

Volume 5
March 2009

GIT
EMEA Edition

SECURITY

+ MANAGEMENT

2 MAGAZINE FOR SAFETY AND SECURITY

79 824



COVER: Basler Vision

Security for Casinos

Intrusion Detection

Fire Protection

Infosecurity

Thermal Imaging

Airport – Safety + Security

BASLER
VISION TECHNOLOGIES

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CAMERA: #436
LOCATION: NEW BRIDGE

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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COMMUNICATIONS

The Other Side

It was really not my intention to add just another editor's note to the already endless list of editorials about the economic crisis since I know well enough that you will probably read another two hundred comments on the crisis the next two weeks.

But while a friend and I were jogging last Sunday morning, he started to list all the things that improve during a crisis like this. It may sound cynical since most of us already are suffering from the economic downturn, but it seemed to me that some of his arguments did not only help us to through the wind and the rain on this lousy winter morning, but also seem to be true even the next day when I was sitting at my desk in the office.

The first thing that came up was the fact that under the economic pressure it is much easier to distinguish between business relationships that are reliable and those who only function when everything goes very smooth. For us it was good to see that the agency that works for our publishing house on the portals and our web page showed the same enthusiasm for our projects after we had to tell them that there is a delay in the approval of the budget for the next financial year. Their attitude reflected that they are reliable partners and finally they did get the order for two new projects. On the other hand we all have to accept that some of our former business 'partners' have forgotten our names very fast since times have been getting tougher.

At a first glance a difficult market environment seems to affect all companies. But when you have a closer look, there are good chances for dynamic companies.

With a lean management it is possible to expand faster into new markets that in normal



times are well defended by the top dogs and their sheer market power.

Although my running mate works in the medical and not security business, we both agreed that in the long run in all branches there are some market player's that really deserve to be punished by the market and will disappear. Bad service, old-fashioned products, short-term thinking and a small-minded marketing are heavy burdens when you run up a hill. Thinking about this, both of us immediately had one of our competitors in mind. And believe it or not, our thoughts about the crisis finally ended with a smile on our faces...

Keep your head up high and enjoy reading this issue! Best wishes from the team of GIT Security + Management

Heiko Baumgartner

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The RFID Company



From Machine Vision to the Security Market
Ultra Compact Megapixel IP Cameras

Basler Vision Technologies, a German-based company, has a background in the machine vision market. They are one of the largest suppliers of digital cameras to industries such as semiconductors, electronics, print and paper, food and beverage, postal sorting, factory automation, and traffic control. In all of these markets, Basler is known for the highest image quality, ease of use, and reliability. **14**

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"Rien Ne Va Plus!"

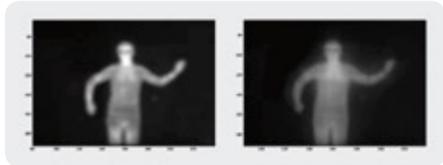


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Have a nice evening...

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Multipix UK Distributor for Sanyo

Multipix Imaging have been officially appointed as a Sanyo distributor for UK and Ireland. This extends the product portfolio that Multipix Imaging is offering to OEM and System Integrators, which includes IP cameras, domes, DVR/NVR's, lenses, lighting, switches and repeaters. Although the company has a focus on IP products, the range also includes the very latest in analogue auto-focus zoom cameras and PTZ domes.

www.multipix.com

STAC Approves L-3 Explosives Detection System

L-3 Security & Detection Systems announced that their Examiner SX explosives detection system (EDS) has been approved by the Service Technique de l'Aviation Civile (STAC), the engineering department of France's aviation regulatory agency, for compliance with the European Union Commission Regulation Standard 3. STAC tests and approves the performance of systems and equipment contributing to aviation safety and security. Using 3-D Continuous Flow CT technology from Analogic, the system generates high-resolution 3-D color images in real time. Advanced image enhancement and threat assessment tools, including 360-degree rotational views of entire bags and individual threat objects, enable operators to quickly and confidently inspect aircraft-bound baggage.

www.L-3Com.com/SDS

Intellio for Hugo Boss Zagreb

The security system of Hugo Boss store in Zagreb is equipped with intelligent retail functionality developed by the Hungarian manufacturer Intellio. Debuting in the fashion industry, the intelligent security system not only sends alerts in case of security events, but it is also capable of tracking customers' paths and counts traffic inside a retail facility.



The system installed for Hugo Boss Zagreb is in one part a security and another part a marketing tool for retailers. The solution combines retail and security services on the same platform and infrastructure.

www.intellio.eu

Preventing Acts of Piracy

A high-level meeting in Djibouti has been convened by IMO to help address the problem of piracy and armed robbery against ships off the coast of Somalia and in the Gulf of Aden. The meeting was opened by IMO Secretary-General Efthimios E. Mitropoulos, and the Prime Minister of Djibouti, Mr. Dileita Mohamed Dileita. It was expected to conclude and adopt a regional agreement to assist countries in the region to build capacity to suppress piracy and armed robbery against ships in the Western Indian Ocean and the Gulf of Aden. The event followed from earlier regional meetings, including the Subregional seminar on piracy and armed robbery against ships and maritime security held in Sana'a, Yemen, in April 2005; the Follow up sub-regional workshop on maritime security, piracy and armed robbery against ships held in Muscat, Sultanate of Oman, in January 2006; and the IMO subregional meeting on piracy and armed robbery against ships in the Western Indian Ocean, held in Dar es Salaam, United Republic of Tanzania, in April 2008.

www.imo.org

Genetec and HID to establish Distribution Partnership

Genetec has partnered with HID Global to provide a full line of Fargo brand card printing solutions for its IP access control solution, Synergis. Genetec, a long-standing OEM development partner of HID Global, will now carry the HID Fargo brand's full line of card printers and associated supplies and accessories. This will complement Genetec's existing offering, which includes HID's full line of Edge and VertX Network Access Control solutions, cards and readers.

www.genetec.com



Pelco to Exit Access Control Business

Pelco President and CEO Dean Meyer announced that his Company "has initiated the necessary planning to exit the electronic access control (EAC) business with our Intelli-M product line. This decision requires that we explore the options to sell or spin-off the Intelli-M EAC business, as well as to close the EAC business in its entirety." He stated that "as the general economic outlook continues to worsen and as forecasts call for a prolonged challenge throughout 2009, we as a company are forced to continually adapt to market demands." According to management, employees impacted by this decision have been informed, and those placed on lay-off status will be offered severance, outplacement and counseling services.

www.pelco.com

Building of the Year Awards for Salto

Two hotel projects in Bulgaria, the Hotel Metropolitan-Sofia and the Park Hotel Pirin-Sandanski, have won awards in the 2008 Building of the Year contest for their advanced Salto Systems access control installations. The Building of the Year awards ceremony, held at Sofia's



Ivan Vazov National Theatre and broadcast live by Bulgarian National Television, is sponsored and organised by Euromarket Construction and recognises excellence in the field of construction and architecture in Bulgaria.

www.saltosystems.com

Videotec Appoints New Vice President

Gianni Viero is the new VP of sales for Videotec in USA. He is based in the Company's US subsidiary located in Totowa, NJ and will be responsible for the customers in North America. Gianni Viero has been with the Company for almost twelve years in the position of country sales manager for UK and Eastern Europe, where he gained extensive experience of the market. i holds a Bachelor in Political Science from the Bologna University and a Master of Business administration. Enrico Dani, sales director at Videotec Spa, Italy Headquarters says: "Gianni is a well-experienced, skilled sales manager with a great focus on customer needs. Gianni will continue the process of setting up a complete sales network in the US."



www.videotec.com

Seetec Increases Market Penetration in EMEA

According to the results of the recent IMS report from November 2008, Seetec has been successful in achieving a stronger position in the EMEA region; improving its market position with a market share of around 20% and moving up into second place within the sector of pure software manufacturers. According to the Company's management, this is a confirmation of it's strategy of striving for technology leadership in the Full IP Video Management sector. In this regard, the support of a large number of cameras and hardware products from all the leading manufacturers, together with a high depth of integration, are of extreme importance for the Company. As the trend shows, the Company says, IP video is no longer just a technologically ambitious niche market but is an accepted standard within the video surveillance industry.



www.seetec.eu

Ioimage Names New CEO

Ioimage announced that Zeev Farkash, VP of Global Sales and Customer Services, has been appointed Chief Executive Officer. Mr. Farkash replaces Roni Kass, the Company's founder and CEO who has taken on the role of President in order to focus more on strategy, corporate vision, and long-term growth. Under Mr. Kass' direction, the Company has grown from its inception in 2000 to become the world's leader for intelligent cameras and encoders with over 37% of the market (according to IMS), operating in 35 countries with more than 100 partners. Mr. Farkash has over 14 years of experience in business development, sales and marketing in the security and surveillance fields, as well as in semi-conductors, IT and communications.



www.ioimage.com

Samsung Techwin: Three-year Warranty on CCTV Products



Samsung Techwin has announced a three-year Warranty on all its CCTV products. "Our products are highly reliable and we are pleased to pass on the benefits of this reliability to our customers," said James Smith, Marketing Manager for the Company's European professional security division. "In itself this extension to our warranty terms is significant but it also complements a whole raft of added value services that we have recently introduced to support our product range. In the event that something does go wrong, we offer a five-day turnaround promise for all product repairs to give our clients and end-users complete peace of mind."

www.samsungcctv.com

Joel Schaffer Product Management Director for Mace

Mace Security International has hired Joel Schaffer as its Security Division's Director of Product Management. Mr. Schaffer was previously the head of the product management function at GVI Samsung, and, prior to that, he managed a product line for the American Dynamics Division of Tyco Security Products. Mr. Schaffer will be responsible for directing the future growth of the Company's security product line.

www.mace.com

Video Analytics on the Camera

Iqinvision announced the release of a firmware upgrade that enables customers to run the complete suite of Viasys video analytics on the Company's Pro Line series megapixel network cameras. Today, most video analytics software products run on remote servers, not on the security camera. This approach requires high-resolution images to be streamed across the network and limits the number of video channels that can be analyzed. Running the Company's software for intruder detection, perimeter security, and alarming on its intelligent cameras minimizes the amount of video data sent over the network and substantially reduces the amount of processing the server has to handle.



www.viasys-iv.com



Seven-star Hotel Atlantis Protected by Traka

The new seven-star hotel Atlantis, Palm Jumeirah in Dubai, opened recently in spectacular style, and to much media acclaim. Behind the scenes, it is the proven and highly versatile Traka L Series systems that are being used to provide effective management control of keys and to monitor the access to, and utilization of, assets and equipment throughout this hotel. Coinciding with the opening, Managing Director John Kent was part of a UKTI Trade Mission to the Middle East and Dubai, led by Lord Digby Jones.



www.traka.com

Comnet Names New Business Development VP

Communication Networks of Danbury, Connecticut, doing business as Comnet, has hired Bruce M. Berman to be Vice President of New Business Development. He will be responsible for the company's entry into new markets. Markets such as factory automation and industrial control, electric power transmission and distribution, and transportation and infrastructure provide opportunities that hold great potential for fiber optic transmission products, and Berman will be charged with focusing the product sales within them. Berman held the role of Transportation/ITS and Infrastructure Sales Manager for the former IFS before it was absorbed into GE Security.



www.comnet.net

BSIA Guide to Access Control

The British Security Industry Association (BSIA) has published a guide to aid decision makers in the application of access control systems, which covers the use of such systems in offices. "The average office is not only made up of staff who will be there on a daily basis, but also visitors and other non-permanent staff who will require access to specific areas at specific times," says BSIA Access Control Section Chairman, Mike Sussman. "Access control systems offer a versatile and cost-effective way to regulate entry to premises. The guide covers the principles and application of access control, as well as providing practical examples of its successful use in offices."



www.bsia.co.uk/accesscontrol

Apollo Fire Detectors for £43 Million Office

Fire detection from Apollo Fire Detectors has been specified for a new £43 million commercial development in London's West End. Once completed, 8 Fitzroy Street, W1 will become the London base of Ove Arup, the global firm of designers, engineers, planners and business consultants. The contract to supply the building's fire system, which is being installed in two phases, was awarded to Titan Fire & Security. Tony Tutton, Business Development Manager, says: "Ove Arup is a very important client for us and the project had very strict requirements. A fire system based on Apollo's Discovery range was specified which provided a flexible and fully compatible solution." The Discovery range allows for the provision of different levels of sensitivity depending on the needs of the space to be protected.



