.

► CONTACT

Simone Kischkat
ASP AG, Remscheid, Germany
Tel.: +49 211 73196279
Fax: +49 211 99364008
simone.kischkat@asp-ag.eu
www.grundig-cctv.com

MINTRON

High-Definition Low-Light

1080p/720p 50/60fps CMOS/CCD HD Camera

Fiber-Optical CAM





3G-SDI CAM



HD-IP CAM

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

MINTRON 3M DSP

3G-SDI CAM

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

Megapixel Camera Module

- Image sensors: 1.3-3M CMOS/CCD Sensor
- Built-in ARM926-EJ-S/Memory
- Digital video output: YUV 4:2:2 16 Bit (SMPTE 274M/296M)
- CVBS output: Over 800TVL (NTSC/PAL)
- Image adjustable: De-Highlight / BLC / DWDR / AGC / 3D DNR / removable IR-Cut / Fog-Reduction / Eclipse / Freeze / Digital P.T.Z
- Communication: RS-232C/OSD
- Low power consumption

MINTRON ENTERPRISE CO., LTD.

No. 123, Wu-Kung 1 Rd., New Taipei Industrial Park,
New Taipei City (248), Taiwan • E-mail: service@mintron.com.tw
Tel: 886-2-22990277 • Fax: 886-2-22989375 • Web: www.mintron.com • Skype: mintron3601






NETWORK VIDEO SURVEILLANCE

Get More than Moore

Trends in Video Surveillance Cameras

Time passes and technology advances. The image quality provided by surveillance cameras has improved dramatically in our lifetimes and has already reached staggering clarity and sensitivity levels. Martin Gren, co-founder of Axis Communications, discusses what has already been achieved and where future developments could lead.

15 years ago we introduced the world's first network based camera. It had lousy performance at just three frames per minute. But things improved, not least thanks to a belief in Moore's law, and today most network cameras are running full-HD resolution at 30fps – a 600-fold improvement and even overachieving the evolution you would expect from Moore's law.

So what lies ahead of us in the future? Will we get 300fps cameras in super resolution? Technically, this is achievable, but is there really a need for it except for in niche markets such as machine vision and possibly for certain sports? For 70 years we have all had PAL (or NTSC in the Americas) for our security cameras. This was a technology developed during the 1940s that has served us well. The latest addition to the analog video camera was the inclusion of color in the 1970s – something which less than 50% of all new cameras even in the year 2000 were using. But now, when we have shut down the analog TV system and we all have full-HD TVs at home, isn't it time for the CCTV industry to change and to let the security professional have the same resolution at his place of work as he has in his home? I think this change is long overdue.

Resolution is an obvious trend. Image sensors are continuously getting a higher and higher pixel count thanks to the pixels becoming smaller. However, in surveillance cameras, light sensitivity is very important as is the ability to take pictures of people who don't want to be seen. We would rather have a dark image of a person than a nice image of a ghost, which would be the inevitable result of a camera that has too long an exposure time.

Light and Dark

So the main challenge lies in getting a more useful quality image that can be adapted to the needs of security cameras. You need short



exposure times in order to avoid 'ghost' images and, of course, you want progressive scan. For the near future we believe it will be challenging to get super low light cameras, but not generating too much noise as this is tricky to compress and makes a storage system too expensive. But given the image quality improvements, we will soon see security cameras with the same image quality as professional broadcast cameras. Already today, TV productions such as Simon Fuller's 'If I can dream' are recorded using HDTV cameras complying with the broadcast standard of SMPTE (Society of Motion Picture and Television Engineers).

An equally important measure of a security camera is its ability to handle a wide dynamic range. In outdoor environments the cameras will almost always have the sun in sight at a certain point. When the sun shines in it will blind the camera (or bleed in a CCD) and make the image practically useless. Alternatively, the image can get so dark that you don't see anything except for a nice shot of the sun. With wide dynamic range cameras you can try to take a scene snap-

shot of a person with the sun in the same picture and see if you can see both. This is unfortunately a very common scenario in an outdoor surveillance application – and also quite common indoors as well if you have large windows. Fortunately this is something that can be addressed by having more processing power in the camera, a trend that will most likely continue in the next 10 years.

Another trend we have seen is the use of thermal cameras in traditional CCTV applications. There has been a race towards a low lux rating of cameras where many vendors exaggerate their ratings. But how about having a camera that is truly zero lux? This is possible with thermal cameras, a technology that in the past has only been available to the military. Nevertheless, many security camera vendors now offer thermal cameras and this is a great complement to the existing surveillance cameras. They also have the hidden benefit of identifying objects but not recognizing people – a feature that is useful in countries with strict laws on privacy and camera placement. In Sweden, for instance,



18 September 1996 – The Axis camera was born. The network camera business of Axis was built up by Martin Gren. He had the idea to manufacture network cameras while in Tokyo together with a potential customer. Simultaneously the Axis engineer Carl-Axel Alm had the idea to construct a network-based video conference system. The two developed the idea further and brought the concept into reality.

many thermal cameras are used in schools to detect vandalism at night, yet not compromising privacy which a regular camera would and therefore may not be allowed.

Store and Forward

Another important trend is in local storage in cameras. Around 8 years ago I got my first 1GByte Compact Flash card at a cost of almost \$1,000 USD. Today a 64GByte SD card can be yours at less than \$100 USD. This will be viewed as an important driver of camera-based recordings where the recording is done directly at the edge, eliminating the need for a DVR or NVR. This trend is bound to be the main driver of network cameras in the segment of the market having less than 8 cameras per site.

A final important trend we have noticed is hosted video. We have all learned to trust hosted services such as internet banking, hosted email (Gmail, Hotmail, Yahoo etc.) and CRM applications in the cloud, to name just a few. So if we trust the internet with our money, wouldn't we be able to trust it for our security needs?

