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GIT
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79 824

SECURITY + MANAGEMENT

3 MAGAZINE FOR SAFETY AND SECURITY

COVER: Panasonic – Super Dynamic Technology Continues to Evolve
Security for Retail Business
Intrusion Detection
Fire Detection
IFSEC 2009
Perimeter Protection
Airport – Safety + Security

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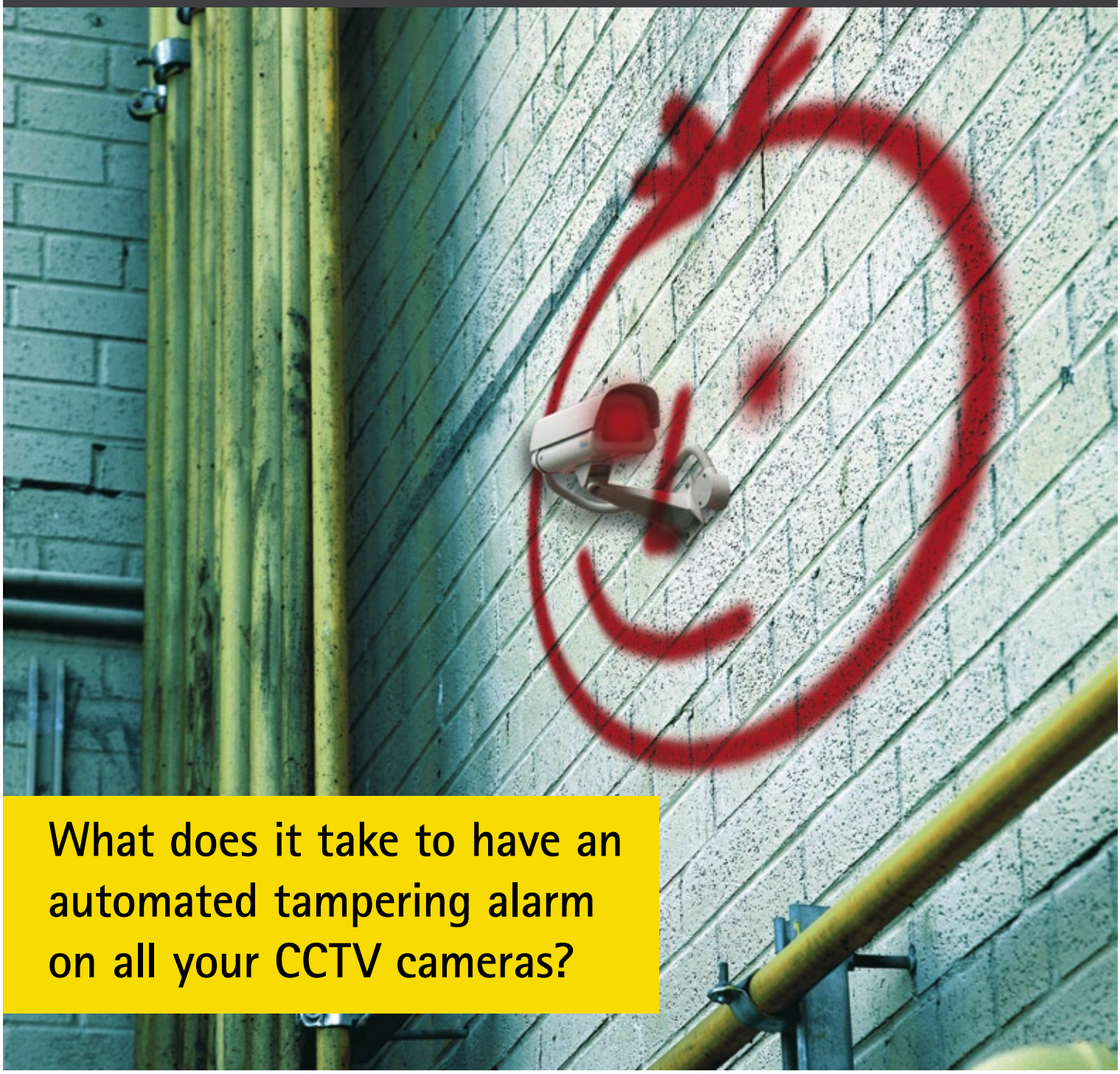
CAMERA: #51
LOCATION: LOADING BAY
TIME: 2009-01-16 11:55:57
COMPRESSION: H.264
MOTION DETECTION: ON
ACTIVE TAMPERING ALARM: ON
FRAME RATE: 30
RESOLUTION: D1



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Taking Care

Working in the field of security is not always an easy task. People expect that you take care of all aspects that are part of the company's security and safety. Employees and the management want you to guarantee that no intruder enters the building, nothing is stolen from the company, no hacker has access to the company data and in some cases, additionally, you have to take counter terror measurements. When reading the interview with the head of security at Frankfurt airport on page 56 you will get an impression of how complex such a mission can be.

For a security professional sometimes it is not only the security mission itself that gives him or her a headache. Often it is the dilemma that you not only have to fulfil your mission but to fulfill it at low cost, without breaching any regulations and without disturbing or slowing down a company's operations.

An employee for many years, who has forgotten his badge, protests at the gate when he is denied access to the facility. People complain when they have to take off their shoes at an airport security checkpoint. The IT department gets nervy calls because somebody can not download files from the internet. These are just some examples of the daily struggle you face, but in some cases it gets even worse.

Hartmut Mehdorn, who has successfully transformed the German railroad company Deutsche Bahn into a profitable corporation, had to resign following a spying scandal. It has emerged that an investigation by Deutsche Bahn into corruption led to the firm monitoring tens of thousands of e-mails over many years. Fighting fraud is an honourable task and the company was merely trying to uncover corporate corruption, but at the end of the day the employees lost faith in the company's policy and the measurements taken to protect the company.

One solution to solve the dilemma is to invest in intelligent systems that allow smooth operations at a high security level. Modern scanning systems at airports and the combination of access control and video surveillance are good examples for that.

Another option was recently taken by the security division of a pharmaceutical company. When they invented a new card system for their company and implemented a new organisation that strongly restricted physical access to critical areas, they organised meetings for the whole staff. During the meetings they explained not only the new system but also every single action security is going to take to secure the company's assets. A communication like that leads to a deeper understanding for measures and helps us to take care of security.

Enjoy reading this issue and for those of you who attend Ifsec, we are looking forward to seeing you in Birmingham in Hall 4 at Stand H40!

Best wishes from the team of GIT Security + Management

Heiko Baumgartner

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The RFID Company

CONTENT

COVER

Superior Image and Smart Intelligence
Super Dynamic Technology Continues to Evolve

From its early start in 1997, Panasonic's Super Dynamic Technology has always been one step ahead of the game. With the launch of Super Dynamic featuring Motion Detection and FLIP-A-CHIP, to the possibilities of Super Dynamic 5 including Day/Night surveillance, Auto Tracking, Scene Change Detection and Intelligent Video Motion Detection (i-VMD), Panasonic has managed to create and maintain market leading image quality and intelligent functions. 24

SECTIONS

News 7–12

Security Products 38–41, 45–47

Fire Protection Products 52

Airport Security Products 59

BusinessPartner 62

Imprint 66

Company Index ... Inside Back Cover

EDITOR'S NOTE
Zake Care
Heiko Baumgartner 3

MANAGEMENT

PUBLIC SECURITY
Protecting Global National Infrastructure
Why It Is Important to Get the Private Sector Involved
David Taylor-Smith 13

EVENT
IFSEC2009
The Protection & Management Series
Ifsec, Safety & Health Expo and Firex in Birmingham 14

HAPPY BIRTHDAY
Experience Takes Us Forward
Axis Communications Celebrates 25th Anniversary 18

STANDARDS
The Next Steps towards a New Standard
What Is New Regarding IP Video Standards 19

GIT SECURITY AWARD
This Is How Winners Look!
Presentation of the GIT SECURITY AWARD 2009 20

SECURITY

COVER STORY
Superior Image and Smart Intelligence
Super Dynamic Technology Continues to Evolve 24

SECURITY FOR RETAIL
Video for Business Intelligence in Retail

Network Video Surveillance Is Not Only About Security
Dominic Bruning 26

Palacio Do Gelo in a Safe Place
Full IP-CCTV Solution for Shopping Mall in Portugal
Steffen Ebert 28

SECURITY FOR HOTELS

Pictures from Paradise
A Comprehensive Hotel Video Surveillance System 29

CCTV

Beyond Our Imagination?
Samsung Techwin's Strategy for Security Solutions 30

A Powerful Partnership
Supporting Vehicle Access Control with CCTV Surveillance 32

CONTROL ROOMS
Watching the Road
Public Institution Motorway Operation in Italy 34

PERIMETER PROTECTION
No More False Alarm 35

VIDEO ANALYTICS
Look Me in the Face
3D Real-time Video Analytics System with Face Localization 36

CONTENT

"Focused On You"
New 4-channel MPEG-4 Digital Video Recorder **37**

LENSES
Seeing Ever More Clearly
An Evolving Range of Lenses for CCTV Cameras
Andreas Kronwald **38**

RFID
Touch-free Is Maintenance-free
An interview with Axel Jeschke about Deister Electronic, Efficient Key Management and the Mifare Hack **42**

ACCESS CONTROL

In the Right Place at the Right Time
Access Control Management for a German Film Studio **44**

One Card for all the Needs
University of Bozen Relies on Multi-functional Contactless Campus Card **48**

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FIRE PROTECTION

FIRE PROTECTION

Getting Out of a Right Royal Mess
Apollo Fire System Now Protects the Royal Albert Hall **49**

Marked for Life
A Pan-european Mark of Quality for Fire and Security Equipment **50**

Seamless Changeover to Wireless Detectors
Smart Solutions for the Holiday Trade **54**

AIRPORT SECURITY

AIRPORT SECURITY

Locking System Meets Expansion Needs **55**

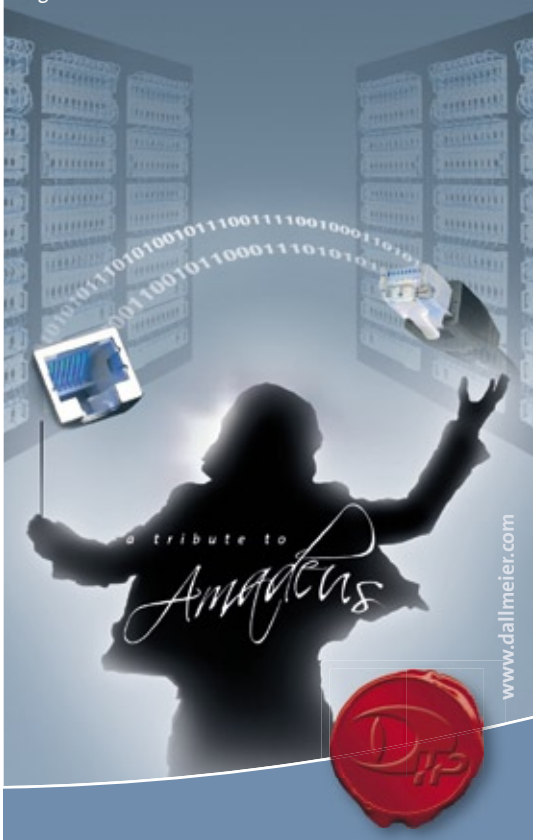
INTERVIEW
Security at Frankfurt Airport
Cutting Edge Systems to Form a Modern Airport Security Architecture **56**

Security at Munich Airport
Thermal Imaging Cameras Help to Protect the Outside Perimeter **60**

VideoIP range
"a tribute to Amadeus"

VideoIP solutions from a single source

Dallmeier has planned and realised the biggest real-time IP systems worldwide. The extensive know-how has been used in the development of the VideoIP range "a tribute to Amadeus".
Just as Mozart, through perfect composition and brilliant instrumentation, created an ingenious body of work, individual high-value IP components can be used to realise top-quality video network solutions.
The arrangement of the Dallmeier IP solution remains variable and flexible. Its composition can range from a duo of camera and streamer to a large ensemble of different elements. With the VideoIP range "a tribute to Amadeus" the high standards of CCTV applications combine with the benefits of pure IP solutions. The best of both worlds, a star-studded ensemble with guaranteed success!



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Patented Security Solutions for JFPASS

FFT's Secure Fence security solution is named as a participant of a next generation U.S. Military Joint Force Protection Advanced Security System (JFPASS). It will be one of the security solutions demonstrated to high-ranking US Government and Military personnel, including representatives from the U.S. Department of Defense (Pentagon) Physical Security Equipment Action Group (PSEAG), at a meeting this month. The company's system is the only outdoor perimeter fence sensor technology chosen for inclusion in this high level "live action" demonstration for this prestigious group of VIP's. The company recently has been granted two additional United States patents by the U.S. Patent Office. The two patents, U.S. Patent Nos. 7,499,176, and 7,499,177, protect improvements to the optical fiber-based intrusion detection system that FFT pioneered in the late 1990s and patented in the U.S. and abroad. The patented technology is not only implemented in "Secure Fence", but also in the company's "Secure Link" and "Secure Pipe" solutions.
www.fft.com.au

Milestone and Onssi Collaboration

On-Net Surveillance Systems (Onssi) and Milestone Systems announced a partnering agreement for open platform IP video management software. The companies have signed an 'ingredient OEM' (Original Engineering Manufacturer) agreement, where the Milestone XProtect IP software platform will act as one of the recording engines for Onssi's Ocularis Video Management Platform, with the Milestone API and Onssi's Ocularis facilitating the integration, market analysts like IMS Research and IPvideoMarket.info have found both of these companies to be leaders in the open platform IP video software market for several years.
www.milestonesys.com

Pivot3 Receives Lenel Factory Certification

Pivot3 has received Lenel factory certification for its High-Definition Storage solutions. This certification formalizes the Pivot3 membership in the Lenel Open Access Alliance Program. "Pivot3 has completed required factory testing at Lenel to validate the functionality of its interface to Onguard. We look forward to their continued involvement in the Lenel Open Access Alliance Program," said Raffaele Ceravolo, director of strategic alliances for Lenel. Lee Caswell, founder and chief marketing officer at Pivot3, said: "I think our joint prospect customers are very interested in the interoperability of our solutions, making sure they fit smoothly in their current environments. Also, it shows to our current customers our commitment to open-system solutions, helping them conserve their existing investments while giving them the ability to implement proven, leading-edge solutions."
www.pivot3.com, www.lenel.com

First Mobile Digital Video Solution

Nice Systems announced the release of SafeRoute, the company's first mobile digital video surveillance solution. SafeRoute further expands Nice's suite of security solutions, offering companies in the transportation sector a comprehensive solution for monitoring and improving security system-wide, in stations, rails, critical infrastructure and fleets. The new SafeRoute onboard video surveillance system extends Nice's comprehensive security capabilities from stationary assets to include moving vehicles, such as trains, buses, and trams. SafeRoute is a complete solution for high performance mobile digital video surveillance, specially designed for the demanding conditions of public transport and equipped for high-quality onboard recording.
www.nice.com

CCTV Conference & Expo 2009

The CCTV Conference & Expo in Italy is entirely dedicated to video surveillance and its applications. Its 12th edition will be held on May 21, 2009 at the Milanofiori Congress Centre in Assago-Milan. The 2008 edition boasted over 800 registered people, 40 exhibiting and sponsoring companies, 16 Italian and international Speakers, 15 supporting trade associations, 34 workshops, 9 parallel events.
www.securindex.com

Sagem Partnering with Hitachi

Sagem Sécurité is partnering with Hitachi, an engineering and information technology giant, to develop a multimode biometric recognition module. Developed and produced by Sagem Sécurité, this module will combine the best of Hitachi's vein imaging technology (Vein ID) and Sagem Sécurité's fingerprint identification technology (Morpho). The complementary nature of these two identification methods – recognition of the pattern of minute blood vessels under the skin, and simultaneously processing of fingerprint data – means that the module developed by Sagem Sécurité will offer higher levels of security and accuracy.
www.sagem-securite.com

Solid State Secures Brighton's Floral Pavilion Theater

Solid State has completed a major project at New Brighton's Floral Pavilion Theater and Conference Center. Merseyside's entertainment venue has undergone a radical £ 10.4 million facelift and now hosts a huge amount of events including musical theatre, concerts, dance, award ceremonies and exhibitions. The company ensured that the show was well on the road by successfully equipping the building with a range of life safety systems, including fire alarm, voice alarm/public address, CCTV/intruder, access control and disability equipment. Communication throughout the building is facilitated by Signet's Integrity voice alarm/public address system. At the heart of the high-tech system are racks of amplifiers, housed in a specially designed communication room and connected to speakers throughout the building's auditoria, dressing rooms, foyers and VIP lounges.
www.c-tec.co.uk

Optelecom-NKF Names Dave Patterson President

Dave Patterson is Optelecom-NKF's new President – effective since March 9, 2009. Prior to joining the company Mr. Patterson served as President and CEO of Siemens subsidiary, Siemens Government Services (SGS), a provider of IT-enabled solutions that improve end-user operations and infrastructure and secure vital assets. As head of SGS, Mr. Patterson was responsible for the strategic direction, operating performance, and marketplace success of the enterprise. He joined SGS in July 2006 from another Siemens company and also served as a member of the company's Board of Directors. He holds a Bachelor's degree from Colorado Tech and completed graduate studies in international business at the University of California and Thunderbird School of Global Management.
www.optelecom-nkf.com

AMG Enters Distributor Agreement with Transmea

AMG Systems has signed a distributor agreement with Dutch based Transmea – a company specializing in the distribution of sophisticated security and surveillance products. Under the new agreement, Transmea will sell a wide range of AMG's transmission solutions in markets such as Russia, Ukraine, Georgia, Eastern Europe, Scandinavia, the Baltic States, the Balkans, and a large number of African countries. Transmea will also provide first line technical and commercial support for Systems Integrators and Consultants in the chosen markets. The distribution agreement covers AMG's Guardian-Lite product range, Vision 5000 and Vision 2000 product series as well as various AMG accessories such as racks and power supplies.
www.amgsystems.com, www.transmea.nl

Identity Document Security from Mühlbauer

In order to continuously improve the security of sovereign identity documents in Germany, Mühlbauer will work together more closely with the German Ministry of the Interior (BMI). On the Cebit, the German Minister of the Interior, Dr. Wolfgang Schäuble, and the CEO of Mühlbauer, Josef Mühlbauer, signed an agreement for a security partnership for document security. Mühlbauer is a consultant and manufacturer of technologically innovative security solutions in a market segment termed by the company as the "Tecurity-market". It has more than 1,900 employees and a global network of sales and services, an as such a supplier of production equipment for the Smart Card industry.
www.muehlbauer.de

Group 4 Technology Opens Dubai Office

Integrated Security Management supplier Group 4 Technology announced the opening of their new support office in Dubai. Located in the Airport Free Zone, one of Dubai's fastest growing Free Zones, the office will become the Middle East sales headquarters. The site will house technical support facilities together with a purpose built training center to assist Security Integrators, Consultants and end users from throughout the Middle East and Eastern Africa. "Offering excellent links to a wide range of markets, Dubai was the perfect location to set up our Middle Eastern headquarters. Recently launching the Arabic version of the Symmetry Security Management System, the Symmetry Video Management System and the EN-7900 Encoder Series, it is a very exciting time for Group 4 Technology," explained Amid Alshanteer, Regional VP of Sales for the Middle East and Eastern Africa.
www.g4tec.com

Arecont Vision Appoints New Marketing Vice President

Arecont Vision has appointed Scott Schafer as Executive Vice President of Sales and Marketing. In the new position, Mr. Schafer will manage the company's global strategy to market IP-based high-resolution megapixel video surveillance solutions throughout its domestic and international markets. Mr. Schafer brings extensive executive management sales and marketing experience to the company. For the last four years, Mr. Schafer held the posts of Senior Vice President of Americas and Global Marketing and North American Sales at Pelco. His experience also includes Senior Vice President of Sales, Marketing and Service at The Reynolds and Reynolds Company, and managing global networking and high availability services for NCR.
www.arecontvision.com

Growth in turnover for Basler Components

Basler Vision Technologies has released its 2008 annual report. At €29.7 million, the Basler Components division (digital industrial cameras) increased its turnover by 8% over the previous year (2007: €27.5 million). This increase was predominantly due to the expansion of Basler's international leadership in the fast-growing Gigabit Ethernet camera segment. Thus in 2008, Basler Components consolidated its number two position in the global market for digital industrial cameras. The company's entry into the promising video surveillance market forms the basis for further growth outside of the capital goods industry. Just as in 2007, the components' division generated more than half of the group's turnover. "We finished the 2008 year with an excellent result, although the fourth quarter was already influenced by the global recession", concludes Arndt Bake, General Manager Basler Components.
www.basler-ipcam.com

Ioimage Intelligent Video for Botswanian Correctional Facility

Ioimage announced that Botswana's Department of Correctional Services has installed the company's video analytics at its First Offenders Correctional Facility in Gabarone, Botswana to control the movement of prisoners and reduce the number of inmate incidents. The prison, which measures 22,500 m^2, needed a reliable and accurate perimeter protection solution that would integrate with the existing video management system. It also had to be easy to operate and capable of withstanding the region's harsh weather conditions. The company's intelligent video was integrated into a "double knock" detection system that also employs kinetic energy sensors. Since a convict would have to circumvent two security systems in order to escape, the probability of detection is very high. The Botswanian government is currently planning further installations with the company's intelligent video appliances at four other prisons.
www.ioimage.com

Master Distributors for Intellio Intelligent Cameras

Intellio is hopping continents to expand its business of selling its self-developed intelligent cameras. A partnership has been sealed between the Hungarian company and the Australian subsidiary of Vicon Industries (USA) and Safindo Import & Exports of the South African Republic, granting these companies the status of "master distributor" of Intellio cameras. "Despite the economic slump there has been a growing excitement about our intelligent security, retail and traffic surveillance solutions worldwide, due in part to a string of successful applications both in and outside Hungary," says CEO János Kópházi.
www.intellio.eu

Quality Security Solutions for Effective Home Security

The British Security Industry Association (BSIA) is supporting the Home Office in its ongoing work to prevent burglary through an initiative to provide discounts on professional property marking systems, whilst also emphasising the importance of quality security products and systems installed and maintained to professional standards. John Bates, BSIA Chief Executive, comments: "The BSIA is extremely supportive of the British government's work to prevent burglary. As a result of our involvement in the Home Office summit earlier in the year and a meeting with Home Office Minister Alan Campbell MP, BSIA property marking companies are offering a 20% discount on professional marking systems – an initiative which will be rolled out through information packs offered by police forces.Throughout our discussions with the Home Office, we have emphasised the importance of quality security products and systems and the fact that compliance with standards is essential to effective home security. This message is fundamental to all the Association's work and has certainly been taken on board with respect to professional property marking systems."
www.bsia.co.uk

Geutebruck Video Security on School Campus

Having already suffered break-ins, thefts, graffiti and broken windows, an extremely expensive flood was the final straw. The management of a multi-school campus in Tarp, north Germany decided enough was enough. Rather than continue funding refits and repairs it was decided to invest in prevention and detection. The 600,000 € bill for the complete refurbishment of a building which followed a weekend when stop taps were purposely left full-on, made the cost of electronic security for the site and buildings look extremely good value. The chosen security solution, a Geutebruck CCTV system, was supplied by DTE a local installer from Flensburg. DTE mounted 42 megapixel cameras inside and outside the six buildings. Outdoor motion detection is used to control both video recording and the halogen spotlights, which illuminate any night-time activity. In each building a Geviscope video system platform processes local traffic and archives the data. When necessary, all six units are combined into a single high performance system via the schools' Gigabyte network, so that all camera pictures can be viewed, and all the (dual control protected) archives can be searched from the central monitoring station.
www.geutebrueck.com

Videor Attends Ifsec 2009

With Videor E. Hartig one of the leading European Multibrand Distributors will be an exhibitor at IFSEC again in 2009 – and increase its booth area by a good 40 %. Placed directly at the main entrance and designed as a lounge, the extended area offers much room to discuss current projects and product innovations. Just recently another important supplier was won over with Sony, which expands multibrand portfolio. Over twenty brands are now covered by the the company's product range, which includes the ideal product for nearly every application: AGNeovo, Aimetis, Axis, Basler, Bosch, BWA, Dallmeier, Derwent, eneo, Fujinon, Fujitsu, GE Security, Heitel, JVC, Lumenera, Netavis, Nitek, OT Systems, Pelco, Raytec, Salesmark, Sentech, Sony and Tamron.

www.videor.com

PCSC and HID: Single Door Module

PCSC introduced a Single Door Module (SDM). It is based on a development partnership between PCSC and HID Global. Utilizing PCSC's patent pending Fault Tolerant system design and HID Global's Edge networked access control technology, this product represents a Fault Tolerant single door controller and reader combination. Unlike other systems, the integrated Fault Tolerant Architecture allows for applications ranging from small to enterprise. A standard PoE interface offers an easy, low-cost installation access solution. The "single cable" setup provides for: communications, power, reader, controller, door lock output, door position and request-to-exit inputs. The SDM, utilized in conjunction with PCSC's "Linc-NXG" (Next Generation Software) and the Fault Tolerant Master controller, provide an access system that exceeds most security requirements.

www.hidglobal.com

Steve Liddiard Returns to Lilin

Lilin announced that following two years in the security media industry, Steve Liddiard has returned to the company as National Sales Manager. He has a wealth of experience within the CCTV industry; he was previously with Lilin from 2002 to 2006 as a Business Development Executive and prior to that had worked in distribution sales and major project management. Steve Liddiard said: "I am delighted to have rejoined Lilin. I am looking forward to working with many of the customers I previously dealt with, as well as developing new relationships with major national accounts."

www.lilin.co.uk

C-Tec Expanded Sales Force

C-Tec has appointed John Yates as its new distributor sales executive. With over 30 years in the industry, he is already very familiar with the company's products and holds an impressive track record. After starting his career as an estimator at Static Systems Group, John Yates joined major distribution group, Firesafe, as technical sales representative, covering accounts all over the UK. Most recently, he worked as Regional Sales Manager at Sensotec. In his new position he will concentrate on consolidating the company's key existing distributor accounts and actively developing new business in the South.

www.c-tec.co.uk

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Ramon Grado Assumes IQinVision EMEA Leadership

IQinVision announced that Ramon Grado has assumed the position of Managing Director for IQinVision's operations in Europe, the Middle East and Africa. Along with Grado, the company continues to grow and solidify the ranks of sales and operations staff with six additional appointments. Ramon Grado comes to the company with over 25 years experience in multinational corporation sales, sales management, and general management. As another significant addition to the company's global management team, Richard Chow joins the company in the new position of Operations Manager, located in Hong Kong. Chow comes from Schneider Electric, where he was the Regional Purchasing Manager. He brings over 20 years experience at major companies such as Hewlett Packard, AT&T, Lucent, and Honeywell.
www.iqeye.com

Video Surveillance System Goes Live

Mirasys has provided a surveillance system for one of London's most prestigious luxury hotels, the Marriott Grosvenor Square. As the hotel completes renovations and adds new meeting areas and banqueting suites, it was necessary to upgrade the surveillance system, and two of the company's V5000 digital video recorder servers, installed by security specialists Link CCTV Systems, provided the flexibility and reliability that was required. The servers, which supports 48 cameras at the Marriott, allow for digital images to be recorded on up to 64 channels simultaneously. The hotel's existing analogue cameras have been seamlessly integrated within the Mirasys solution, which provides the option of introducing high resolution IP cameras in the future. Among the key features of the video recording server are continuous, motion-based, audio level and event recording. Footage can be searched from up to eight channels simultaneously to include time and date, specified events, motion and activity.
www.mirasys.com