www.apollo-fire.co.uk

IndigoVision Protects Penang Island

IndigoVision's complete end-to-end IP Video technology is at the heart of a new integrated public safety system on Penang Island. Its capital Georgetown attracts many tourists and as with other city centres around the world it faces a complex security environment, including criminal activity and traffic issues. The new CCTV surveillance project was designed and installed by the Company's local Approved Partner Cyberguard Systems for the Municipal Council of Penang Island. The system consists of 31 PTZ dome cameras connected via a wireless IP network monitoring the whole of the Georgetown area. The cameras are focussed on crime and traffic hot spots such as tourist areas, banks, petrol stations, traffic intersections and commercial centres. www.indigovision.com



NVT Expands European Customer Support

Network Video Technologies (NVT) has appointed Catrina Trim to the role of EMEA Sales Coordinator. The new role will see her supporting the company's customer base throughout Europe, the Middle East, Africa and Russia. Commenting on her new position: "My core objective is to help customers achieve the multiple cost and performance benefits." www.nvt.com



Milestone Expands Partner Program

Milestone Systems strategically builds new facets into its global business model. As of 2009, the Company is extending the Channel Partner Program to four levels of expertise, performance, and support: Bronze, Silver, Gold and Platinum. These achievements are reached and rewarded through the certification training, lead management, earning incentives, implementation successes, and participation at the bi-annual Milestone Integration Platform Symposium (MIPS) events. In addition to the extended Partner Programs, the Company is also instating procedures in the indirect sales model that will provide greater transparency between the company and end users. www.milestonesys.com



Central Europe Organisation for Lenel

Since January 1st, 2009, Lenel Systems International created a new sales region for Central Europe. This new European region includes Germany, Austria, Switzerland, Netherlands, Belgium and Luxemburg. Frank Kuijpers is promoted to the new position as Director of Central Europe. This is a new region that is split out of the Northern & Eastern Europe region lead by Lars Pedersen, and a small part of the France & Belgium region lead by Claude Azzarello. www.lenel.com

Fire Protection for Prisons

Xtralis announced that its Icam aspirating smoke detection system is being used by Her Majesty's Prison (HMP) Service to protect prisoners and staff at 35 prisons throughout the United Kingdom. HMP manages more than 130 prisons in England and Wales with a population of more than 81,000 inmates. Delivered in conjunction with the Company's partner Eurofyre, HMP has deployed the early warning fire detection units with vandal-resistant sampling points. Smoke and fire can be detected and investigated immediately and appropriate suppression methods deployed. "The advantages of having an ICAM sampling point in every cell is that fire detection and response can be initiated quicker, and the systems are vandal resistant," explains David Davies, director of Eurofyre. www.xtralis.com

Hikvision Provides Security for Tejarat Bank

Tejarat Bank chose to use DS-8000HCI-S series Network DVR from Hikvision Digital Technology. In total of 1000 sets DVRs are installed in all the banks located in major cities of Iran such as Masha, Rasht, Esfahan and Shiraz. Tejarat Bank is one of the biggest banks in Iran. With over 2,000 branches maintained throughout Iran, the bank needs to provide convenient services every day to hundreds of people in different locations, and to create a secured environment to safeguard customers, employees, and assets. Considering the branches are located in different cities, a centralized surveillance platform that supports high quality video recording and high-definition playback is highly required. It will enable security staff to easily get to know the security status in real-time, as well as to tackle against theft and crime externally and internally. www.hikvision.com



L-3 Develops System to Detect Shielded Nuclear Material

L-3 Security & Detection Systems has been awarded a contract by the US Department of Homeland Security (DHS) Domestic Nuclear Detection Office (DNDO) to develop a secondary inspection system to clear or detect nuclear material in containers that do not pass primary inspection. The contract, which was awarded under the Shielded Nuclear Alarm Resolution (SNAR) program, has a total value estimated at US-\$8.5 million. Using the Company's material discrimination expertise and detection algorithms, this relocatable system will identify isotopes of nuclear material. This enables the system to distinguish between normal cargo materials and real threats, ensuring that containers with well-shielded and well-masked threats are not cleared for acceptance. www.L-3Com.com/SDS

Pelican Acquires Hardigg

Pelican Products announced the acquisition of long-time competitor Hardigg Industries, a manufacturer of roto molded protective cases. The transaction is valued at approximately US-\$200 million. Pelican Products was supported in the acquisition by the New York and San Francisco based private equity group Behrman Capital. Collectively the new entity will employ more than 1,500 employees. Pelican Products will operate in 12 countries, have 22 offices globally and maintain six manufacturing locations throughout Europe and North America. It is well capitalised for future growth and will drive to a half billion US-\$ of revenue over the next few years. The Hardigg brand name will continue to identify the company's roto molded shipping cases. www.peli.com

Comnet Expands Global Footprint

Comnet, announced the opening of its first international office. Comnet Europe Ltd has been opened in Leeds, UK. This office will support the Company's efforts in Europe, the Middle East and Africa. This office will contain the administration, sales, technical support, and customer care functions for that area. In addition, the Europe facility will stock and distribute the firm's products for Europe, the Middle East, Africa and Asia. This will significantly shorten delivery to customers through out the region. Comnet Europe will focus on providing connectivity and communications network solutions to the Security, Intelligent Transportation and Factory Automation/Industrial Control Markets. www.comnet.net



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Samsung Techwin Appoint Product Manager

Samsung Techwin's Professional Security division has appointed Peter Ainsworth as European Product Manager. Peter joins Samsung Techwin having spent the previous thirteen years working for Norbain where for the last eight years he was Vista Product Manager. Commenting on his appointment, Peter said: "The innovative new products which Samsung Techwin will be launching over the next twelve months are specifically designed for the professional security industry and will underscore our position as one of world's leading CCTV manufacturers. I am very much looking forward to being part of the team that will bring these exciting new products to market." Peter's role will include working closely with Samsung Techwin's customers to identify market trends to ensure the company's roadmap reflects market requirements. www.samsungcctv.com



God's Voice in Ottawa

CCTV solutions from Dedicated Micros including DVRs, and the latest Transvu mobile technology, are at the heart of a Proactive Audio-Video (PAV) surveillance system helping to protect the public parks, swimming pools and other areas of the Canadian capital city, Ottawa, from the safety and security issues caused by vandalism, drug use, drinking, graffiti and other inappropriate activities. A real-time video feed to the city's 24-hour operations centre enables security operators to assess the situation and verify the alarm before diverting first response personnel to take action. A loudspeaker system allows security to call the site and direct the person(s) to leave the area, informing them that they are under surveillance – called by some the "Voice of God." www.dedicatedmicros.com



Videor with 2008 Vision Award for EMEA

Videor is the recipient of an Aimetis 2008 Vision Award as Distributor of the Year for the EMEA Region. The award is in recognition of the company's exemplary sales performance together with an innovative and consistent approach to promotion and support of the Aimetis brand and products. Videor was selected from a peer group of Distributors serving more than 60 countries around the globe. „Being awarded the 2008 Aimetis Distributor of the Year title confirms to us that we are meeting the needs of our customers with an outstanding offering of IP-based video surveillance products”, expressed Michael Haas, General Manager, Videor E. Hartig GmbH. „We are optimally positioned to not only help customers make the transition from analog CCTV to IP video management, but are also able to provide video analytics, which is an increasingly important aspect of video surveillance solutions. By offering surveillance software in combination with competent advice and other value-added services, Videor is a specialist in providing intelligent video surveillance products for a variety of applications.” “The Aimetis Vision Awards recognize the incredible value our channel partners bring to the ongoing success of Aimetis,” said Marc Holtenhoff, Aimetis Chief Executive Officer. Videor has demonstrated that they share in our vision for delivering high performing, cost-effective and easy-to-use solutions that allow end-users to migrate from analog CCTV to intelligent, IP video surveillance at their own pace. It is a privilege to recognize their dedication and success.” www.videor.com



Michael Haas, Videor



Marc Holtenhoff, Aimetis



Voice for UK Supervision Sector



The British Security Industry Association has hosted the inaugural meeting of its Leisure Industry Security Section, giving a formal voice to the door supervision sector in the UK. BSIA Chief Executive, John Bates, comments: "Door supervision is an immensely important area of the private security industry and since the regulation of the sector, levels of professionalism have heightened considerably. The BSIA is delighted to welcome a number of the leading companies into membership and is looking forward to using its extensive expertise and experience to tackle the issues that face the sector and improve best practice." The founding members of the Section are: Phoenix Security UK, Regency Security Services, Security Specialist Group, and UK Security Facilities. www.bsia.co.uk

Cummings Assumes Asis Presidency

Michael R. Cummings, CPP, has advanced to the presidency of Asis International. Cummings has been in the security field since 1973. He spent the first 12 years in retail and has practiced in health care since 1985. His current position is Director of Loss Prevention Services for Aurora Health Care in Milwaukee, Wis. He has served in this position since 1987. Cummings sees both challenges and opportunities for Asis International and the security profession in 2009. "In addition to responding to the protection needs of our organizations in light of the macro economy, a growing reality is the overall complexity of the world we live in relative to security," he says. To meet the needs of the ASIS members, he sees the need to be creative in partnerships and development of resources. "Establishing both formal and informal relationships with like-minded organizations is one approach," he adds. www.asisonline.org



Partnership of Legic and PYV for Spain

A new partner agreement will give end-users on the Spanish market access to a variety of multi-functional solutions covering access control, time & attendance, IT access and biometric applications, using Legic's contactless smart card technology for personal identification. Legic Identsystems has signed a licence agreement with PYV, leading system integrator for time and data control solutions in Spain. End-users will benefit from this partnership by getting access to a large range of advanced contactless Legic based solutions. This partnership supports Legic's strong development in Spain. PYV has a broad solution portfolio which will be further strengthened by integration of the Legic contactless smart card technology. In the future, the system integrator will be enabled to introduce Legic based solutions at its customers. These solutions allow the combination of many different functionalities in the field of access control, time & attendance, IT access and biometrics on one single credential. "This partnership will lead to the development of cutting-edge contactless solutions, utilizing the presence that PYV has in the Spanish market", said Dr Otto Eggimann, Vice President Sales & Business Development of Legic. www.legic.com



Alberto Santabárbara, Director Commercial of PYV, is looking forward to a fruitful partnership.



TRADE SHOW

Meeting in Moscow

A Civil Security Exhibition Joins an Established State Event

The first ever 'Security Russia' event will take place in Moscow between 27 and 30 October 2009 together with the 'Interpolitex' exhibition.

A cooperation agreement was signed between the Messe Essen and the Russian event organizer Bizon during the recent 'Security' exhibition in Essen.

The creation of the new event at the All-Russian Exhibition Center is well justified as some sectors of the Russian security market are growing at a phenomenal 35 percent annually. "We provide our exhibitors an excellent opportunity to make serious new contacts with the Russian market and to develop existing ones," commented Egon Galinnis, Director of the Messe Essen, on the significant potential that participation in the Security Russian event will offer to internationally oriented companies in the security and fire protection industry.

A number of Russian state authorities support the Interpolitex and international organizations such as NATO and Interpol will be present too. In fact, this event is the only security gathering that enjoys state recognition and is presented by official decree of the Russian government. This solid presence provides an ideal platform on which to base the new civil-based 'Security Russia' event.

Mutually Beneficial Partnership

According to Galinnis, they have found the ideal partner in Bizon, the Russian exhibition organizer that has already arranged the Interpolitex for the last twelve years. "The combination of the Security Russia and the Interpolitex events provides the best starting conditions for our new foreign project." While the 13th international Interpolitex event concentrates on technologies and equipment for state security, the simultaneous Security Russia event will handle all aspects



of civil security. Visitors will be able to view the latest developments in, amongst others, building fire protection, fire alarms and detection systems, intruder alarm and control systems, personal protection equipment, document and property protection devices, special vehicles and equipment together with terror and catastrophe protection.

"This is an ideal complement to Interpolitex which, with 50,000 visitors and over 500 exhibitors, ranks amongst the most important events for state security in Europe," said Oleg Werner, Deputy Director of Bizon at the signing of the agreement. "Together with Security, the leading international civil security exhibition, we make a strong team." Apart from the rapidly increasing general market demand, Werner also sees the

2014 Winter Olympics in Sochi as a significant business driver. "Security technology is in great demand in Russia, and of course also in conjunction with this world event."

Founded 70 years ago, the All Russian Exhibition Center in Moscow now hosts 150 exhibitions annually, around 30 of which are international. Visitors and exhibitors alike can choose from a comprehensive list of services, backed by an experienced organizing team.

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EVENT

The Security Industry Gathers in Moscow

MIPS 2009



In April every year, key members of the security industry in Russia and the CIS gather to discuss trends in the industry and test out the latest offerings from domestic and international suppliers. The venue for this annual gathering is the Moscow International Security and Safety Exhibition – MIPS. MIPS was launched when the Russian security market was in its early stages of development and since then, it has mirrored the dynamic growth of the industry.