I'm a firm believer in hosted video, in particular in combination with a local storage solution – either a local NAS device (Network Attached Storage) or camera-based recording using SD-memory cards. Thanks to the higher internet bandwidths and better compression technology (H.264), a hosted solution is now practical at smaller installation sites with up to 4 cameras. Personally I have a fiber connection in my home and I can easily have 20 cameras with remote recordings. But then again, maybe I'm not an average camera user. However, it certainly does show where the technology is headed.

▶ CONTACT

Axis Communications AB, Lund, Sweden
Tel.: +046 46 272 0 · Fax: +046 46 272 0
www.axis.com

Megapixel Lenses



Fujifilm presents its product range of Fujinon CCTV lenses at this year's Ifsec. Highlights will be a number of megapixel varifocal lenses for day/night as well as high-resolution telezoom lenses for long range surveillance applications in High Definition. Three new models will be launched to enlarge the product range of varifocal lenses. They offer high resolutions of 3 megapixel and IR-correction for applications by day and night: YV3x6SR4A (f=6~18mm) and YV3.3x15SR4A (f=15~50mm) for a maximum sensor size of 1/2.7" and the DV4x12.5SR4A (f=12.5~50mm) for 1/1.8" sensors. Thanks to high resolution and IR correction these lenses are best suited for HD CCTV applications to ensure security around the clock. Locking screws for zoom and focus, metal mounts and the manufacturer's proprietary "AT" aspherical technology are standard features of the Varifocal lenses as well as the option to choose between manual iris and auto iris function (DC iris). The telezoom D60x16.7SR4DE lens series features 2 megapixel resolution and 60x optical zoom.

cctv@fujifilm.eu

▶ Ifsec · Hall 5 · Stand E25

ComNet Extends Wiegand Transmission Distances

ComNet is introducing a fiber optic distance extending interface that allows optical connectivity between one



card reader and its associated door or gate locking hardware, and any Wiegand, Magstripe, or F/2F-based control panel. The ComNet FDW1000 transmits Wiegand data optically over multimode or single-mode fiber at distances up to 3.5 km or 40 km respectively. ComNet is also introducing a unique expansion module that allows up to 7 additional card readers to be integrated on to the fiber optic network. These new ComNet models are designed to prevent tampering and provide safe and secure operation. Wiegand data interfaces are extremely popular for access control applications. Using fiber optic transmission to extend the distance between the gate/door access control reader and Wiegand, Magstripe, or F/2F-based control panel is a cost-effective solution.

www.comnet.net/sales@comnet.net

▶ Ifsec, Hall 4, Stand D60

ACCESS CONTROL

Ways **without** Wires

A Constantly Expanding Wireless Campus Access Control System



Digital locking cylinder "3061" from SimonsVoss in British Oval format

England fans have long since known: not only London has a lot to offer. Leeds is deemed to be the absolute 'hotspot' of the North, the largest city in the county of Yorkshire, with its elegant Victorian shopping arcades and an exciting cultural and night life. Leeds is also extremely popular among academics-to-be, not least because of the excellent range of courses offered. With approximately 37,500 students from 142 countries, the renowned University of Leeds is not only the oldest and biggest university in Yorkshire but also the third largest in the country. Top building security on the campus is ensured by a digital locking and access control system provided by Simons Voss Technologies.

Learning by Doing

The University of Leeds has nine different faculties, all of which are divided into schools, institutes and centers. The campus covering more than 40 hectares currently consists of 39 buildings – a huge area that is frequented day in, day out, and which has to be monitored and managed around the clock. This includes around 9,000 employees, 37,500 students, countless high-tech rooms and communication centers whose safety and security all falls within the responsibility of the university administration. This is the task of Andrew Gordon-Platt, Safety and Support Services.

In this function, he is also the master of the university's own locking and access control system. Over the years, he has administered more than nine electronic and mechanical systems. But since 2006, only one single digital locking system has been used in Leeds. Andrew Gordon-Platt explains why: "Our mission was to introduce a single uniform system which would not only provide high-end safety and top flexibility but also consistency with regard to control and maintenance. It was equally important to us that the new solution is scalable and can be operated in stand-alone mode as well as within a network." This ambitious catalog of requirements could only be met by one supplier. Andrew Gordon-Platt put it in a nutshell: "It's very simple: our objective was a system in a class of its own. With its performance, Simons Voss beat the other competitors by far. After an initial trial

run with cylinders installed, we knew for sure that we had made the right choice."

A Precedent Has Been Set

The extent of the University's properties posed a significant challenge to the system designers. They had to provide a digital locking and access control system initially for 2,600 doors and 11,000 users with central administration and multi-user hierarchy capability. In addition it should accommodate short-term changes of access authorizations, provide an audit trail and also time zone management capability. The existing mechanical master key systems and electronic access control should be directly replaced by a wireless system with the option to integrate to external systems.

The features and facilities provided by the digital locking and access control system 3060 include centralized administration using a centralized server-client configuration and client PC's with a graphical user interface. The user-friendly GUI permits direct networked wireless communication for the programming and retrieval of all access data and authorizations.

Another important feature of the University of Leeds system is that the complete access management and building automation is centrally administered and meticulously monitored by the IT department by means of the company's Locking System Management Software (LSM). A chief administrator is responsible for the overall system, 18 other network administrators are in

charge of individual faculties or university buildings. The access authorizations for every individual user are registered and recorded in the corresponding locking plan. Andrew Gordon-Platt enthusiastically explained: "Today we are able to act from one single platform, and can therefore flexibly control and monitor all door locks and accesses over the entire campus on the PC."