Turkey´s Largest Corporate Archive Protected by OxyReduct

When Turkey's largest conglomerate wanted to protect over 90 years of corporate history they chose Wagner´s OxyReduct system for their new purpose built archive. With a valuable collection of documents, objects and works of art the Koç Corporation wanted to ensure that they were protected from the risk of fire. OxyReduct creates a fire-free environment and thus offered Koç Corporation the ultimate form of fire protection. Founded by Vehbi Koç in 1917, the Koç Corporation has grown to be Turkey's largest holding group with over 100 separate corporations operating in 100 countries. In 2004 the group had a turnover of 16.6 billion dollars with interests as diverse as the manufacture of cars, food, TVs and washing machines and the operation of petrol stations, supermarkets and retail outlets. A purpose built 5,000 m^3 archive was built in the basement of Koç's new corporate complex in Istanbul to house the main collection. A second archive area was also built for Koctas, one of the first corporations in the Koç Group. With such a valuable archive it is imperative that a fire cannot start and no matter how good a fire detection, extinguishing or suppression system is, a fire has to start for the system to work – causing inevitable damage. OxyReduct creates an environment where fires cannot start, by continuously reducing the oxygen level in a closed area by adding nitrogen to the air. The oxygen is reduced to a level in which most combustibles do not inflame and an open fire is impossible. Importantly, people can enter and work in the archives at any time. Over 200 major organisations throughout Europe, including the British Library, Jaguar Land Rover and British Airways, have already installed OxyReduct systems in a wide range of applications including IT data centres, communication suites, archives, museums, cold/freezer storage and warehousing. OxyReduct has proved itself to be cost effective compared to traditional protection systems for high-value storage and mission critical applications. The system will be presented next at the "Protection & Management Series" shows for Security, Fire, Safety and Facilities (NEC, UK-Birmingham, 11–14 May) – at International Firex, hall 3, booth D5.
www.wagner.de

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+++ NEWS +++ NEWS +++ NEWS

Solution Provider for the Angola ID Card

Digital Identification Solutions announced that the company had been chosen as the personalization solution provider for the Angola National ID Card Program. High-end EDIsecure XID Retransfer Printer Solutions with Inline Lamination Modules and consumables had been already delivered for the production of the first 2 Million ID Cards. The Digital Identification Solutions Group had been appointed by LaserCard Corporation which is a long year business partner of the German based Company. LaserCard itself cooperates with the Angolan Government's prime contractor DGM-Sistemas of Luanda. Secure custom encoded optical memory laser cards will be personalized via retransfer printing technology and additionally protected with an inline clear patch lamination. The roll out will take place in multiple steps during the 2009 and 2010 timeframe. the private and public sector.
www.digital-identification.com

Lilin Joins ONVIF Forum

As support for this emerging IP standard protocol gains pace, Lilin have confirmed their membership of the Open Network Video Interface Forum (ONVIF). With five years of IP CCTV product experience behind them, the company is confident that the interoperability of network video products from a wide range of manufacturers will offer the best choice for the end user and protect their capital investment in future IP Systems. In addition, as ONVIF compliant products reach the market the adoption of Poe standards and H264 compression algorithms will accelerate the transition from analogue to IP video and offer real benefits to installers and end users alike.
www.lilin.co.uk

Verint EMEA Networked Video Partner Awards

Verint Systems announced the winners of its 6th Annual Verint Video Intelligence Solutions Networked IP Video Partner Awards, held during the company's EMEA Partner Summit in Amsterdam. Delegates from Verint's partner community across Europe attended the summit. This year's Verint award went to ISTA for its extensive work with Verint's Nextiva IP video management portfolio in Russia. The "Networked IP Video Highest Growth Partner Award" was presented to Czech Republic partner Integoo, and Lirex BG won the "Networked IP Video Project of the Year Award" for its delivery of Verint Nextiva solutions in more than 250 schools in Bulgaria. The "Transit Partner of the Year Award" went to Axcess for its work in the Danish rail market. "Our video business is conducted through our ever-expanding partner network, and I am delighted to recognise these exciting achievements," says David Parcell, Managing director EMEA for Verint Systems.
www.verint.com

EADS Supplies Rohill with Tetra Equipment

EADS Defence & Security (DS) has signed a Frame Supply Agreement with Rohill for the supply of Tetra equipment and services. DS will notably supply its Olympic grade TB3 base stations in 800 MHz band to Rohill, who is to integrate them into their own Tetra systems. The first TB3 base station is currently undergoing integration tests at Rohill. EADS TB3 is Teds-ready i.e. highspeed data can be introduced into TB3 base stations with a simple software upgrade. (Teds stands for Tetra Enhanced Data Service). DS will also supply its Tetra terminals to Rohill, thus enlarging its channels to the market for these advanced products.
www.eads.com/tetra, www.rohill.com

Nedap and Salto Announce Collaboration

An off-the-shelf integration between Nedap Aeos and Salto off-line readers has been presented by the two companies. The integration provides customers with a seamless single management platform for their entire access control needs, increasing cost effectiveness and flexibility. With this integration, Nedap extends the advanced access control capabilities of Aeos to off-line, unwired doors. After a period of intensive cooperation in the field of research and development, both companies have announced that they will extend their cooperation aimed at promoting integrated access control solutions.
www.nedap-aeos.com

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Pixim's Partner Program Successful

Pixim announced its Pixim Partner program has achieved strong success in its first year. More than 90 companies have begun taking advantage of the program. "Pixim's Partner Program is unique in both the breadth of the program and Pixim's position in the value chain," said Jennifer Martin, manager of worldwide channel programs. "We are the only component (as opposed to a total-solution) manufacturer with such a program, and we are the only ones reaching so far back and forward into the channel – spanning the full range from developer and board-level partners all the way to partners that sell directly to end users." The Partner Program is part of the company's Channel Program. It gives partners access to services and tools to help enhance their success at selling offerings based on the Digital Pixel System technology.
www.pixim.com

C-Tec at Liverpool's Friary

C-Tec's XFP addressable fire alarm control panel is playing a star role safeguarding Liverpool's Friary, the rehearsal theatre of the world-famous Royal Philharmonic Orchestra. The panel is situated in the main foyer of the Friary and connects to over 200 Apollo XP95 devices networked around the main building. Rather than using numerous detectors, this design utilizes a series of powerful intelligent beam detectors, positioned on and powered by the loop. Key to the specification of the XFP for this project was the fact that the panel can be easily programmed to prevent the likelihood of false alarms occurring. This feature, explains Paul Earnshaw of Amsec UK, the specialist installation company, which installed the system, is absolutely essential in any live entertainment venue.
www.c-tec.co.uk

BusinessPartner

Pelco to Participate in Ifsec

After careful evaluation and reconsideration, Pelco will once again be participating in Ifsec 2009. This is a shift from an announcement made late last year that the company would not participate at the 2009 show. "Following some last minute discussions with the show organizers we have reached agreement for Pelco to exhibit in the IP section of the show, albeit with a much smaller stand than in previous years, in order to launch several exciting new products including the Sarix megapixel camera range and the new Endura HD Optimised, enterprise-class video management system," says Kevin Smith, Pelco Regional Manager for the UK and Ireland.
www.pelco.com

Optelecom-NKF Project Update

Optelecom-NKF provided an update of their ongoing video surveillance project at the Bawadi Mall in Al Ain, United Arab Emirates. The Bawadi Mall opened its first phase of development to visitors on January 29th of this year. At 861,000 square feet the two-level shopping mall, when completed, will be the largest in the eastern region of Abu Dhabi, United Arab Emirates. Security for visitors to the Bawadi Mall is a key element of its design. Al-Futtaim Engineering Security & LV Systems Division, the project's integrator, chose the company to supply the data transmission equipment for the mall's CCTV video and data transmission system. The fiber-based system incorporates 203 cameras, including 133 for mall's common grounds, 43 for the Heritage Village – which consists of traditional shops, an entertainment stage and much more –, 16 cameras in District Cooling Plant, and an additional 11 outdoor high-end PTZ perimeter cameras.
www.optelecom-nkf.com

VdS Newsletter in English

VdS Schadensverhütung, part of the German Insurance Association (GDV) that tests and certifies products and service providers in the safety and security sector, has launched an English language version of its newsletter. It will feature regular reports on the latest innovations in the field of fire prevention and safety technology. It will also contain the new VdS guidelines as well as details of newly approved products. In addition, the newsletter will inform readers of upcoming events well in advance: VdS conferences and training courses, trade shows and other interesting events.
www.vds.de/newsletter-english

EADS in China

EADS Defence & Security recently announced, in collaboration with Beijing Satellite Science & Technology, the first Tetra project in China's oil and gas fields – providing a complete Tetra radio communication system for the Puguang Gas Field of the Sinopec Zhongyuan Oilfield Company. The system will include one DXTip switch, six TB3 base stations and a Network Management and Dispatching System; it operates on the 800-MHz frequency band. This is a similar system to the one that ensured the smooth operation of Beijing Games in 2008. The radio network will provide coverage over the Puguang Gas Field, including its ground gathering and transportation station, pipeline, purification plant, production management centre, fire and gas protection station and neighboring production operation areas.
www.eads.com/tetra

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PUBLIC SECURITY

Protecting Global National Infrastructure

Why It Is Important to Get the Private Sector Involved

David Taylor-Smith

As global security threats continue to grow the protection of critical national infrastructure (CNI) has become an important area in which the public and private sectors need to work more closely together. This is becoming ever more important as governments are increasingly unable to provide the necessary wide ranging and rapid support they once may have been able to provide. There is no credible choice but to involve the private sector, which already funds, builds and operates critical infrastructure, more fully in its protection.

The former US President, Bill Clinton, summed up CNI's importance when he said it was "critical infrastructures that are so vital that their incapacity or destruction would have a debilitating impact on the defence or economic security of the nation". In the UK, the Government's Centre for the Protection of the National Infrastructure sets out nine CNI sectors: communications; emergency services; energy; finance; food; government services; health; transport; and water. Without these services, any state could suffer serious consequences, including economic damage, social disruption or even the large-scale loss of life. Therefore it is beholden on industries in these key sectors to wake up to the realisation that securing their facilities is crucial. Terrorist attacks and insurgency remain the key threats and the issues which dominate the headlines, particularly following the recent outrages in Mumbai and Lahore. The difficulty on countering these threats is driven by their dependence on disparate social networks across international boundaries and the difficulty of identification of those involved. However, there is a huge risk if our efforts and expenditure decisions are dominated by terrorism alone. Companies need to consider a wider range of risks they may face, from natural disasters to the growth in more malicious activism. The devastation caused by Hurricane Katrina, the 2004 tsunami or even the more recent floods across the UK, threatened the viability of communities and the infrastructure upon which they depend. Companies need to start preparing now to effectively combat this growing spread of national and international threats.

When a disaster strikes, we assume that it should be governments and their agencies which will spring into action to provide essential services and infrastructure recovery, restoring social and economic normality. We also tend to pin the blame on government if there is chaos and disruption following any event we judge to have been foreseeable, avoidable or easily controlled. However, whilst governments do prepare for such events, providing in many cases an excellent response, emergency services and armed forces are often stretched to their limits due to operational or budgetary constraints. There is also the complicating factor that national governments and agencies are also not always able to deal with international incidents for a wide range of reasons from political to a lack of capability. So where can they find additional resources that can not only protect assets but also help them assess the threats to which they're exposed?

The obvious response is the international security industry which has rapidly deployable resources across the globe and a major vested interest in helping to prevent and minimise the effects of CNI disruptions. Companies within this industry already have the expertise to handle these tasks, both domestically and when necessary overseas. We protect airports, power stations, water treatment centres and banks in many countries and, in some of them, we also build and operate critical infrastructure such as prisons, youth offender facilities and cash centres. As both CNI operator and protector, this puts us in a strong position to deliver real support to governments seeking to improve national resilience. So what should Governments do? To kick start the process they need to force all relevant parts of the private sector to take protection of CNI more seriously by creating explicit obligations on owners and managers to protect their infrastructure, as the UK Government already does for those in the aviation or water industries. These obligations can be created either through legislation or through regulation: but until they are there, businesses will continue to ignore the problem for financial or operational reasons.

Governments can also take a more pragmatic approach to using the private sector to operate, protect and provide surge capacity in the protection of CNI both at home and abroad. In many circumstances, the private sector's flexible, national and international resources are equal to or superior to those owned by individual governments and as such should be trusted to perform as required. Take G4S for example. In North America, we are already relied on to secure over 50 per cent of commercial nuclear power stations and to protect high sensitivity sites such as the Pentagon and NASA. In Europe, we protect the European Parliament, NATO headquarters, a number of secure UK Government facilities and a growing list of major international ports and airports such as Amsterdam's Schipol airport and Heathrow International. We also protect Embassies and diplomats for the UK, US and other sovereign governments in a wide range of complex environments around the world as well as providing timely, emergency cross-border services which far outstripped the efforts of individual government agencies.

With the pressure on Government agencies to produce ever more accurate and pre-emptive intelligence, the private sector organisations, with its comprehensive international networks, offer new avenues to providing appropriate intelligence. After all, the private sector has been using private security risk and advisory consultancies to provide business intelligence for many years. Making such intelligence networks available to the public sector is simply common sense. Therefore the private sector has already proved the very real benefits of using it to provide CNI-related services previously thought of as the exclusive domain of the public sector. In reality there is no alternative but for the public and private sector to work together to protect and build critical infrastructures. Governments that choose to maintain the status quo rather than involve the private sector in CNI protection are taking unnecessary risks and ultimately over stretching their resources and exposing their CNI to potential attacks.

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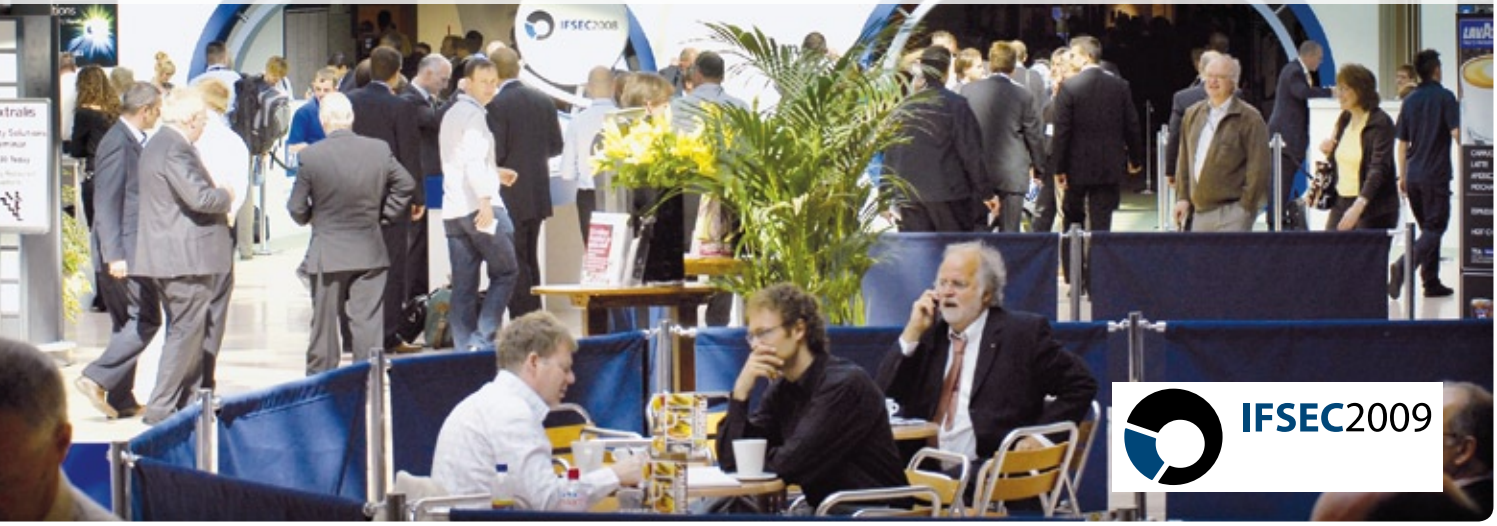
EVENT

The Protection & Management Series

Ifsec, Safety & Health Expo and Firex in Birmingham



The Protection & Management Series takes place annually in May hosting Ifsec, Safety & Health Expo, The Facilities Show, Fire & Rescue and the biennial International Firex. It attracts over 50,000 protection and management professionals from 125 countries around the world, year upon year. In 2009, the five co-located shows will feature in excess of 1,500 exhibitors and will span over six halls in the NEC Birmingham, from 11–14 May.

Ifsec 2009

Following Ifsec's 35th anniversary in 2008 which attracted 30,257 attendees, the world's largest annual security event returns in 2009 to the NEC and will be located in the halls 3A, 4 and 5. The exhibition provides security installers, manufacturers, distributors, IT integrators, end-users and consultants with a platform to keep up to date with the ever-changing developments of the global security industry. In today's economic climate, companies' budgets and spend are being increasingly monitored. For this reason, Ifsec 2009's features and content have been adapted to meet the evolving demands of security professionals. More than 600 market leading companies have confirmed their presence at this year's event. As the annual meeting place for security professionals worldwide, there will also be networking opportunities for those that attend.

The Ifsec Conference Program

Ifsec 2009 will host a high-level three-day conference programme covering the most cutting-edge issues for the security industry today. Designed to help security professionals maintain control in today's ever-changing world, visitors will be invited to use the event's "pick and mix" agenda to ensure they have the opportunity to address all their key security challenges. Each day of the 2009 conference, entitled "Maximising protection in uncertain times", will be dedicated to a specific area of security and chaired by an industry leading figure. Day 1 will look at Global, National and Local Protection focusing on three modules – Global Terror, Critical National Infrastructure and Crisis Management. The sessions will delve into key issues in these three fields including maintaining business resilience and continuity, the latest security intelligence and security strategies and planning procedures of Critical National Infrastructure. Many top level speakers will be presenting throughout the day including DCI Chris Phillips, Head of National Counter Terrorism Security Office; Commander Sue Akers, Head of Organised Crime and Criminal Networks at the Specialist Crime Directorate; Stephen Cooper, Head of Security at the Olympic Delivery Authority and Norman Russell, Director of Russell Security Consultants. The day will be chaired by David Kidd, Regional Security Manager at the US Embassy.

Day 2 of the conference programme will concentrate on Corporate Security Management and will look at issues such as the threats of e-crime and online fraud, security managers overcoming increasing financial restrictions to maintain a secure environment and the dynamics of employee security. Speakers include Steve Fowler, Chief Executive of The Institute of Risk Management; Chris Brogan, Managing Director of Security International Ltd; Dan Hooton, Group Head of Security at Prudential PLC and William Beer, Information Security Head at PricewaterhouseCoopers. This day will be overseen by Bill Wylie, Past Chairman of the Security Institute.

Finally, day 3 will explore Technological Innovations in Practice and will concentrate on various issues including the advantages of interoperability of security systems, the pitfalls and challenges associated with IP implementation and the future of security systems. John Convy, Technology Alliance Manager of Cisco Physical Security; Emma Shaw, Co-Director of The Security Institute and Kevin Franklin, Director of the Border Transformation Group at the Home Office

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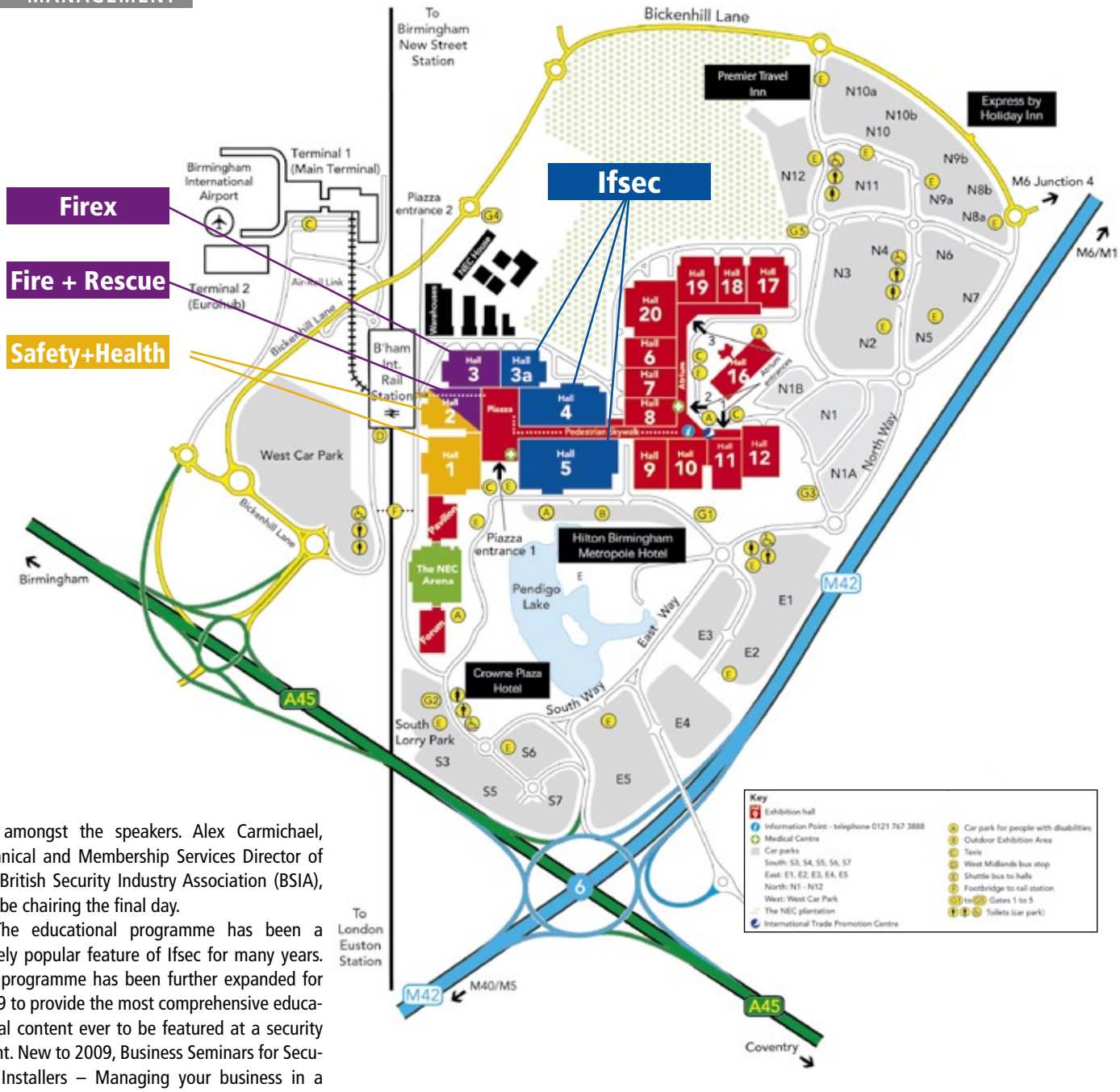

are amongst the speakers. Alex Carmichael, Technical and Membership Services Director of the British Security Industry Association (BSIA), will be chairing the final day.

The educational programme has been a hugely popular feature of Ifsec for many years. The programme has been further expanded for 2009 to provide the most comprehensive educational content ever to be featured at a security event. New to 2009, Business Seminars for Security Installers – Managing your business in a downturn is a new seminar programme dedicated specifically to installers. These sessions will focus on various issues including maximising emerging opportunities, developing robust business plans, winning new contracts, selling security in a downturn to a variety of vertical markets, expanding your business abroad, bringing projects in on budget and many more.

Ifsec Exhibition

Once again visitors to Ifsec 2009 will be able to explore the latest security products and services available both in the UK and worldwide. The exhibition will be organised into the following categories: IP Networks and Integrated Systems, Access Control, CCTV, Intruder Alarms, Counter Terror and Physical Security and Security Solutions.

In addition, the popular New Product & Technology Showcases returns to this year's event. With demand for the latest products and technology at an all time high, industry renowned names will deliver informative educational sessions looking at their latest developments. Finally, a delegation of international security buyers will be present at the event. Organised by the British Security Industry Association, Fire Industry Association, The Association of Police & Public Security Suppliers, event organisers UBM Live and supported by UK Trade and Investment, a "Meet the Buyers" event, which will be opened by Prince Michael of Kent, will take place on Monday 11 May. This event will allow UK exhibitors to "speed network" with key buyers and decision makers from Argentina, Canada, Egypt, India, Italy, Lebanon, Portugal, Saudi Arabia, Singapore, South Africa and Vietnam.

James Blue, Director of Fire & Security at UBM Live, organisers of Ifsec comments: "Having celebrated our 35th anniversary in 2008, Ifsec 2009 looks set to build on our previous success. Following our experience last year and through extensive research, we are delighted to deliver a more comprehensive conference schedule this time round. Having secured a number of internationally renowned industry names, we are in no doubt that delegates will be benefiting from the finest expertise the security industry has to offer. We also have more free educational content than ever before to make sure that everyone is able to address their security needs."

Ifsec will also host the 2009 Security Industry Awards. In association with the BSIA, the awards acknowledge the people, products and technological advancements that have played a big part in the security industry over the past year.

www.Ifsec.co.uk

Firex 2009

This year the NEC will host two fire events: Fire & Rescue (12–14 May) will return to the NEC after the success of the show at the ACC Liverpool. Moving to a new hall and with popular features returning for 2009 including the Fire Service Vehicle Display Area and the Water Rescue Display Area as well as new features such as the Learn-

ing Zone. 2009 will also see Fire & Rescue co-locate with International Firex. Also Firex moves to a new hall and will incorporate some new features including a training centre. Set to be bigger than ever, the show is taking place from 11–14 May.

The Loss Prevention Certification Board (LPCB) Red Book Pavilion, the new feature at International Firex 2009 which will promote the importance of third party approved products and services in the fire protection sector, has announced a comprehensive educational seminar programme. The seminars will be hosted by industry experts from the LPCB and dedicated staff will be on hand to answer any queries. Gerry Dunphy, event manager of International Firex states: "The new LPCB Red Book Live Pavilion is set to be a hugely successful and popular feature. We believe it will enhance the show's importance to the fire safety industry and as such, many manufacturers listed in the The Red Book are participating in the show."

The informative sessions will look at key issues relating to fire safety including:

- Benefits of certification and the approval process
- The Fire Safety Order – a practical approach
- Fire safety design of buildings
- Fixed gaseous extinguishing systems
- Examining the different levels of security products: what is appropriate where?
- Passive fire – is it just a case of filling the gaps?
- Wireless and voice alarm fire detection

www.internationalfirex.co.uk

Safety & Health Expo 2009

Safety & Health Expo 2008 saw over 18,000 attendees over the three day show and organisers hope to attract as many visitors this year, when the show opens its doors from 12–14 May. The exhibition, which is officially supported by the Royal Society for the Prevention of Accidents, the British Safety Industry Federation (BSIF) and the Institution of Occupational Safety & Health is Europe's largest annual safety and health event. This year Access Industry Forum (AIF), the umbrella organisation representing the principal trade bodies and associations connected with working at height, is returning to Safety and Health Expo to host Access Live, the Access Village and the Work at Height Seminar Theatre. Professional actors will perform a range of scenarios designed to reinforce the Health and Safety Executive's (HSE) ongoing 'Shattered Lives' campaign. Using mobile elevating work platforms, scaffolding, mobile access towers and ladders, the Forum will take as its theme 'Act now before it's too late' as a call to action to combat the risk of injury or death as the result of a fall from height.