In 2008, MIPS grew by over 28% – a sign of the huge increase in demand for security systems in Russia over the last few years. The threat to property, industrial sites, banks, educational facilities and transportation is rising from all sides. Meanwhile, the technical competency of Russian criminals is growing and terrorist activity continues to be a major concern. These factors, along with a more general rise in concern about securing personal property, have led to a greater interest in preventative measures.

The Russian Security Market

Ilya Sobolev, Senior Event Manager for MIPS believes that international companies are identifying many new opportunities in the Russian security market. "Russia has a very dynamic security market at the moment. International companies can make huge gains if they can identify and act on opportunities when they arise. This is where MIPS can help. By discussing the market with those who have a deep understanding and experience of the security industry in Russia, our participants can be one step ahead of their competitors."

The profile of MIPS has changed over the last 15 years, reflecting the Russian security industry.

This year, the event will be split into six major sectors: CCTV, alarms, access control systems, fire safety, safety at work and emergency and rescue. Mr. Sobolev explains, "These sectors have been introduced to ensure that exhibitors have the best opportunity to meet their target audience and to help visitors locate the companies that most interest them. Exhibitor feedback prompted this move and, so far, the response from our regular exhibitors has been extremely positive."

New in 2009: Cardex

Furthermore, for the first time ever, Cardex – the International Smart Card & IT Security Exhibition – will be co-located with MIPS 2009. The event will showcase a wide range of products and services, including plastic card production and personalisation equipment, software for electronic bank operations and network management, components for manufacturing various types of cards, bank machines, identification and authentication means, electronic signatures and biometric systems of image recognition. Cardex is a specialised forum, introducing the most recent achievements in plastic cards industry and the latest technologies for information security. The event will allow the visitors to see new smart card technologies, whilst enabling the exhibitors to gauge demand and explore possible partnerships in banking, insurance, telecommunications, social services, hotel and restaurant chains and state institutions.

The Russian security industry has a well-established network of distributors (many of whom are also installers and solution providers) who are placing large orders with international suppliers, particularly those who offer flexible, complex and specialised products, which are rarely available from local producers. This goes some way to explaining the significant international

interest in the event. In 2008, MIPS alone featured companies from 22 countries and national groups from China, Finland, Italy, Korea, Taiwan and UK. In fact, Russian manufacturers account for just 15–18% of MIPS participants, which reflects the demand for international products, seen to be more reliable and better quality than domestically manufactured products.

By co-locating MIPS & Cardex, the event will satisfy the cross-over of audiences from both industries, and all exhibitors will benefit from dedicated and joint promotion to maximise target publicity.

The exhibition has a further appeal – its event programme. A number of events are held alongside the exhibition, including seminars and the MIPS & Cardex conferences, which are attended by high-profile representatives from government bodies, industry associations and influential companies. The conferences are a great opportunity for delegates to find out about the latest government regulations regarding security issues and meet valuable new contacts.

This year, MIPS is celebrating its 15th anniversary and new sections have been introduced, which are Fire Safety & Fire-Fighting, Access Control Solutions & CCTV & Video Surveillance. A new pavilion has been added to accommodate the growing exhibition. The event will take place on 13–16 April 2009 in Pavilions 1 and 8 of Excenter in Moscow.

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EVENT

IIPSec 2009

This years IIPSec in Coventry was a good opportunity for security professionals especially interested in IP technology to see the latest networked technology and it's application within integrated security. The show and conference at the NAC Stoneleigh is certainly one of the few events where one can spend quality time with experts and were networking on a high level is possible. According to IIPSec Director Paul Hennings, the pressure of the global situation has taken its toll on the event but the exhibitors were once again extremely pleased with the quality of the visitors and delegates.

IP in Security Innovation Award 2009

During an award dinner at the Coventry Hilton Hotel the organizers of the show were delighted to announce and congratulate the IP in Security Innovation Award winners and finalists. The IP in Security Innovation Award Winner was SeSys with its Torch Camera. The product was also awarded the Winner of the Best of the Best IP in Security Award. The Torch Camera is a complete digital IP camera that is simple to install and use. Comprising a high resolution IP camera, storage module, smart router, a standard mobile SIM card and a battery, the camera is ready to go.

David Cawkell, Managing Director of SeSys Ltd, commented that these two Major awards received for the Torch Camera, confirmed that our market research with feedback from our customer base has justified the Product development.

The IP in Security – Software Award Winner was Dedicated Micros with its Emergency Messaging and Mass Notification System. It is a user friendly capability that enhances DM's NetVu system to incorporate emergency messaging & mass notification. In the category "Application Award Winner" CEM System's Heathrow airport Terminal 5 project was chosen by the jury. A large scale access control project using over 1,000 IP card readers with advanced smart card technology for the new terminal 5 at Heathrow airport.

The IP UserGroup Product of the Year Award was given to Mobotix for their Q22 360 Degree IP Camera. The elegant, ultra compact and weatherproof IP dome camera is offering a 360° allround view to capture an entire room, a panorama function and a quad view to show images from four different angles simultaneously, the Q22 can be used in all new scenarios.

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IP in Security – Software Award Winner: Dedicated Micros



CEM Systems was awarded for the Heathrow airport Terminal 5 project



Winner of the Best of the Best IP in Security Award: Sesys



Mike Lewis from Mobotix receives the Product of the Year Award from Andy Hennings

EVENT

Sicurezza and Sicurtech Expo as World Meeting Place

The exhibitions Sicurezza and Sicurtech Expo, encompassing a 4-day of business, professional update, training and technologies and closing today, made the point in the world of security and safety, having had respectively 563 exhibitors at Sicurezza (including direct exhibitors and respresented Companies), of which 193 from abroad, and 163 exhibitors at Sicurtech Expo, of which 35 from abroad, covering an overall exhibition area of 65,000 m². The exhibitions have been visited by 28,000 qualified professionals.

The greeting from the Chief of State Giorgio Napolitano fulfilled the success of the two exhibitions; he expressed his thanks for the aims and purposes of the international events that Fiera Milano Tech dedicated to the security and safety topics, highlighting how "this year's exhibitions will represent a useful opportunity in order to show in the appropriate way the most advanced solutions for health and safety at work and for security in the widest meaning, from places to the environment".

Security and Safety represent two sectors that in the period in which we live, characterised by insecurity, both global and local, are becoming more and more important. Flagship of the two exhibitions was the ability of presenting organically the cutting-edge innovations in these sectors, using an effective combined formula where the two events represent the innovation engines both for the products exhibited and for the conference offer.

Among the products displayed a system for safe escape in the event of a fire emergency, easily usable by everybody, including children, wireless alarm systems, innovative workwear clothing featuring unique technologies and classic products fully functional but presenting a brand new catchy design.

New Conference Focus

The presence of Institutions and of all the Security Forces had great relevance for the events, which have been visited also by the Undersecretary for Economy and Finance Luigi Casero: all the Security Forces involved carried into the exhibitions man and vehicles, instruments and cutting-edge technologies of recent application for the security of citizens, of the Nation and of

all the critical infrastructures, giving the professionals visiting the exhibitions the possibility to get a direct experience of the most interesting market novelties. Like the non-pollutant electric car, which enables to monitor the walking persons or the remote controlled plane inspecting the territory and controls its security.

"Sicurezza and Sicurtech – underlined indeed the Governor of Regione Lombardia, Roberto Formigoni during the opening conference – represent very important opportunities to learn how the technology evolutions related to the field of security and safety reach nowadays remarkable levels, and support the security sector reform that the Lombardy Regional Authority has implemented in these years on a wide territory comprised of more than 10 millions citizens".

The new conference focus of international interest was represented by the topical subject of Homeland Security, encompassing products, systems and services for global security, a theme which, declined in different frameworks, offered an opportunity for sharing experiences at National and International level, where the most advanced Countries in terms of this specific sector were invited to present their best products and systems

Safety and Security

In the very rich conference activity, one of the main actors has been, inter alia, the subject of health and safety at work: on the construction sites, in the transport of hazardous goods, in the industrial plants and in other critical situations.

In this sector, ASL Città di Milano organised very interesting conferences. The first one, promoted with IPA International Police Association, presented "Accidents prevention on construction sites. The training of the Police force engaged in accident prevention on construction sites"; the second, "Safety management in large scale construction work", organised together with Fiera Milano Tech.

Expressly in consideration of the high-status profile reached by the two exhibitions, Regione Lombardia held on the morning of 28 November, closing day of the event, The General Assembly for Security concerning the Region of Lombardy, which provided an opportunity for debate on the topics related to Civil Defence, Local Police and health and safety in the workplace

The next edition of Sicurezza and Sicurtech Expo will take place in fieramilano from 23. to 26. November 2010.

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CCTV

Becoming the Norm

Unpacking the Video Compression Toolbox

It's probably fair to say that few buyers of video security systems are experts in video encoding. And why should they be! It's enough to know that data need to be compressed and that there are different ways of doing it. What's important is to be able to recognise good encoding when you see it!

Whenever a new video standard is introduced a ripple of uncertainty goes through the security community and some manufacturers see an easy marketing opportunity among disconcerted buyers. So, if you are currently thinking: "Should I be demanding the latest standard?" "It's new, so is it better than previous ones?" or "Does that mean other standards will soon be obsolete?" then you should read on.

The first thing to realise about video encoding is that, contrary to what you might expect, a standard does not define the specific process which is used to encode the data. And just because two systems both use the same standard, it does not mean that the resulting video output is of equal quality or similar utility. In fact it varies very widely!

The Right Tool for the Job

Instead, it is much more helpful to think of each standard as a set of tools in a toolbox. Just as a carpenter might use a saw, a plane, a hammer, drills and chisels from his toolbox to make a piece of furniture, the developer uses tools from the video standard toolbox to create an encoding process. The carpenter is free to decide what he is going to make, which tools to use, how, and in what order. Similarly, the developer can encode for multi-media, mobile phone, cctv or other applications; he can choose which of the tools to use and how to use them. And, just as the utility and quality of the finished piece of furniture depends upon the design skills and craftsmanship of the carpenter, so the performance of an encoding process depends upon the specialist knowledge and expertise of the developer.

Each new video standard has a different selection of tools. Some tools are the same as in an earlier standard, or are upgraded versions of them. This might equate to the carpenter acquiring a new diamond toothed saw and a power drill. They enable him to work faster but they rely on the same creativity and skill. Some of the new tools are intended for specific purposes, so



Katharina Geutebrück,
managing director of
Geutebrück GmbH

whether they are useful or not depends on the product in view. Just as the carpenter is unlikely to see a soldering iron as a positive addition to his toolbox, the developer may not find mobile phone imaging tools much help in creating high quality cctv images. And a tool which delivers greater compression but also reduces image quality and processing speed may be better left in the box!

Seeing Is Believing

There are two important lessons that we can draw from all this: (1) That the performance of a CCTV system depends not on which video standard is used but on the skills of the developer. (2) That there are no 'better' video standards, only 'better' implementations.

So if you have not mastered the intricacies of H.264 or any other standard, there is no need to feel inadequate! Even for the encoding experts among us, judging a good implementation is about comparing performance in action and about using experience and professional judgement. It's about defining what quality criteria are important for the specific situations and tasks in your application, then getting suppliers to demonstrate how their systems perform. How many live screens can they support? Do they maintain clear sharp pictures when there is a lot of movement in the scene? Is there a significant delay or is the encoding fast enough to support normal speed dome control? Don't take anyone's word for it, ask to see it done. There is no substitute for real life demonstrations with footage and situations similar to your own.

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COVER

From Machine Vision to the Security Market

Ultra Compact Megapixel IP Cameras

Basler Vision Technologies, a German-based company, has a background in the machine vision market. They are one of the largest suppliers of digital cameras to industries such as semiconductors, electronics, print and paper, food and beverage, postal sorting, factory automation, and traffic control. In all of these markets, Basler is known for the highest image quality, ease of use, and reliability.

Before they launched their new IP camera series, Basler closely studied the surveillance market for several years. After being highly successful in cognitional markets, entering the IP camera market was an obvious strategic step. The company could easily transfer their core competence in digital camera technology to their new IP camera range. But during the market investiga-

tion and throughout the development process, it became obvious that the security market and its requirements are different in many ways. To overcome this challenge and to make sure that the product fully meets the specific needs of this market, Basler stayed in close contact with well-known security companies right from the start. As a result, they launched a powerful, ultra compact megapixel IP camera series with an excellent price/performance ratio.

A Basler IP camera is the right choice for applications that demand outstanding image quality and high performance, as well as a robust, sleek product design. This typically applies to the following areas: banking, casinos, airports, logistics, and traffic. The current Basler IP cameras are already equipped with basic analytic functions such as motion detection. And with more than 20 years of experience in image processing, Basler is well prepared for upcoming analytic demands.

What Makes a Basler Camera So Special?