Secure Transmission

However, the digital technology not only ensures easy operation but also high security: contemporary encryption mechanisms make sure that the wireless data transmission (i.e. by radio) is absolutely tap-proof and forgery-proof and may not be manipulated by any unauthorized third party. Another advantage is the active transponder technology. This technology ensures that all electronic components can be installed in the protected interior. The SmartRelay also allows easy coupling to the university specific alarm system. "At our University, we have many sensitive areas. Those precautionary measures will discourage theft and provide reliable protection against sabotage", says the security expert.

The fact that this supplier's system has a modular structure makes it easy to expand and upgrade it. This particular feature has already paid off in the UK market many times. If users move or leave the University, if departments or complete new buildings have to be added to the system, the responsible administrator is able to immediately react at the PC. Andrew Gordon-Platt: "This system enables meticulous administration and monitoring of all activities. Today, even subsequent additions can be realized with only minimum effort and without any extensive preparatory work – this is an invaluable benefit in view of our size and the permanently changing requirements."

The assignment of rights/permissions in the individual departments is performed depending on the requirements and needs. Some departments assign their access rights for example by "lecturer", other departments by "field of study". Some use the time zone control in order to be able to monitor temporary accesses to sensitive building areas, others don't. "That's what is so good about this system: the system automatically adapts to our needs", says Gordon-Platt.

Intuitive Learning

Of course, we will not simply leave technology rookies in the UK knowledge center on their own. "We provide training lessons to all new administrators. Upon request, they may also be trained internally by present IT-experts. The software is

very intuitive so that it is possible to get started after just one single day of training", says the security expert.

Owners of a transponder may also get started quickly. Currently, more than 11,000 transponders are in circulation at the University of Leeds. With such a large number of users – security, administration, facility-management staff, professors, lecturers, students, external service providers, visitors etc. – does this mean chaos? Andrew Gordon-Platt shakes his head. "No, not at all. It's very easy to handle, and if a transponder should get lost, be stolen or become faulty, it can be deleted in the system immediately so that it can no longer be used. The respective administrator can provide a replacement within minutes by creating a new transponder and assigning the same rights to this new transponder."

Top Score

The installation of digital locking cylinders can be completed in a matter of just a few minutes, without any cabling or drilling. This has made it possible to equip many new university buildings with the latest SimonsVoss technology. Since the start of the project in 2006 a swimming pool and a sports center have been added, and also several legal buildings in 2009. The faculty for Environmental Studies was inaugurated in 2010 and the ultra-modern Institute for Communication Studies was inaugurated in January 2011. Both of them are incorporated into the system via the innovative WaveNet wireless network. The system has long since adapted to particular needs. For example, disabled people receive a transponder with a built in proximity chip which, used in conjunction with a SmartReader, is more convenient for them to use.

"We really enjoy the co-operation with SimonsVoss. They are permanently working on new and interesting features, and the users' feedback is extremely positive. This is certainly due to the fact that we have a continually expanding system. After the initial testing phase with 4 doors in 2006, we have now grown into system with approximately 2,600 doors and more than 11,000 users – with no end in sight", sums up Gordon-Platt. One

thing is certain: the University of Leeds is working at full speed towards the realization of its vision.

Sure Thing

"Since I have been here no two days have been the same," said Alan Cain, the Head of Security in Campus Support Services. "But the one thing that does stay the same is the fantastic quality of the security team that helps keep the students and staff safe and secure." Alan is not one to give out praise lightly. His previous experience in-

cludes four years in charge of the Local Guard Force of the US Embassy in London, as well as overseas security experience obtained in Iraq, Afghanistan and Saudi Arabia. Yet he describes the University of Leeds security team as 'first class'. "My Security Operations Manager, Malcolm Dawson, leads a team of 36 Security Officers – including mobile units and dog handling teams – who are on duty 365 days a year, 24 hours a day. Half of the team have previous military or police experience. Crime preven-

tion is another really important part of the job, and our Crime Prevention Officer, Andy Gordon-Platt, works extremely hard helping our students to look after their personal safety and keep their accommodation and property secure."

► CONTACT

SimonsVoss Technologies AG,
Unterfoehring, Germany
Tel.: +49 89 99228 0
Fax: +49 89 99228 222
vertrieb@simons-voss.de
www.simons-voss.com

SICUREZZA

7-9 NOVEMBER 2012
Fiera Milano (Rho)

Biennial International Exhibition for the sectors of anti-intrusion, fire prevention, passive defence and home & building automation, ICT Security, intelligence and anti-terrorism, products and services for the Police and Private Security firms

technological convergence training innovation knowledge

For a safer world.

Fiera Milano SpA

Strada Statale del Sempione, 28 - 20017 Rho, Milano - Italy

Tel. +39 02.4997.6223-6241 - Fax +39 02.4997.6252

areatecnica1@fieramilano.it www.sicurezza.it



FIERA MILANO



Alarm Management

DIGISOUND®

Digisound Electronic GmbH
Oststraße 54 · 22844 Norderstedt
Tel. +49(0)40/526869-0 · Fax +49(0)40/526869-13
info@digisound.de · www.digisound.de
Acoustic buzzers, piezo-electric sounders, electronic beacons, speakers, and transducers

Security Management

advancis
SOFTWARE & SERVICES

Advancis Software & Services GmbH
Monzastraße 2 · D-63225 Langen
Tel.: +49 (6103) 80735-0 · Fax: +49 (6103) 80735-11
info@advancis.de · www.advancis.de
WinGuard – Integral system for security and building management, control and visualization, alarm management, video management, communication

Facility Security

DICTATOR

Dictator Technik GmbH
Gutenbergstr. 9 · 86356 Neusäß
Tel. +49(0)821/24673-0 · Fax +49(0)821/24673-90
info@dictator.de · www.dictator.de
Drive units, hold open systems and smoke detectors, door control solutions

Alarm Management

TAS
TELEKOMMUNIKATION
SICHERHEITSTECHNIK
GEBÄUDEMANAGEMENT
DATENTECHNIK

TAS Telefonbau
A. Schwabe GmbH & Co. KG
Langmaar 25
D-41238 Mönchengladbach
Tel. +49 (0) 2166 858 0 · Fax: +49 (0) 2166 858 150
info@tas.de · www.tas.de
Manufacture and development of: alarm and conference units, VoIP- or ISDN emergency technology, alarm transmission systems

Security Management

level one

LevelOne is a trademark of Digital Data Group

Digital Data Communications GmbH
Zeche-Norm-Straße 25 · D-44319 Dortmund
Tel. +49 (0) 231-9075-222 · Fax +49 (0) 231-9075-184
sales@level-one.de · www.level-one.de
LevelOne provides full service – even when it comes to security: A broad range of high quality IP-products, combined with expertise in projects, assure reliable security solutions in all dimensions.