Following a successful launch last year, the Working at Height Seminar Theatre will again be a prominent feature at the Safety and Heath Expo. Packed with key topics, themes and top-level speakers, the educational programme promises to deliver key advice and insights from industry leading experts. All seminars are free-of-charge.

The Access Industry Village will be home to a number of Forum members who will be on hand to provide clear and practical advice from their respective stands. For issues concerning mobile elevating work platforms, International Powered Access Federation will be present to provide guidance and answer any queries. Likewise National Access & Scaffolding Confederation will be present to advise on all scaffolding issues, Prefabricated Access Suppliers' and Manufacturers' Association will be looking after mobile access towers and the Ladder Association will be on hand to answer any ladder or stepladder queries. Adrian Newton, Portfolio Director of Safety and Building Management at UBM Live, organisers of Safety & Health Expo, comments: "Safety & Health Expo 2009 looks set to build on our success in recent years. Always a popular feature, we are delighted to welcome back AIF who again have pulled out all the stops to provide visitors with practical help and advice connected with working at height. We believe that the programme AIF have organised will offer visitors all the information they need to make their organisations safer and injury-free."

www.safety-health-expo.co.uk

Axis' Family of Network Cameras

HAPPY BIRTHDAY

Experience Takes Us Forward

Axis Communications Celebrates 25th Anniversary

"Experience Takes Us Forward" is the claim Axis Communication uses in 2009, when the company celebrates its 25th anniversary. It was not only experience that has made Axis the global market leader in the network video market. A strong commitment to technical innovations and the ability to form strong partnerships has always been the strength of Axis.

The Start In 1984

The idea for Axis Communications was born in a student room in Lund in 1984 when two students and entrepreneurs, Martin Gren and Mikael Karlsson considered the possibilities presented by the dawning computing revolution. They identified early opportunities in the corporate printing sector so decided to begin the journey there. From the beginning, Axis' focus was on developing products for networks. Its initial product offering was an IBM protocol converter that made it possible for the first time ever for several users in a building to share the same printer. In 1996, Axis decided to connect a camera to the network and with that the world's first network camera was born.

Products for Networks, Networking for People

Over the years Sweden-based Axis has built on its strong heritage of excellence in networked hardware products driving the shift from analog to IP in this emerging sector that IMS forecasts will grow 35 % over the next five years. Twenty five years on, the company has advanced on many fronts. Axis is now represented in more than 20 countries and more than one million of its network cameras have been installed worldwide. Axis has achieved this incredible success through an unshakable commitment to building and nurturing its partner community.

Today Axis' worldwide community of system integrators and resellers is more than 24,000 strong. At the same time, Axis is a well-known local company in the University City of Lund, where its head office and the majority of its research and development operations are located.

In 2009 Axis is a dynamic, modern IT company at the cutting edge in the development of network video products and is currently in an expansionary phase. During 2008 Axis recruited more than 100 new employees, established new offices in Moscow, Beijing and São Paulo. It's 'New World of Video Surveillance' initiative continues to introduce products that support the very latest technologies related to megapixel, compression and intelligence. Last year, Axis also launched its in house developed Artpec-3 chip featuring the latest compression standard (H.264), which delivers excellent quality video for a range of applications whilst minimising bandwidth and storage requirements compared to previous standards.

Martin Gren,
Co-Founder of Axis

Axis At A Glance

- The idea for Axis Communications was born in a student room in Lund in 1984
- Axis is represented in more than 20 countries
- An IT company driving the network video market
- Over 500 employees
- More than one million of its network cameras have been installed worldwide
- The worldwide community of system integrators and resellers is more than 24,000 strong
- Net sales in 2008: US-$ 300 Million

"With 25 years experience of innovation and building loyal partner networks, Axis is well positioned to continue delivering on its stated mission to be the driving force in bringing customers the full benefit of intelligent network video solutions. We'd like to express our warmest thanks to our customers and partners for their fantastic support and commitment through our journey over the past 25 years."

**Ray Mauritsson,
Axis CEO**

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STANDARDS

The Next Steps towards a New Standard

What Is New Regarding IP Video Standards

ONVIF Gains Momentum with Several New Members

ONVIF has accepted 18 new members since the beginning of 2009. Cisco, Samsung and Siemens have joined the forum as full members and Anixter and Milestone as contributing members. ONVIF has now grown to a total of 40 member companies. In line with its growing member base, ONVIF has extended the number of seats in each forum committee to a total of five seats from the previous three. Cisco and Panasonic are now members of both the Steering Committee and the Technical Committee. Samsung was voted into the Technical Services Committee and the Communication Committee, and the final seats in the Technical Services Committee and Communication Committee were taken by Anixter and Hikvision respectively. With support from its new members, ONVIF now intensifies its work towards a global, open standard for the interface of network video products. Meetings for all committees with their new members were held on March 3–4 in Tokyo, Japan. This was the starting point for multiple work groups that will work in parallel on the continuous development of the ONVIF specification, test tool and test specification. The first versions of the ONVIF core specification and test specification were released in the end of 2008 and are available for download on the forum's website.

"We initiated five different working groups in the beginning of March, and many of the member companies are now directly involved in the development work. The broad member base, and the new members' participation in committees and working groups, is very valuable for the development of the second version of the specification," says Ken Iwasaki at Sony Corporation, member of ONVIF's Steering Committee. "Conformance is a central matter for any standardization forum. We are now working intensively to complete the test tool and conformance process that will enable manufacturers to market ONVIF conformant products.ing for," Ken Iwasaki explains. The ONVIF test tool and conformance process are planned to be released within May.

►CONTACT

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PSIA Shows First Working Implementation of 1.0 Spec

The Physical Security Interoperability Alliance (PSIA) announced that their first developers meeting, held on March 31 in conjunction with ISC West 2009 was a success. The PSIA developers meeting was attended by dozens of developers, who received detailed updates from each working group and viewed the first working implementation of the PSIA 1.0 API Media Device specification, just three weeks after the spec was ratified and released for public use. IP network camera manufacturer, IQinVision, is the first company to deploy the PSIA 1.0 device specification into an IQ 4 Series camera. This deployment saves software manufacturers significant time and money as it eliminates the need to write individual drivers. The IQ 4 is automatically recognized as a camera and streams video from one driver written on the open standards specification. "We're thrilled to see such enthusiasm coming from manufacturers," said Dave Bunzel, executive director for the PSIA. "To show a working implementation just three weeks after ratification testifies to the ease of implementation of the API spec and the significant interest by manufacturers in having truly open standards in this industry." In addition to demonstrating the first working implementation by IQinVision, additional discussions were held from the chairmen of several working groups. The analytics group announced plans to release a .9 version of the baseline document in June 2009, focusing on alerts and metadata, and the IP Video group offered developers the opportunity to attend a plugfest where manufacturers can test products alongside others for real interoperability. The 1.0 version of the Media Device API specification was reviewed and ratified on March 18 by technical experts from a broad group of companies that represent the critical segments of the IP video market. The 1.0 specification is available free of charge and can be viewed at the PSIA website. "The ratification of this 1.0 specification demonstrates how eager companies are to work together to create open standards for the physical security industry," said Rob Hile, Chairman of the PSIA and Vice President, Business Development of Adesta, LLC.

►CONTACT

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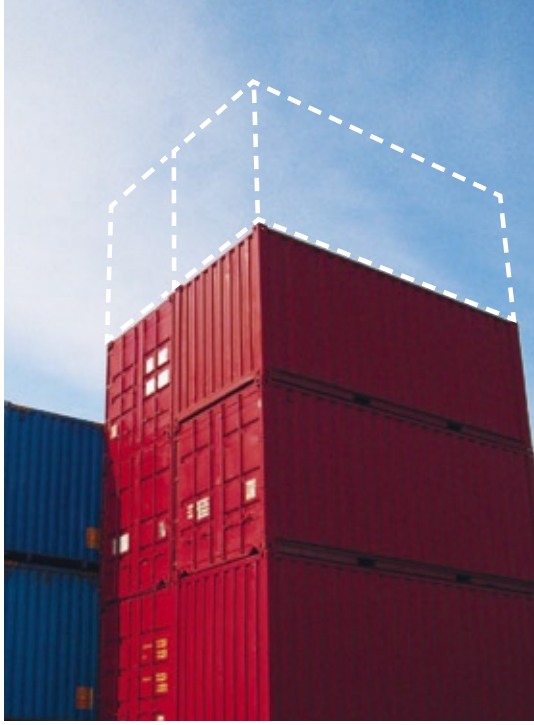

IFSEC2009
Hall 5, Stand B5

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This Is How Winners Look!

Presentation of the GIT SECURITY AWARD 2009

With your votes, you, the readers of the magazines GIT SICHERHEIT + MANAGEMENT, GIT SECURITY + MANAGEMENT and MESSTEC & Automation have made your decision.

Here we present the lucky winners of the GIT SECURITY AWARD 2009. Representatives of the jury and from GIT VERLAG celebrate with the winners at the presentation of the cups and certificates.

Ansell: Werner Schwarzberger, Gabi Metternich

AXIS Communications: Alexandra Turner, Heiko Baumgartner (GIT SECURITY)

Dallmeier: Christina Senninger, Dieter Dallmeier, Georg Martin

Birgit Sellmaier, Dr. Michael Schön, Regina Berg-Jauernig. Harald Schmidt, Benjamin Heimpel und Claus Melder, Sick AG, Dr. Reinhard Hüppe

Detectomat: Sonja Hering, Michaela Wagner, Anneke Brouwer

Düperthal: Alexandra Böhm, Franz-Josef Hagen, Christian Völk

Esser by Honeywell: Joachim Meisehen, Michael Buschmann

Honeywell Security: Stephan Winkelmann

Hekatron: Sandra Kyri, Detlef Solasse, Andreas Seltmann

Vivotek: Owen Chen

GfG: Jörg Hübner

Nedap: Ilse Peters, Arjan Bouter and the Nedap Security Controller team

Ready to go?

GIT SECURITY AWARD 2010

Since 2005, the magazines MessTec&Automation, GIT SICHERHEIT + MANAGEMENT and GIT SECURITY + MANAGEMENT have awarded the GIT SECURITY AWARD for outstanding products. More than 75,000 readers can decide on the winners.

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The GIT SECURITY AWARD has five different categories

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- Fire protection
- CCTV
- Access control and intruder a larms
- Industrial safety

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Submission of products comprises:

- Assignment to the relevant category
- Description of the product in max. 750 characters
- Product photo at 300dpi resolution in jpg or tif format

Enter the product description and upload the product photo to:

German: www.PRO-4-PRO.com/de/Sicherheit/award2010/index.html

English: www.PRO-4-PRO.com/en/Safety-Security/award2010/index.html

Deadlines
The closing date for entries is July 10th.

The jury, consisting of representatives from ZVEI, VDMA, BHE, TÜV Hessen and GIT VERLAG, nominates 10 products from each category.

The nominated products and systems will be presented in MessTec & Automation, GIT SICHERHEIT + MANAGEMENT and GIT SECURITY + MANAGEMENT and under **www.PRO-4-PRO.com.**

Readers can vote for Category A until 01.11.2009 and until 01.12.2009 for Categories B, C, D and E.

The winners are the first three products with the most readers' votes in their category.

The winners and the award of the prizes will be announced in the first issues of MessTec & Automation, GIT SICHERHEIT + MANAGEMENT and GIT SECURITY + MANAGEMENT in 2010.

Further information

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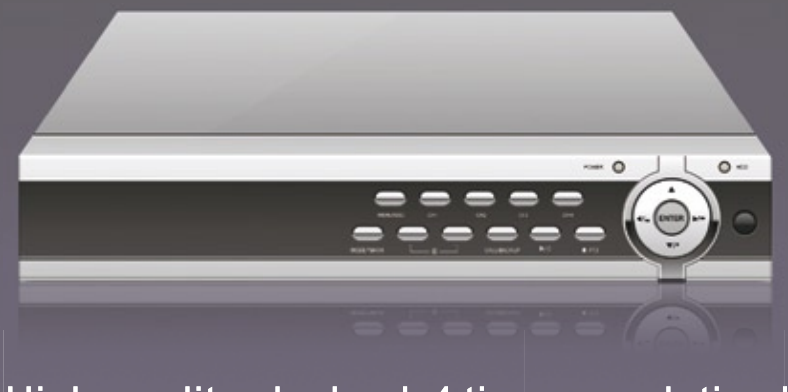

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- Multi-window display live, playback
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Main Functions

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IFSEC2009
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April 22-24, 2009
Booth N309~N312

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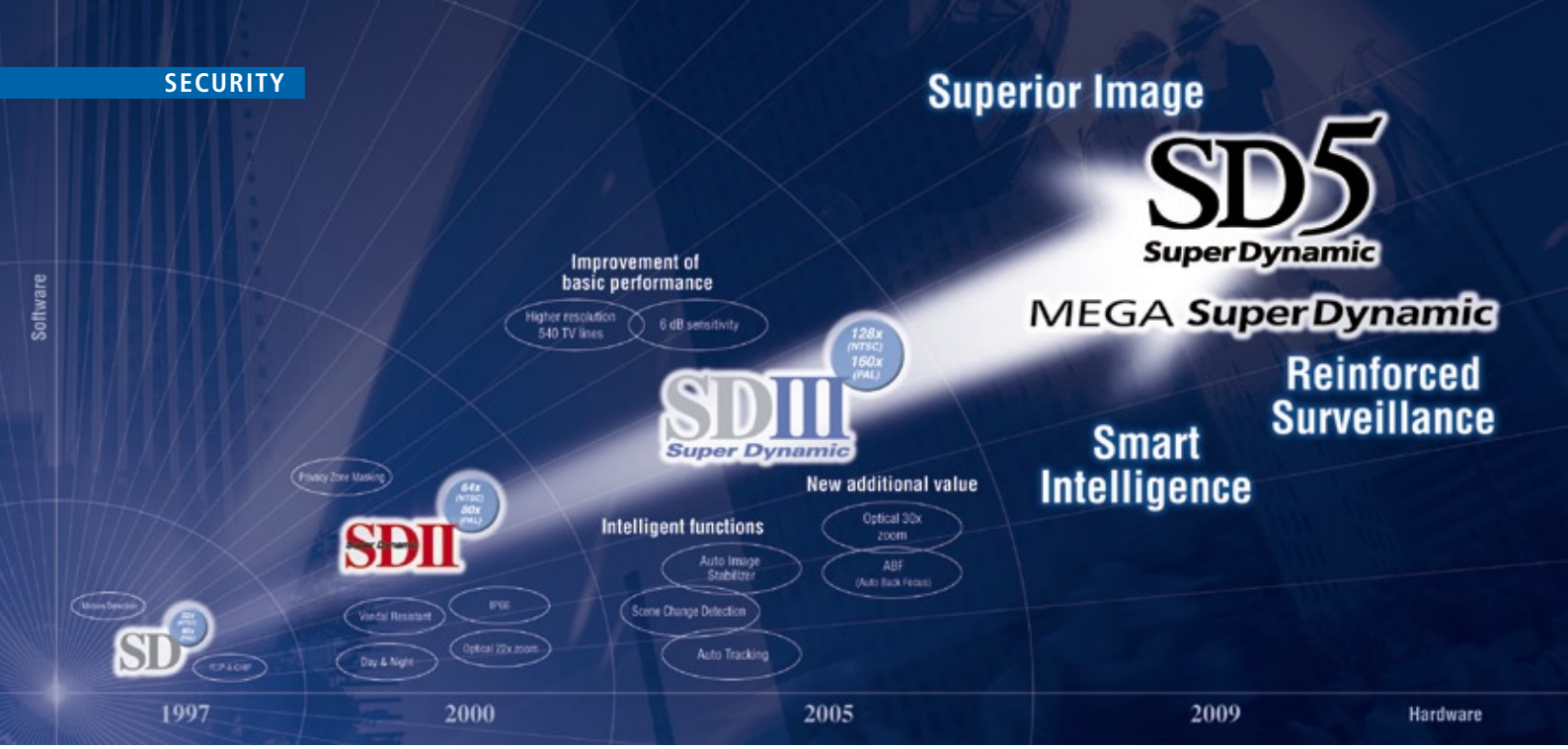


COVER STORY

Superior Image and Smart Intelligence

Super Dynamic Technology Continues to Evolve

In 1997, Panasonic introduced the first stage of Super Dynamic Technology which enabled natural-looking images in high contrast settings. In 2000, Panasonic took the next step forward introducing Super Dynamic II which made 24-hour surveillance possible for the first time. In 2005, Super Dynamic III was launched enabling users to both see reality and think actively. Now in 2009, Panasonic is proud to announce the introduction of its new Super Dynamic 5 Technology offering Superior Image quality, Smart Intelligence and Reinforced Surveillance, approaching and even exceeding the human eye. From its early start in 1997, Panasonic's Super Dynamic Technology has always been one step ahead of the game. With the launch of Super Dynamic featuring Motion Detection and Flip-A-Chip, to the possibilities of Super Dynamic 5 including Day/Night surveillance, Auto Tracking, Scene Change Detection and Intelligent Video Motion Detection (i-VMD), Panasonic has managed to create and maintain market leading image quality and intelligent functions. Panasonic's Super Dynamic innovation will continue to meet the expanding needs of security.

Seeing Reality

Achieving greater image quality then ever before, SD5 combines a range with greater low-light sensitivity (0.3 lux), increased resolution (650 lines colour), the implementation of Adaptive Black Stretch (ABS) technology to compensate for dark areas, and intelligent Video Motion Detection (i-VMD) to capture moving objects without distortion. Establishing a new level of imaging performance technology, the creation of SD5 reflects Panasonic's commitment to developing superior technologies for video surveillance systems.

Offering High Resolution

Combining intelligent processing, superior image reproduction (650 lines of resolution), and low-light sensitivity (0.3 lux) to deliver overall superior performance, Panasonic's Super Dynamic 5 Technology also features 3D Digital Noise Reduction and Auto Back Focus which adjusts the positioning of the CCD sensor providing accurate focus in both colour and black-and-white modes and reduces post-installation intervention.

Thinking Actively

The intelligent i-VMD function Super Dynamic 5 offers efficient and reliable surveillance, preventing loss of vital scenes, and providing easy search and disk saving for recorder system. The function allows for Video Motion Detection which enables high resolution detection with an advanced motion algorithm enabling accurate motion detection. The important feature of this function is that it learns and remembers background movement, such as swaying trees, allowing only subjective movement to be detected reducing false alarms.

Featuring Motion Detection for Precise Surveillance

In addition, Super Dynamic 5 features Object Detection which enables an abandoned object to be detected and indicated within a red frame on the operator screen to flag up a security alert. The feature enables the camera to detect an object that is removed which automatically flags up a warning to the operator. Scene Change Detection also featured is an extremely valuable tool if a camera lens is covered or spray painted, removed or defocused and is indicated through the same red frame alarm used in Object Detection. The camera allows for four objects to be tracked simultaneously in a scene at any one time within two detection areas.

Featuring Auto Back Focus

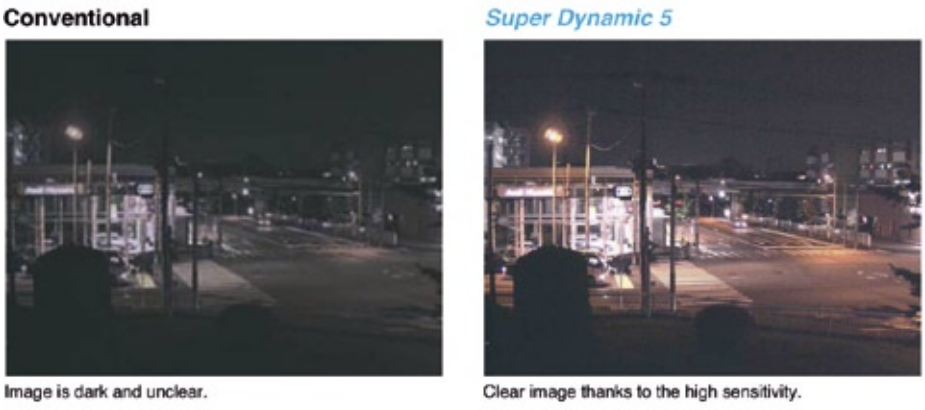
Super Dynamic 5 also features Auto Back Focus with automatically adjusts the CCD position when changing from colour to B/W mode, optimising the back focus required for clear, sharp images. In addition, the one-push Auto Back Focus feature sharply reduces the time required to focus cameras during installation, allowing focus to be set using the optional system controller.

New Additions to the Super Dynamic Family to Be Seen at Ifsec

This year at Ifsec Panasonic will be introducing two new cameras equipped with Super Dynamic 5 technology to the security market. The new additions include the new WV-CP500 Super Dynamic 5 High Resolution Day/Night Camera and the WV-CW504 Super Dynamic 5 Vandal Resistant Dome Day/Night Camera. The Super Dynamic technology of both cameras enables superior image quality for rock solid identification. With a high sensitivity of 0.3 lux, these new intelligent cameras can create full colour images even in dim lighting or badly lit environments. When light levels drop below this the camera switches to B/W mode allowing the camera to continue to operate at levels of just 0.04 lux.

Along with the Super Dynamic 5 Technology new additions to Panasonic's marketing leading i-Pro and Network Video Recorders (NVR) solutions will be featured at Ifsec. Showcasing the latest in security technology, Panasonic looks set to provide an interactive learning ground in which to demonstrate cutting-edge security technology in an accessible and user friendly way. With products designed with the objective of securing today's world and making surveillance accessible and possible to all, whilst continuously challenging the boundaries of surveillance – Panasonic's stand will be the place to be for all your security requirements.

High resolution detection area and advanced motion analyze algorithm enables accurate motion detection. Stay detection and direction detection are also possible.



High Sensivity: Minimum illumination 0.3 lux allows color images even when the lighting is dim. When the situation is too dark, Electronic Sensitivity Enhancement and Day/Night feature further enhances the low light capability.

Adaptive Black Stretch: Adaptive Black Stretch increases visibility of subjects in dark areas without degrading image quality in bright areas.

Ifsec, Hall 5, Stand C10

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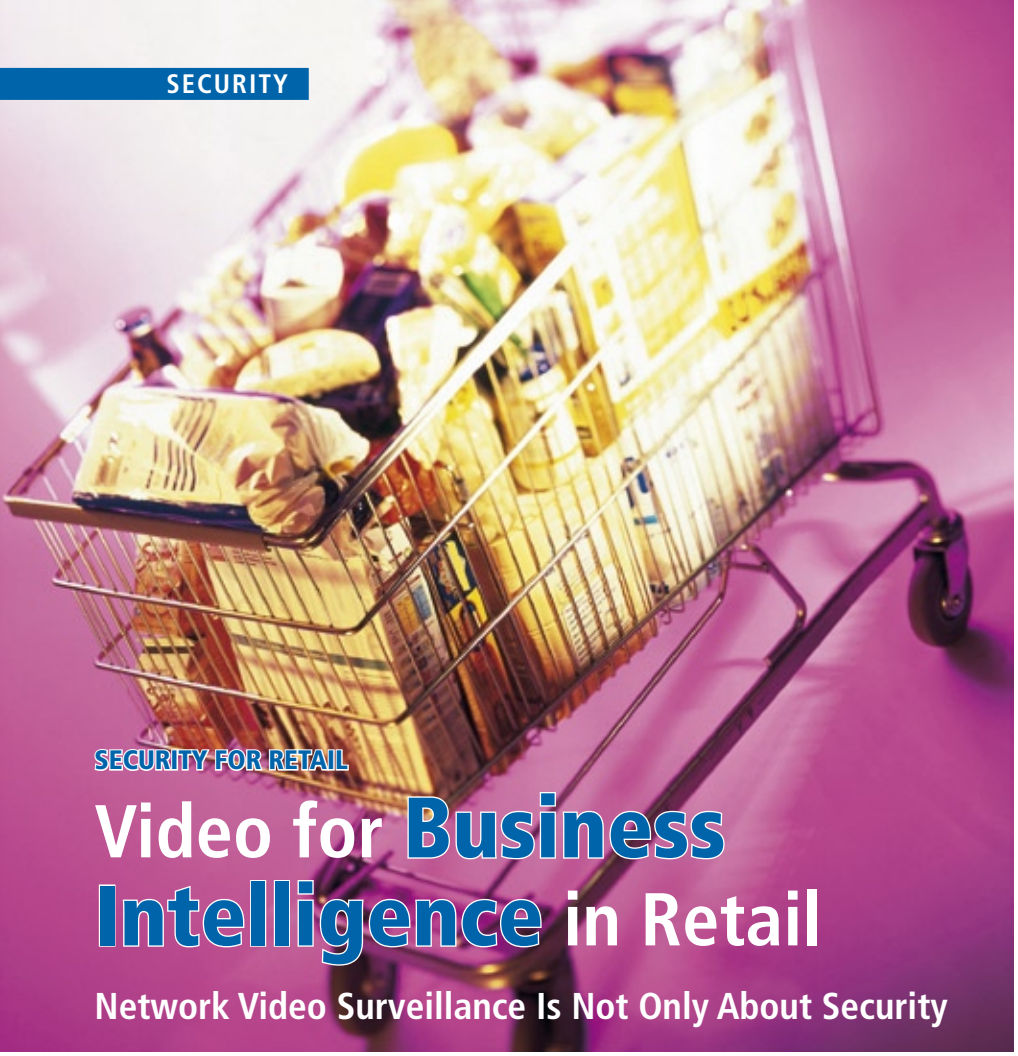


SECURITY FOR RETAIL

Video for Business Intelligence in Retail

Network Video Surveillance Is Not Only About Security

Retail today isn't an easy task. The overall economic downturn has led to fiercer competition, decreasing demand and aggressive pricing in the retail sector. To be more competitive, retailers need to cut down costs, improve top-line revenues and optimize in-store processes. Their small profit margins make retailers especially vulnerable to shrinkage and affect their bottom line as they often experience losses equating to 20–40% of their profits. Recent reports such as the "Current Crimes Trends Survey" have revealed a strong correlation between the increase in retail crime and the economic downturn.

Analyzing Point of Sales data with high quality network video. (Image supplied courtesy of Milestone Systems)

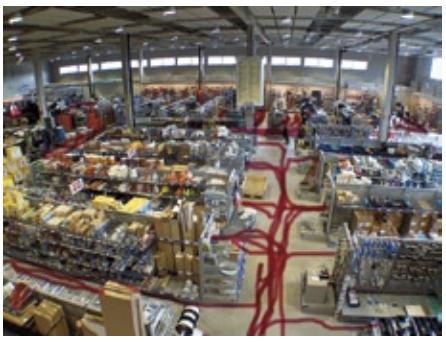
Security as a Competitive Edge

As the survey from Asis International (2009) "Impacts of Current Economic Environment on Security" indicates (see: www.asisonline.org/membership/economicsurvey.pdf), the global financial turmoil and its effect has increased the need for security. 'In this environment shrinkage could become a serious problem for the already strongly affected retail industry', explains Johan Åkesson, director of business development, retail at Axis Communications, the global leader in the network video market. 'Retailers that invest in cost effective network video solutions will be able to thwart shrinkage on all levels where it occurs, optimize their bottom line revenues and better confront the economic downturn.'