Each camera in the Basler IP family is built into an ultra compact (89.8 mm x 44 mm x 29 mm) all metal housing, which makes them the smallest IP cameras in their class. A bundle of latest technologies tailors these cameras for excellent image quality and outstanding reliability. Another unique selling point is their outstanding performance and in particular, the flexibility of their image compression abilities.

Their scaling and Area of Interest functionality 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



Innovative Streaming Principle



MPEG-4/H.264

MJPEG (1)

MJPEG (2)

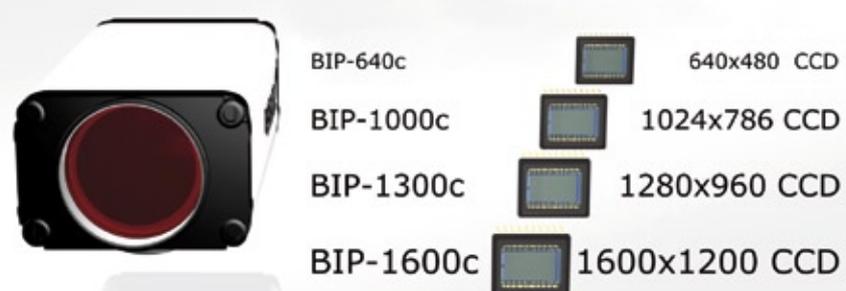
Dual-Encoding
&
Multi-Streaming
www.basler-ipcam.com


	Basler BIP-640c	Basler BIP-1000c	Basler BIP-1300c	Basler BIP-1600c
Image Sensor	1/3" Sony Wline progressive scan RGB CCD	1/3" Sony Wline progressive scan RGB CCD	1/3" Sony EXview HAD progressive scan RGB CCD	1/1.8" Sony Wline progressive scan RGB CCD
Effective Pixels	640 (H) x 480 (V)	1024 (H) x 768 (V)	1280 (H) x 960 (V)	1600 (H) x 1200 (V)
Frame Rate	MJPEG MPEG-4 H.264 Full Resolution: 30 fps 30 fps 19 fps D1 (720 x 480): 30 fps* 30 fps* 18 fps* (The maximum sensor readout rate is 71 fps) *scaled	MJPEG MPEG-4 H.264 Full Resolution: 20 fps 12 fps 7 fps D1 (720 x 480): 30 fps 30 fps 18 fps (The maximum sensor readout rate is 30 fps)	MJPEG MPEG-4 H.264 Full Resolution: 13 fps 8 fps 4 fps D1 (720 x 480): 30 fps 30 fps 18 fps (The maximum sensor readout rate is 30 fps)	MJPEG MPEG-4 H.264 Full Resolution: 8 fps 5 fps 3 fps D1 (720 x 480): 30 fps* 30 fps* 18 fps* (The maximum sensor readout rate is 14 fps) *by AOI
Pixel Size	7.4 µm x 7.4 µm	4.65 µm x 4.65 µm	3.75 µm x 3.75 µm	4.40 µm x 4.40 µm
Sensitivity	0.98 lux (F1.0 / 30 ms)	1.3 lux (F1.4 / 30 ms)	1.54 lux (F1.0 / 75 ms)	0.6 lux (F1.4 / 30 ms)
Lens (not included)	CS-mount, DC iris drive	CS-mount, DC iris drive	CS-mount, DC iris drive	CS-mount, DC iris drive
Image Settings	Automatic gain, exposure area, backlight compensation, white balance, electronic shutter, 180° image rotation, electronic PTZ via AOI (API), text overlay, privacy masks, motion detection			
Resolution	From 64 x 40 to 640 x 480 (free scaling), 4:3, 16:9, multiple Areas of Interest (AOIs)	From 160 x 120 to 1024 x 768 (free scaling), 4:3, 16:9, multiple Areas of Interest (AOIs)	From 64 x 40 to 1280 x 960 (free scaling), 4:3, 16:9, multiple Areas of Interest (AOIs)	From 64 x 120 to 1600 x 1200 (free scaling), 4:3, 16:9, multiple Areas of Interest (AOIs)
Video Compression	Motion JPEG: Multiple compression Levels MPEG-4: SP (Level 3), ASP (Level 5) H.264 (MPEG-4 AVC): Baseline (Level 3)			
Video Streaming	Simultaneous dual encoding for MJPEG and MPEG-4 or H.264, Multi-streaming for MJPEG, multicast and unicast, VBR and CBR for MPEG-4 and H.264			
Alarm Management	Ring buffer for pre and post alarm Events triggered by motion detection, external input Image upload over FTP, Email, or HTTP			
Protocols	TCP/IP, HTTP, UDP, ICMP, ARP, DHCP, NTP, RTP, RTSP, RTCP, SMTP, IGMP, UPnP			
Processor/Memory	600 MHz dual-core multimedia DSP, FPGA 128 MB RAM, 8 MB flash, battery backed-up real-time clock			
Power	PoE (Power over Ethernet IEEE 802.3af) or 7 to 20 VDC, power consumption is 5 W max at 12 VDC			
Connectors	Screwable RJ-45 connector for 10/100 BASE-T Ethernet, full or half duplex 6 pin Phoenix terminal for DC power, digital I/O and RS-232			
Operating Conditions	0° to 50° C (32° to 122° F), 20 % to 80 % relative humidity (non-condensing)			
Standards	FCC Class B, CE, RoHS			
Housing	89.8 mm x 29 mm x 44 mm (full metal casing)			
Weight	~230 g			

Specifications are subject to change without prior notice.

The Product Range – Basler offers a total of five different IP Camera models ranging from VGA to two megapixel resolution. Basler IP cameras are based on a selection of highly sensitive Sony CCD sensors.

Selection of Different Sensors - from VGA to 2 Megapixels



BIP-640c 640x480 CCD
BIP-1000c 1024x786 CCD
BIP-1300c 1280x960 CCD
BIP-1600c 1600x1200 CCD

frame, customers can set up what is 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 banks and traffic applications (see schematic).

Image Quality

In terms of image quality, Basler is drawing on over a decade of experience in designing and producing digital cameras. Basler employs a variety of quality inspection procedures while

manufacturing in a clean room environment. The back focal length on each camera is carefully measured and adjusted during production. This guarantees pin-sharp images at megapixel resolution. It also makes installation much easier because no manual back focal length adjustment is required. All Basler cameras are subjected to a complete calibration procedure and comprehensive final image quality testing.

Sales Partners

A qualified team of support and sales personnel is available in Basler's German headquarters and in the United States and Singapore affiliates. Basler products can also be purchased from professional, well-trained partner companies. Our intention is to work closely with a limited number of very qualified partners. This ensures

good regional availability in combination with value added support. Our distribution agreement with Videor, one of the leading providers of professional video technology, already covers several important target markets. Their distribution area extends through Europe, the Middle East, and Africa. In addition, Basler has regional partners in France (ADM21, AVC, IZEO), in Germany (Sanyo Vertrieb), in Italy (Advanced Technologies, Bridge 129, Eutekna), in the UK (Multipix Imaging), and in Spain (Unitronics).

Integration into Video Management Systems

Basler began teaming with leading VMS suppliers at a very early stage of development. Today, Basler IP cameras are supported by companies such as Aimetis, Artec Technologies, LuxRiot, Milestone Systems, Netavis, NUUO, Sanyo, Schille, Seetec, Video Insight, and others. Basler is continuously increasing the number of compatible software products and is driving forward the integration of camera features within each video management software product.

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PROTECTION

Thermal Imaging Cameras for Vision Enhancement and Increased Awareness

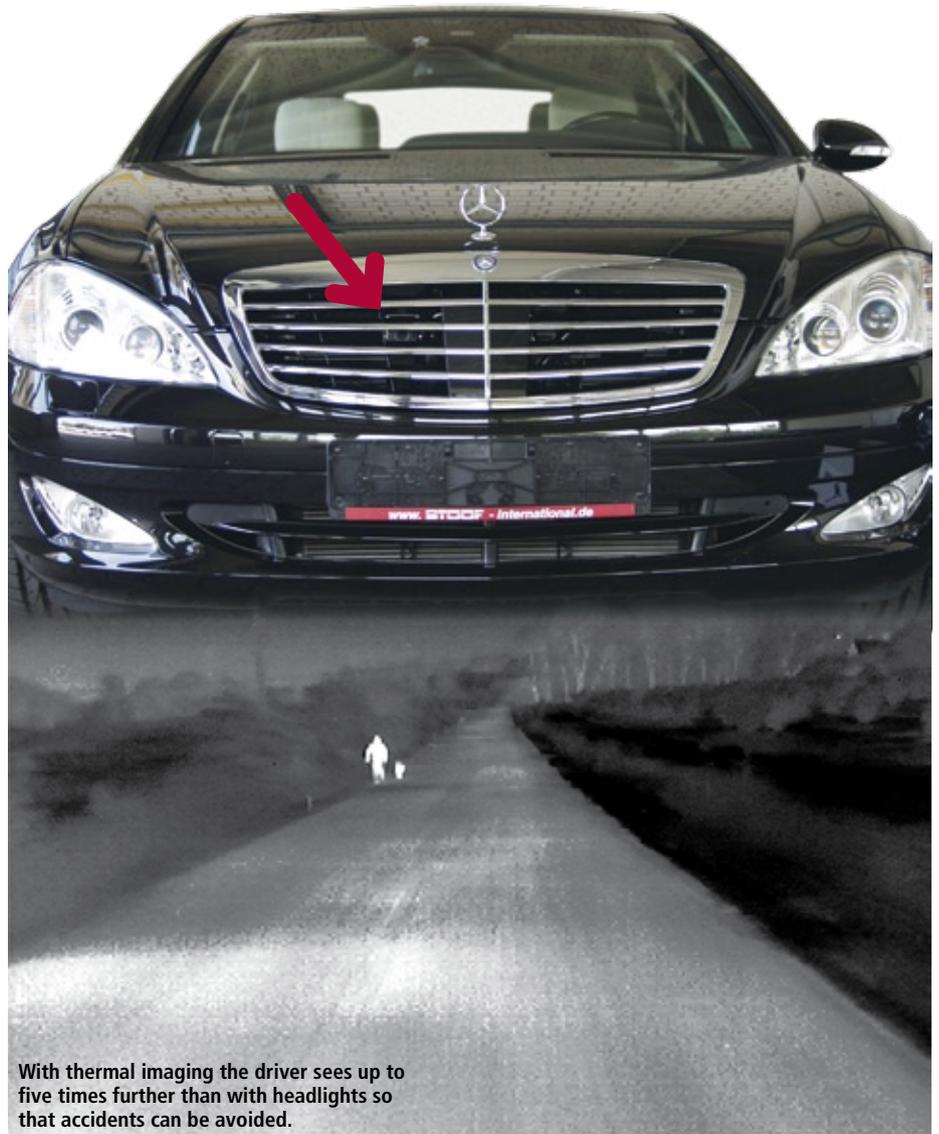
Extra Protection for Armored Cars When Driving at Night

Stoof International (www.stoof-international.de) was founded in 1865 by Karl August Stoof in Busendorf/Kanin, Germany. Starting with one of the earliest means of transportation, Karl Stoof established a workshop for the production of horse drawn wooden coaches. Today, Stoof International is located in Borkheide on the outskirts of the German capital, Berlin. Led by Mr. Fred Stoof, Managing Director, Stoof International is a worldwide-recognized leader in armored-vehicle production.

Civilian armored cars are in the majority of cases retrofitted versions of series cars. Windows are replaced with bulletproof glass and layers of armor are inserted under the outer skin of the car. Besides the armor itself, many other protective modifications are available: automatic fire extinguishers, run-flat tires, an explosion-resistant fuel tank, to name just a few. Therefore, armored cars are typically very safe for their occupants.

A Full Range of Armored Vehicles

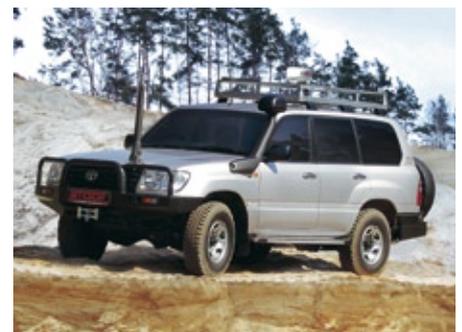
Stoof International manufactures armored saloons cars including designs based upon the Mercedes-Benz S500 / S600, BMW-series, Rolls-Royce, Bentley and Maybach to name just a few. All security limousines are manufactured to provide a level of resistance against modern day weaponry and technology incorporated into assault rifles, including hand grenades and Improvised Explosive Devices (IEDs) used in urban



The FLIR Systems PathFindIR installed behind the vehicle grid of an armored Mercedes.