Facility Security

GEZE

GEZE GmbH
Reinhold-Vöster-Str. 21-29 · D-71229 Leonberg
Tel. +49(0)7152/203-0 · Fax +49(0)7152/203-310
vertrieb.services.de@geze.com · www.geze.com
Automatic door systems, security systems, security locks

Alarm Management

tetronik

tetronik GmbH
Angewandte Elektronik und Nachrichtentechnik
Silberbachstr. 10 · D-65232 Taunusstein
Tel. +49-6128-963-1 · Fax +49-6128-963-499
info@tetronik.com · www.tetronik.com
broadcasts and alarms, telephone conferences, personal security measures with location tracking and visualisation, one number services and group calls, announcement and open listening services, telephony access services for host systems

Security Management

funkwerk
plettag

Funkwerk plettac electronic GmbH
Würzburger Straße 150 · D-90766 Fürth
Tel. 0911/75884-0 · Fax 0911/75884-220
info@plettac-electronics.de
www.cctv-systeme.com
CCTV, system solution, system integration, video monitoring security, building management

Facility Security

Simons Voss
technologies

SimonsVoss Technologies AG
Feringastr. 4 · D-85774 Unterföhring
Tel. +49(0)89/99228-180 · Fax +49(0)89/99228-222
marketing@simons-voss.de · www.simons-voss.de
Digital locking and organisation systems with optional access control and time recording

Video Technology

ABUS Security-Center
Security Tech. Germany

ABUS Security-Center GmbH & Co. KG
Linker Kreuthweg 5, D-86444 Affing
Tel. +49 (0) 8207 / 9 59 90 - 333
Fax +49 (0) 8207 / 9 59 90 - 100
info.de@abus-sc.com · www.abus-sc.com
ABUS Security-Center is one of the leading manufacturers of electronic security technology. As a full-line supplier, ABUS Security-Center consistently markets an international range of products and services for the market segments of intrusion detection and video surveillance.

Security Management

SCHILLE

Schille Informationssysteme GmbH
Goseriede 4 · D-30159 Hannover
Tel. +49(0)511/542244-0 · Fax +49(0)511/542244-22
info@schille.com · www.schille.com
Facility and building management and security technology, fault and hazard management systems, OPC development, video surveillance systems

Alarm Management

DAITEM

ATRAL-SECAL GmbH
Service Daitem
Thaddenstr. 4 · D-69469 Weinheim
Tel. +49(0)6201/6005-0 · Fax +49(0)6201/6005-15
info@daitem.de · www.daitem.de
Radio-controlled burglary alarm systems, radio-controlled fire warning devices, distribution via security suppliers

Video Technology

aimetis

Aimetis GmbH
Am Prime Parc 7 · D-65479 Raunheim
Tel. +49 (0) 6142 20798 60 · Fax +49 (0) 6142 20798 89
info@aimetis.com · www.aimetis.com
Aimetis Symphony™ is award-winning intelligent video surveillance software that offers a single, innovative, open IP video platform for video management, video analytics, system integration and alarm management.

Be Part of the Section

GIT BUSINESSPARTNER
The Purchasing Section for direct contact

Just send a mail to
heiko.baumgartner@wiley.com

We will be glad to advise you!

Alarm Management

DAITEM

ATRAL-SECAL GmbH
Service Daitem
Thaddenstr. 4 · D-69469 Weinheim
Tel. +49(0)6201/6005-0 · Fax +49(0)6201/6005-15
info@daitem.de · www.daitem.de
Radio-controlled burglary alarm systems, radio-controlled fire warning devices, distribution via security suppliers

Video Technology

aimetis

Aimetis GmbH
Am Prime Parc 7 · D-65479 Raunheim
Tel. +49 (0) 6142 20798 60 · Fax +49 (0) 6142 20798 89
info@aimetis.com · www.aimetis.com
Aimetis Symphony™ is award-winning intelligent video surveillance software that offers a single, innovative, open IP video platform for video management, video analytics, system integration and alarm management.

BUSINESSPARTNER on the Web: www.pro-4-pro.com/sicherheit

Video Technology



Axis Communications GmbH
Lilienthalstraße 25 · D-85399 Hallbergmoos
Tel. +49 (0)811 55508-0 · Fax +49 (0)811 55508-69
info-de@axis.com · www.axis.com
Network video equipment – the AXIS IP-Surveillance allows remote access video management

Video Technology



Everfocus Electronics GmbH
Albert-Einstein-Str. 1 · 46446 Emmerich
Tel. +49(0)2822/9394-0 · Fax +49(0)2822/9394-95
info@everfocus.de · www.everfocus.de
Digital video technology, video remote surveillance, video surveillance

Video Technology



MINTRON ENTERPRISE CO. LTD.
No. 123, Wu-Kung 1 Rd., Wu-Ku Industrial Park, Taipei 248, Taiwan
Tel. +886 2 22990277 · Fax +886 2 22989375
service@mintron.com.tw · www.mintron.com
Skype: mintron3601
Manufacturer of extensive range CCD cameras and board type cameras. OEM & ODM projects are welcomed.