With Network Video Integration Is an Easy Task

Network video surveillance offers a holistic Loss Prevention solution as it combats shrinkage on all levels where it occurs from fraud at the check-out, via in-store or staff theft to inaccuracies in the distribution center. Because network video systems are generally built on open standards, they can be easily integrated with other your other retail systems, e.g. the point of sale (POS) software. By linking video images from the checkouts with the corresponding transaction data and setting user-defined rules, the system points out specific types of transactions deemed to be suspicious or unusual, such as a large amount of manually entered values, unauthorized discounts given to customers or granting returns when there is no item returned.

But network video solutions can do even more. By combining data from your point-of-sale registers with surveillance analytics retailers can determine a store's conversion rate down to an item level. Trends in employee performance such as daily efficiencies can also be tracked, indicating the need for additional training or other factors impacting cashier effectiveness. With the embedded analytics in network video cameras, retailers can not only observe customer behavior in-store, but garner real-time statistics to help improve store layout, product and display placements, and even identify bottlenecks and dead areas on the floor. Unlike the hit-or-miss approach of customer surveys and



Heat map overlaid on surveillance video shows customer traffic over time.

mystery shoppers, network video gives an accurate and unbiased report of the immediate situation and of changes over an extended period of time.

Network Video as a Marketing Tool

Because the surveillance video is streamed over the network, multiple departments can securely share views of store activity in real time. Store managers can compare analytics between multiple stores for a range of activities – from customer traffic to sales statistics. A network-based video surveillance system makes it easy to identify a store's hot spots, dead zones and bottlenecks. Heat maps that visualize customer traffic for selected time periods are quickly generated and provide invaluable input for store design improvements. After changes are made to the store layout, the system allows retailers to immediately evaluate the impact on customer flow, sold items, average sales amount and other factors.

Retailers can furthermore test the effectiveness of promotional campaigns, in-store advertising and signage by studying the customer flow captured on surveillance video. The addition of analytic tools to the surveillance system enable to measure the "dwell time" customers spend in front of a sign or display. These analysis applications provide a number of key performance statistics, including average viewing time, distribution of viewing time and number of shoppers viewing during a selected time period. With strategic deployment of intelligent network cameras throughout the store retailers can slash that viewing time by allowing the camera to automatically analyze the video data. Intelligent video surveillance systems use complex mathematical algorithms to extract moving objects or other recognizable forms from the recorded video, while filtering out irrelevant images or movement. Intelligent decision-making rules govern the data search to determine if the activity recorded in the video should be flagged for further review.

To summarize, network video solutions used as a loss prevention tool help retailers to effectively combat shrinkage. But applications that go beyond mere security give retailers opportunity to leverage some truly powerful in-store intelligence. Network video systems provide an efficient and unbiased way to analyze customer behavior and shopper traffic. The technology makes it possible to evaluate and compare merchandising and marketing initiatives at a single store or throughout a chain. 'With strategic application, network video gives store managers the real-time insight they need to optimize store layout, product placement and advertising to enhance your shoppers' experience, which helps retailers to improve their bottom line', explains Johan Åkesson. 'This can help retailers to better confront side effects of the current economic situation such as fiercer competition, decreasing demand or aggressive pricing in the sector.'

The Advantages of Intelligent Video in Retail

Johan Åkesson

There are numerous advantages to processing as much of the video as possible inside the network cameras or video encoders. For instance, putting intelligence at the edge helps retailers to:

- 1. Minimize bandwidth usage – Cameras and encoders can be programmed to only transmit video when they detect motion in a defined area of a scene. This dramatically reduces bandwidth consumption and the number of operators needed to review transmissions. For instance, they can extract a headcount from a frame and send just the essential data with a few snapshots instead of consuming bandwidth with several hours of unfiltered video.
- 2. Reduce server costs – In centralized surveillance architecture, servers typically process four to 16 video streams. When cameras do the processing, servers can handle more that 100 video streams. For people counting applications, for example, the resulting data (rather than the video stream) can be sent directly into a database, further reducing the load on servers.
- 3. Improve surveillance analysis – When network cameras process raw video data before it is degraded by a compression format, the quality of analysis greatly increases. This configuration also reduces the number of servers required to process the transmission because fewer video packets are actually sent along the network for uncompressing or transcoding prior to processing.
- 4. Lower operating costs – With fewer servers needed, power consumption and maintenance costs drop. This also removes the burden from environments without server rooms to build special facilities to support their surveillance networks.
- 5. Lower equipment investment costs – Reducing network bandwidth usage by streaming only essential information (metadata and snapshots) gives retailers the option to deploy more moderately-priced network components that can easily support reduced data rates.

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SECURITY FOR RETAIL

Palacio Do Gelo in a Safe Place

Full IP-CCTV Solution for Shopping Mall in Portugal

In 2008 Sony released the news that they delivered an integrated communication solution with networked security at Portugal's new Palacio Do Gelo shopping centre. GIT SECURITY was in Portugal and had the opportunity to take a look at one of the most modern IP-CCTV solutions. More than 200 full IP cameras, 15 speed domes, 15 day / night cameras, 70 mini domes, around 110 fixed cameras. This is one of the most prestigious projects in the CCTV-World. And yes, it is really working well. Isabel Dias, "Directora Geral" of Visabeira, operator and owner of Palacio Do Gelo, is very happy with this security solution. Sony's multi-functional network design combines not only more than 200 IP security cameras, but also digital signage and a public address system for one of Portugal's largest retail environments.

This 200-camera surveillance and communication system at Palacio do Gelo has been designed to monitor 175,000 m^2 of shopping space with over 200 shops and restaurants, a cinema, a supermarket and a public swimming pool. With an integrated solution that combines IP network cameras, corporate television, a public address system, access control and intrusion detection systems, Sony provides the shopping mall with video surveillance, digital signage, and public address capabilities. This was the first time in Portugal that the same supplier has handled the installation and maintenance of such diverse functions in a single project.

One of the largest shopping centers to be built in Portugal, Palacio do Gelo is a retail hub for the thousands of people living in the Viseu area, an expanding region in the center of the country. By optimizing use of the venue's IP network, Sony is providing a diverse range of products and applications that suit the specific needs of a large-scale, sophisticated retail environment.

"Most Advanced Integration"

Simon Nash, Senior Marketing Manager at Sony Europe, showed us this spectacular project: "This is the most advanced integration of surveillance and signage in Portugal to date, and shows the flexibility of Sony's technology to optimize a building's internal IP network. In Palacio do Gelo many different activities take place within the same space, and as the 200 IP cameras installed throughout the shopping centre differ in their functionality, we were able to choose the most appropriate camera depending on its location," he explained. Sony has installed a selection of their mini-dome, fixed and pan-tilt zoom intelligent network cameras, supported by Sony's Distributed Enhanced Processing Architecture (DEPA) technology. DEPA allows for intelligent video analysis and the means to deploy high-performance IP monitoring networks without overloading the existing IT infrastructure. By using the multi-service IP network, Sony's cameras throughout the shopping centre can be centralized within a single control room, and managed using Sony RealShot Manager software. Their ability to distribute images over a network means the cameras can offer near real-time analysis reports and a remote video-verification facility, providing a more accurate representation of activity in a given venue. Sony's digital signage solution for Palacio do Gelo is also on a large scale. 25 hard-wearing LCD screens running Sony's Ziris View software have been installed across the site, providing a centrally controlled networked communications platform.

Intelligent Video Analysis with a "Real Shot Manager"

IP-based video security and surveillance offers outstanding performance, features and flexibility when compared with analog CCTV systems. Installation and operational costs can be dramatically reduced, so it's equally applicable to either a single surveillance station with local monitoring or as a multi-camera, multi-site operation with remote monitoring. RealShot Manager V4 represents a new generation of management software; images are processed, analyzed and archived in real-time, with many automated functions employed to reliably detect intrusions or incidents. In addition to the extensive, award-winning features of previous versions, Sony RealShot Manager V4 provides Intelligent Object Detection (IOD) and Intelligent Motion Detection (IMD). Up to six filters can be configured and set to trigger alarms or perform a variety of other actions, such as locking doors or turning on lights. Active intelligence means crucial events aren't missed – for example, a suspicious package being left unattended or movement outside of expected patterns. And when an alarm is triggered, an on-screen box appears around the suspicious object or person – making it immediately obvious what has caused the alert situation. These new features have the added bonus of minimizing false alarms conventionally triggered by simple repetitive movements. Combined with the latest range of intelligent Sony surveillance cameras and storage devices, the network of Palacio Do Gelo gives real state-of-the-art proactive performance.

Artur Correia Can Be Proud

The local managers at Sony Portugal, lead by General Manager Artur Correia, have every reason to be proud of this installation. Not only for Portugal is this a real lighthouse in IP-CCTV, but also for Sony worldwide. So if you are travelling in Portugal, don't miss a visit to the city of Viseu with its beautiful historic district and, of course, Palacio Do Gelo. And, when you're there, don't forget to buy a gift for your partner!

Steffen Ebert

Simon Nash

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SECURITY FOR HOTELS

Pictures from Paradise

A Comprehensive Hotel Video Surveillance System

Everyone knows Ocean Drive and the famous boardwalk for strolling along Miami Beach. As well as the palm trees, white sandy beaches and turquoise water, the historical Art Déco district also attracts many thousands of visitors. Just a few minutes away is the Ramada Hollywood Beach Resort, an extensive complex with hotel rooms, private condominiums and diverse shopping facilities. The popular hotel is also equipped with cutting-edge security technology, thanks to a state-of-the-art video surveillance system by Dallmeier.

The Ramada Hollywood Beach Resort is a Spanish Mission architectural style hotel in Hollywood, Florida, located only a short distance away from the beaches of Fort Lauderdale and Miami, as well as the downtown area characterized by its Art Déco buildings. Other attractions nearby include the stadium of the Miami Dolphins, venue of the team's home matches, the harbor in Port Everglades for cruise ships as well as the Aventura Mall shopping paradise and the Bank Atlantic Centre where the Florida Panthers hockey team matches take place.

The Ramada has more than 240 rooms and suites and also contains 150 private condominiums. Additionally, the resort offers more than 14,000 m^2 of shopping at the Ocean Walk mall. The resort's facilities also include a pool area covering more than 1,200 m^2 and a seaside bar with an affiliated restaurant.

Secure Environment for Guests...

The surveillance system used at the hotel comprises four digital Dallmeier multi-channel recorders and two single-channel units for simultaneous audio and video recording as well as a PView Station for evaluation of recordings and control of the system. The reliability and operating stability of the recorders were critical decision factors in choosing the Dallmeier products. The hotel was further convinced by the straightforward operation of the system which even new employees are able to use after just a brief training session.

More than 60 cameras provide high-quality images from right across the facilities. Thanks to Dallmeier's proprietary Cam_inPIX technology, they are able to deliver detailed and true-color pictures even under the most difficult lighting conditions such as strong backlighting in front of glass facades.

Cameras monitor the hallways on all eight floors of the resort, and the entrances on the ground floor are also permanently recorded. The reception area and the security areas are recorded with both audio and video data and the recordings are used to improve the general security as well as for training purposes.

...and Savings for the Hotel

The video surveillance system has also quickly proved cost effective. „By installing the CCTV system we were able to significantly reduce our insurance premium, and the number of compensation claims has also fallen dramatically from between 12 and 15 per year to just one or two," says David Hess, President of the Schecher group of companies which operates the Ramada Hollywood Beach Resort. „We clearly benefit from the Dallmeier video surveillance system as we have already saved both time and money. Also, we are now able to ward off unsubstantiated claims and lawsuits;" Hess adds.

Tony Brown, the hotel's security manager, recounts an exemplary incident: „One of our guests told us that his Rolex had allegedly been stolen from his room at around 3:15 pm. When we were looking at the recordings of the day in question, which had been made by a newly installed Dallmeier DDF3000AV, a vandal-resistant UWDR color dome camera, we saw the guest leaving the hotel at 5:30 pm with his Rolex on his wrist."

Fast and Friendly Service

The Management of the Ramada describes the technical service on site, provided by Peter Müller from Nimbus USA, as always being quick and efficient. "Whenever we are experiencing a minor problem with our devices, Peter is on the scene, supplying us with a replacement unit until the problem is fixed," says David Hess. The modular system design will ensure that the Ramada is well-prepared for future changes and system expansions as this Atlantic coastline of Florida continues to attract ever more visitors.

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CCTV

Beyond Our Imagination?

Samsung Techwin's Strategy for Security Solutions

At this years's Vision Day Conference in Tenerife/Spain, Samsung Techwin's European community of distributors and system integrators received a profound picture of what the company is planning in the near future and an overview of it's medium-term strategy. During the two days managers from Samsung Techwin made clear that the company not only believes it will become the number one professional security brand in Europe, but also explained the measures it is taking to attain this goal.

Ambitious Goals for the Next Years

Though Samsung Techwin has operated in the security market for many years, it was in March 2008 when the company set up a dedicated professional security division to service Europe. Since then Samsung Techwin has been one of Europe's fastest growing professional security brands and Chang Suk-Oh, President of Samsung Techwin, reaffirmed the focus on the professional security industry at the Vision Day Conference by announcing it as a core business for the organisation. Jake Kim, Managing Director of Samsung Techwin Europe, stated that the company is on track to be the number one brand in Europe by 2011. Their plans where underlain by several presentations of the new product line-up and the future roadmap. Customers will see a large number of new products and core technologies launched over the next twelve months including additions to the company's IP/network range,

UTP and Up-Coaxial Control cameras and a guard robot surveillance solution.

New Products, Solutions plus Network

In 2009 customers will also see the introduction of innovative core technologies including third generation SSNR (Samsung Super Noise Reduction) and two technically advanced camera chip sets, W-5 and SV-5, which will be unique to Samsung Techwin cameras and domes. This technology will be incorporated in many of the 40 new products that will be introduced over the next 12 months. Jake Kim also made it clear that Samsung Techwin is working towards becoming a total solutions provider. Based on substantial investments in research and development and using RFID chip technology already developed for mobile applications, Samsung Techwin is expanding its offering into access control and RFID product areas in 2009. At Ifsec 2009 the company's soon to be launched access control and RFID product ranges will be displayed for the first time. They will allow the combination of video surveillance and access control. For instance, a controller can link data received via card readers with pictures provided by a CCTV camera to enable the security staff to clearly identify people at the entrance and grant or deny access.

Samsung Techwin has recruited a professional and knowledgeable European sales and technical team over the last twelve months to provide not only reliable and high performance products, but also pre and post sales support. The company's products are available via a network of professional electronic security distributors supported by a large ex-stock holding in its own European warehouse to ensure availability to clients on the majority of product lines and three year warranties have now been introduced across the entire product range.

The Product Highlights

As David Hammond, European Sales Manager, explained, Samsung Techwin is still investing a lot in the technical improvement of traditional product lines. One example is the new high speed pan/tilt dome SPD-3700T that uses the world's first 37X optical zoom and offers a superior low light imaging performance. The units intelligent auto tracking feature detects moving persons and vehicles and tracks them automatically, resulting in identification of objects in motion. Among the DVR products presented, the SVR-3200 is a cutting edge 32 channel digital recording system that can achieve full D1 resolution image recording in half real time over all 32 channels or full D1 quality recording in real-time on selected channels.

Within the range of products for network video surveillance presented at the Vision Day Conference was the new SSNRII Network Camera SNC-570. Designed to take full advantage of video over IP technology the camera has a dual codec which enables simultaneous real-time

Network camera SNC-570

64 channel NVR SNR-6400

Speed dome SPD-3700T with 37X optical zoom

transmission of images. Peter Ainsworth, product manager for Samsung Techwin, explained the benefits: 'The SNC-570 allows different users at separate locations on a network to choose how they may wish to view live images captured by the camera. An operator in a control room may, for example, just have a need to verify an incident by viewing QCIF quality JPEG images, whilst simultaneously a Head of Security may choose to observe the same incident at full D1 resolution utilising MPEG-4 compression.'

Accompanying the network camera range, the new NVR SNR-6400 was introduced to match the requirements of customers who wish to cost-effectively capitalise on the advantages of viewing and retrieving recorded video over an IP network. The SNR-6400 boasts a 1152 images per second record rate that can be used to record all 64 channels in near real-time.

At the Vision Day Conference James Smith, European Marketing Manager for Samsung Techwin, answered GIT SECURITY's questions regarding the company's expansion plans in Europe and the new product offering.

GIT SECURITY: Samsung is a well-known worldwide brand and we know that Samsung Techwin is part of the Samsung group. Sometimes even for security experts it is confusing that one can get security products from Samsung Electronics and Samsung Techwin. Can you clarify this for our readers?

J. Smith: Samsung Techwin and Samsung Electronics are just two of over 25 separate companies and "others", such as charities and foundations, that make up the Samsung Group. Samsung Techwin's background is more in manufacturing industrial products, such as aircraft, aircraft engines, semi-conductor and imaging; while Samsung Electronic's background is more in manufacturing consumer products. It's not unusual for certain companies within the group to operate in the same market space as others – but they often have a completely different approach to one another with differing staff structures, product sets, technology, marketing, routes to market and support services. This is certainly true of Samsung Techwin and Samsung Electronics. For example, Samsung Techwin's core technology – such as Samsung Super Noise Reduction (SSNR) – can only be found in Samsung Techwin products. Our product portfolio is expanding into exciting new areas like access control and RFID as we further develop into being able to offer total security solutions and we have a large team based throughout Europe to offer local client support.

You have significantly enlarged your network in Europe. How are you organised in the different European countries?

James Smith, European Marketing Manager for Samsung Techwin

J. Smith: We realise that in order to be successful we need to have local presence in the various territories we operate in to not only support our distribution partners but also engage with system integators, installers, consultants/specifiers and end-users. Our operational departments are based out of our headquarters in the UK, as is our UK and Ireland sales team and Technical hotline desk, but we have an ever increasing number of staff based locally across Europe. So far we have teams in Germany, France, Italy, Spain/Portugal, Czech Republic/Poland and Russia with more on the way; plus distribution partners servicing the length and bredth of Europe.

Good product quality is one thing. What measures have you taken to give your clients a satisfying pre and post sales support?

J. Smith: We believe that we need to do more than just provide excellent products to be successful and are committed to providing excellent service and support as well. As such all our products are delivered complete with a full three-year warranty and supported by services that include free system design, free-phone technical support and, if things do go wrong, a five-day turnaround repair promise. It won't stop there either. We are currently looking at additions to our support services that our clients will get even more value from.

One step towards becoming a solution provider is to offer the customer also software tools to manage their data. Do you provide your customers possibilities like this besides the option to use third party management software like Milestone's XProtect?

J. Smith: Yes, and the good news is that we offer a licence free version too. The standard version of our Central Management System (CMS) software always astounds people when they first see it as they can't believe that we would give it away free of charge. It has some very advanced functionality and is able to bring together all connected Samsung Techwin products onto a single viewing, administration and control platform; making system management extremely easy from a PC anywhere in the world! We provide this version with all our DVRs as standard and it is available to download from our website.

Finally, what can the visitors at Ifsec expect from your company?

J. Smith: Our stand at Ifsec 2009 will be almost twice the size of last year's stand, which reflects that we are one of Europe's fastest growing security brands. Installers and system integrators looking for a competitive edge will have the opportunity to see demonstrations of some truly impressive and competitively priced new products. Many of the products on show will incorporate the innovative new core technologies SSNR and the two technically advanced camera chip sets, W-5 and SV-5. The new products on display will include long-range UTP and Up-Co-axial Control cameras. Also on show will be Network Video Recorders which are part of the company's easy to use iPOLiS IP range and can simultaneously record up to 64 video and audio streams. The star of the show is likely to be the SGR-1 Samsung Guard Robot, which uses state of the art detection and tracking technology managed by extremely powerful control software to provide the ultimate surveillance solution.

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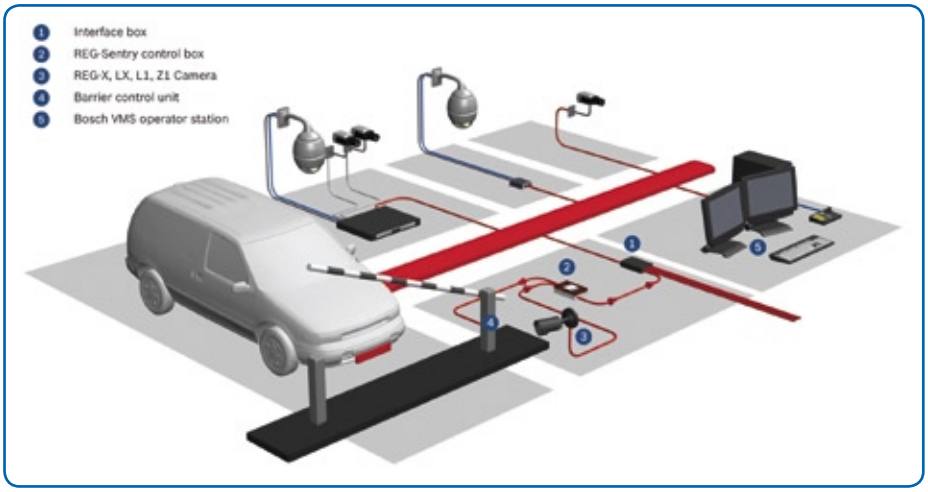
Depending on the access rights of the approaching vehicle, the REG-Sentry system sends a signal to the access barrier to open or remain closed.

CCTV

A Powerful Partnership

Supporting Vehicle Access Control with CCTV Surveillance

License Plate Recognition (LPR) is a fast developing technology that is already proving very useful in many areas such as speed regulation and vehicle-access control. Combining LPR with CCTV surveillance is even more useful as it provides valuable context information such as vehicle details that can be used as video evidence at a later date. Jan Noten, Bosch Security Systems' Application & Business Development Specialist Digital CCTV, explains how the company's recently acquired REG-Sentry LPR-based vehicle-access control system can be integrated into the Bosch Video Management System to produce a complete vehicle-access/CCTV surveillance installation.



Integration of the LPR-based access control functionality into Bosch VMS.

License Plate Recognition (LPR) systems make use of specialized infrared-sensitive cameras capable of capturing the number plates of moving vehicles in ambient light levels from bright sunlight to complete darkness. The captured video is then converted into data embedding the license plate number and compared with a database of vehicle registration numbers. The LPR systems are invariably standalone, often operating alongside CCTV installations but with little or no interaction between them. This, however, is about to change.

Integrating Security Systems through IP

Following Bosch Security Systems' recent acquisition of Derwent Systems, a company with extensive expertise in license plate recognition, the company has utilized the powerful integration possibilities of its VMS (Video Management System) and developed a solution that allows Derwent's advanced REG-Sentry vehicle access control system to be added to the VMS. The VMS is an advanced enterprise IP video security solution that provides seamless management of digital video, audio and data across any IP network. Through the VMS, it is also possible to seamlessly integrate CCTV systems with other equipment such as intruder alarm systems, Automatic Teller Machines (ATMs) and Point of Sale (POS) equipment. The addition of vehicle-access con-

trol with the company's new REG-Sentry system is a logical extension to this broad functionality.

Automated Vehicle Access Control

The company's REG-Sentry system can operate as either a standalone solution or integrated with other equipment. Users can configure the system with specific number plate black/white lists containing up to 10,000 registration numbers, barring or enabling access to any vehicle attempting to enter a secure site. REG-Sentry therefore offers a flexible, user-friendly solution for a wide range of access-control applications, including access roads, car parks, gated communities, factories, warehouses, ports, offices and schools.

The system consists of a dedicated LPR camera and a control box with an embedded processing engine to intelligently control traffic barrier applications. LPR cameras can also operate with infrared illuminators, with all visible light filtered out to eliminate problems of glare caused by headlights, sunlight and wet road reflections.

The LPR camera captures the number plate of any vehicle approaching an access-control point and transmits the data to the REG-Sentry control box, where it is processed and compared with the user-defined black/white list. The system then sends a signal to the access barrier to open or remain closed. The intelligent processor in the control box converts number plate images from the camera to ASCII characters and appends date and time information. This data can then be monitored at the time of conversion via the RS232 output port of the REG-Sentry control box. The user's black/white list can be updated and uploaded with the system's easy-to-use Sentry-Viewer software.

Combining Strengths

Integrating REG-Sentry with a CCTV installation offers lots of advantages, from providing 'context shots' (photographs with a wider field of view to reveals details of vehicles at the access barrier) to automatic recording of the entire scene at and around the barrier for a specified time. The CCTV coverage also allows the behavior of drivers refused access to be monitored. A solution to accomplish this integration has recently been developed by Bosch. The REG-Sentry control box output can be read by the VMS server to automatically alert the control room when, for example, a vehicle with restricted access approaches the barrier, and to display a CCTV image of the vehicle on one of the control room monitors. In addition, each car's arrival can be automatically logged and recorded on video, which can later be retrieved from the CCTV storage device by a simple search action of the number or part of the number. In this way, every access or attempt to gain access is registered both in the REG-Sentry and as stored video by the VMS to provide video evidence if it should become necessary at a later date.

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CONTROL ROOMS

Watching the Road

Public Institution Motorway Operation in Italy

ANAS S.p.A. (Azienda Nazionale Autonoma delle Strade), with headquarters in Rome, is the public body responsible for managing the operation and maintenance of the national public road and motorway network in Italy. Its 6,700 employees supervise a network of approx. 27,000 km.

The Italian motorways are operated by 24 different licensed companies and ANAS is the public institution which controls these companies, directly subordinate to the Italian Ministry of Transport. Under the "EasyWay" project, the key implementation programme for Europe-wide ITS deployment on main Trans-European road network (TERN) corridors, ANAS installed 19 new control rooms all over Italy for the operation and survey of its network.

For the visualisation of these modern ITS applications (video cameras, telematics systems, etc.), ANAS chose German large screen technology by eyevis. By the end of 2008, a total of 100 rear-projection cubes were built up to video walls of different sizes in these 19 new control centres. The main advantage of these DLP cubes is their suitability for 24/7 continuous operation; a decisive feature for mission-critical applications such as traffc control. Additional reliability is provided through the double-lamp system, which automatically switches to a spare lamp in case one lamp breaks.

Building Blocks

The cubes can be combined to almost seamless video walls of any size. The small gap of less than 0.6 mm allows a coherent desktop surface on which any video or data signal can be displayed in any size or position. Each control room also uses a netpix graphics controller which gathers the inputs of the various signal types and creates the combined desktop over the cubes of a video wall. The netpix controllers are equipped with the newly-developed eyevis Netpix IP Decoder Boards that provide simultaneous hardware decoding of several IP video streams in real-time, independent of codec and manufacturer. Convenient control of the entire system is guaranteed thanks to the eyecon wall management software. This allows not only the intuitive operation of the system, but also provides numerous features and functions enhancing the effcient use of the system enormously. For example, window confgurations can be automated, alarms of any kind can be integrated, and the signals can be captured automatically.

The 19 installations comprise the following components from the Company:

- 100 x EC-50-SXT+-DL
- (DLP rear-projection cubes with SXGA+ resolution, 50" screen diagonal and automatic double-lamp system)
- 21 x Netpix graphics controller
- 21 x eyecon wall management software
- 21 x ECS eyecon control server

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PERIMETER PROTECTION

No More False Alarm

You can see it at Ifsec in Birmingham. Or give them a ring and for sure they will show it to you in your hometown. We speak about "Absolute Plus", a perimeter detection system by Sicurit Alarmitalia which experts call "the response to the growing demand for reliable outdoor perimeter protections" – where reliability is intended as maximum capability of detection while ensuring the lowest nuisance/false alarm rates in every environment conditions.