The thermal images generated by the PathFindIR can be displayed on any multi-function LCD display that accepts composite video. In this case on an LCD integrated in the Mercedes dashboard.



Also vehicles used by NGOs can benefit from the power of thermal imaging

warfare or kidnapping attempts by terrorists or criminal elements. A Vehicle Resistance (VR) level will allow the occupants adequate time and opportunity to escape and survive a planned attack.

Stoof International's armored security limousines are internationally recognized and available in various levels of ballistic protection. Their main applications are prevention of street-crime and kidnapping, and security in high-risk war zones.

Stoof International is also a leading manufacturer of cash-in-transit (CIT)/ money transporters. Customized vehicles can be built upon request for international central banks and security companies providing these particularly high-risk value services.

Improving Safety

"It goes without saying that the first concern of our clients is safety and security.", says Mr. H. Klostermann, Stoof International Research & Development Department. "But a lot of them are also looking for very luxurious cars. That's why we are using cars like Mercedes and BMW, to name just a couple, as a basis for our armored vehicles. We are constantly looking for new technologies that we can implement in all our types of armored vehicles. Everything that can help our customers to be even safer when driving their armored cars is evaluated. One of our recent innovations is the installation of a FLIR Systems PathFindIR thermal imaging camera in some of our models. The same module is today already being installed on selected BMW 5-, 6- and 7-series models."

Thermal imaging cameras need no light whatsoever to produce a clear image on which the smallest of details can be seen. They produce a comprehensive image based on the subtle differences in heat radiation of objects and people. Even when these temperature differences are sometimes minimal, a thermal imaging camera will detect them and transform them into a crisp image. Thermal imaging cameras are not affected by light and there is no risk that the driver is blinded by oncoming headlights or other light sources.

Thermal imaging cameras are excellent tools for driver vision enhancement. They produce a clear image in the darkest of nights and help the driver to see up to 5x further than with headlights. Other vehicles, pedestrians, animals crossing the road, it is all seamlessly detected by a thermal imaging camera.

Driving at Night in Normal and Emergency Situations

"Although we are producing armored vehicles, we always hope that our clients do not have to use the car's protective abilities. An armored vehicle is designed to protect its passenger in emergency or crisis situations which will hopefully never happen. But when clients are using the vehicle in a day-today environment, they

also drive during the night. By detecting other vehicles, pedestrians, animals and other hazards from a far distance, the FLIR Systems PathFindIR helps to avoid accidents when driving at night. If an emergency situation should occur at night, the PathFindIR, will help the driver to get away from the hazards as fast as possible. He will undoubtedly have an advantage over a car that does not have thermal imaging technology on-board.", continuous Mr. Klostermann.

Increasing Situational Awareness

But the PathFindIR can be used for more than driver vision enhancement only. It is an excellent tool to increase situational awareness. Installed in an armored luxury vehicle, but also in cash-in-transit (CIT)/ money transporters the driver can see a lot better what is happening around him. People can no longer hide in the dark since they become clearly visible on a thermal image. Even in daytime, if they are trying to hide in bushes or camouflage themselves, they will be clearly visible.

Easy Installation

"Installing a FLIR Systems PathFindIR is feasible in any vehicle and can be done by a car workshop without problems.", says Mr. Klostermann. "The thermal imaging camera is installed in the front bumper. The PathFindIR is well protected against harsh driving conditions. Rain, salt spray, and small rocks hitting the front of the camera are not affecting it. The PathFindIR just needs to be connected to a power source and to a standard LCD display that accepts composite video. In a lot of cases we display the thermal image on the same LCD that is being used for the navigation system."

A Small Price

"The feedback we are getting from the users of the PathFindIR is very positive. They tell us that the display on which the thermal image is projected quickly becomes a natural checkpoint for the driver just like side-view or rear-view mirrors. It helps them tremendously when driving at night but also in rain, fog and other harsh weather conditions. Compared to the total investment needed for an armoured car, the installation of a thermal imaging camera is a very small cost. A cost that can however help to save lives. Not only in emergency situations but also in every day driving conditions. I am sure that more and more of our customers will decide to install this excellent tool in their vehicle.", concludes Mr. Klostermann.

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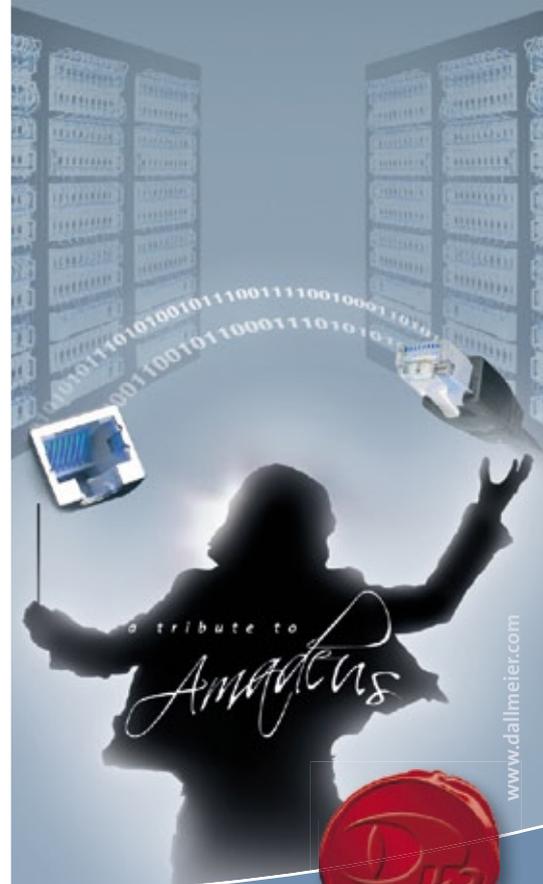
VideolP range "a tribute to Amadeus"

VideolP 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 VideolP 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 VideolP 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!



SECURITY FOR RETAILERS

Where Brilliance Is Especially Important

Highest Security for Elegant Businesses

The Zurich Bahnhofstrasse is one of the best addresses in Europe and is synonymous with elegant shops and discrete banks. Boutiques with the finest fashion labels, jewellers and exquisite delicatessens flank the elegant street from the station to the Paradeplatz. Although the Bahnhofstrasse is very busy, it is far from hectic. Seconds only matter once a year, when runners in the Zurich marathon pass through the Bahnhofstrasse, or if the valuable displays in the shop windows become the targets of gangs of criminals.

It is difficult to imagine armed robberies in broad daylight in the heart of a big city. However, the danger of highly organised robberies is growing from year to year. Modern security systems in banks, heavily secured transports and the increasing security of warehouses and factories where valuable goods are made and stored no longer leave much opportunity for the activities of criminal elements, and their modus operandi is changing.



Lightning attacks, almost equivalent to confidence tricks, by organised gangs are a new dimension of the threat to the owners and operators of exclusive shops. Modern security technology can counteract this.

Great Exclusivity Is Also a Great Threat

Even in the midst of the finest addresses in the Zurich Bahnhofstrasse, the displays of the jeweller "La Serlas Zürich" draw the attention of jewellery connoisseurs. For over 14 years this traditional business has impressed with its range of fine watches and unique items of exquisite diamond jewellery. The excellent selection of unique jewellery not only attracts wealthy customers to consultations in the salerooms, but has also meant that "La Serlas Zürich" has already been the target of three armed robberies. In spite of surveillance by a security system in the entrance area, the last robbery took place only a few months ago, and resulted in the installation of a completely new security system. The new security concept was implemented in intensive cooperation with the proprietor and manager of

The video surveillance of the entry lock provides security and blends harmoniously into the atmosphere. ▶



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the business, the companies Christoph Lerch, Siport AG, Elektro A. Bender, ES Sicherheit AG and John Lay Electronics AG.

Ultra-modern Entry Lock Technology

Based on past experience the focus of attention was the entry lock technology in the entry area. With the new design, the entry to the shop was to have an inviting and attractive design. However, there was also the necessity to prevent the type of robbery in which thieves quickly enter the interior of the shop and threaten customers. In cooperation with the firm Siport AG, an electro-mechanical entry lock was installed, with which customers and suppliers are initially admitted into the inner chamber of the lock by the security officer. In order to enter this area the doors to the shop as well as the counter window must be closed. A green and a red LED indicate whether customers may enter. Only after the entry door has been securely locked can the staff open the doors to the shop or open the counter window. Exit from the saleroom is in the reverse sequence.

As the time delay for entry and exit can neither be influenced from the outside nor by the staff – for example if they are subjected to an armed threat, rapid robberies are made impossible. Any entry into the sale and exhibition rooms is only possible after a time interval during which criminals can expect the police to arrive once the alarm has been raised, before they can escape with their haul. The bullet-proof glass of the system guarantees the safety of customers and staff. At the worst, a thief must expect to be imprisoned in a bullet-proof cage until the police arrive.

State-of-the-art Video Surveillance

In addition to the entry lock system, the heart of the security system is the newly installed IP-based video surveillance system. For the control of the video system and documentation of the data, ES Sicherheit AG uses the software XProtect from Milestone. With the software, the entire system can not only be controlled and incidents observed in real time from various points in the building by means of



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touch-panels integrated into the walls, but also, the user is able to access all the stored video data from any of the rooms. Data transmission is by means of a separate network. An attractive feature of XProject from milestone was the high level of user-friendliness, which enables even users with little training in security systems to instinctively take the right action, and does not require extensive training. A further important reason is the reliability and openness of the system, which allows for extensions at any time.

The camera technology employs the latest generation of Panasonic ipro IP cameras. For the surveillance of the entry lock, Panasonic WV-NW484 network dome cameras are used, which ensure sharp images even in difficult lighting conditions which include bright light outdoors and subdued light in the interior of the shop. The SD II technology of the cameras can handle high levels of contrast, is sensitive to light and the cameras are designed so as not to disturb the elegant atmosphere.

In the salerooms themselves and for portrait images at the entry door, Panasonic WV-NP 304 megapixel cameras are installed, which enable an overview of the entire room with excellent imaging quality. These cameras are also used to monitor the sales tables, in order to deliver literally "brilliant" images. Even the filigree details of the sapphire and diamond colliers, which can be admired at "La Serlas Zürich", can be recognised with high resolution and the transactions can be definitively documented. The new video system is a quantum jump in comparison with the old analogue technology and is worthy of the elegant displays.

**Additional Motivation:
Secure Workplaces**

Naturally, protection against financial loss is a motivation for the increased security measures. However, it was just as important for those responsible to give staff a feeling of security during their work. Lower insurance premiums were a further argument for the installation of this security measure, which was appropriately rewarded by the insurance company.

The measures only cause a slight delay to customers, which is hardly noticed. Anyone who buys from "La Serlas Zürich" takes the time for intensive advice. Because of the inconspicuous design of all the security elements, the experience of shopping in a stylish atmosphere is not disturbed – as the pictures of this article show.

In order not to impair this exceptional shopping experience, but rather to highlight this, the work of the exclusive shop-fitter Christoph Lerch was very important. Mr. Lech was able to integrate the architecture of the shop into the entry lock and even to contribute to improving its appearance.

The new technology enables the management to observe everything which occurs in the shop from the offices behind the salerooms, whether these are the events in the salerooms or in the access to the offices. The state-of-the-art video technology enables a complete documentation of all events in ultra-sharp quality.

A few weeks ago, the new video technology enabled the arrest of a suspect who is alleged to have been involved in the robbery of the shop in May 2008. The video images are now important evidence.