Video Technology



BWA Technology GmbH
Johann-Krane-Weg 21 · D-48149 Münster
Tel.: +49(0)251/289199-0 · Fax: +49(0)251/289199-29
info@bwatech.com · www.mybwa.com
CCTV robots and portable MPEG4/H.264 DRVs

Video Technology



eyevis GmbH
Hundsschleestr. 23 · D-72766 Reutlingen
Tel. +49(0)7121/43303-0 · Fax +49(0)7121/43303-22
info@eyevis.de · www.eyevis.de
Large surface displays of security information in control rooms

Video Technology




MOBOTIX AG
Security-Vision-Systems
Kaiserstrasse · D-67722 Langmeil
Tel. +49 (0) 6302/9816-0 · Fax +49 (0) 6302/9816-190
info@mobotix.com · www.mobotix.com
HiRes Video Solutions – high resolution, digital & cost effective recording

Video Technology



CBC (DEUTSCHLAND) GmbH
CBC (Deutschland) GmbH
Hansaallee 191 · D-40549 Düsseldorf
Tel. +49(0)211/530670 · Fax +49(0)211/53067180
info@cbc-de.com · www.cbc-de.com
Video monitoring components – e.g. cameras, lenses, screens, monitoring technologies, DVR, NVR.

Video Technology



Genetec
2280 Alfred-Nobel Blvd
Suite 400, Montreal, Quebec H4S 2A4, Canada
Tel.: +1/514 332-4000 · Fax: +1/514 332-1692
info@genetec.com · www.genetec.com
License Plate Recognition, IP Security Solutions for Video Surveillance, and Access Control

Video Technology



MONACOR INTERNATIONAL
Zum Falsch 36 · 28307 Bremen
Tel. +49(0)421/4865-0 · Fax +49(0)421/488415
info@monacor.de · www.monacor.com
Video monitoring components and systems

Video Technology



Dallmeier electronic GmbH & Co. KG
Cranachweg 1 · 93051 Regensburg
Tel. +49(0)941/8700-0 · Fax +49(0)941/8700-180
info@dallmeier.com · www.dallmeier.com
Video: digital storage systems, image transmission, available through specialized retailers

Video Technology



HeiTel Digital Video GmbH
Stuthagen 25 · D-24113 Molfsee/Kiel (Germany)
Tel. +49(0)4347/903-0 · Fax +49(0)4347/903-400
info@heitel.com · www.heitel.com
Digital Video Transmission and Recording, Video Management, Monitoring Station Integration

Video Technology



opto-system-technik
Video-Vertriebsgesellschaft mbH
Planiger Straße 34 · D-55545 Bad Kreuznach
Tel. +49(0)671/4830-10 · Fax +49(0)671/4830-11
info@opto-system-technik.de
www.opto-system-technik.de
Distributor of SONY, SANYO, Pelco, Dedicated Micros and EverFocus

Video Technology



DEKOM Video Security & Network GmbH
Hoheluftchaussee 108 · D-20253 Hamburg
Tel. +49(0)40/4711213-0 · Fax +49(0)40/4711213-33
info@dekom-security.de · www.dekom-security.de
www.divicro.de – Offices in Munich, Stuttgart, Cologne, Erkelenz, Bremen, Magdeburg and Berlin.
Your reliable partner and provider of professional network video products and complete system solutions.

Video Technology



logiware gmbh
Alfred-Mozer-Str. 51 · D-48527 Nordhorn
Tel. 05921/7139920 · Fax 05921/7139929
info@logiware.de · www.go1984.de
Software, video transmission systems, security, video, video surveillance systems, digital video surveillance, networking

Video Technology



PENTAX RICOH IMAGING DEUTSCHLAND GmbH
Security Systems Division
Julius-Vosseler-Str. 104 · D-22527 Hamburg
Tel. +49(0)40/561 92-109 · Fax +49(0)40/561 92-334
ssd@pentax.de · www.pentax-security.com
CCTV lenses for video surveillance, image processing, accessories for CCTV lenses

Video Technology



Eneo is a registered trade mark of VIDEOR
E. Hartig GmbH, Rödermark. Distribution via authorized dealers and installers.
info@eneo-security.com · www.eneo-security.com
Products and solutions for video security applications

Video Technology



Milestone Systems Germany
Harald Zander, Country Manager
c/o Ecos Office Center
Gustav-Stresemann-Ring 1
65185 Wiesbaden
Office: +49 (0) 611 168 5597
Mobile: +49 (0) 176 62479674
www.milestonesys.de
Milestone is the world's leading provider of open platform IP video surveillance software. Milestone's XProtect® software is a powerful surveillance solution that is easy to manage and supports the widest choice in network hardware and integrations with other business systems.

Video Technology



PIEPER GMGH
Partner für bessere Technik
Binnerheide 8 · D-58239 Schwerte
Tel. +49(0)2304/4701-56 · Fax +49(0)2304/4701-77
info@pieper-video.de · www.pieper-video.de
System suppliers of general and industrial video technology, focussing on the security and surveillance sectors, as well as quality control and process control applications.

Video Technology



SANTEC
VIDEO TECHNOLOGIES

Sanyo Video Vertrieb AG
An der Strusbek 31 · 22926 Ahrensburg · Germany
Tel. +49 4102 4798 0 · Fax +49 4102 4798 10
info@santec-video.com · www.santec-video.com
Video monitoring technology · Video-over-IP
Outdoor IR sensors · Planning and Services

Time + Access



AZS
SYSTEM AG

AZS System AG
Mühlendamm 84 a · 22087 Hamburg
Tel. +49 (0) 40/226611 · Fax +49 (0) 40/2276753
www.azs.de · anfrage@azs.de
Hardware and software solutions for biometrics, locking systems, video control systems, time management systems, access control systems, escape route safety systems, barrier systems, isolation systems, OPC Server

Time + Access



IDENT TECHNOLOGIES
Biometrische Identifikations-Systeme

Ident Technologies GmbH
Rudower Chaussee 29 · D-12489 Berlin
Tel. +49(0)30/63922568 · Fax +49(0)30/63922569
info@identtechnologies.de · www.identtechnologies.de
We create biometric Systems, to make our life easier – the fingerprint will be our key.