Absolute Plus is a state-of-the-art combination of multiple security technologies, IR Beam and Microwave sensor, that thanks to its sophisticated analysis circuit is able to discriminate false alarms with an impressive accuracy compare to traditional systems. Surveillance is carried out by a temporary window memory circuit. The pilot circuits of both detection systems are equipped with a timer whose range is adjustable from 20 seconds to two minutes. The first device (usually the Microwave, the activator) that receives a stimulus activates its own timer. Meanwhile, the second system is activated to confirm the final alarm. With this method of operation, nuisance alarms caused by environmental factors are completely eliminated.

The Philosophy: No More Nuisance and False Alarms

IR Beam and microwave technology can be affected by different environmental factors: Absolute Plus, as a result of its dual technology principle, is able to distinguish nuisance alarms caused by different environmental factors. Once an accurate risk analysis of the area to be protected has been carried out, unlike other systems available on the market, the one from the Milanese allows the customer to select the correct configuration in order to conform the system to the installation requirements: car or container theft protection requires different features compared to those aimed at detecting highly trained intruders trying to access extremely sensitive areas.

Absolute Video

Another "Plus": Absolute Plus columns can be equipped with built-in CCTV cameras: the CCTV cameras are invisible and protected by a Plexiglas cover, and are, therefore, completely safe from atmospheric agents. By connecting a time-lap video recorder or a video transmission system via telephone lines, a time record of the alarm sequences can be obtained. The Absolute Plus video can also be integrated with the site's main CCTV system. By mounting a small camera inside Absolute Plus, pre-alarm pictures, when the alarm is triggered by the Microwave (usually the activator), can be stored.

Hint of GIT SECURITY's editorial team: Take a look at Ifsec, Hall 5, Stand F40.

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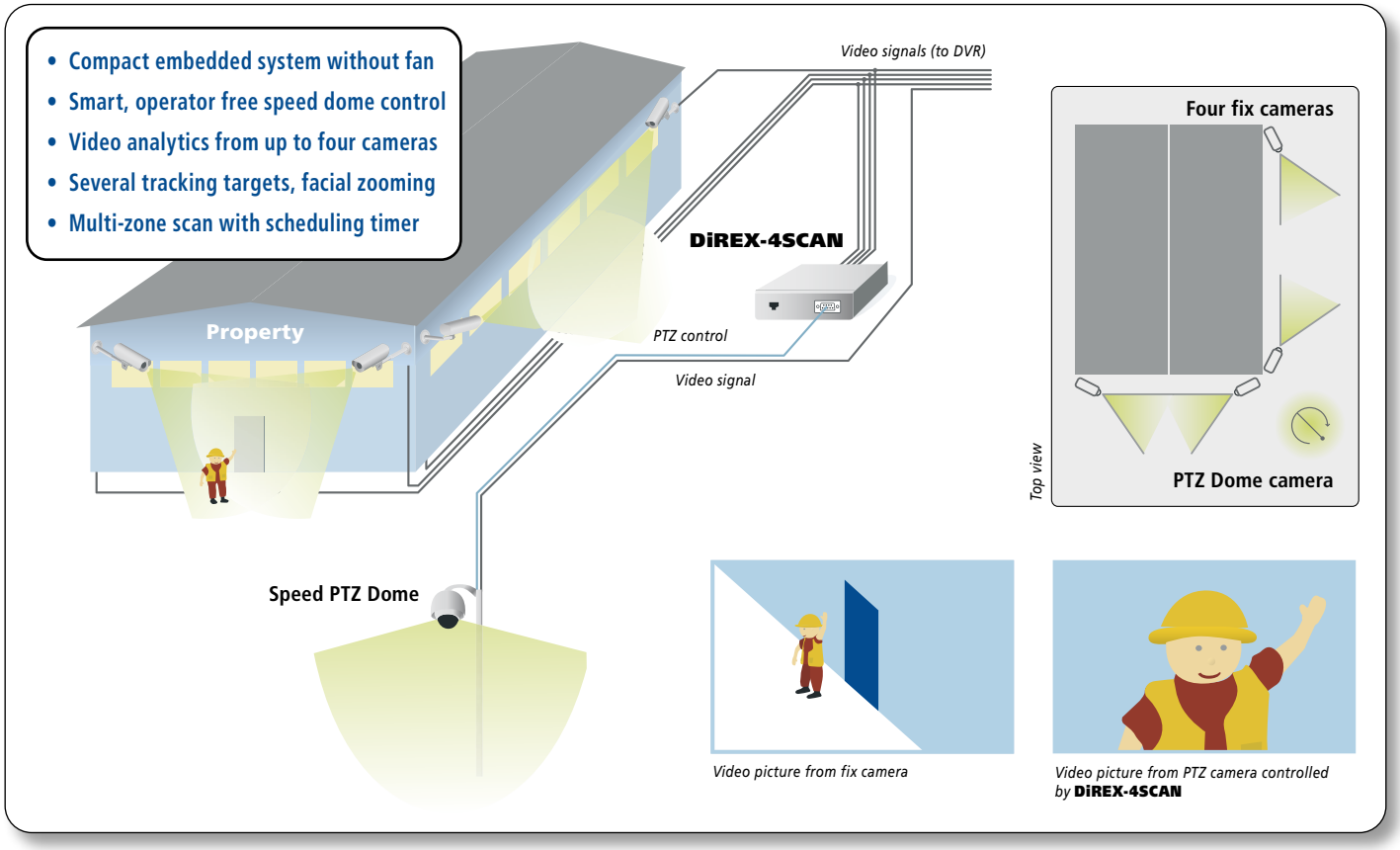
VIDEO ANALYTICS

Look Me in the Face

3D Real-time Video Analytics System with Face Localization



Traditional „passive" outdoor video monitoring systems do not provide sufficient resolution for the clear identification of faces, details of clothing and objects. The effectiveness of mega-pixel cameras in 24h-operation is often limited due to their lack of light sensitivity. The amount of data that is generated this way is unnecessarily large due to irrelevant picture areas and image details. Conversely, when using highly sensitive cameras in standard resolution, an excessive number of cameras are needed to monitor large areas. PTZ cameras may offer a possible solution, but then the higher number of operating personnel that is needed increases operating costs.

An ideal solution would employ PTZ technology to do all the discovering and recognition work, with humans doing the final analysis. BWA Technology may be onto something with their new active 3D video analytics system with real-time face localization. Currently in the final stages of development and still with a little room to define the final feature list, the Direx-4Scan will provide a compact automatic control system for pan/tilt cameras and speed domes which analyzes video content from up to four stationary cameras. It is expected to achieve market launch around August or September this year.

A unique method of triangular video analytics will allow three-dimensional modeling which, among other things, provides zone priority options, a number of tracking targets, moving profiles of objects, and automatic facial zooming. If several cameras are used, it will also be possible to process the „Person group segmentation" scenario. The system can be configured automatically on a local network. Upset up is done once and does not require any further readjustment or calibration. Only the camera assignment, the priority of the monitored areas and operating schedule need defining.

Leaving the technology to do the bulk of the work means that video analytics can be performed on up to four cameras. A smart, operator-free speed dome control will track several targets and provide facial zooming. Where regular patterns occur, a multi-zone scan can be scheduled via a timer. The entire system is very compact and, with due consideration to the security personnel, runs without a fan.

To integrate the Direx-4Scan into existing CCTV systems, four video outputs will be available next to the video inputs which forward data from stationary cameras. This allows easy cascading of several devices to analyze overlapping areas. It will be possible to control other dome cameras and to automatically observe areas of unlimited size. The active video tracking system is therefore expected to be a perfect add-on for the new Direx-8D1 eight-channel video recorder. It includes integrated de-interlacing in real time recording at full 4CIF resolution with superb H.264/AME (Advanced Motion Estimation) performance – up to 40% more efficient video compression compared to H.264 Baseline Profile.

Visitors to Ifsec will be able to discuss the system's capabilities with BWA staff in Hall 5 at Stand 5A35. Input is always welcome from system integrators who are most often in the ‚front line' of video surveillance installations.

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CCTV

"Focused On You"

New 4-channel MPEG-4 Digital Video Recorder

At Ifsec EverFocus will present its latest digital video recorder. It offers high quality, efficiency and allows real sophisticated CCTV. Our special hint: Visit booth B5 in hall 5 and see what is possible with this new security highlight.

The new MPEG-4 digital video recorder Ecor 4 is based on MPEG-4 compression technology and offers both enhanced recording capacity and improved network image transmission speed with high image quality. Comprehensive features and extended recording settings enable the almost universal application of this DVR. With several innovative features, Ecor 4 is undoubtedly the best choice to meet the need for a reliable DVR.

Pentaplex Control Makes It Possible

With the intuitive graphic user interface (GUI), users can command specific actions on the DVR through graphical icons and visual indicators. All GUI functions can be operated by multiple control inputs including mouse control, front panel control, IR remote control and control through the Everfocus keyboard EKB 500 (optional). Thanks to Pentaplex control, live monitoring, recording, playback, archiving and remote viewing can be operated simultaneously.

The Ecor 4 DVR series includes several models optionally equipped with audio function and/or built-in DVD-RW drive. All models feature real-time recording and playback with up to 100 IPS.

Main features of this new digital video recorder are:

- user-friendly graphic user interface (GUI) with easy mouse or front panel operation
- latest MPEG-4 compression technology with improved picture quality
- individual recording settings for each channel
- data archiving via USB 2.0 port
- programmable motion detection area for each channel
- PTZ control
- internal DVD-RW drive for easy video export (Ecor-4D/Ecor-4 AD)
- audio functionality (Ecor-4 A/Ecor-4 AD)
- Ethernet interface for remote network viewing and controlling
- fast network video transmission
- network operation independent from local operation
- optional RS-485 remote control (EKB 500).

Ifsec, Hall 5, Stand B5

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LENSES

Seeing Ever More Clearly

An Evolving Range of Lenses for CCTV Cameras

Who remembers the innovations of the CCTV market in 1986? I don't, but I was only eight years old and was excited about my first computer, an Amiga 500. At that time it was the world's most advanced affordable home computer: 512 Kbyte Ram, 256 colours with an 8 Bit soundchip on board made Macintosh and PC computers look like big calculators. I wasn't even aware that there was something like a CCTV market back then, and the market was, of course, slightly different from today's.

The CCD was introduced into the market a few years ago and, with it, the usability of CCTV cameras was improved tremendously. This made it possible to use the cameras in much more diverse situations. Tamron was the first lens manufacturer which supported this development with the world's first CCTV Vari-Focal lens, a 2/3" 8–16 mm with F/1.6 aperture.

The lens was well received in the market and so Tamron continued to develop Vari-Focal lenses to meet the needs of the CCTV market. The 1/3" 3.5–8 mm Vari-Focal lens was introduced by Tamron in 1992 and started the so-called "Vari-focal boom" in the CCTV market. Many other lens manufacturers developed their own Vari-Focal lens with similar features and this focal length range is a very popular one even today.

Pixels Galore

Tamron widened its product line-up with the 1/3" 2.8–12 mm F/1.4 and the 1/3" 5–50 mm F/1.4 which were the first CCTV Vari-Focal lenses using aspherical lens elements. And exactly these same lens elements were built into the most commonly used CCTV lens of all, the 1/3" 3.0–8 mm F/1.0 that Tamron introduced in 2002. After that, Tamron was also the first to introduce IR corrective lenses and, in 2007, the first 1/3" Megapixel lenses developed for the CCTV market.

These lenses (1/3"; 3.0–8 mm F/1.0; 2.4–6 mm F/1.2; 5–50 mm F/1.4) are not only suitable to resolve Megapixel resolution right into the corners of a sensor but they have also a user friendly design. They feature a very large focus ratio to compensate for the depth of field decrease as well as the delay due to IP technology which makes it more difficult for the installer to obtain a well-focussed picture.

Andreas Kronwald

Just like the Amiga back in those days, Tamron CCTV lenses were always ahead of their time and bringing more features to the user than anybody else. Unlike the Amiga, Tamron lenses are still doing it today and, if you would like to see that live, we would be pleased to welcome you to our booth at the

Ifsec, Hall 5, Stand B45

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Access Announces the World's Smallest Security OCR Reader

Access IS has introduced the OCR310, the world's smallest optical character recognition (OCR) module designed for OEM integration into portable devices such as hand-held digital assistants and ultra-mobile PCs. Applications include security checks at airport boarding gates, accelerating airport check-in and police identification checking. The module captures code lines from machine-readable travel documents including machine-readable passports, visas and travel cards conforming to ICAO Document 9303. In addition, APACS debit and credit documents can be read together with E13B OCRB and mixed E13B and OCRB fonts. Access' proven OCR decoder technology ensures fast and accurate document reading. The device has low power consumption and a sleep facility. A developer's kit is available to assist in the integration of the OCR310 into OEM equipment.

Access IS
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Basler Presents IP Camera Range at Ifsec

Basler will exhibit their IP camera range, including day/night IP cameras, at the upcoming Ifsec show. Basler's IP cameras made their first appearance at last year's show. Visitors to Ifsec 2009 can expect Basler to present the entire range of IP cameras with the new true day and night functionality. Currently, three models from VGA to 1.3 megapixels are equipped with an automatically removable infrared (IR) cut filter. With day/night functionality, Basler is able to provide professional quality imaging for all lighting conditions. Several other camera characteristics and features are differentiators in the IP camera market: The scaling and AOI functionalities support customized resolutions and frame rates. To display a maximum of detail with the highest precision, any image format and aspect ratio can be configured. This means that only relevant image data will be transmitted, leading to a significant reduction in the bandwidth required and maximizing storage utilization. And by moving the camera's AOI from frame to frame, customers can set up a function known as e-PTZ. In addition to the AOI feature, Basler cameras make it possible to set up multiple streams using different compression principles. Customers have the choice of MJPEG, MPEG4, and H.264. By setting up multiple streams, customers can create multiple virtual cameras and can save camera costs while reducing bandwidth and storage requirements. This feature is in high demand, especially in bank and traffic applications. An ultra-compact, all-metal housing with an 89.8 mm x 29 mm x 44 mm size and a weight of only 230 grams makes these the smallest day/night IP cameras in their class.

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Ifsec · Hall 4 · Stand F160

Access Control Units

Paxton Access shows its access control units, Net2 Plus and Net2 Nano, at Ifsec 2009. The units have been designed to extend the possibilities of Net2, the company's networked access control system. Net2 Plus is a new control unit for the Net2 access control system. It has an on-board RJ45 socket to connect to a TCP/IP network in the same way as any other IP device, removing the need for a separate piece of hardware. This diverse control unit can also be used as a TCP/IP to RS485 converter for when it is not possible to get a network point exactly where you want it. Net2 Nano is a wireless control unit for the Net2 access control system. It removes the need for hardwiring between door controllers and a PC by replacing a wired connection with a wireless one.
www.paxton-access.co.uk
Ifsec, Hall 4, Stand E20

Advanced Wide Dynamic Range Cameras

With a newly developed CMOS sensor from Texas Instruments and a processor incorporating Iridix technology from Apical Limited, Sanyo's new cameras have a dynamic range that far surpasses current wide dynamic cameras and set a new standard for the security industry. By adopting a radically new linear output method, Sanyo has created a security-optimized camera that delivers performance under varying light conditions and one which utilizes a new image processing algorithm for capabilities approaching the human eye. Sanyo developed the VCC-W877xP and VCC-WD887xP after extensive research and collaboration with recognized leaders in CMOS development and retina replication algorithm development, to provide the security industry with a wide dynamic camera of higher performance in all lighting conditions. Using the best-in-breed 1/3-inch CMOS sensor developed by Texas Instruments that is engineered to deliver more electronic signals per unit area for an extremely wide dynamic range, the VCC-W877xP and VCC-WD887xP cameras have 550 TV lines of horizontal resolution with 480,000 pixel-resolution to capture the smallest details. A new and advanced linear output method increases visibility under varying conditions of light, weather and time. The progressive exposure technology simultaneously outputs image signals in both low light and highly lit areas with no lag.
www.sanyo.com
Ifsec, Hall 5, Stand C40

Outdoor-spec Fingerprint Terminal

Suprema has launched Biolite Net, which is – according to the company – "the world's smallest IP based fingerprint terminal" offering full functionality of access control and time attendance. The terminal also features extra durability in extreme environment with its rugged IP65 rated structure to make it suitable for outdoor installation. The system provides easy installation and network connectivity by TCP/IP (or RS485) interface, Wiegand as well as an internal relay for direct lock interface. The device also offers easier operation and control with its built-in keypads, LCD and RF card (13.56 MHz Mifare) reader. The authentication mode can be easily set and switched between combination of fingerprint, PIN and/or RF card. In addition, the terminal is fully compatible with Biostar, the company's time attendance and access control software.
www.supremainc.com
Ifsec, Hall 4, Stand E52

Network Based Video Surveillance Management

Mirasys representative Vidicore will be presenting Pivot 3's video-optimized storage solution, which can be shared by Mirasys NVR systems, at Ifsec 2009. The solution matches the availability, bandwidth, and capacity needs of the surveillance market with a clustered approach that lets customers dynamically expand over time. With the company's "Serverless computing approach", customers can eliminate standalone NVR servers and reduce rack space, power, cooling and cost. The NVR software has been designed for customers with demanding needs. It offers a comprehensive security platform with automated processes, tools for pro-active fraud and loss detection and post-active investigation. The solutions support up to 5000 IP and analog cameras, which can be managed as a single system independent of location.
www.mirasys.com
Ifsec, Hall 4, Stand F 125

DVR with 1 Terrabyte Capacity

The new MPEG-4 digital video recorder Ecor 4 from Everfocus is based on MPEG-4 compression technology and offers both enhanced recording capacity and improved network image transmission speed with high image quality. Comprehensive features and extended recording settings enable the almost universal application of this DVR. With the intuitive graphic user interface (GUI), users can command specific actions on the DVR through graphical icons and visual indicators. All GUI functions can be operated by multiple control inputs including mouse control, front panel control, IR remote control and control through the company's keyboard EKB 500 (optional). Like a number of other DVR models the recorders are available with 1 Terrabyte capacity.
www.everfocus.com
Ifsec, Hall 5, Stand B5

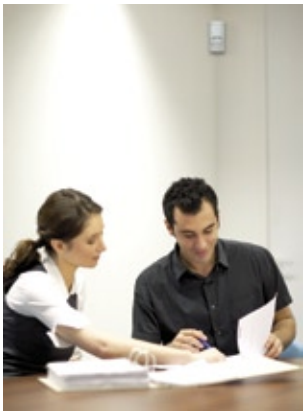
Megapixel Lenses Line Up

At Ifsec in Birmingham Fujinon will showcase its enlarged range of Megapixel lenses and its new models. Complimenting existing models featuring auto iris control (DC type), new versions with of manual iris 3-Megapixel Varifocal lenses are now available. The complete series contains 5 models for 1/3" and 1/2" at focal length ranges from f=2.2 mm up to f=50 mm. The lenses are equipped with metal mounts, focusing knobs for zoom and focus and use Fujinon´s proprietary aspherical technology optics. Additionally one of the models is also available in a day & night version, supporting day & night cameras. Fujinon's new D8x7.8HA Megapixel zoom lens is the latest in the range of high-resolution zooms offering support for cameras of 1.3 Megapixel resolution. The lens has a focal length range of 7.8 mm–63 mm and a wide aperture of F1.2. This new high quality 8x zoom lens is the perfect companion to Fujinon's 'great' megapixel zoom D32x10HR4D. Further features are the small and lightweight design, a built-in ND-filter, motorized zoom and focus as well as auto iris operation (DC or Video type).
cctv@fujinon.de
Ifsec, Hall 5, Stand E25

Mini Digital Recorders

The Ecoline mini digital recorder (DVR) is Abus Security-Center's mobile video surveillance starter model. Here, a matching clip camera – with a lens as small as the eye of a needle – permits inconspicuous surveillance. It is simply attached to the wearer's clothing – and the mobile "recording studio" is ready for action. The camera's power supply comes directly from the recorder. When used in a motor vehicle, the power for operating both DVR and camera is comfortably provided by the cigarette lighter – using a special car kit. And the DVR's battery is also charged in this way. Measuring 86 x 55 x 22.5 mm and weighing just 85 g, the Mini DVR with its LCD display is even more compact and lighter than its predecessor. The recorders are suitable for all situations requiring mobile and flexible digital recording solutions.
www.security-center.org

Intrusion Detectors



Bosch Security Systems Professional Series intrusion detectors features multi-point anti-mask technology with integrated spray detection. This new technology utilizes patented prism lenses and active infrared detection to protect against all known forms of attack, providing superior protection against sabotage. This complete line of intrusion detectors also features Bosch's Sensor Data Fusion technology, which interactively processes data from up to five different sensors. By comparing sensor data, the detectors virtually eliminate false alarms and improve catch performance over traditional motion detectors by 35 %. With Bosch's TriFocus optics technology, three custom-engineered lenses provide twice the signal-to-noise ratio of traditional detectors. This enables sharper and brighter images that make it easier for the Professional Series detectors to distinguish intruders from false alarms.The intrusion detectors meet the European standard for motion detector performance, EN50131-2 on catch performance and false alarm immunity, including anti-mask detection capability. CNPP (France) independently testet the detectors by detector type for a given application security risk to grade level 2 and 3, the high-risk application category.
www.boschsecurity.com
Ifsec, Hall 4, Stand E10

Joystick Controller

The new USB 3D joystick controller EKB 200 from Everfocus allows for a user-friendly operation of both pan/tilt cameras and speed dome cameras via PC-based network applications. The now also available version 4.2 of Powercon network management software supports all EKB 200 functions. All of the company's future IP pan/tilt cameras will also be supporting joystick controller. The included Keymapper software further allows for the controller use in standard Windows applications (e.g. mouse emulation). Highlights are: industrial 3-axis joystick for pan/tilt/zoom, four dedicated keys for focus and iris, 12 freely programmable keys with exchangeable labels, assignable for preset positions, autopan, tour, pattern etc., plug & play USB installation, no driver required, and countersunk table or console installation is possible.
www.everfocus.com
Ifsec, Hall 5, Stand B5

Network Video Recording

Sistore MX NVS from Siemens is a software package for network recording, allowing the operator to view live images, as well as to support recording, playback and remote access for up to 64 network cameras per installed server. With the continued market growth in the use of IP cameras, the software allows integration of the new range of the company's network cameras. By supporting audio (both live and recording) from Siemens and Axis network cameras, additional, potentially very important information, can be supplied to resolve incidents. Megapixel recordings contain more information, which can be particularly useful when using the integrated digital zoom feature. The software package works with an especially designed user administration system. By assigning different user rights to reflect specific duties and seniority, each operator can be given access to certain functions, and, importantly, declined access to others. When logging into the Remoteview client, no separate registration on the server is required. The software is employed in a wide range of applications including retail, traffic, transportation and banking.
www.siemens.com/industry

Future Fibre Technologies Launches New Perimeter Protection System

Future Fibre Technologies (FFT) will launch a new perimeter protection system at Ifsec. Secure Zone is a mid range derivative of FFT's proven flagship product, Secure Fence and is designed to fill a need in the market for a highly reliable yet cost-effective zone based intrusion detection solution. This new product is equipped with FFT's patented ARaD technology to overcome the traditional problems of nuisance alarms that are so common with current solutions. The technology uses signature recognition and advanced learning algorithms to "know" the difference between an environmental nuisance alarm and an attempted intrusion. Alec Owen, International Client Manager at FFT, says the company has developed Secure Zone at customers' requests. "Secure Zone has been developed to offer customers the best possible protection at the lowest possible cost of ownership," Mr Owen says. "By configuring the system so there are 16 independent hardware zones, each up to 500 metres in a single unit and by making installation considerably easier, we can deliver superior value-for-money."

www.fft.com.au

Ifsec, Hall 4, Stand G145

Defense, Homeland Security, Railways

Telefunken Racoms provides system solutions and advanced products in the field of Defense, Homeland Security, and Railways. The Defense Business has been supplying its national and international customer base with communication systems for many years. The deployment of these systems has become widely entrenched on land, sea and air. The products, most notably in the HF communication sector, enjoy benchmark status. The company's expertise resides not only in producing high-performance hardware but also in developing software for the integration of a wide array of protocols. The company's communication systems deliver efficient solutions for a myriad of challenges in military, air force and naval applications. The company's Homeland Security Business Unit provides the police, frontier defense, coastguard, search and rescue units with innovative systems. These products are used for the reconnaissance and surveillance of conflict or disaster regions as well as for safeguarding major events. Adapting and tailoring the systems to meet the customer's individual requirements is a key focus. The system components have in many cases undergone extensive field-testing. The Railways division offers solutions e.g. for real-time time video data transmission from trains, and continuous communication in tunnels, as well as Internet access for passengers on board. "Traincom" enables broadband radio transmission between rail vehicles and their control centers. The company's radio systems excel through high availability, high data transfer rates of up to 32 Mbps, seamless and lossless handovers, intelligent quality of service procedures and ease of operation.

www.tfk-racoms.com/en

Rear-projection Cube

The Eyevis 3D rear-projection cube contains stereo projectors and latest generation Infitec eye separation filters allowing pin-sharp and realistic 3D stereo display for viewing without tiring. The cube has been especially designed for modern applications e.g. in buildings or cars. Already during the first steps of the planning, designers make more and more use of three-dimensional plans and models of their work pieces. Besides the possibility to use the cubes for video wall presentations and video conferences in 2D mode, the 3D mode provides the detailed display of environments with realistic depth of the images. Distances, spacing and sizes of rooms and objects can be displayed with realistic three-dimensional relations. Thanks to the high contrast and the high-performance screens the displayed images do not suffer from any disturbances by environmental light conditions. This allows trouble free operation of the system during conferences and meetings. With the Netpix graphics controller, the company provides an infrastructure allowing a highly flexible use of the video wall system.

www.eyevis.com

Ifsec, Hall 5, Stand D145

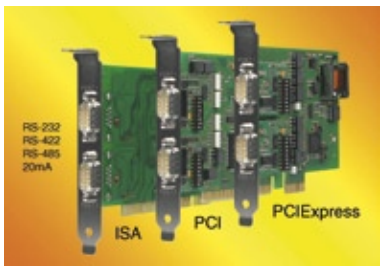
Displays for Video Walls

With its Eye-LCD4600M/W-SN, Eyevis presents the latest generation of its LCD modules for video wall applications. The outstanding feature of the displays is their super-slim bezel, which allows composition of modular video walls with a gap from screen to screen of only 7.3 mm. The displays have a screen diagonal of 46" (116 cm) and native WXGA resolution (1,366 x 768 Pixel). The internal scaler allows 'tiled' video walls up to a configuration of 10 x 10 displays. Like the preceding versions of the series, the module provides numerous features. The M-version of the displays includes a stacking frame, which allows fast and simple mounting of video walls or the installation in display racks. The company provides a range of installation possibilities for the displays, including customizable racks, wall mounts, and further installation options. As a provider of complete one-stop large screen solutions, the company provides also graphics controllers, wall management software and a comprehensive range of accessories. The device has a robust metal housing which allows there installation in any environment. Even frequent mounting and demounting like on shows and events is possible without harming the displays. The special ventilation concept of the displays and further additional security features minimize the danger of image retention effects which may occur on every LC display when static image content is displayed for a longer period of time. The system is particularly suited for professional video walls in continuous operation, and for shows and events.

www.eyevis.com

Ifsec, Hall 5, Stand D145

PCI Express Cards



Adding to the existing line of industrial interface cards for ISA and PCI bus systems, Wiesemann & Theis has developed a family of serial PCI Express cards. The compact interface cards for x1 PCI Express slots feature two galvanically isolated serial high-speed ports and are plug- and function-compatible with the still available ISA and PCI boards. The cards are available with two selectable RS232/RS485/RS422 ports or with two 20 mA ports. The modular design, however, also allows mixed use of the ports, so that the still uncommon PCI Express slots can be optimally used. In RS485/422 mode the cards handle up to 3 MBaud, while rates of up to 1 MBaud are possible in RS232 mode.

www.WuT.de

Carephone

The Carephone 52+ combines high functionality with modern design. The device is multi-protocol capable and compatible with TeleAlarm, Bosch as well as other common social alarm management systems. Furthermore, the carephone can be used in combination with TeleAlarm and Bosch wireless peripherals, incl. all pendant transmitters, the ManDown sensor as well as the Carewatch. Consequently, the Carephone 52+ offers great flexibility to the operator as well as to the end-user. Programming of the device can be done remotely via the telephone line by a compatible monitoring center or locally via the programming keypad. It is also possible to use the programming software of the Carephone 10 – advantages service providers can directly benefit from as in case of a carephone replacement no further investment in new programming software is necessary. Additionally, the Carephone 52+ offers the possibility to deactivate the language-based programming and to use acoustical signals instead. The green and yellow button of the Carephone 52+ can occupy different functions. Thus, the daily button as well as the home / away function can both be alternatively shown in yellow or green.

www.boschsecurity.com

Ifsec, Hall 4, Stand E10

RFID

Touch-free Is Maintenance-free

An interview with Axel Jeschke about Deister Electronic, Efficient Key Management and the Mifare Hack

The Deister is a ridge which rises to 405 m above sea level in the Calenberger Bergland on the northern boundary of the hill region of Lower Saxony. This ridge is located to the south west of Hanover, in the regions of Schaumburg, Hameln-Pyrmont and Hanover. However, the name Deister stands for a great deal more. Amongst experts, Deister Electronic is a very well-known company. In Barsinghausen, only a few kilometres from its forested namesake, Deister Electronic produces pioneering electronics for the four areas of access control, key management, control of security personnel and identity and automation, including vehicle security systems. A total of 250 employees throughout the world enable the use of components for touch-free identification and mobile data recording. In this interview, Steffen Ebert talks to Axel Jeschke.