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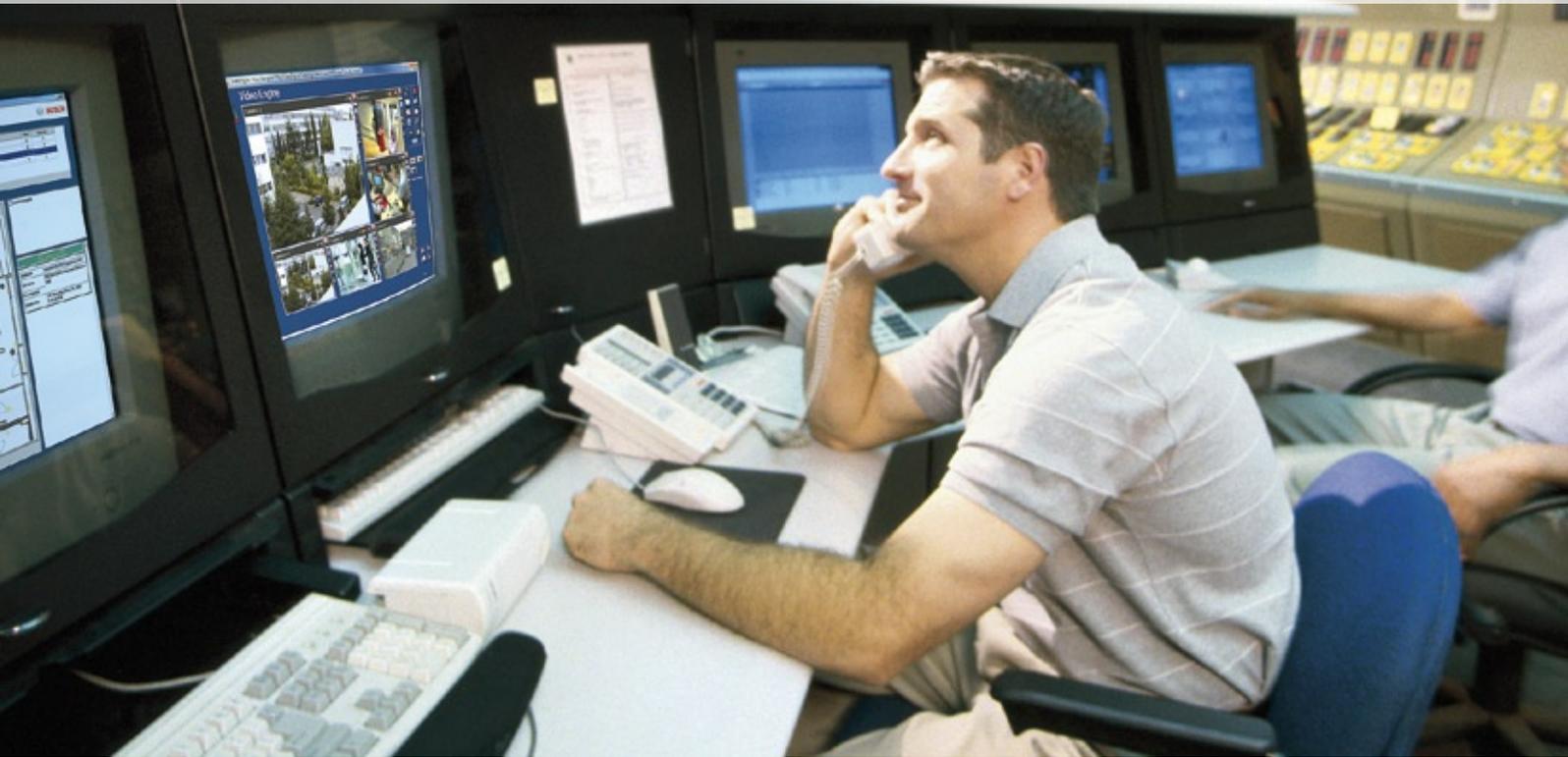
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CCTV

A High Consistent Level of Performance Across Europe

New EN 50132 Standard for Video Surveillance Systems



The European Committee for Electrotechnical Standardization Cenelec has formulated "System requirements" part 1 of the EN 50132 "CCTV surveillance systems for use in security applications" (EN 50132-1). This completes the framework of standards in video systems.

Frank Rottmann, Bosch Security Systems and Chairman of the Cenelec video workgroup, says: "The standards are of considerable benefit to both users and manufacturers of security systems. They have the effect of stimulating the international markets for healthy growth. For wide acceptance in industries, it's essential that tests of security systems are done by independent laboratories and not only by the manufacturers and installers." Companies claiming that their products can be used in EN 50132-1 compliant systems give a first message about quality and key features, says Rottmann. However, this should be accompanied by testing, offered by national laboratories in Europe, such as the VdS in Germany (VdS Schadenverhütung GmbH), with practices in accordance with specified EN standards.

Over 100 Basic Requirements

The new standard will bring over 100 basic requirements into effect, all of which must be met by each video surveillance system to be compliant to EN 50132-1. Standardized, core technical security specifications governing video recording, transmission and display, as well as associated access rights and logging will be defined. Over 60 additional requirements will apply to systems deployed for high-risk environments. For broad acceptance of the standards users should carefully define their needed specific security grade applicable to their system. Manufacturers as well as installers should design, test and document security systems in accordance to EN 50132. The security grade applicable to the system as a whole or individual components thereof can be determined by the end-user on basis of a risk assessment or given from the insurer.

A broad acceptance of the European standard EN 50132 secures a high and common level of performance in security systems across Europe due to only a single certificate. With EN-compliant systems, customers and security personnel will be sure that not only all events are monitored, recorded and indicated but also the

system's reliability, proper functionality and tamper protection are taken care of.

The European standards EN 50132 will gradually replace existing national standards. The standards will also be applied in European countries without current specifications of their own. Then, different systems may objectively be compared in terms of quality and performance, enabling the user to focus attention on his operational requirements as early as the tendering phase.

2009 new revisions for the video transmission standard (Part 5) and the application guidelines (Part 7) are the next important milestones in the standardization of video products and European harmonization. Frank Rottmann estimates a good chance that EN standards will be established at international level rather than just within Europe: "The entire series of standards is currently being reviewed by the International Electrotechnical Commission (IEC)."

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SECURITY FOR CASINOS

High-tech for Golden Valley

South African Casino Relies on German CCTV Technology

South Africa is a fascinating country – not only because of its breathtaking fauna and flora but also because it offers premium gaming entertainment. Sun International is South Africa’s leading provider of gambling opportunities. The Sun International Casinos are leading the way when it comes to offering visitors a gambling experience at the highest stage. However, the Sun International Casinos are also pioneers in security. The Golden Valley Casino now has South Africa’s first video surveillance system with a fully IP-based real-time matrix in operation. Thereby the Sun International Casinos line up with the ever lengthening list of satisfied customers who trust in the experience of the CCTV/IP and casino specialist Dallmeier.

The Golden Valley Casino is located in Worcester, about an hour away from Cape Town and situated amidst majestic mountain ranges, scenic landscapes, noble vineyards and blooming orchards. It mirrors the splendour of the characteristic, Cape Dutch architecture and welcomes its

visitors with a variety of entertainment facilities. The casino offers various slots with exciting games and much more. Additionally, the Kuipers buffet restaurant provides sustenance and the Winners Action Bar invites to enjoy a glass of wine while listening to live music.

For those who would like to enjoy the pleasant atmosphere of the casino for more than just one day, the Golden Valley Lodge is the ideal place to stay. Furthermore, Worcester can now offer delegates an alternative and sophisticated conference facility. The Golden Valley Conference Centre consists of a main conference room accommodating 90 people banquet style. In addition, there is a 10-seater breakaway room ideal for executive board meetings. The modern, high-tech conference facility is totally self-contained offering a comprehensive range of presentation equipment.

High Requirements with Failure-safety
Opened in November 2006, the Golden Valley Casino is the first of a range of Sun International



Casinos that trust in the latest video surveillance technology by Dallmeier. The Golden Valley is the first casino in South Africa to use a real-time CCTV/IP system with digital matrix. The decisive factor in choosing the Company's system was first and foremost the applied blade technology provided by the DIS-2/M, whose single-channel approach provides maximum availability and service friendliness.

The DIS-2/M, a modular recording and transmission device conceived for mounting and operation in a 19" module rack, records directly onto the integrated memory. It thus ensures a maximum availability of recorded data even in the case of network problems or failures. Thereby Dallmeier guaranteed the highest availability of the comprehensive solution because there is no single-point-of-failure. The solution achieves an availability of 99.99994%. This value is even higher than the "Five Nines" praised throughout the IT world.

In order to further increase failure-safety the system enables on the spot redundant recording, where hard disks of different capacities can be operated within one system (mixed operation of capacities). For all digital hard disk recorders for casino solutions Dallmeier exclusively employs Linux which is deemed highly reliable among experts. In order to further increase stability the operating system was separated from the hard disks and relocated onto a Flash-ROM.

Minimum Downtime During Malfunctions

Sun International Management Company director for 'Compliance and Tables' Jaco Coetzee said: "Apart from the high failure-safety, service was also very important to us. Owing to the Dallmeier blade technology it is possible to exchange a malfunctioning component with every single channel. Also, the exchange can be carried out during operation since the DIS-2/M

modules come with hot-plug functionality. So, there is very little effort to it and the downtime of the system is reduced to a minimum."

Complete IP Solution

The CCTV system installed at the Golden Valley Casino is a pure IP solution. It's no wonder, therefore, that the network is playing a particularly important role since it acts as an important interface between the operator and the system. The Golden Valley Casino emphasised that the bandwidth requirements should not be too high. This is because the Company's CCTV/IP systems require network operations only for the work of the operator and the system's management, not for recording. Network bandwidth is only used when necessary. Frank Oetjen, Dallmeier Sales Manager: "We are working closely with leading manufacturers of the network industry and are thus familiar with new developments and technologies ahead of everyone else."

Innovative Technologies – Easy to Use

The Dallmeier management software Semsy (Security Management System) allows for the easy and convenient operation of the complete video surveillance system at Golden Valley Casino. It enables the easy management and administration of different streams of media data and provides live display and recording of video and/or audio data at any point in a networked system. Additional network components can be integrated into the network at later points in time, without limitations. Therefore, systems based on the software are optimally prepared for any future requirements. It's major advantage is that it can easily be adjusted to meet the customer's requirements.

Sun International in its search for a suitable digital product extensively researched and reviewed a number of solutions before eventually



deciding on the solution for all its South African casinos. The first installation at the Golden Valley was very successful and a number of other casinos are already being equipped with it. Jaco Coetzee stated: "We believe in standardisation because of all the efficiencies linked to this and Dallmeier proved to be the better solution for casino operations according to our intensive evaluation criteria. The high failure-safety and the unbeatable image quality as well as the support are simply convincing!"

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SECURITY FOR CASINOS

Intelligent Video – Beyond Intrusion and Loitering

Security and More for Casinos

Ipsotek has been developing Intelligent Video applications for over 15 years. Like many other providers, the emphasis has been on security and alerting operators to potential threats. While these applications will be further engineered, the real future of the technology is now slowly revealing itself.



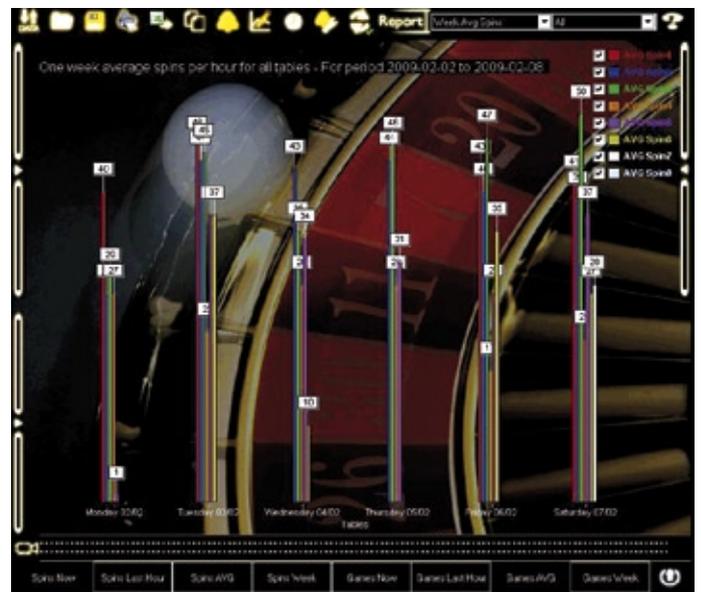
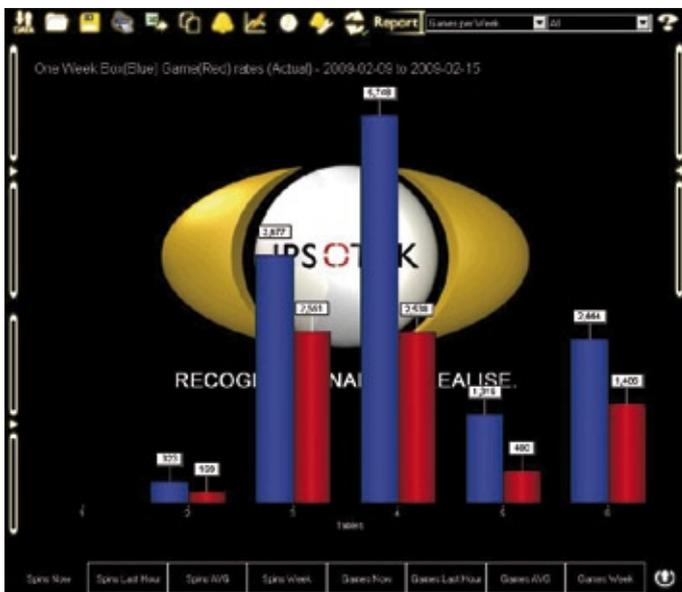
The Control Room

I would like to start by saying that the familiar applications of Intelligent Video will always remain important applications, whether this is detecting suspicious loitering in sensitive areas or intrusion across a secured perimeter. Indeed a number of these detections are already becoming commoditised, and in a sense reaching a level of acceptance as an expected feature. Traditional camera and DVR manufacturers have now progressed from motion detection to embedding simple analytics in their devices whether at the edge or in the server. This may be from using their own in-house developed algorithms or licensed algorithms from

the distinct analytic providers that are emerging – such as Ipsotek. These security applications will be further refined by the providers to identify more and more complex threats over time. More importantly however, is that a growing and real market for analytics products is rapidly emerging in non security applications, within some surprising areas.