Video Technology



via:sys

viasys Intelligent Video GmbH
Koselstraße 20, D-60318 Frankfurt am Main
Tel. +49 (0)69/7191 388 – 0
Fax +49 (0)69/7191 388 – 66
jourdan@viasys-iv.com · www.viasys-iv.com
Intelligent video sensors (3D, direction, sensitivity), reliable alarms, especially outdoors, connection to Alert Centre

Time + Access



cichon+STOLBERG
crypt^{ins}

Cichon+Stolberg GmbH
Wankelstraße 47-49, 50996 Köln
Tel. +49(0)2236/397-200 · Fax +49(0)2236/61144
info@cryptin.de · www.cryptin.de
Operational data collection, time recording, access control

Time + Access



ISGUS
UNTERNEHMENSGRUPPE

ISGUS GmbH
Oberdorfstr. 18–22
78054 Villingen-Schwenningen
Tel. +49(0)7720/393-0 · +49(0)7720/393-184
info@isgus.de · www.isgus.de
Operational data capture, personnel scheduling, time management, access control

Video Technology



VICON

VICON Deutschland GmbH
Kornstieg 3 · D-24537 Neumünster
Phone: +49(0)4321/879-0 · Fax +49(0)4321/879-97
info@vicon-cctv.de · www.vicon-cctv.de
VICON as one of the world's leading independent manufacturers of CCTV equipment, offers a complete portfolio of the most advanced video management products.

Time + Access



deister electronic
The RFID Company

deister electronic GmbH
Hermann-Bahlsen-Str. 11
D-30890 Barsinghausen
Tel. +49(0)5105/516-01 · Fax +49(0)5105/516-217
info@deister-gmbh.de · www.deister.com
access control; vehicle identification; biometric verification; guard tour systems; storing and management of keys and valuables

Time + Access



LEGIC
innovation in ID technology

LEGIC Identsystems Ltd
Binzackerstrasse 41 · CH-8620 Wetzikon
Switzerland
Phone +41 44 933 64 64 · Fax +41 44 933 64 65
www.legic.com · info@legic.com
Designer and manufacturer of 13.56 MHz contactless smart card technology (read/write chip sets, security modules and transponder chips)

Video Technology



VIDEOR

VIDEOR E. Hartig GmbH
Carl-Zeiss-Str. 8 · 63322 Rödermark/Germany
Tel. +49(0)6074/888-300 · Fax +49(0)6074/888-100
security@videor.com · www.videor.com
Distribution of complete product ranges for video security and video networking

Time + Access



DigiMem

DigiMem Deutschland Ltd & Co KG
Büro Wiesbaden: Didierstraße 7 · D-65203 Wiesbaden
Tel: +49 (0)611 710 9949 · Fax: +49 (0)611 710 9952
david@digimem.eu · www.digimem.eu
Digimem is the appointed agency of Datakey Electronics (USA) and provides full bi-lingual sales and service support for German, Swiss and Austrian customers. Supply of Datakey Keys and Tokens, accessories and periphery to OEMs. Support with the integration of these components into an application to ensure a turnkey system.

Time + Access



pcs

PCS Systemtechnik GmbH
Pfälzer-Wald-Straße 36 · 81539 München
Tel. +49(0)89/68004-550 · Fax +49(0)89/68004-555
intus@pcs.com · www.pcs.com
time recording, access control, BDE/MDE, biometric, video, SAP

Video Technology



VTQ
VIDEOTRONIK QUERFURT

VTQ Videotronik GmbH
Grüne Straße 2 · D-06268 Querfurt
Tel. +49 (0) 34771-5 10 · Fax +49 (0) 34771-2 20 44
main@vtq.de · www.vtq.de
systems for digital and analogue wireless video, audio and data transmission, COFDM modulation, MPEG2 compression, directional radio systems, Diversity systems

Time + Access



FEIG ELECTRONIC

FEIG ELECTRONIC GMBH
Lange Straße 4 · 35781 Weilburg
Tel. +49(0)6471/3109-44 · Fax +49(0)6471/3109-99
obid@feig.de · www.feig.de
Electronic locking systems, identification, access control, access road control

Time + Access



phg
Die richtige Verbindung

phg Peter Hengstler GmbH + Co. KG
Dauchinger Str. 12 · D-78652 Deißlingen
Tel. +49(0)7420/89-0 · Fax +49(0)7420/89-59
datentechnik@phg.de · www.phg.de
RFID components for access control, timekeeping, factory data collection, canteen data, leisure applications, surface-mounted devices, flush-mounting components, biometrics, identification media and accessories

Time + Access



Time + Access



Gantner technologies

Gantner Electronic GmbH
Montafonerstraße 8 · A-6780 Schruns
Tel. +43 5556 73784-542 · Fax +43 5556 73784-8000
info@gantner.com · www.gantner.com
access control solutions/biometrics, time management, data capture, locking systems

Time + Access



primion security solutions

primion Technology AG
Steinbeisstraße 2-4 · D-72510 Stetten a.K.M.
Tel. +49(0)7573/952-0 · Fax +49(0)7573/92034
info@primion.de · www.primion.de
Time management, access control and management, staff deployment planning, graphic alarm management, SAP communications solutions, pass and ID card production, Biometrics