GIT SECURITY: Mr. Jeschke, to start with the key question – what is Deister's e core competence?

A. Jeschke: To put things simply, the core competence of our products is touch-free identification. The basic question is always: RFID or a simple, common-or-garden technology. RFID has the advantage of being touch-free and therefore free from wear and tear. Simply the freedom from wear and tear provides an enormous advantage, e.g. in the area of service. Even though the initial costs are somewhat higher, running costs are considerably lower. To take a classic example: touch-free access control: magnetic card readers need to be cleaned at regular intervals, which of course results in maintenance costs. With touch-free technology, these costs are eliminated. This is great advantage for all applications for internal use within businesses, and also an advantage which is reflected in all our product groups and solutions. For example, multi-storey car parks - just ask the operator of a multi-storey car park how often the card readers need cleaning because these have become severely contaminated with exhaust fumes. The expense is enormous. This is eliminated if you can make the identification without contact. A second example is in the field of key management: here too, the core element of the key cabi-

Source from a Manufacturer with 19-year Experiences
Marvelous Integration Advanced Your Security

OEM / ODM Welcome

Safeguard H.264 Compression DVR Real D1 Hi-Res. Recording

- Recording playback:
  NTSC: 60fps/720*480 , 120fps/720*240 , 240fps/360*240
  PAL : 50fps/720*576 , 100fps/720*288 , 200fps/360*288
- Real time live display: 30(NTSC) / 25(PAL)fps for each channel
- GUI OSD with Mouse control or IR remote control
- IE software for 64-CH image controll
- IR Remote controller to control 8 DVR
- Network Support – TCP/IP , HTTP , PPPoE , DHCP , DDNS, FTP , TSP
- Audio : 4 in / 2 out
- Pre/post recording function
- Playback search: smart / time / event search
- Support detection trigger under video loss/motion /alarm/HDD state
- Support VGA output for 1280x1024 resolution
- Watermark protection
- Back up support up to 2 SATA HDD / DVD-RW / USB
- RS232 and RS485 for PTZ, keyboard control,GPS,and POS support
- Multi-language support - English/Chinese/Japanese/ French/Spanish Polish/ Russian/Turkish/Italian/Greek/ Portuguese/Korean available. (More language under construction …)
- optional IEEE 1394 connector for external 8 HDD & 1~5 raid extension

IP Camera Applications

- Built-in Web Server
- Support / Dual video stream (MPEG4/H.264)
- Support D1, CIF, QCIF Resolution (NTSC:30;PAL25Frame.sec.)
- Support pre/post Buffer Image
- Support IP CAM Work State Detection (Video loss/Power loss/Network loss)
- Support Mail & FTP Function
- Support USB Quick Setting
- Support Image Motion Detection

CCD Board Camera

- 1/3" Sony CCD/420TVL/480TVL /580TVL
- 1/3" Sharp CCD
- High Res. CCD board+656 digital outputs
- 32x32mm, 38x38mm, 42x42mm

KCA
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Tel: (886-2) 2242 4888 • Fax: (886-2) 2248 5555
E-mail: kca@ms7.hinet.net • Web site: www.kca.com.tw

FC CE RoHS

ISC WEST EXPO USA
April 1-3, 2009
Booth # 32014 Taiwan Pavilion

SECUTECH TAIPEI
April 22-24, 2009
Booth # K707-712

IFSEC UK, Birmingham
May 11-14, 2009
Booth No.: HALL 5 #A120

net is touch-free, so there is no maintenance involved.

Your company holds many patents. Is this what characterises Deister – the research company?

A. Jeschke: Definitely. Deister products and our quality are the result of a clear technological orientation. This starts with the owner and entrepreneur, Anatoli Stobbe, an outstanding graduate engineer. Other posts, even in the dispatch department are occupied by engineers, including myself. This is the character of our company. We are definitely technology-driven and see ourselves as being at the cutting edge of technology. This is documented by our many pioneering achievements and patents over the past. As well as this, we always derive benefits for our customers from this technological lead.

Products from your company can be found in a wide range of applications – even if they do not always carry the name Deister. What is your latest project which you are especially proud of?

A. Jeschke: For example key management – CERN (editor's note: this European nuclear research organisation is a large research facility near Geneva in Switzerland. The abbreviation is derived from the previous French name: Conseil Européen pour la Recherche Nucléaire) is fully equipped with a Deister key management system. This ensures that the system cannot be operated before all staff have definitely left the critical areas, in order to prevent accidents or to subject employees to radiation or any other elements which are being fired around.

Any other examples?

A. Jeschke: Renault is a good example from the car industry. In the Renault "Technocenter" all keys are efficiently managed – which helps the company to save costs. In general, the decisive factor is what lies behind the key – in this case a process optimisation. A key cabinet is just like the key rack which you have at home. The difference is that here I know electronically who has been where, who has taken which key and who has brought it back. With this, you can not only calculate the operating costs, the entire organisation centred around the keys becomes more efficient and therefore more economical.

Let's stay on the subject of foreign countries. What about the international activities of your company?

A. Jeschke: We are active throughout the world. In the field of access control we have about 500 system partners, with whom we cooperate and who build our access control components and install them throughout the world. As well as our own subsidiaries in the UK, France, the Netherlands and Belgium, we also have Deister subsidiaries in the USA and Canada. More recently we set up offices in Japan, which is now very successful. At the moment we are preparing for the jump to the continent of South America. We are therefore still expanding, even in spite of, or maybe because of the present economic climate.

What products are you working on at the moment, what will soon be on the market?

A. Jeschke: There will soon be a new UHF wide-range reader for parking applications. The clear advantage of this system is the extremely low price of the transponders, which we have adopted from our logistics sector. Because of the very large numbers of units which are produced for logistics, where literally pallet-loads need to be identified, the prices to our customers have now reached a very low level. We want to use this to the benefit of our customers for the identification of vehicles. This is a brand new product, which your readers are the first to know about – the first devices have not yet been built, but are already sold. In the field of key management our relatively compact proxSafe solution for 32 key is also causing a great sensation.

The Mifare hack and its consequences – we have already asked you about this in other issues. What is your conclusion now?

A. Jeschke: Let's face it, the majority of all access control systems receive their information via a technology which is over forty years old. The access data is read in using a two-conductor, one-way technology – which can hardly be termed as true communication. As long as encryption only takes place outside at the door, as has been the case up to now, and is not continuously implemented from the transponder to the core of the system, users cannot feel really safe. Unfortunately, this applies to most of the systems which are available at present.

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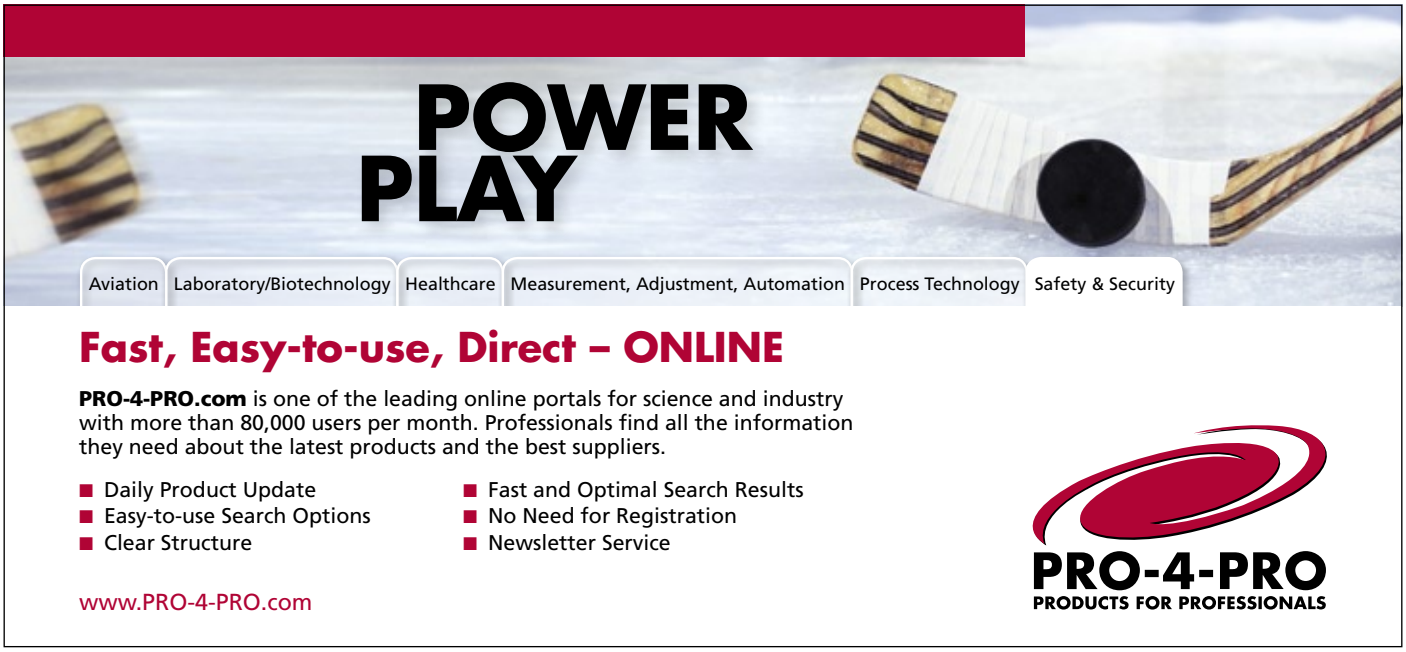


ACCESS CONTROL

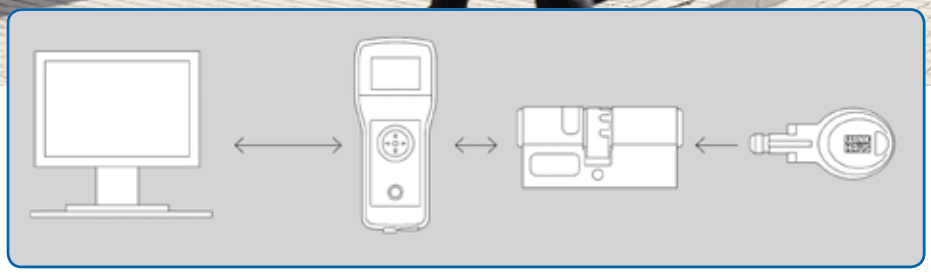
In the Right Place at the Right Time

Access Control Management for a German Film Studio

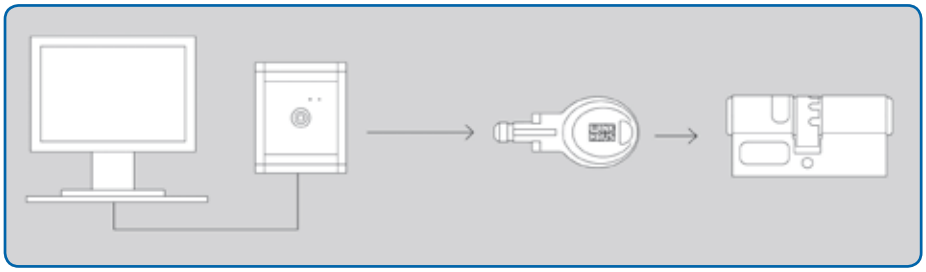
Intelligent property management is no longer conceivable without electronic access systems. Until now, operators needed to choose between two systems – either offline or online. Neither totally offline nor online, BlueChip TimeLine is an innovative solution being used by companies such as the German film studio, Ufa Film & TV Production.

Offline access control systems do not involve time and expense spent on wiring, resulting in lower installation costs. There is also no need to modify doors to incorporate electronic cylinders or handles and, when relocating offices for instance, they can be easily disassembled, and re-installed in another building. Online systems, on the other hand, provide centralized management and control but entail more time and expense when installed. Authorizations can be issued or withdrawn with immediate effect; current door statuses are displayed; alarm signals go directly to the control center and access entries are logged at the control center. An employee display panel can also show who is present in the building, a function which is extremely useful in the event of an emergency.

Another useful function for emergencies is the automatic opening or closing of doors in the event of a fire alarm. Doors can be remote-controlled for day-to-day use via a control center workstation that can also block readers, control groups of rooms and manage parking place allocation online. The online system has an anti pass-back function, which only allows users re-entry after they have exited.



The offline system: Software is used to upload authorisations onto a programming device. Authorisations are programmed into cylinders, handles or readers individually.



In BlueChip TimeLine, the computer is directly linked to access points. This enables authorisations to be directly written onto a key or card.

The Best of Both Worlds

BlueChip TimeLine combines the advantages of both solutions in a single system by controlling access authorization for all keys with the speed and convenience of online systems. It has no interference-prone wireless connections, and the central control system saves work and time because operators no longer need to program each door individually. The central computer is connected with access points at building entrances. These enable authorizations and changes to be directly written onto a user's identity device. Anyone who requires access to a particular section automatically obtains their individual authorization then and there via an AccessPoint device at the building entrance. Authorization is up-to-date, personal and restricted with regard to time and place. Risks resulting from key loss are minimized as such authorizations automatically expire in the evening. Using the new combined offline and TimeLine AccessPoint system has been a great success at Ufa. They decided on a replacement system when extension of the old mechanical locking system in the administration building was no longer an option. The new system would have to give employees access to their offices via the underground car park and to incorporate interfaces between the access control system and the existing facility management systems.

Personal Profiles

Around 280 Ufa employees as well as an ever-changing number of temporary workers and

service personnel frequent the complex, so Winkhaus developed a tailor-made, cross-system concept for the five-storey building complex consisting of 363 BlueChip cylinders, 15 access readers and a comprehensive exterior shell security system provided by TimeLine AccessPoints. All users are assigned individual time profiles that define down to 15 minutes when they may open a door and when they are forbidden to enter for each day of the week, all public holidays and two special days. Personal access and time schedule authorizations are freshly stored on the BlueChip key transponder chip daily and automatically when the BlueChip is held against the AccessPoint as users enter the building. Each locking operation and each attempted locking operation with non-authorized keys is logged together with the date, time and the person's identity. If a key is lost, just a few clicks of the mouse block it out of the system.

Energy Management

Great savings on building operation costs are made by linking the access control system to the building management system. In the case of Ufa, energy consumption was reduced by up to thirty percent by opening doors electronically and controlling the power supply to rooms via interfaces with the building management system. Lighting and other electrical systems are only activated when someone enters the building and are switched off when the building is vacated. Heating and cooling systems are also programmed according to requirements. On work days, rooms are automatically heated to an optimum temperature of 20°C after 8 a.m. and reduced at night by 3°C to an energy-saving level of 17°C. For comfort and convenience, a room control unit also allows users to adjust the temperature by +/- 3°C and switch the lighting on and off manually. The overall access control system at Ufa is managed centrally via a client server structure using the BlueIntrasControl software solution. As well as the position of all doors and their security components, the software also registers all permanent and temporary employees and service personnel who have received a BlueChip key as a personal identity device.

Building Blocks

The system manages up to 100,000 individuals for an unlimited number of doors, building areas and authorizations. The open system architecture and interfaces to video surveillance systems as well as burglar alarm systems and building management systems enabled the software to be easily incorporated into Ufa's existing EDP environment. The software is extendible to include components such as visitor management, parking space allocation, meeting room bookings or alarm management. The use of offline components is particularly advantageous and cost-effective when installed in an existing building or when extending an online access control system. A combination of online and offline systems is an effective solution for many security projects with a need for flexibility and economy.

►CONTACT

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Video Transmission over IP Networks

Current IP networks versatility and speed along with the huge improvement in the field of dynamic image compression, make the transition of high quality video over IP networks possible and offer additional features that were unthinkable just a few years ago. Equitel´s C104-T model is a video server based on the high efficiency MPEG-4 compression. It allows the transmission of a high quality video signal (D1 resolution in real time) over a 10/100 base T network, with an extremely low bandwidth consumption. The video signal can be modified before being compressed by overimposing images (logo), texts, date and time, using an easy configuring software. It is possible to replicate the output stream at a lower quality, so that it can be sent to two different receivers in the network. Its design, completely in accordance with international standards, allows the compatibility of C104-T with any video client complying with RTSP, RTP/RTCP and MPEG-4, such as Apple Quicktime or Videolan. With the SDK and the documentation provided, the C104-T can be very easily integrated in open systems.
www.equitel.es

ANPR Optimized Camera Solutions

Dedicated Micros launched its Hypersense Technology in a range of Automatic Number Plate Recognition (ANPR) Optimized Cameras to effectively capture and record vehicle license plates – even when faced with headlight glare. Available in analogue and IP models, the technology removes ambient light from a scene only leaving objects that strongly reflect the Infra Red (IR) light emitted by the integrated IR LED array. Suited for deployment in a range of applications, such as petrol forecourt monitoring and car park barrier control, the range includes dedicated ANPR cameras, designed to capture the plate detail of passing vehicles and combined ANPR/Overview cameras to associate color images of the vehicles with their number plates. Crucially, the new cameras can be integrated seamlessly with existing Netvu Connected CCTV installations without the need for a complete re-design or re-installation of a system.
www.dedicatedmicros.com
Ifsec, Hall 5, Stand D70

Entry-level Day and Night Fixed Dome Camera

Panasonic has launched the WV-CF102 compact day and night fixed dome analogue camera with ABS (Adaptive Black stretch). It features 540 TV lines and a 2.5 mm Fixed Focal lens. Clear images can be captured with its high sensitivity of 1.2 lux in colour mode at F2.0. Significantly, the low-cost WV-CF102 has ABS (Adaptive Black Stretch), which enhances visibility of dark areas. Unique to the company's security cameras, Adaptive Black Stretch technology is an image-processing algorithm built-in to the DSP, which enables the transformation of shadows and dark areas into natural and clear images in real time without degrading the image quality in bright areas. ABS can also be found on the Panasonic WV-CP280, WV-CF294 and WV-CF284 low cost analogue cameras.
www.panasonic.com
Ifsec, Hall 5, Stand C10

High-end Detection

Geutebruck's Reporter hybrid recorder for small and medium-sized projects is now also available with license activation for high end outdoor VMD and Dual-Sensor detection. The Reporter-Sensor range of DSP-based recorders with up to 19 video channels and an audio channel are specially configured for perimeter surveillance applications and ideally suited for event triggered recording with high picture rates per camera. The Dual-Sensor is a very reliable detection system in which the company's virtual video motion detector and its video analysis package both monitor the same video signal. This arrangement combines their different technological strengths, eliminates weaknesses and halves unwanted alarms. Dual-Sensor recognizes objects by size, speed, direction of movement and status, and reports when selected target types exhibit particular behaviours.
www.geutebrueck.com

Megapixel Day & Night Lenses

Kowa has introduced HD-Multi-Megapixel Day & Night CCTV lenses for IP-Day & Night cameras with more than 3 Megapixel resolutions. The series' high performance is achieved due to a special mechanical design and the usage of aspherical lens technology. By using XD-glass (Extra low Dispersion) and special coating technology these lenses provide crisp colour images during the day and crisp black and white images at night (IR light) without refocusing. This advanced optical design easily corrects color aberration. The lens series is designed for 1/2" sensors with two different models. LMVZ3510-IR covers a focal range between 3,5–10 mm with a maximum horizontal angel of view of 108° whereas LMVZ9020-IR covers a focal range between 9–20 mm. Both models are currently available with manual iris.

www.kowaeurope.de

Ifsec, Hall 5, Stand A40

Images in Extreme Light Conditions

Geutebruck's new intelligent, day/night IP camera produces top quality video images in extreme light conditions, yet with the minimum of data. Its automatic IR-cut filter, wide dynamic range Pixim sensor and 32x electronic picture integration ensure clear, sharp pictures in very bright or dark conditions, near glass walls and in entrance halls. Even with full on car headlights there is no vertical smear in the picture. Vipcam's onboard DSP can support video motion detection, activity detection, privacy zones, dynamic live streaming, intelligent compression dynamics and dual channel streaming. Once configured, it's software only produces the picture data actually needed. So avoiding redundant data means less network load, less central processing, less storage and of course less cost. The camera does not produce artefacts in 4CIF format. It takes its power from the network and handles alarms and automatic responses.

www.geutebrueck.com

Video-IP and High-speed Domes

At this year's Ifsec, Dallmeier will exhibit their Video-IP range "A tribute to Amadeus", which for the first time will be introduced to the UK clientele, and its new modular high-speed PTZ dome system Domera, a modular high-speed PTZ dome system. The high-resolution Wide Dynamic Range colour dome cameras are available in different mounting variants and with various zoom factors. All models are characterized by high-performance Pan/Tilt/Zoom mechanisms, integrated motion detection, ICR function for Day/Night switching, and auto-focus with manual correction. The image quality can be enhanced by means of numerous control functions such as AWB, AGC, BLC and slow shutter. A total of 248 preset positions as well as 16 tours can be programmed. Furthermore, the cameras of the series are DIN EN 50130-4 certified. The maintenance-friendly, modular concept allows for a flexible planning and thus a subsequent change of the components with minimal effort. The system therefore offers investment protection amidst constantly changing security requirements. The Backbox & Backplate interface system offers huge advantages and a high flexibility regarding planning, installation, maintenance and upgrades. This means that initially only the camera locations need to be determined. Lens sizes and zoom factors respectively must not be decided upon until after the installation of the Backbox (in-ceiling) or the Backplate (surface). Current standard protocols or, optionally, the company's PTZ protocol DCCP with a variety of additional functions, are supported.

www.dallmeier.com

Ifsec, Hall 5, Stand G10

Hybrid Recorders

The Bosch Divar XF embedded DVR offers future-proof investment protection with hybrid functionality supporting 8 or 16 analog cameras and up to 8 H.264 IP (Internet Protocol) video streams. The company has also packed in a host of advanced features to ensure the best possible recording quality and maximum protection of recorded video. The recorder offers real-time recording and playback at up to full 4CIF resolution on all channels, providing high-quality images for both live viewing and recorded video. Moreover, featuring advanced H.264 compression technology, the unit minimizes system bandwidth and storage requirements. Storage costs are reduced by up to 30 % compared with systems that use traditional MPEG-4 encoding. Video is stored on up to four internal hard disk drives, assuring maximum protection of recorded video.

www.boschsecurity.com

Ifsec, Hall 4, Stand E10

Combined IP Video Surveillance Management

Basler Vision Technologies has teamed with Luxriot to present their combined solution for IP video surveillance management. All Basler IP megapixel camera models are supported by Luxriot's IP video surveillance management software. Customers can choose from five different Luxriot versions, ranging from Personal to Enterprise. The versions vary in the number of allowed cameras and remote client connections, as well as in some features. They all have the same user-friendly interface and are upgradeable from a lower to a higher version. On the camera side, customers can choose from three different models with one to two megapixel resolutions.

www.basler-ipcam.com

Ifsec, Hall 4, Stand F160

Branch Modules and Video Analysis

For the third year in a row, Seetec Communications is presenting its new products together with Eyevis and Advancis at the Ifsec in Birmingham. The spotlight is put on live demos of the branch modules recently launched onto the market. The company's modules for the financial, logistics and retail sectors cater for the information needs of the particular industries. An important area of application for the Finance Module is in the monitoring of cash machines in banks or public areas. Where in the analogue world it was often only possible to handle straight surveillance and recording, IP video technology has opened up a whole range of additional possibilities, which significantly increase security, especially with the issuing of money. The Logistics Module facilitates the tracking of goods within logistics companies. The data and images that are linked to a transaction in Seetec 5, can be called up and evaluated using a search engine, which can access almost any logistics information such as SSCC, shipping list, part number, etc. This way, it is possible to track the exact route a shipment took, even weeks later. The Retail Module has been specially matched to the requirements of retail businesses and provides an interface through which camera images from the company's software can be linked directly to booking and business processes. This makes straightforward process-related evaluation of monitoring data possible. In addition, the technology of network-based video surveillance in combination with megapixel cameras makes it possible to provide a very high surveillance quality, which delivers extremely detailed and accurate high-resolution images. The integration of video analysis by Objectvideo is also focused on at this year's IFSEC presentation. By using the OV Ready protocol and the resulting standardization, the company is exploiting the potential of IP video and can offer video analysis at the terminal unit or within the context of centralized configuration.

www.seetec.eu

Ifsec, Hall 5, Stand D145

Hybrid UTP Power, Video & Data

NVT offers a very wide range of UTP-based solutions (Unshielded Twisted Pair), including new Digital EQ hubs, Power, Video & Data (PVD) power supply hubs, power supply passive receiver hubs and multimedia products. The PVD hubs supply low voltage power (24 V AC and 12 V DC), meaning that localized power supplies and electrical outlets are no longer required at each internal camera location. As well as handling the distribution of power, UTP cable also supports video transmission whilst additionally delivering PTZ telemetry data, all over a single four-pair Cat5e cable. The NV-4/8/16PS13 Power Supply Passive Receiver Hubs are Hybrid Video components that consolidate all CCTV system cabling using standards based EIA/TIA 568B structured building wiring. Designed for installation in an IDF/telecom or MDF/equipment rooms, these 4, 8 and 16 channel hubs feature independently selectable 24 V AC/off/28 V AC outputs that can support camera loads of up to 1 amp per channel (10 A aggregate for the 16-channel model). In addition, each output is individually thermistor protected for auto-reset after any faults have been removed.
www.nvt.com