The Casino

The casino environment would probably be considered fertile ground for security applications. Whilst this is the case, the more interesting possibilities from an analytics perspective are for business analysis tools. In January this year,



Ipsotek launched its Casino Suite at The International Gaming Expo at Earls Court in London. One of the myths in the casino environment is that you cannot add instruments to the Roulette wheel as this may be seen by the players as something there to "rig" the outcome of the spin. This is actually nonsense as most Roulette tables now come complete with Ethernet and other outputs that are used to transfer the result of each spin of the wheel to a display above the table. For some time these outputs have also been used to produce information for performance analysis. Analytics takes performance analysis a stage further by introducing the possibility of predicting poor performance in real time in the context of the environment at that time and allowing immediate intervention. Analytics also introduces the opportunity to measure – and predict – the activity levels in a game of Black Jack – something which was previously impossible in the casino environment.

Ipsotek's Casino Suite is specifically aimed at increasing productivity and casino revenue at Roulette and Black Jack tables. It collects video activity and event information from the gaming tables, typically using existing CCTV cameras. The information is then turned into data from which predictions on the likely activity level at tables is determined. This is used to trigger performance-related alarms when activity is predicted to be outside specified levels, as well as being stored in a central database for trend analysis.

The system also has a unique drill down ability whereby the system's customised front end can be used to instantly replay clips of events where performance is predicted to dip, for instant investigation and response. In a sense, the system makes the roll of the Pit Boss more objective and assists him/her in making decisions around opening additional tables (when activity is drifting above prescribed levels), and as providing an objective tool for identifying underperforming dealers during the games in play.

Casino Suite is patented and has already been shown to have a

real impact on the behaviour of dealers (in a positive sense) and this has led to an improvement in casino average win percentage. This impact has been so dramatic with initial installations indicating the payback of the system to be counted in weeks rather than months.

The Operator

Whilst all of the above is true for improving the objectiveness of commercial decisions in a single casino, the bigger picture is for operators of a number of casinos to compare the statistics of Black Jack and Roulette performance across a group. Here, the information is being used to objectively identify areas needing attention within individual casinos to improve their commercial performance to acceptable levels.

The Future

As alluded to at the start of this article, analytics will have a growing and important place in the mainstream security sector. However, as a company, Ipsotek is finding that an increasing number of projects are arising in non security solutions. These already include the obvious applications such as traffic management, people counting, and various guises of event counting and classification. What appears certain is that there are many commercial applications of video analytics technologies which are yet to be identified. This will be to the benefit of those companies developing analytics software, but ultimately, for equipment manufacturers and installers as more cameras find their way into these places on the back of the analytics.

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SECURITY FOR CASINOS

“Rien Ne Va Plus!”

Ensuring Everything Is Above Board in a Gaming Environment

The Wyandotte Nation Casino opened in 2007, owned and run by the Wyandotte Tribal Corporation, operates 541 slot and electric games machines, eight blackjack tables, three poker tables and a five table poker room over an impressive 20,000 square feet. Like any building of its size or, equally, any company of its nature, Wyandotte sees top quality security as one of its highest priorities.

Scott Garrette, Director of Information Services at the Wyandotte Nation Casino wanted a system that would provide the casino with heightened security and safety features. Garrette wanted cameras and domes systems throughout the interior and exterior of the facility to be visible to clientele and to encourage a sense of safety and deter possible criminal activity. In addition, he also wanted a system that would allow monitoring and control of the nearby Lucky Turtle Casino, the Wyandotte Nation's first gaming facility. Finally, a system was needed with proven technology that is feature-rich, scalable for future expansion and that delivers the highest quality performance.

Garrette obtained the solution he was looking for with a new state-of-the-art surveillance system. “Overall the Panasonic video surveillance solution provides us with system capabilities that are more dynamic and less labour intensive than other systems we have evaluated”, said Garrette. “The Panasonic video surveillance system allows us to manage cameras, image processing, storage and retrieval in a more automatic fashion, which greatly improves the efficiency of our security and surveillance operations.”



SMC, a Panasonic approved installer, came back to the Wyndotte security team with a system solution built on Panasonic analogue cameras, digital video recorders, plasma displays, system controllers and a matrix switcher. "The video surveillance system deployed at the Wyandotte Nation Casino features best in breed, proven Panasonic video surveillance technology," said Richard Rojas, Data Communications Specialist, SMC. "When we presented the final designs, everyone involved in the project had complete confidence that the system would work – no problem."

Cameras Everywhere

A variety of camera systems were selected based on image quality and coverage capabilities. SMC chose Panasonic's WV-CW964 weatherproof outdoor dome system with Super Dynamic III (SDIII) imaging technology, WV-CS954 SDIII unitised indoor camera with 30X zoom, WV-CW484S and WV-CW474AS SDIII vandal-proof dome cameras and the WV-CF244EX and WV-CF284 DSP mini dome cameras with adaptive black stretch (ABS) technology. According to Garrette, camera selections were heavily influenced by the Company's Super Dynamic III (SDIII) technology and (Digital Signal Processing) ABS technology.

"SDIII is the only imaging technology available that provides all the capabilities we need. The biggest advantage of SDIII cameras is how they adjust to various lighting conditions within a single scene without the loss of image quality. This is really important in a casino with so many light levels because it allows us to use the SDIII PTZ dome systems to follow individuals throughout the facility without any loss of image quality. The tracking function on the SDIII dome systems is of particular importance to us as they can perform tracking functions and can be programmed and adjusted through the controller without having to physically adjust the units. No other cameras that we looked at provided the total package of performance and features that we wanted," said Garrette.

"The images are so detailed from the SDIII dome systems that we can clearly identify chips on the tables. The Panasonic mini dome fixed cameras we installed in perimeter areas provide continuous coverage of specific areas on the gaming floor and if there's an incident we just zoom in with the SDIII dome systems to take a closer look. It's a real benefit of the technology", continued Garrette. "Using Panasonic SDIII cameras, we were able to design a very cost efficient system because of their incredible zoom capability and resolution.

Total Coverage

With over 235 cameras, it is now virtually impossible to walk across the surrounding grounds or interior of the Wyandotte Nation Casino without being in clear view of the Panasonic video surveillance system. Garrette and his staff main-



tain close watch over all activities with cameras positioned along the roads leading into the casino, the facility's parking areas, the walkways leading to and from the nearby Lucky Turtle Casino, as well as all the public areas inside the facility.

Images from the cameras are controlled and routed using the Company's Matrix System 850 and recorded on a bank of 40 Panasonic DVRs. It's Matrix System 850 was specified for the installation because of its scalable input and output capacities, its highly programmable feature rich functions and extensive programmable camera tour capabilities. To simplify use of the Matrix System 850's sophisticated features and ability to manage cameras potentially numbering in the thousands, SMC supplemented the system with the PFW850 management and control software. The software employs a user-intuitive graphical user interface (GUI) with dynamic icons to simplify control and speed response times to triggered events. These capabilities were critical to casino management because of the lessons learned at the Lucky Turtle Casino, where the previous matrix switcher was incapable of expansion and had limited programmable functions.

Beating Them at Their Own Game

In addition to the central command and control room, the producer's video surveillance system can be monitored and controlled from satellite locations, including the Oklahoma Gaming Commission who has a representative on-site. Although not currently utilised, capabilities have been built into the system to allow remote monitoring via the Internet and to eventually integrate the video surveillance system with the casino's access control system. Garrette and SMC's Rojas are quick to point out that although the casino is located in Oklahoma and not Las Vegas or Atlantic City, they are still subject to the same

criminal elements that plague any gaming operation.

To aid efforts in reviewing and analysing incidents, the casino records all camera footage at a full 30 frames per second on DVRs, each featuring three terabytes of on-board memory capacity. "We wanted the best recorded image quality possible so we went with everything live and in real time," said Garrette. "We also exceed the standard for archiving the footage by keeping it for 21 days. This solution resolves the problems we had before with video tape where it was difficult to find a particular recorded incident. With Panasonic DVRs, the incidents are very easy to locate, organize, file and retrieve. Rojas says he recommended these DVRs because of their storage capacity and scalability for future system expansion. "The storage capacity was the biggest deal and it was easy to add the expanded memory," he said. "Also, the RT208 uses MPEG-4 which is a better compression technology with superior image resolution and colour accuracy."

Since the installation, the surveillance system has performed flawlessly leaving security staff very happy to work with the equipment. In fact, casino management has been so pleased with the new system that it will be replicated at a third Wyandotte Nation Casino in Kansas City.

Regardless of the physical location, providing a safe and secure environment for patrons and employees has been, and will continue to be Garrette's primary objective. And it appears Wyandotte Tribal Corporation has found the perfect partners to fulfil their goals in SMC and Panasonic Security Systems.

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Emprise Bank Puts Their Money on Megapixel Cameras

Superior Identification Capabilities and Image Quality

Drive-thru lanes at Emprise Bank are monitored by megapixel cameras, enabling license plate identification and facial recognition.

Emprise Bank is a name well known in Kansas for leadership, integrity and service to their customers and to the community. Headquartered in Wichita, the privately owned bank has over 40 locations in 20 communities across the state. Their culture of commitment and customer service is strongly instilled in nearly 500 dynamic and diverse individuals on the Emprise staff.

In early 2007, led by the vision of Corporate Security Officer Jeremy Couch, Emprise Bank began a thorough evaluation of embedded DVR solutions, high-end analog cameras, and IP megapixel solutions. Having seen the differences in image quality and other convenient features, Mr. Couch was leaning towards the selection of Arecont Vision megapixel cameras and a Network Video Recorder solution. With the construction of two new bank branches, the decision was solidified. "The new construction gave us alternate options on where to place cameras," said Mr. Couch. "Those decisions have yielded dividends with the collection of valuable video evidence and tremendous still images."

Eventually, all of the Emprise Bank facilities will have Arecont Vision Megapixel cameras. The current installations include AV1300 and AV3100 models, with a recent addition of the H.264 AV3105 unit, each with a wide angle lens for blanket coverage of the banks. Like all Arecont Vision's fixed megapixel cameras, these two models offer HD quality resolution that is significantly better than even the highest performing analog surveillance cameras. All systems are

monitored centrally by Emprise's security department, with client access available at the site level if needed.

Emprise took on the challenge of designing their video surveillance system in-house. "The decision on camera placement was something I as the Security Officer wanted to take to a different level. Also, designing our own video storage system allowed us to get twice the storage for half the money."

Security and IT Team Up

Ultimately, it was the vision of Mr. Couch and the Emprise Bank IT team that led to the decision to implement a fully IP-based solution. "We see a whole new world of integration coming down the line for businesses who are taking the leap into IP," he said. "Stringing along analog products only delays the inevitable. If your IT department is on board with its security program your institution will ease into an IP environment much easier than if they were not. We have been fortunate in that the IT department at Emprise Bank embraced the idea and got on board early with the evaluation and implementation."

"For the installation, we looked to American Digital Security for their expertise in systems integration," said Mr. Couch. "ADS is a leader in the integration of network-based surveillance systems, and they were early supporters of megapixel camera technology for its outstanding imaging performance and ability to capitalize on the new IP system model."