Time + Access



Wanzl
Zutrittskontrollen

Wanzl Metallwarenfabrik GmbH
Bubesheimer Str. 4 · 89340 Leipheim · Germany
Tel. +49(0)8221/729-6416
Fax +49(0)8221/729-90416
zutrittskontrollen@wanzl.de
www.wanzl-zutrittskontrollen.com
Personal guidance systems, barriers, security
turnstiles, electronic entrance systems

Fire Protection



Kidde
AUTC Fire & Security Company

Kidde Brand- und Explosionsschutz GmbH
Harkortstraße 3 · 40880 Ratingen
Tel. +49(0)2102/5790-0 · Fax +49(0)2102/5790-109
info@kidde.de · www.kidde.de
Fire detection and extinguishing technology ·
high sensitive smoke detection · fire protection
systems for server cabinets and IT rooms ·
explosion suppression systems · Explosion venting


Hazardous Goods



Fire Protection



Fire Protection



NOTIFIER
by Honeywell

Notifier Sicherheitssysteme GmbH
Stadionring 32 · D-40878 Ratingen
Tel. +49(0)2102/70069-0 · Fax +49(0)2102/70069-44
info@notifier.de · www.notifier.de
fire alarm systems, early fire detection

Hazardous Goods



DÜPERTHAL

DÜPERTHAL Sicherheitstechnik GmbH & Co. KG
Mainparkstr. 6-10 · 63801 Kleinstheim
Tel. 0 60 27 / 403-0 · Fax 0 60 27 / 403-121
info@dueperthal.com · www.dueperthal.com
Fire protection rooms, hazardous materials storage,
safety cabinets, environmental safety, fire protection


Fire Protection



JOO
detectomat

detectomat GmbH
An der Strusbek 5 · D-22926 Ahrensburg
Tel. +49(0)4102/2114-60
Fax +49(0)4102/2114-670
info@detectomat.de · www.detectomat.de
Fire alarms, Fire warning systems, Fire protection,
security systems

Fire Protection



Teckentrup
Türen · Tore · Zargen

Teckentrup GmbH & Co. KG
Tel. +49 (0) 5246/504-0
Fax +49 (0) 5246/504-30
www.teckentrup.biz · info@teckentrup.biz
Fire protection doors and gates T30/T60/T90,
security doors (resistance class WK 1 – WK 4),
sound insulated doors (up to Rw 57 dB),
bullet-proofed doors, smoke-proof doors

Hazardous Goods



Köttermann
Systemlabor

Köttermann GmbH & Co KG
Industriestr. 2-10 · 31311 Uetze/Hänigsen
Tel. +49(0)5147/976-0 · Fax +49(0)5147/976-844
systemlabor@koettermann.de
www.koettermann.com
Hood equipment, laboratory furnishings, media
connections (supply and disposal)


Fire Protection



ESSER
by Honeywell

Novar GmbH a Honeywell Company
Dieselstraße 2 · D-41469 Neuss
Tel. +49(0)2137/17-600 · Fax +49(0)2137/17-286
info@esser-systems.de · www.esser-systems.de
Fire alarm systems, security systems, voice alarm

Fire Protection



WAGNER

WAGNER Group GmbH
Schleswigstraße 1-5 · 30853 Langenhagen
Tel. +49(0)511/97383-0 · Fax +49(0)511/97383-140
info@wagner.de · www.wagner.de
Hamburg · Berlin · Leipzig · Hannover
Mülheim/R. · Frankfurt · Stuttgart · München
Fire alarm systems and extinguishing technology,
fire prevention, integral security



**More companies
to find:**
www.GIT-SECURITY.com/buyers-guide


Fire Protection



FIRECHECK CONTRACTS LTD
FIRE PROTECTION ENGINEERS

Firecheck Contracts Ltd
53 Huntercombe Lane North,
Burnham, Slough, Berkshire SL1 6DX, UK
Tel +44 (0)1628 66 0999 · Fax +44 (0)1628 66 2998
info@firecheckltd.co.uk · www.firecheckltd.co.uk
Design, supply and commissioning of all types of fire
suppression systems, including chemical gases, inert gases,
CO₂, water mist and foam agents, throughout UK, Europe,
Middle East and Africa. LPCB (LPS 1204), FIA and ISO
9001 certified.

Industrial Safety



Plant Safety



Fire Protection



HEKATRON
Ihr Partner für Brandschutz

Hekatron Vertriebs GmbH
Brühlmatten 9 · 79295 Sulzburg
Tel. +49(0)7634/500-0 · Fax +49(0)7634/6419
info@hekatron.de · www.hekatron.de
Fire alarm systems, Smoke switch systems,
Smoke alarms, Safety linkage systems

Industrial Safety



EVAC+CHAIR

Evac+Chair International Ltd
Tel +44 (0)121-706-6744
www.evacchair.co.uk · info@evacchair.co.uk

Sales, Service & Training
c/o ESE International BV, DG Veldhoven
Tel. +31 (0)402553700
Tel. +49 (0)6238 984 6810 (Germany)
info@ese-int.nl



Plant Safety



PEPPERL+FUCHS

Pepperl+Fuchs GmbH
Lilienthalstraße 200 · 68307 Mannheim
Tel. 0621/776-1111 · Fax 0621/776-27-1111
fa-info@de.pepperl-fuchs.com
www.pepperl-fuchs.com
Security sensors, inductive, capacitive, opto-
electronic and ultrasonic sensors, vision sensors,
identification systems, interface modules

Events

IFSEC 2012

Date: May 14–17, 2012

Place: NEC Birmingham UK

Website: www.ifsec.co.uk

► IFSEC 2012 is the leading global annual security event.

The international exhibition for border security

Date: June 02–07, 2012

Place: Riyadh International convention & Exhibition center – Riyadh city (Saudi Arabia)

Website: www.fg.gov.sa

► The first international exhibition for border security in the KSA.

SECURITY Essen 2012

Date: September 25–28, 2012

Place: Essen, Germany

Website: www.security-essen.de

► The world market for security and fire prevention.