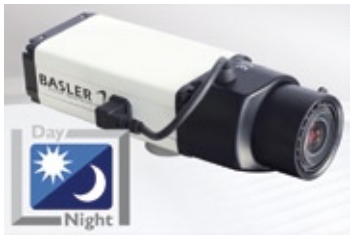
Improved Casino Security

Security at one the leading casinos in the North-West United States is being improved with the license plate capture cameras and Infra-Red illuminators from Raytec. The casino is upgrading security as part of its plans for an increase in visitor numbers and the company's equipment was chosen to give the surveillance team the best possible control over car parks and key external areas. The Voyager LPR cameras allow rapid identification of vehicles in the event of a security problem, and also make it easier to keep track of who is driving onto the site. Raymax Infra-Red illuminators ensure high quality image capture at night, with the twin benefits of low energy consumption and low maintenance. The Voyager range of license plate capture cameras captures vehicle license plates day and night at speeds up to 100 mph and distances up to 40 m (131 ft).
www.raytecccctv.com
Ifsec, Hall 4, Stand H15

Setting Standards

The 1/3" 3.5–8 mm Vari-Focal lens was introduced by Tamron in 1992 and started the so-called "Vari-Focal Boom" in the CCTV market. Many other lens manufacturers developed their own Vari-Focal lens with similar features, and this focal length range is very popular even today. Tamron widened its line up, with the additional 1/3" 8–12 mm F/1.4 and 1/3" 5–50 mm F/1.4, which were the first CCTV Vari-Focal lenses using aspherical lens elements. Exactly these aspherical lens elements were used to introduce the most widely spread CCTV lens of all, the 1/3" 3.0–8 mm F/1.0 – introduced by the company in 2002. The firm was also the first to introduce IR corrective lenses, and in 2007 it presented the first 1/3" Megapixel lenses developed for the CCTV Market. These lenses (1/3"; 3.0–8 mm F/1.0; 2.4–6 mm F/1.2; 5–5 0mm F/1.4) are not only suitable to resolve Megapixel resolution until the corners of a sensor, they have also a user-friendly design. Therefore the lenses feature a very big focus ratio to compensate the depth of field decrease and the delay due to IP technology, which makes it more difficult for the installer to get a well-focused picture.
www.tamron.de
Ifsec, Hall 5, Stand B45

Day and Night IP Cameras



Basler expands their IP camera portfolio with true day and night camera models. The day/night functionality, with its automatically retractable infrared (IR) cut filter, currently applies to the following three models: BIP-640c-dn with a resolution of 640 x 480 pixels (VGA), BIP-1000c-dn with a resolution of 1,024 x 768 pixels (XGA), and BIP-1300c-dn with a megapixel resolution of 1,280 x 960 pixels (HD). The series is equipped with a selection of Sony CCD sensors, which provides optimized sensitivity not only for daytime conditions but especially for night and low light applications. During normal lighting conditions, the IR-cut filter is positioned in front of the imaging sensor. This results in high quality color images. When the ambient light level decreases, the automatic exposure control on the Basler IP camera moves the mechanical IR-cut filter aside and replaces it with a clear filter to keep the correct back focal length. Without the IR-cut filter in front of the sensor, the camera will shift into a black and white mode that allows operation at a minimum illumination and enabling full night vision capability.
www.basler-ipcam.com
Ifsec, Hall 4, Stand F160

New Fastlane Glassgate

The new version of the Fastlane Glassgate has a number of enhancements over the current product, these include: More Secure – the product can be supplied with a range of glass panel heights up to 1.8 m, making this our first full height turnstile from IDL. In addition, the friction brake force has been increased to provide a more secure closed position for the glass panels. For optimum security, standard width dual glass barrier lanes can be provided. DDA/ADA Compatibility – the new dual glass panel Interlane facilitates either standard or DDA/ADA lane widths thus a set of DDA/ADA width disabled lanes can be provided, unlike the current product that can only have one DDA/ADA lane per set of lanes. Enclosure Redesign – the new enclosure has been re-designed with no side panels to give a more open feeling that compliments the glass barriers, while still having the same optical beam technology to detect unauthorised entry attempts and tailgating.
www.fastlane-turnstiles.com
Ifsec, Hall 4, Stand B127

Covert Operation Camera Kit

Mel Secure Systems has launched a new Covert Operation Camera Kit. This wireless solution utilizes COFDM H.264 and UHF telemetry transmission to deliver improved picture quality and more than double the range of other systems in any mobile or fixed covert application. The kit includes mini and standard prism cameras that can be easily concealed for both indoor and outdoor operations. They can be mounted either on top or on the side of lamp posts to reduce street clutter and avoid alerting people that CCTV is in operation. Both cameras offer full PTZ functionality and 360° vision with continuous rotation and 60° camera tilt. They also feature up to 36 x optical and 10 x digital zoom using a Sony day/night camera module with image stabilization to provide evidential quality pictures at maximum zoom.
www.melsecuresystems.com

ACCESS CONTROL

One Card for All the Needs

University of Bozen Relies on Multi-functional Contactless Campus Card

Lending station at library

Identification, access authorisation and time & attendance are standard with every e-card system. The extended solution of the University of Bolzano in Italy also includes an electronic payment system, a library card, printing and copying card as well as internet access, a voting card and much more, depending on requirements and wishes. Contactless Legic technology makes this possible and allows for an unmatched variety of different applications on one single card.

Since the Free University of Bozen was founded – it celebrated its 10th anniversary last year – everything from the network to the server and PCs right through to the software to support the internal departments has been designed in-house and implemented by the university's own I&CT department. A unique and comprehensive project is the introduction of a multi-functional smart card based on Legic technology.

Combining Two Sectors in One Card

Based on two sector solutions – access control and time & attendance by Interflex as well as electronic payment system by Automaten Seitz – the Free University of Bozen has developed an additional range of solutions which have been seamlessly integrated with its own university information system. Previously separated systems have been brought together to guarantee an innovative all-round service for students and staff. As soon as they enter the university or register, every employee and student receives a personalised smart card with their photo, name and library number. At the press of a button, the account is registered in the science network, library permissions created, access authorisation granted and the card printed and coded – all in less than 5 minutes thanks to automated processes.

Access Control for a server room

Key data for the Legic smart card system at the Free University Bozen	
Locations	3
Active chip cards	approx. 9000
Cash points	20
Internet points	9
Cash top-up points	5
Vending machines	21
Copiers	14
Time management terminals	10
Access readers	more than 100
Printers	more than 20

The card holder is able to get all the available services immediately using its card for example in the library, for electronic payment, as a copy card or for university elections. To ensure the service remains as transparent as possible, users can view all data via the web. Furthermore, the campus card can be blocked round the clock using an online application. The Legic smart card itself visibly displays the period of validity which is printed on an overwriteable field. If the card is extended, the period of validity is updated using a special printer which at the same time updates the coding.

Thanks to the flexible expandability of Legic smart card platform, the innovative Campus Card is also well-prepared for the future. Additional applications can be simply added at any time – an important advantage, beside cost savings and increased administration efficiency and service level. Two additional institutions are already turning to this innovative solution and will be taken care of along with the Free University of Bozen: the 'European Academy', a research institution in Bozen and the 'Philosophy and Theology' college in Brixen.

► CONTACT

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FIRE PROTECTION

Getting Out of a Right Royal Mess

Apollo Fire System Now Protects the Royal Albert Hall

London's Royal Albert Hall is one of the most recognizable concert venues in the world. Opened in 1871 by Queen Victoria, it hosts over 350 performances every year. These include not only classical and popular music concerts, but also events as diverse as tennis tournaments and an audience with the Dalai Lama. A fire risk assessment there revealed a need for a single fire detection system.

A somewhat piecemeal approach to building maintenance in the past had led to a number of different fire detection systems being installed over time. These included a twenty-five year old conventional system, a radio system, an analog addressable system with five networked panels and a separate sprinkler system. As an international entertainment venue in constant use, gaining access for refurbishment or essential maintenance can be difficult. This is further compounded by restrictions due to its status as a Grade I listed building. In addition, the venue is a registered charity and operates without any public subsidy so any expenditure must be carefully planned.

Going Digital

Leader Systems LLP was appointed to design, install and commission the new fire detection system. They recommended an intelligent fire detection system based on Apollo's open digital protocol to overcome historical issues with operation, performance and ongoing maintenance.

"We have used Apollo-based fire systems very successfully for many years," explains Tony Weaver, Leader's Head of Technical. "Their open digital protocol is proven over twenty years and a large number of product and panel manufacturers offer devices that are compatible. This gives freedom of choice and doesn't tie the client to a single company or range of fire detection products, so it was a perfect choice for the Royal Albert Hall."

The system design centers around a standard network of six four-loop Advanced Electronics control panels. To meet the need for a single point of information, a graphics package that enables staff to pinpoint any incidents on the ground plans of the building was specified – a much more user-friendly interface than the multiple system panels it replaces. Leader and Advanced also collaborated on the development of a bespoke mimic panel that indicates damper activation as a result of an alarm.

Concern Over Decor

Apollo's Discovery and Xpander ranges of fire detectors were chosen to meet the environmental and architectural demands of the Royal Albert Hall. Tony Weaver explains: "The Discovery range of intelligent fire detectors meets several key client demands: proven reliability in the field, adaptability to changing conditions and protection against unwanted alarms. We specified these devices for the majority of the building."

However, there are some areas where hardwired devices could not be installed, such as the ceiling of the auditorium. For these areas, Xpander wireless fire detectors were specified. These devices are fully compatible with the intelligent fire system and simply connect to the control panel via an interface, which is wired to the loop. They are then recognized by the control panel as another detector connected to the system.

Adaptive Innovation

The Royal Albert Hall also found a novel use of Xpander, as Apollo's UK Sales Manager Andy Turner explains: "Although it isn't a main application for them, the Xpander devices were a great solution for providing temporary fire cover in areas of the building where refurbishment was in progress. Once work was complete, hardwired devices were installed and the wireless devices removed for use on the next phase."

As the Royal Albert Hall is a listed building, the new fire detection system had to use existing wiring. This raised some technical issues, which the choice of appropriate technology was able to overcome. For example, the original analog addressable fire system needed a separate sounder circuit. Apollo integral base sounders enabled use of existing wiring to replace these, creating integrated loops, while zone monitors and DIN-rail interfaces enabled the new fire system to interface with other critical equipment.

The client fully appreciates the unique circumstances that the Royal Albert Hall presented and the added value contributed by all the companies involved in the fire detection project. Building Services Development Manager Tom Scullane concludes: "I needed a fire detection system that put me in control and the combination of Leader System's design, Advanced's control equipment and Apollo's open protocol gave me that."

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FIRE PROTECTION

Marked for Life

A Pan-european Mark of Quality for Fire and Security Equipment

Manufacturers of fire protection and security systems have long been faced with bureaucratic, costly and time-consuming approval procedures, often involving multiple testing for products and services to be accepted in EU member states. The vision of one-stop testing and certification in Europe has just become significantly closer with the launch of Certalarm, the newly developed European quality mark.

CERTALARM - the Quality Mark for Fire & Security

Certalarm offers a unique European quality mark, based on third-party one-stop test and certification, primarily to EN54 fire and EN5013X security standards. It will lead to multiple benefits because products complying with Certalarm will have standardized levels of quality, reliability and security right across Europe and bear a trans-European quality mark.

In practice, this will mean that both installers and end customers that are active in several countries will be assured of the same levels of security and reliability in all regions and locations, based on the requirements defined in EN standards. Customers will no longer have to deal with differing national security standards. And manufacturers of fire protection and security systems will no longer have to complete multiple costly and time-consuming national testing procedures for products and services to be accepted in the various EU member states. The immense expenditure involved has resulted in unnecessarily high product cost, hindered product innovation, slowed down market introduction and impaired competition.

Ensuring EN Standards

In some countries, national regulations and standards for intrusion alarm systems do not yet exist. With the introduction of EN5013X standards across Europe, which also specify the tests that ensure that these products work reliably under demanding environmental conditions, these countries will now be able to guarantee a recog-

New EN guidelines for electronic intrusion detection

The new standard has been introduced by CENELEC (European Committee for Electrotechnical Standardization) to meet growing demands for EN compliant products from users and installers of security systems.

The aim of the new EN guidelines is to guarantee a high, consistent level of performance for electronic security systems throughout Europe. The following requirements and test procedures are currently available:

EN50131-1	General alarm-systems requirements
EN50131-2-2	Passive infrared (PIR) detectors
EN50131-2-4	PIR/microwave dual-mode detectors
EN50131-2-5	PIR/ultrasonic dual-mode detectors
EN50131-3	Alarm panels
EN50131-4	Warning devices
EN50131-5-3	Wireless link for alarm systems
EN50131-6	Power supplies

Others are in progress, including requirements for transmission systems and related products for alarm systems.

nized level of security and product reliability for intrusion alarm products. The drivers of the concept are not just a few industry players but the security community as a whole. It is based on a level playing field; an open system where qualified test houses and certification bodies can become partners or stakeholders. Certalarm is independent from the certification process in line with the relevant EN and ISO standards, and is supported by stakeholders who own and manage the (voluntary) quality mark. The Certalarm mark can be applied to new and existing fire and security products, systems and services, and will assure lifetime quality through regular product validation from manufacturing lots.

Kick-Start Together

The quality mark awarding organization acts as an International Non-Profit Association (INPA) and is headquartered in Brussels. Membership is open to individuals as well as any legal entity involved in the fire and security industry. Euralarm, the trade association of the electronic fire and security industries within Europe, is handing over implementation of the one-stop certification process to Certalarm. The industry will transfer existing certificates that fulfill the Certalarm requirements to the new European quality mark, which should give its credibility and acceptance a substantial initial boost. Certalarm works together with other test labs, certification, inspection and competence assessment bodies. Current partners include ANPI (Belgium), Det Norske Veritas (Norway) and Telefication (the Netherlands), the Danish Institute of Fire and Security Technology DBI (Denmark) and the test laboratory Delta (Denmark). The mark will help to eliminate the duplication of tests (together with the associated expenditure), assist European cross-border trading and ensure consistent high quality over entire product lifecycles.

Component Testing

Fire equipment certification is currently available for components such as control and indicating equipment, smoke, heat and multi-sense detectors, call points, sounders, extinguishing/CMSI panels, power supplies, aspirating and linear heat detection systems and evacuation systems. For security systems, certification to the relevant EN5013x series standards is currently available for intrusion and hold-up alarm system components, such as control and indicating equipment, power supplies, detectors, warning devices and transmission systems. Later the scheme will include intrusion and hold-up alarm systems, CCTV and access control systems, social alarms, vehicle and lone worker protection systems.

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This unique Wire-Free, Radio Fire System is an ideal solution for retrofit and refurbishment applications in small to medium sized enterprises including office buildings, listed buildings, guest houses, restaurants, nursery schools, garages / workshops, large houses and houses in multiple, occupation.

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The JOO Group

Effective Maintenance

Notifier's new fire alarms from it's Opal series includes the cost-saving prediction of the maintenance and cleaning measures for each single alarm via the BMZ. Thus, this work can take place considerably more effectively during the quarterly maintenance appointments. The new central fire alarm systems can, for his reason, be linked considerably more intensively with the GLT/Facility management systems. The central fire alarm system has access to the values of all sensors of the fire alarms and can for this reason be used as a source for a super-ordinate facility management system, in order to then regulate the desired conditions on-site. The thermo-sensors can inform the system about the temperature in every single room and thus support the control of lighting in each of the separate rooms.

www.notifier.de

Nurse Call System with Fire Detection and Voice Alarm

Immediate and targeted information of care personnel is crucial for an early evacuation. Coupling the fire detection system with the nurse call system provides valuable time advantages: Both systems are connected in such a way that a fire alert is also represented in plain speech on the nurse call system displays – for example in the duty rooms or via the DECT telephones. The personnel can now immediately initialize first firefighting measures or an orderly evacuation, even before the fire department arrives. This coupling was usually achieved via a serial Essernet interface (SEI). Ackermann Clino and Esser now offer a cost-effective alternative in which the connection between the fire alarm system and nurse call system is achieved directly via the fire department indicating panel (Fat 3000). Collective announcements can be configured within the nurse call system. Using a coupling terminal configured as a gateway (room terminal & VA/PA interface) voice alarm announcements can be activated through the nurse call system.

www.esser-systems.com

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WAGNER®

New Sensor Technology

For almost thirty years, the fire detection industry has relied on the same basic sensor technologies to detect the products of fire. Of course there are very good reasons for using technologies that are tried and tested. 'New and unproved' is not a phrase you want to hear in a life-critical context. You might tolerate a new car with a minor fault , for example, but a warning light causes inconvenience rather than harm. The fire industry doesn't have the luxury of refining its products through market feedback: we are, after all, in the business of saving lives. That said, the industry should not be deterred from developing new and better ways of sensing fire hazards, but there are some basic principles we should keep in mind when assessing or applying new technology. Chief among these is to remember that obtaining a fire alarm when one is needed is far more important than eliminating every possible chance of a false alarm. As a leading fire detector manufacturer, Apollo is well-placed to spot sensor technologies and assess their potential for fire detection. There is currently an upsurge of interest in sensor technologies from other industries – particularly chemical sensors. Having proven themselves reliable in other arenas, particularly in the detection of toxic and combustible gases, there is strong interest in transferring this sensor technology to fire detection applications. The potential is enormous. Chemical sensors respond to a wide range of gases. Transferred to fire detection, this could mean using just one sensor type to identify a whole range of fires. Because they respond to traces of gas, chemical sensors could pick up the products of combustion far earlier than traditional heat and smoke sensors, giving more precious time for evacuation or remedial action. John Eastwood, Apollo's Product Manager, says: "Long-life chemical sensors could bring major benefits to fire detection technology. However, unlocking the potential of such devices in fire situations requires a lot of investment, rigorous testing and trials, and an ability to convince the industry that it really is the right way to go."

www.apollo-fire.com

Firex, Hall 3, Stand C10

Beware of the Truck at International Firex

Wagner Group GmbH will have its own stand this year at the leading Fire Protection and Fire Protection exhibition in Birmingham. The German company will be presenting its innovative fire protection solutions and inviting visitors to a live demonstration in the Wagner truck. With its comprehensive product range, Wagner Group GmbH is a provider of choice for integrated fire protection solutions in the areas of fire detection, fire fighting, fire prevention and risk management in general. Wagner will use presentations on its stand to provide information about its latest fire protection solutions, with emphasis on the innovative OxyReduct fire prevention system and the Titanus air sampling smoke detection family of products. One special feature of the Titanus ultra-sensitive air sampling smoke detection system is the considerable time gained to enable proper measures to be taken. Titanus Micro·Sens Room·Ident provides companies with a fire detection system which automatically specifies the fire location in up to five neighbouring compartments with just one air sampling system. So in the event of a fire, the exact location is given, with precise information about the room in which the fire smoke is detected. Wagner is also concerned with very early detection over the entire spectrum of possible fires. This is where the ultra-sensitive Titanus Rack Sens and Titanus Silent air sampling smoke detection systems come into their own. Titanus Rack·Sens was designed for use in server and switch cabinets, whereas Titanus Silent is Wagner's solution for all types of equipment, but especially for noise-sensitive areas in compliance with applicable noise control regulations. Visitors to International Firex will be offered a special highlight – the Wagner truck. A live demonstration of the innovative OxyReduct fire prevention system will show how fire can actually be prevented. For this purpose the oxygen concentration in a special cabin will be reduced by adding nitrogen. This will make it impossible to light a cigarette lighter, for example. OxyReduct has now been tried and tested worldwide, with hundreds of installations.

www.wagner.de

Firex, Hall 3, Stand D5

When false alarms are worse than inconvenient

DISCOVERY

Discovery is a high specification fire detector designed to work in a wide range of environments and keep false alarms to a minimum.

- uniquely, all five sensitivity modes have been approved to meet the requirements of EN54
- filters out transient high levels of smoke or heat
- compensates for sensor drift

In addition to the usual ionisation, optical and heat detectors, Discovery includes carbon monoxide and multisensor detectors.

LPCB CE 0832 VdS

to find out more:
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apollo
WORLD CLASS FIRE SOLUTIONS

FIRE DETECTION

Seamless Changeover to Wireless Detectors

Smart Solutions for the Holiday Trade

Since the Regulatory Reform (Fire Safety) Order came into force in October 2006 guesthouses and hotels in the Southwest have had to bring their Fire Protection up to scratch and Argos Fire Protection Services, one of the first companies in the Southwest to be BS EN ISO 9001-2000 accredited, have regularly chosen detectomat's RCP 6B Wireless detect, wire free, fire detection system as the best solution for the job. Small business owners, particularly those in the tourism industry, recognise the inconvenience of installing conventional fire alarm systems, which require time and labour to install and cause a lot of disruption and mess to a business which accomodates customers 24/7.

Steve Oliver of Argos says "Having considered various options, the choice of the detectomat wireless system was an easy one for our many tourism customers throughout the Southwest." The detectomat Wireless detect system includes optical smoke detectors with integral sounders, break-glass call points and heat detectors. The most important factor in Argos' recommendation of the detectomat system is that hotels and guest houses do not have to inconvenience their customers. Whereas a conventional system may take 10 days to install, the detectomat system takes only 10 hours. A definite bonus in, for example, country house hotels and Cornish cottages is that there is no need for the installation of wiring which would damage solid walls and decoration. And because all the detectors have integral sounders, the Wireless detect system does not require the installation of separate sounder circuits. Furthermore, because there is no need for cabling, labour costs and mess are kept to the minimum. In summary, hotel and guest house owners are delighted with the financial savings.

Fast Installation and No Disruption of Business

Polraen House Hotel near Looe in Cornwall is a case in point. An 18th century hotel where a great deal of costly decoration had recently been done, the last thing Gill Bridges needed was mess and disruption – a wireless system which had to be compliant with the Act at an affordable cost was just what she was looking for. Argos thoroughly explained how the system worked and she was not encouraged to overpurchase. In the event there was a completely seamless changeover and Gill has recommended the Wireless detect system and Argos to many other small hotels.

Similarly, Duncan Burton of Deganwy Guest House in Looe in Cornwall was delighted both with the service received from Argos and the detectomat system. "I've already recommended the system to other similar businesses because there was no need to disturb guests or close off any rooms during the fast installation. I confess to being sceptical at first because the quote for the system was so much lower than others I received, but I have been very pleasantly surprised." detectomat's Wireless detect system has also been in place in the Camilla House Hotel since summer 2007. Simon Chapman already had an old fashioned system which did comply with the regulations but for peace of mind he felt a new system should be installed. "Argos installed it during Camilla's busiest period within only one day, meaning that no business was lost and none of my customers was in any way disturbed." There is vast potential for replication in hotels and guest houses throughout the UK. Indeed, detectomat's Wireless detect system is ideal for any business where disruption would cause a loss of business and continuity, including HMOs, retail premises and small factories and workshops. Argos was selected because of their many years experience and good relationships with the Fire Services, who see the detectomat system as a cost effective solution.

They also give the customer complete reassurance with rigorous service visits every 6 months in accordance with British Standards. This project demonstrates the clear benefits from using radio wire-free fire alarms to provide fire protection in businesses where fast installation and minimum disruption is essential.

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AIRPORT SECURITY

Locking System
Meets Expansion Needs

Frankfurt Airport, the eight-largest airport in the world and the third-largest in Europe, has an ever-growing number of passengers passing through its facilities yearly. Expansion plans to accommodate up to six million passengers a year are currently underway and the build-out is expected to be completed by the beginning of 2012. Frankfurt Airport has now chosen Keso's 4000S Omega system to fit its Airport Center in Terminal One as part of its expansion plans. The installation of the locking system is going to begin at the facility in May 2009.

The deal was made thanks to Raatz GmbH, a competent German agency specialised in door management, who has already been working with Keso for 10 years and suggested the 4000S Omega system. The locking system is extremely reliable and intelligent, meeting the security needs of such a high-traffic facility like the Frankfurt Airport Center, which houses a hotel, conference facilities, banks and shops. With its profiled key stop, the Keso 4000S Omega is a top-quality, precision piece of craftsmanship. The system's seven key shapes are trademarked and can be combined in the same system. Around 2,700 mechanical cylinders were fitted during the initial installation of the locking system.

In addition to the merits of the Swiss-locking model, the system's two-line technology was a crucial factor contributing to why the system was chosen over the competition. Two-line technology enables double the capacity of locking combinations because borings can be made on both the inner and outer line levels. As a result, a large number of different locking groups can be produced, which is particularly important for large locking systems.

Jörg Walenta, Property Manager of the Frankfurt Airport Center and responsible for the technical sector, enumerates a few reasons why the bid was given to Keso. "The good price-performance has convinced us right from the start. Furthermore the modular two-line technology system has been a decisive factor; the possibility to combine several systems with each other in order to increase the safety factor. Such a huge locking system (like the Airport Center) needs to meet extremely high and complex requirements. Another reason why the Mirus GmbH & Co. KG of the Frankfurt Airport Center has chosen the Swiss company is the duration of the patent until the year 2023. Altogether Keso offers, besides a high safety standard and long experience in business, also individual solutions, that have exactly satisfied the demands of the Frankfurt Airport Center."

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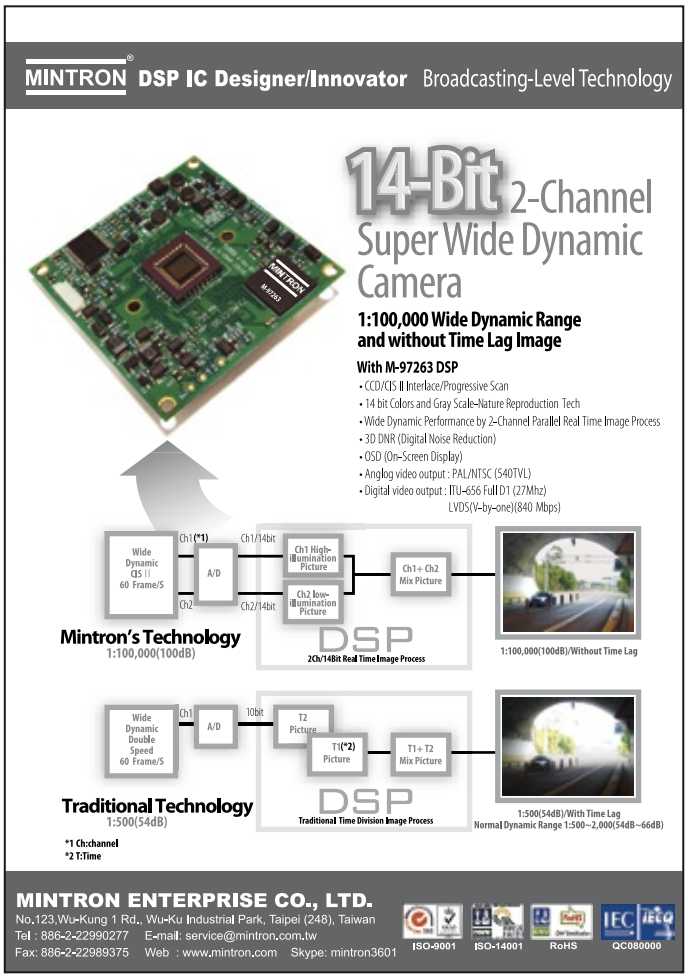

INTERVIEW

Security at Frankfurt Airport

Cutting Edge Systems to Form a Modern Airport Security Architecture

Foto: Fraport AG

In the air port industry, Britain's BAA was the first airport operator to follow a net work strategy, by looking abroad for addition al revenue. Long ago, Fraport AG also started looking beyond Frankfurt and embraced global activities. Today, Fraport is active at European and over seas locations through joint ventures and subsidiaries. Once an exclusive local player at a standalone air port, the Frankfurt Airport company has been transformed into an international airport group (Fraport AG) within only a few short years. Heiner Jerofsky, editorial consultant for GIT SECURITY, author and security advisor had the opportunity to talk to Volker Zintel, General Manager of the strategic business division Airport Security Management of Fraport AG.

Volker Zintel

You are responsible for Airport Security Management for one of the largest airport groups in the sector, at one of Germany's biggest airports. What are the fundamental principles behind your work?

V. Zintel: My first principle is certainly that there can be no such thing as one hundred percent security, even though politicians and authorities often attempt to suggest this with the measures which they order. The aim of Airport Security Management must therefore be to keep the potential hazard as low as possible. For this it is important, and this is my second principle, to regularly and critically appraise all aspects of security. Only tried and tested security systems should be used, because too many regulations and measures obstruct the view of the essentials. Thirdly, I am very much aware that the greatest "security loophole" both now and in the future is, and will be, the human factor. Therefore, especially the "soft" factors of management are considerably important for the quality of security. Only by means of qualified training, reasonable payment according to the requirements of the job, and a cooperation based on trust can we win motivated, high-performance staff, who will then carry out high quality work. Satisfied employees are the best guarantee for a secure airport.

It is well known that for Fraport AG, security has the very highest priority. How can such an international hub, with such an enormous amount of traffic cater for this requirement in day to day operations?

V. Zintel: In order to successfully perform the daily security tasks of an airport, there must be a good coordination of all security systems at an operative level. This is the responsibility of the Fraport AG security control centre. At an administrative level close and trusting cooperation between the individual security departments and the authorities is essential. The Airport Security Management is in regular contact with both the State and Federal authorities as well as with the airlines. As well as this, the responsibilities at the airport are very precisely specified by the Aviation Security Act (LuftSiG) which was passed in 2005. According to this, the airport operator is obliged to secure the airport premises. This task is performed by our Airport Security department.

THE KNOW-HOW OF A WORLD LEADER

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Over 350 employees from the Airport Security department and 1,050 employees of FraSec Fraport Security Services GmbH, carry out patrols, traffic checks, personnel and goods checks, as well as providing construction site security, event security and the protection of security and operating areas including the transportation of valuables and other security functions. In addition to this, the checking of passengers is carried out by the Air Security department. Although according to Article 5, of the Aviation Security Act this task is the responsibility of the Federal State, the air security assistants, i.e. the employees at the security checks carry out this work on behalf of the Federal State. There is also a close cooperation with Fraport Security Services GmbH (FraSec GmbH), the security subsidiary of Fraport AG.

The large airports of the future are far more than simply terminals, air traffic and multi-storey car parks. They are airport cities, shopping malls, ICE and bus stations, hotels and highly dynamic urban complexes with a multitude of functions and similarly complex security problems. The local police, customs authorities and Federal police, security service providers and your own security personnel are also at work at the airport. How must one envisage the coordination, delimitation and cooperation of these security bodies?

V. Zintel: Airport Security Management pursues a policy of intensive security partnership with the individual security agencies. This includes regular meetings in which, for example, the individual procedures at the checkpoints are discussed. In addition, other joint cooperation agreements are concluded. Just recently, representatives of Fraport AG, the chief customs office and Lufthansa AG concluded a security cooperation agreement to more effectively combat internal crime and cross-border threats. The setting up of a national centre of competence for air security between representatives of Fraport AG, state authorities, research institutes and the Lufthansa AG is also a pioneering project, which is intended to coordinate the interests of the project partners in the field of aviation security research in order to concentrate this in the research and development debates of national, European and international committees. However, cooperation does not mean that individual responsibilities are no longer clearly recognisable. In particular the Aviation Security Act clearly regulates the assignments and responsibilities to be undertaken by particular security agencies. This is the yardstick by which it will be measured.

All security technology must be monitored, maintained and continually adapted to meet the latest standards. The airport security control centre must handle all the CCTV systems, alarm systems, monitoring systems, public address systems and radio traffic around the clock. What are the technical and personnel requirements for operating this nerve centre of the security architecture?

V. Zintel: Without doubt, the security control centre is the main reporting and alarm centre for all security-relevant matters at the airport. This amounts to about 170,000 incidents per year. Described graphically, just like in a nervous system, this is where all the threads of the complex security management system come together. In the case of immediate events, the security control centre coordinates and documents the operative measures of the airport fire, rescue, and airport security services, and ensures the necessary supply of information to all the internal offices and management involved. As well as this it is responsible for the categorisation of the particular emergency incidents according to an internal operating instruction for emergencies and for alarming the emergency services and bringing them to the site of the emergency. During emergencies it has a supporting role.

In August 2007 the security control centre was given a major overhaul costing € 4 million. For the outfitting of the new security control centre, in addition to the use of the latest technology, the clear and user-friendly configuration of all equipment was also a priority. As a result, all the information required for the assessment of a situation is now available in parallel to all staff on four monitor screens at each workstation. The operation of the systems is convenient and effective thanks to the use of touch screens. In addition, together with the company's own information and communications service division, the Fraport AG security experts have designed a new emergency control system which is specially tailored to the needs of an international air traffic hub. The new technology is more powerful and offers more operating security, flexibility and capacity. The emergency power supply has also been improved and the existing diesel unit has been supplemented with a modern battery supply. The number of workstations has been increased from eight to ten, in order to cater for the continually increasing number of emergencies.

Fraport AG plans to considerably increase the capacities at the Frankfurt site. The most important measures for this are the expansion of the railway system, the terminals and new maintenance units, as well as the continuous further development of all technical systems to optimise the flow of traffic. What is the state of planning and how do you ensure your security standard during the construction phases?

V. Zintel: Airport Security Management is at the centre of this entire development process. The most important projects have now been launched or will be commenced in the near future. In the near future the fire protection system will be refurbished throughout the airport. Also, Airport Security Management is at present coordinating the security measures associated with the tree-felling work in the Kelsterbach forest. This is the first visible stage of the airport extension. During all construction activities, a specially set up "extension" command centre and a sub-office of Airport security in the Kelsterbach industrial area are responsible for ensuring security during all construction activities. However, for all the construction sites within the existing premises (some of which are in secure areas) concepts and personnel are also necessary in order to continually monitor people and goods. Furthermore, various project groups are working on the optimisation of security processes. An example of this is the PAARIS project (Passenger and Resources Information System), with which an optimisation of shift and manning schedules and the control of the deployment of personnel is to be achieved on the basis of a passenger forecast.

Airports are certain to remain sensitive security areas in the future. What are your forecasts for Frankfurt Airport in the light of international crime, increasing mobility and global terrorism?

V. Zintel: By 2020, experts forecast a doubling of the present number of passengers throughout the world. At Frankfurt Airport it is intended that instead of the previous 53.5 million passengers, 80 million passengers will use Frankfurt Airport for their travel. In parallel with this, there will certainly be an increase in competition between the security service providers. In order to remain competitive, reduction of costs through process optimisation and the introduction of innovative security solutions will play an important role. The large number of passengers and the greatly increased opportunities to misuse new technologies for terrorist purposes require airport operators to produce holistic security concepts. With its involvement in the FluSs (Airport Security System) Airport Security Management has set the course for the defence against such dangers. This project will combine cutting edge security systems, including from the fields of scanning and sensor technologies for the detection of hazardous substances or locating and navigation technologies in order to form a modern airport security architecture. On the part of the government, no fundamental innovations are expected in the next few years, although it could be advisable to critically scrutinise the delegation of responsibilities in the German Aviation Security Act in comparison with the established structures of many EU states. At present, it is essential to fully implement the measures which have been resolved up to now. However, this could quickly change in the case of a new terrorist attack.

■

GCAA and Comsoft Intensify Business Relations

On the verge of bringing to completion their new air traffic control center in Abu Dhabi and after several months of successful operation of an advanced ATC system, GCAA ordered further complementing products from the German ATC expert Comsoft. On the occasion of the annual ATC exhibition in Amsterdam GCAA's Director Air Navigation Service, Hassan Karam, and Comsoft's managing director Manfred Schmid sealed this business by signing the contracts. "As the UAE's ACC runs 1,500 movements a day and we need to move fast towards safe and efficient Air Traffic Management," stated Karam. The new contract includes additional subsystems such as an ATC archiving server, a diversity display system and a network monitoring system for Comsoft's Prisma.
www.comsoft.aero

Explosives Detection System Certification

GE Security announced that its Homeland Protection business has attained US Transportation Security Administration certification for the CTX 9800 DSi, the next generation CTX in GE's explosives detection systems line. This certification will give airports the opportunity to protect travelers with advanced high-definition 3D imaging (HD3-D) baggage screening technology, formerly only available in healthcare settings, combined with industry-leading explosives detection. The new system breaks new ground with its innovative data acquisition system, bringing together for the first time GE Healthcare's 3D imaging technology and GE Security's automated explosives detection technology. The HD3-D imaging delivers a 360°, finely-detailed view of baggage contents, providing operators with an increased ability to identify threats and lower operational costs. The CTX 9800 also provides users the ability to easily adapt to new threat definitions in the future. "The CTX 9800 utilizes advanced imaging technology originally developed for healthcare applications and customizes it for security applications," said Dennis Cooke of GE Security's Homeland Protection business. "Our unique Clarity technology enables checked luggage to be scanned by an EDS system at unprecedented speeds with the highest resolution in the industry. The CTX 9800 delivers 3D volumetric images with exceptional detail that can lead to more effective identification of potential threats and increased operator efficiency."
www.gesecurity.com

Tirana Airport at Berlin Tourism Fair

Tirana International Airport (TIA) presented its achievements and potential for growth at the world's leading travel trade show, the International Tourism fair in Berlin (ITB). The airport had found this international media event a valuable instrument in promoting its potential and attracting international attention towards Albania. The year 2008 was very successful for the Airport in terms of passenger numbers, air traffic movements and cargo handled. It served 1,267,041 passengers, recording further impressive growth at one of the best infrastructure facilities in the country. The Airport recorded 19,194 air traffic movements last year, and handled 1,987 tons of cargo. In comparison with the previous year, passenger numbers increased by 14.6 %, ATMs by 5.1 % and cargo by 17.2 %.
www.tirana-airport.com

Schulte New Chairman of Fraport's Executive Board

Fraport's supervisory board appointed Dr. Stefan Schulte (age 48) to a five-year term as the company's new executive board chairman (CEO) effective 1 September 2009. Currently the company's executive board vice chairman, Schulte will take over from Dr. Wilhelm Bender who will turn 65 in early August and reach retirement after more than 16 years at the helm of the airport company. Karlheinz Weimar, the supervisory board chairman of Fraport and Hesse minister of finance, announced the appointment following a supervisory board meeting. Newly elected to the executive board is Peter Schmitz (age 58), who currently is senior executive vice president for ground services. The change of leadership also involves a redistribution of responsibilities among the executive board members.
www.fraport.com

Access Control for Knock Airport

Ireland West Airport Knock has chosen Salto's XS4 access control system to provide advanced security management. Knock is Ireland's fourth international airport and features modern passenger and commercial facilities as well as extensive aircraft operation areas. Operating 24 hours a day, 7 days a week and servicing in excess of 629,000 passengers per year, the Airport is the main international air access gateway for the West, North West and Midland regions of Ireland. Property Manager Tomas Grimes said: "We are delighted to welcome the Salto Systems brand to Ireland West Airport Knock. Following the completion of our new terminal building we wanted to update and modernize Airport access control system security and felt that Salto Systems offered the best solutions and mechanics, namely its aviation leading XS4 Mifare smart card access control system. We look forward to roll out this security system throughout the Airport and building a long successful relationship with them."
www.saltosystems.com
Ifsec, Hall 4, Stand C120

Operating System for Electronic ID Cards

Giesecke & Devrient (G&D) has developed a second-generation operating system for electronic travel documents – the „Starcos 3.3 Passport Edition". It meets all ICAO and EU requirements and offers high security, speed, and a memory capacity, which allows for the storage of high-end applications for e-passports and ID cards. The system also offers a new contactless secure writing mechanism to protect the electronic document against unsuccessful updates in the usage phase. It supports all available speed variants for contactless operations, and is CC EAL 4+ certified by the German Federal Office for Information Security (BSI). Among the most convincing advantages of the system is its performance and stability: Independent tests have shown that it belongs to the fastest operating systems for e-passports in the world, while at the same time providing the highest degrees of security and interoperability with a large number of e-passport readers. The system also supports a new file system, which is able to manage up to 16 MB of memory and offers extended length commands to speed up read and write operations.
www.gi-de.com

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AIRPORT SECURITY

Security at Munich Airport

Thermal Imaging Cameras Help to Protect the Outside Perimeter

Munich Airport, officially named Franz Josef Strauss Airport, is located 28 km northeast of Munich, Germany. Munich Airport is the second busiest airport in Germany in terms of passenger traffic (34.5 million in 2008), after Frankfurt International Airport. It is the 7th largest in Europe and ranks number 28 on the list of busiest airports worldwide. Within just a few years, Munich Airport has become one of the major European aviation hubs. It is a driving force for jobs and growth within the region. And Munich Airport is preparing to expand even further. In order to increase the capacity from 90 to 120 flight movements per hour, a third runway is planned.

In 2008, for the fourth year in a row, Munich Airport has been named the winner of the ‚Best Airport in Europe' award in an international survey of 8.2 million passengers worldwide. The annual Airport Survey conducted by Skytrax, an independent, London-based aviation market research firm, is the largest international customer survey of airport quality standards. Passengers also ranked Munich number 5 in the worldwide rankings behind Asian hubs Hong Kong International Airport, Singapore Changi, Seoul Incheon and Kuala Lumpur airports in the Skytrax World Airport Awards 2008.

Safety at the Airport

Being among the world's top 5 airports means that international passengers rank Munich Airport extremely high with regard to items like waiting time before checkin and immigration, restaurant staff, retail assistants… Something which is probably not considered by passengers that are passing through Munich airport and filling out a survey, is safety. Travelers consider it to be obvious that an airport is a site where all necessary safety and security precautions are taken. ‚Passenger that are passing through Munich airport do not only need to feel safe, they have to be safe.', explains Mr. Edlbauer, Product Manager Video Surveillance at Munich Airport. ‚In order to achieve this we do not only have the necessary security personnel, such as walking patrols, in place. We also have installed a complete CCTV network. All together more than 1,000 cameras are monitoring critical areas of the airport. Cameras are not only installed inside the airport. We are also monitoring activities that are taking place on the outside perimeter of the airport. A giant area, since Munich Airport covers a surface of 1,560 hectares.' ‚If people try to gain unauthorized access, we want to be warned as early as possible. Therefore we are monitoring the outside perimeter of the entire airport. Although there is a fence going around it, we want to see what is happening as well. If someone wants to climb over or cut the fence, we need to know this immediately so that we can take the necessary actions to intercept the intruder immediately.'

Surveillance of the Perimeter Without Hindering Air Traffic

Seeing what is happening with CCTV cameras is not a problem most of the time during daytime. But during the night or in bad weather conditions it becomes a different story. CCTV cameras need light to produce an image. ‚The outside fences of the airport run parallel with the runways. The only points where we have light are some gates which can be used for emergency services if necessary. On both sides, this outside perimeter is a straight line of about 6 km each.' Installing lights to illuminate 12 km of fence line

is an expensive exercise. Costly civil works need to be carried out. Powering and maintaining the lights can even be more expensive. And at an airport, even other factors come into play. ‚The fence runs parallel with the runway, so installing too much light might confuse pilots. Therefore this is not an option. In order to see what is happening around the fence during the night, we had light amplification installed.'

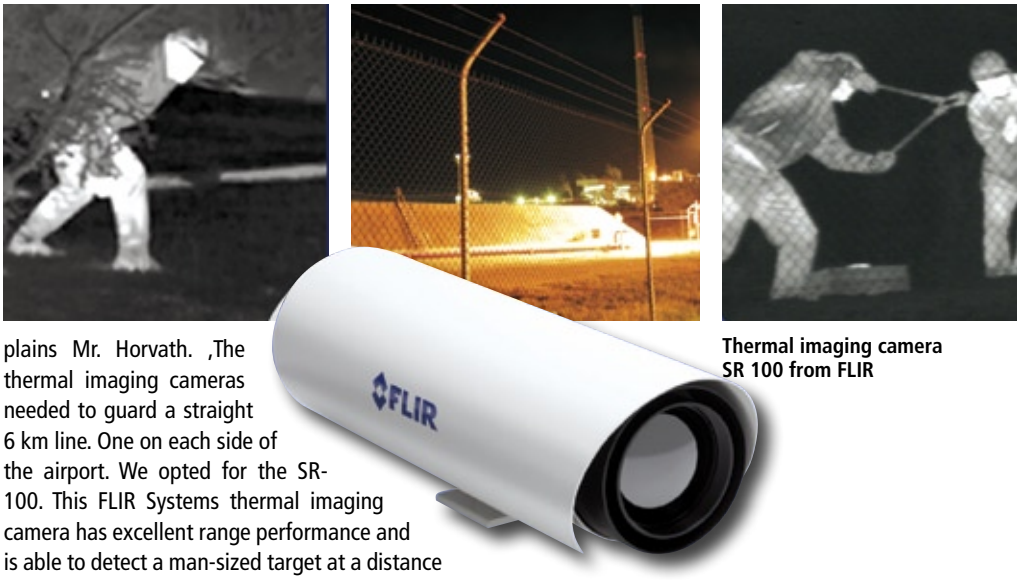
Light Amplification

Light amplification, also referred to as I2 technology, amplifies small amounts of visible light thousands of times so that objects can be seen at night. These systems scan an area and amplify the available ambient light to produce an image. Light amplification does require a certain level of ambient light, but even starlight can produce an image on a cloudless night. A high-end image intensified camera can produce outstanding images on a clear moonlit night. Because the system requires at least a minimum level of ambient light, conditions such as heavy overcast can limit its effectiveness. Similarly, too much light may overwhelm the system and reduce its effectiveness. ‚And that is exactly what happened here at Munich Airport.', Mr. Edlbauer continues. ‚When airplanes were landing or taking-off, their landing lights were disturbing the light amplification. When the light amplification system was ready for replacement, we decided to explore the market for other technologies as well. This is how we discovered thermal imaging cameras.'

Thermal Imaging Cameras

Thermal imaging needs no light whatsoever to operate. It produces a clear image in the darkest of nights. In practically all weather conditions. ‚We got in contact with Mr. Horvath from Dekom Security, a German distributor of FLIR Systems thermal imaging cameras for security applications, who demonstrated the system. The solution for Munich Airport was fairly simple.', explains Mr. Horvath. ‚The thermal imaging cameras needed to guard a straight 6 km line. One on each side of the airport. We opted for the SR-100. This FLIR Systems thermal imaging camera has excellent range performance and is able to detect a man-sized target at a distance of about 1.6 km. The FLIR Systems SR-100 presented itself as a good solution for our problem. It presents an excellent combination of range performance, image quality and price. In order to make sure that no threat goes undetected we decided to install FLIR Systems SR-100 thermal imaging cameras at each side of the airport',continues Mr. Edlbauer.

‚The SR-100 thermal imaging cameras have been installed, together with a CCTV camera, on a pan/tilt. This way we can look wherever we want. We seamlessly switch between de daylight and thermal camera. During daylight we are using the CCTV cameras. In low light conditions and in total darkness we switch to the SR-100 thermal imaging camera."



Thermal imaging camera SR 100 from FLIR

Thermal Imaging Cameras Let No Threat Go Undetected

Although they are mainly used in darkness, thermal imaging cameras are very useful during daylight as well. Potential intruders that are trying to hide in shadows are seamlessly detected by thermal imaging cameras. Thermal contrast is also extremely difficult to mask. People that are trying to camouflage themselves become clearly visible on a thermal image. ‚The images produced by the SR-100 are going over fiber optic cable to the control room. We can control the pan/tilt and look at the images on every screen or on the video wall. If a threat is detected we can take immediate action.' Just like at any major airport, assuring the safety of passengers, planes and their crew, airport staff and any other person that comes to the airport is a priority at Munich Airport. FLIR Systems thermal imaging cameras help to make sure that no threat goes undetected.

The FLIR Systems SR-100 is mounted on a pan/tilt together with a CCTV camera. The system is mounted on existing poles along the runway.

Thermal imaging produces crisp images in total darkness. It needs no light to operate.

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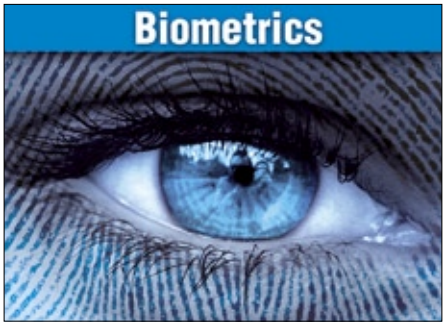

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COMPANY	PAGE
Abus Security-Center	40
Access IS	39
AD Group	45
AMG Systems	7
Apollo Fire Detectors	49, 52, 53
Arecont Vision	8
Winkhaus	44
Axis Communications	18, 26, Inside Front Cover
Basler	8, 35, 39, 46, 47
Bosch Security Systems	9, 32, 40, 41, 46, 50
BSIA British Security Industry Association	8
Bunker Seguridad	27
BWA Technology	36
C-Tec	7, 9, 12, 50
Certalarm	50
Comsoft	59
Dallmeier electronic	5, 29, 46
Deister electronic	1, 42
Detectomat	51, 54
Digital Identification Solutions	10
EADS	10, 12
Edis	7
Equitel,	45
EverFocus Electronics	19, 37, 40
Eyevis	12, 34, 41
FFT Future Fibre Technologies	7, 41, 59
Flir	60
Fraport	56, 59
Fujinon Europe	6, 40
G4S Security Services	8, 13
GE Security	59
Geutebrück	8, 45, 46
Giesecke & Devrient	59
HID	9
Intellio	8
Ioimage	8
IQinVision	11
KCA	42
Keso	55
Kingwave Technology	23
Kowa Europe	17, 46
Legic Identsystems	48, Outside Back Cover
Lenel Systems Intern.	7

COMPANY	PAGE
MEL Secure Systems	47
Merit Li-Lin	9, 10
Messe Essen	10
Milestone Systems	7
Mintron Enterprise	55
Mirasys	10, 40
Mühlbauer	8
Nedap Security Management	10
Nice Systems	7
Notifier	52
Novar Esser by Honeywell	52
NVT Network Video Technol.	47
Optelecom-NKF	7, 12
Panasonic	24, 45, Front Cover
Paxton	38
Pelco	12
Pixim	12
Raytec	47
Sagem	7, 57
Salto Systems	59
Samsung Techwin	15, 30
Sanyo Fisher	38
SeeTec	46
Sicurit Alarmitalia	33, 35
Siemens Building Technologies	40
Sony	28
Suprema	38
Tamron	38, 47
Telefunken Radio Communication Systems	37, 41
Tirana Intern. Airport	59
Transec Events	Loose Inserts
UBM Information	14, 38
VdS	12
Verint Systems	10
Videor	9
Videotec	11
Wagner Group	10, 52
Wiesemann & Theis	41

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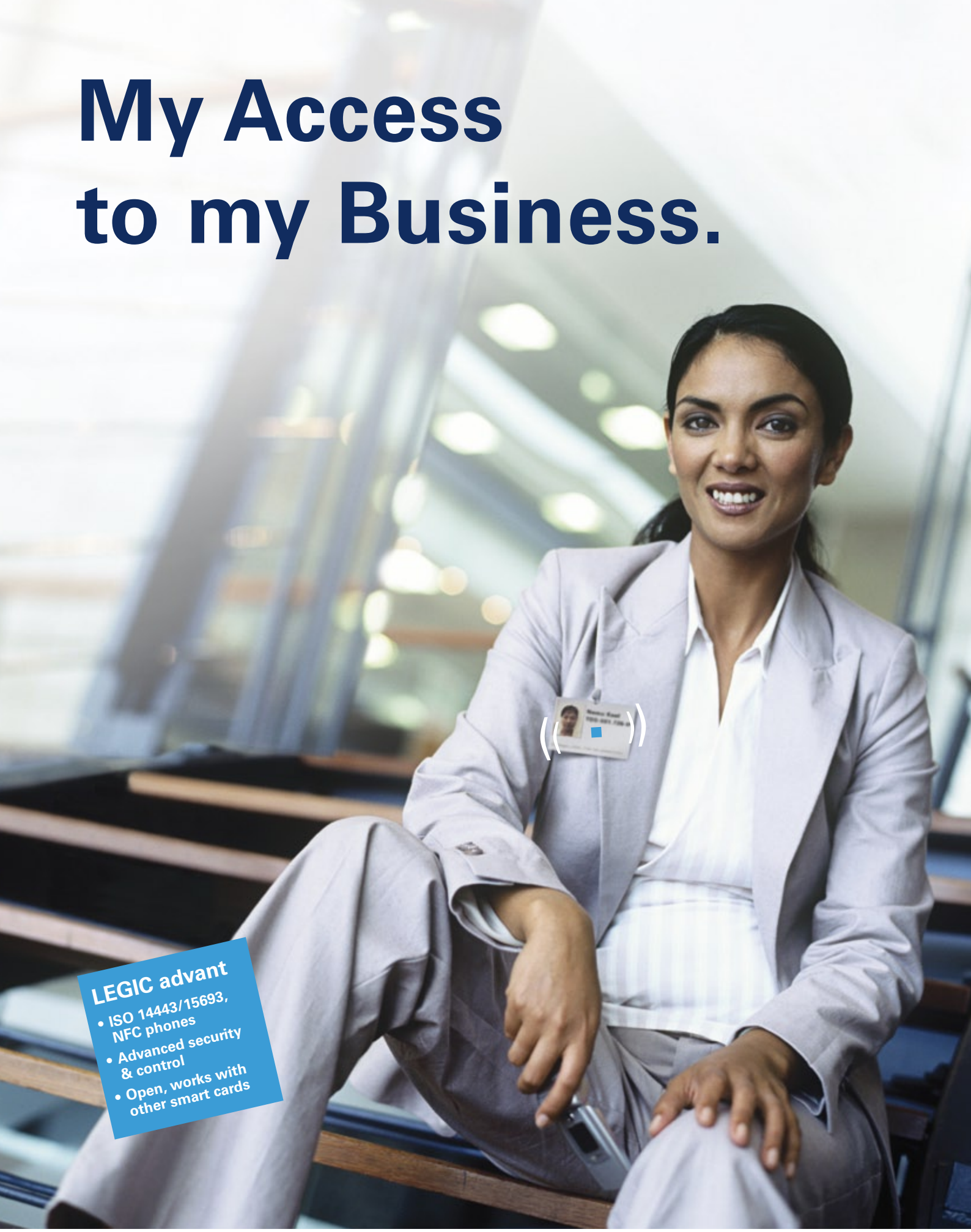

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