Milipol 2012 Qatar

Date: October 08–10, 2012

Place: Qatar (DEC - Doha Exhibition Centre)

Website: www.milipolqatar.com

► Every two years Milipol Qatar welcomes to Doha industry professionals from the Middle East, the Near East and Asia.

SICUREZZA 2012

Date: November 07–09, 2012

Place: Milan

Website: www.sicurezza.it

► Biannual International Exhibition for Security in Italy.

AlienVault	62	IBF	14
American Fibertek	16	Identive Group	45
American Science & Eng.	6	Idesco	9
Apollo Fire Detectors	9, 14, 25	IMS Research	6
Arecont Vision	9, 11, 38, 53	IndigoVision	7, 16, 36
ASP	41, 61, 64	JVC	34
Avigilon	Inside Front Cover	Legic	29
Axis	14, 16, 35, 46, 53, 66	Messo Technologies	9, 59
Barco	Outside Back Cover	Milestone	9, 45
Basler	45	Mintron	65
Bosch	14, 19, 28, 61	Morpho	7
BSIA	6, 9	Moxa	8
C-Tec	24	MSA Auer	26
Canon	57	Narda Safety	53
ComNet	67	Nedap	7, 28
Dallmeier electronic	13, 14, 32, 61	Novar Esser	14
Deister electronic	5	Opgal	8
Deutsche Lufthansa	20	Pixim	61
Dräger	14	PureTech Systems	50
DVTel	53	Raytec	6
Elten	14	Risco Group	45
Euchner	14	Salto Systems	31, 61
Euresys	45	Samsung	8, 14, 16, Inside Back Cover
Evac Chair	55	SeeTec	44, Title Corner
Eyevis	39, 40	Sick	14
Fiera Milano	18, 69	Sicurit	51, 53
FLIR	58	SightLogix	44
Fujinon	37, 67	SimonsVoss	33, 68
Genetec	6, 16	TDSi	42
Geutebruck	8, 43, 45, 48	Tyco Fire & Security	22, Front Cover
Gunnebo	9	UBM Information	10, 60
Hekatron	14	Viasys	54
HID Global	7	Videor E. Hartig	6
Hikvision	8, 47, 56	Videotec	49
Honeywell Security	14	Vidicore	61
HSM	63	Zweibrüder	14

IMPRINT

Published by

GIT VERLAG

Wiley-VCH Verlag GmbH & Co. KGaA

A Company of John Wiley & Sons, Inc

Boschstrasse 12

69469 Weinheim · GERMANY

Tel.: +49 (0) 6201 606-0

Fax: +49 (0) 6201 606-791

info@gitverlag.com · www.gitverlag.com

Managing Directors

- Jon Walmsley
- Bijan Ghawami

Publishing Directors

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

- Steffen Ebert

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

Sales Managers

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

Editorial

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

Editorial Assistant

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

Production

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

European Representatives

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

Bank Account

Commerzbank AG Darmstadt, Germany
Account No. 01.715.501 00
Routing No. 508 800 50

GIT SECURITY is published 6 times per year.

Subscription 2012

6 issues 72.00 €, single copy 14.50 € plus postage. Pupils and Students receive a discount of 50% at sight of a valid certificate. Subscription orders valid until cancelled, notices 6 weeks before end of the year. Subscription orders can be revoked within 1 week in writing. Dispatch complaints are possible only within 4 weeks after publishing date.

The publishing house is granted the exclusive right, with regard to space, time and content to use the works/ editorial contributions in unchanged or edited form for any and all purposes any number of times itself, or to transfer the rights for the use of other organizations in which it holds partnership interests, as well as to third parties. This right of use relates to print as well as electronic media, including the Internet, as well as databases/data carriers of any kind.

All names, symbols etc. mentioned and/or printed in this issue may be registered trademarks of their respective owners.

Print run: 20,000

Cover Page Layout

Elli Palzer · elke.palzer@wiley.com

Printed by

pva Druck und Mediendienstleistungen GmbH
D-76829 Landau/Pfalz

Printed in Germany
ISSN 2190-4367

CAPTURE.



RECORD.



DISPLAY.



CAPTURE.



iPOLiS
Network Solutions from Samsung

Full High Definition
Image Capture

**FULL
HD**

Intelligent
Video Analytics



Scalable
Recording



Remote Viewing
and Control



A Samsung HD Network Security Solution captures up to 5 times the detail of standard resolution systems. HD image capture up to 1080p, recording and display combine to provide a security system which delivers an incredibly high level of picture detail.

HD cameras and displays deliver a wide aspect 16:9 view of a scene and allow operators to pin-point specific areas of interest for closer inspection, without losing definition or suffering from pixilation. And by using HD recording this can be achieved on recorded footage with the same clarity.

With a host of cameras, a choice of hardware or software recording options, plus HD displays, you can develop a security solution perfectly suited to your business.

Samsung HD Network Security Solutions. Smarter Security.

T 01932 455 308
E STESecurity@samsung.com
W samsungsecurity.com

Samsung Techwin Europe Ltd
1000 Hillwood Drive, Chertsey, Surrey, KT16 0PS, UK

SAMSUNG



Liquid-cooled video walls with 3rd generation LEDs

Barco introduces a new generation of LEDs into its video walls. Boosting brightness levels to meet and even exceed lamp-based video walls, this 3rd generation significantly enhances operator viewing comfort, and further expands the usability of LED video walls.

Additionally, when operating at today's standard brightness levels, the new LEDs consume 33% less power than the previous generation. This upgrade is now available on Barco's complete range of LED video walls, including the OLS series with 3D-stereo.

- 33% less power consumption
- 33% more brightness
- display sizes from 50" to 80"
- 16:9 or 4:3 aspect ratio
- optional 3D

Find out more at www.barco.com/cool

BARCO

Visibly yours