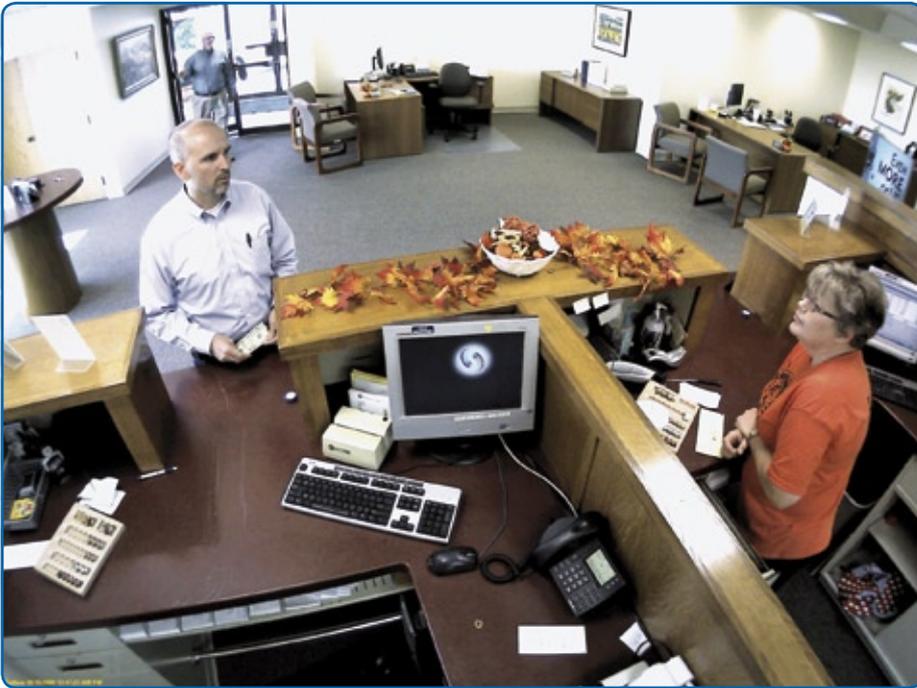
Placing Arecont Vision's megapixel cameras in the parking lots has reaped benefits for Emprise Banks, according to Mr. Couch. The ability

to give specific information to the police regarding, for example, the color, make, model and license plate of the vehicle a suspect drove away in greatly enables finding and apprehending suspects. Inside the banks, the Arecont Vision megapixel technology has made it much easier to catch fraud. Mr. Couch notes that if an individual came in to one of the banks to cash a one hundred dollar check, it would be possible to determine from the video if that money was given to them in 20's, 50's, or a hundred dollar bill. The video data can also be taken and made into electronic files for later reference.

Identification Is the Key

While the Emprise team did evaluate other manufacturers, and appreciated the many features available on the market, in the end it was Arecont Vision's camera image quality and ease of use that determined their selection. "The Arecont Vision cameras have amazing picture quality," said Mr. Couch. "Having been a Law Enforcement officer, I know how hard it can be to identify suspects from analog cameras of the past. It's not a question with Arecont Vision megapixel cameras. Now, we can see tattoos and other identifiers on suspects, that weren't possible with analog images. In fact, the details in the best analog cameras never came close to touching Arecont Vision megapixel cameras. With the right camera and lens you can read the county identifier sticker on a license plate from several feet away. That's pretty good detail!"

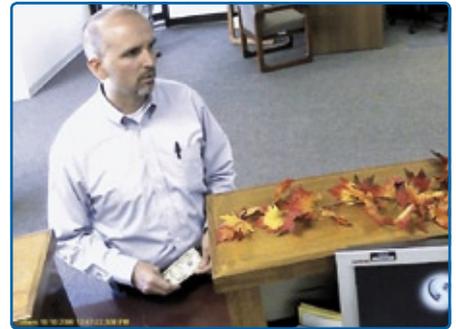
Images from Arecont Vision's fixed cameras can be cropped to a 16 x 9 aspect ratio and



H.264 megapixel cameras eliminate the need for one camera per teller. Security staff can easily identify monetary denominations.

scaled to 1080p or 720p for a true High Definition format. The cameras can steam up to four regions of interest. The resolution is fully controllable; it is possible to stream full resolution or scale less in order to conserve bandwidth.

With support for compliant Power-over-Ethernet (PoE) and auto-iris control functionality, these cameras deliver full motion progressive scan resolution and are priced comparably to standard resolution IP video cameras.



The security staff is able to zoom in on specific incidents, individuals and monetary denominations.

For Jeremy Couch and the Emprise Bank team, Arecont Vision has proved to be the right choice. "It's nice to be able to talk directly to the staff at Arecont Vision," he said. "The one issue I had with a camera was resolved immediately and the camera swapped out in five minutes. With Arecont Vision's cameras installed, I can say that the first camera installed over a year ago has the same image quality as one installed today."

▶ CONTACT

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INTRUSION DETECTION

Sensor Data Fusion

The Ultimate 'Smart' Intrusion Detection Technology



SDF fuses the data from five sensors to enhance catch performance and false alarm immunity

The ultimate in intrusion detection is the balance between rapidly and accurately responding to the presence of an unauthorised human without the cost and time inefficiencies of false alarms. Numerous security systems manufacturers strive to develop intrusion detectors that provide optimal detection and eliminate false alarms. With its new range of Professional Series intrusion detectors with features that enhance ease of installation and level of security, Bosch Security Systems comes close to achieving this.

The Bosch range of intrusion detectors provides a wide choice of models to suit the requirements of any type or size of application. In early 2005, Bosch introduced its Blue Line family of passive infrared (PIR) and microwave detectors. Aimed at the high-end residential and mid-range commercial markets, the Blue Line detectors employ Bosch's proprietary First Step Processing (FSP) and Tritech technologies and provide unique features that add flexibility and ease of use for the installer. FSP enables virtually instant response to human targets. Up until recently, Tritech provided the highest possible level of detection reliability and false alarm immunity in a microwave motion detector due to its proprietary signal processing algorithms.

This is now taken to the next level by the Bosch Professional Series: This family of com-

mercial and industrial intrusion detectors introduces several innovative technologies, chief of which are Sensor Data Fusion (SDF) and the Trifocus optical system. The first models of Professional Series were brought to the global security market in August 2006.

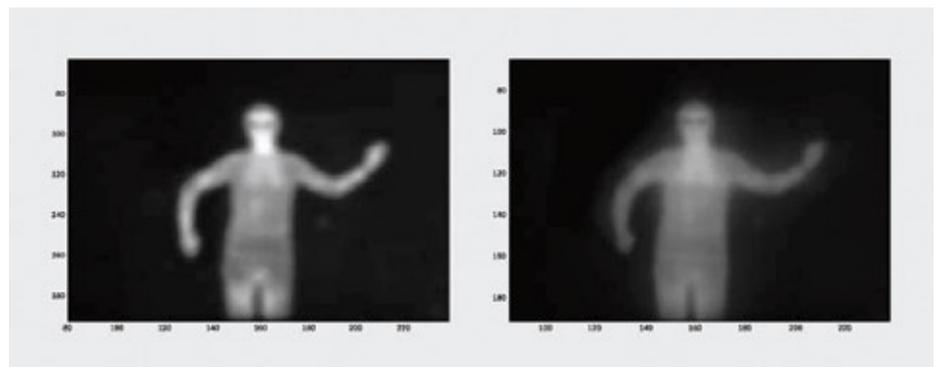
Always in Focus

Trifocus optics is a new, patented technology that employs three precision-engineered lenses for long, medium and short-range detection in combination with two separate PIR detector elements. Trifocus ensures maximum optical gain with virtually noise-free signal quality, providing the basis for the Sensor Data Fusion digital signal processing.

The three focal lengths are optimized for the different detection ranges to be covered by the detector: Short-range detection is provided by a short focal length 'lookdown' lens at the base of

the unit and ensures seamless 'to-the-wall' coverage. A medium focal length lens covers intermediate distances, and a long focal length lens is optimized for coverage up to the rated range of the detector. The use of three individual lenses also effectively eliminates coverage gaps between the detector zones. It provides a very high density of detection zones, i.e., 86 zones distributed over 11 solid 'curtains' of detection.

This design approach allows for adjustment-free installation, thus eliminating one of the most common installation errors of conventional motion detectors: Regardless of mounting height anywhere between 2 and 3 m or room size up to the rated range, no adjustments are necessary to provide optimum protection. A simple dipswitch allows a conversion of the detector from its rated range to a true medium-range device with 7.5 m coverage. The installer can carry less inventory, and at the same time make



Comparison of IR images produced through a Trifocus lens (left) and conventional mirror (right)

no compromises that usually arise when longer-range motion detectors are used in small areas.

Trifocus' enhanced optical gain can be visualized by comparing with the 'f' aperture setting of a camera, i.e., the ratio of the focal length of the lens to its diameter: If an individual lens element is too small relative to its focal length, the level of IR energy captured by this lens will not be high enough to produce a usable signal, much as a low quality camera lens performs poorly under low light conditions. Conventional detectors with only one lens or mirror and one PIR sensor that may need to cover a range from zero to, say, 15 m have limitations that prevent them from covering all distances with the same level of signal quality. This often leads to decreasing performance at distances close to the rated range, or large coverage gaps. In the Professional Series, the overall optical gain is approximately doubled compared to state of the art detectors, thus allowing optimal coverage of all distances up to 18 m.

Triple Lens Optics

In the past, the manufacturing of high-quality PIR lenses was more difficult than that of mirrors. Therefore, mirror optics used to be the preferred choice for higher-end applications. Bosch has now overcome this limitation with a new and proprietary lens element design providing increased optical efficiency. Combined with a

new precision manufacturing process, this gives an overall optical quality that surpasses the best mirror-based designs in today's industry.

Therefore, for the first time, it became possible to take full advantage of the inherent strengths of lens-based detectors over their mirror-based counterparts: The typically higher pattern density and seamless coverage of a lens-based design is now accessible to the high-end intrusion market, further reducing the chances of an intruder to escape detection. Moreover, the Trifocus lenses are part of the detector enclosure, which is sealed. This offers the highest level of robustness of construction and accurate, fixed positioning of the lenses to avoid misalignment, as well as immunity against insects entering the unit and possibly triggering a false alarm.

Taking Sensible Decisions Autonomously

In existing PIR/microwave and other multi-technology motion detectors, alarm decisions are derived by each of the technologies independently. If both their results agree on the probable presence of an intruder, an alarm will be given. While this approach of checks and balance leads to improved false alarm immunity, simply building multiple sensor elements in one detector does nothing to increase its detection effective-

Sensor Data Fusion now addresses this weakness by intelligently co-processing the signals from not only one microwave and one PIR sensor, but from up to five independent detectors: two PIR sensors, a room temperature sensor, a white light sensor and – in some models – a microwave sensor. The data from all sensors are simultaneously analysed by a proprietary digital signal processing algorithm, embedded in a high-performance microcontroller. The alarm decision is based on a complex algorithm that takes into account all information that has been combined on a low level by Sensor Data Fusion.

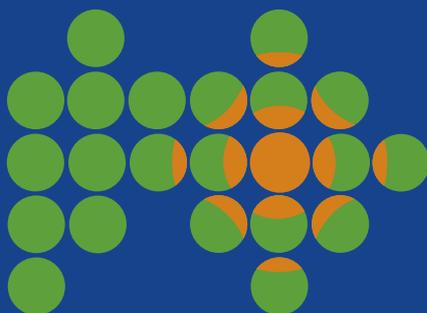
This technology provides an improvement in catch performance by 35 per cent and a new level of false alarm immunity and responsiveness. At the same time, it enables several new features and performance enhancements that are described below.

Giant Flies and Tiny Trucks

The new and patented range-adaptive microwave sensor feature addresses a commonly known weakness of microwave motion detectors: Their detection principle is based on the Doppler shift of an electromagnetic wave radiated by the detector and reflected back from the target. Hence, the signal level very much depends on the distance to the target due to the energy 'dilution' of the wave travelling forth and back. The detector sensitivity must be adjusted



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to reliably detect average human intruders at rated range. Hence, very small objects in close proximity such as insects or birds will cause signals that mimic humans many meters away. On the other hand, remote objects that are strong microwave reflectors, such as a large vehicle, will cause signals that are indiscernible from those caused by humans within the rated range. This obviously leads to false alarm risks, which are only avoided in practice by relying on the PIR subsystem of the detector. Therefore, the overall performance will be reduced as a compromise has to be made between false alarm immunity and catch performance.

With SDF, Bosch's Professional Series PIR/microwave models overcome this limitation. By simultaneously processing both PIR channels, as well as the microwave signal, the sensitivity of the microwave detector is continuously and automatically adjusted based on the target range information derived from the PIR subsystem. With this technology, a fly directly in front of the sensor will no longer appear as a human, nor will a truck 30 m away!

Active White Light Suppression

Immunity to false alarms triggered by strong white light sources shone onto a PIR detector is a requirement in all global security markets. Such light sources can be headlights of passing vehicles or, more significantly, a flashlight held by a burglar intentionally trying to trigger false alarms.

Traditionally, there have been various methods of achieving a limited degree of white light immunity, including additional filters in front of the sensor, special dark mirror materials, or pigments in the detector lens. All these approaches have the disadvantage that they also reduce the desired IR signal, thus compromising detection performance. At the same time, white light immunity is always limited to a certain maximum Lux rating, which in practice often cannot be ensured reliably throughout the production life of a given product.

Professional Series entirely eliminates these limitations and drawbacks by employing Sensor Data Fusion. SDF uses a dedicated white light sensor to detect and eliminate any signals coming from white light sources. This is achieved without impacting the PIR detection reliability, regardless of magnitude or temporal patterns of the white light.

Running Hot and Cold

Dynamic temperature compensation is an important factor in intrusion detector technology. A PIR sensor only produces a signal if it sees a temperature difference in the environment. The human body radiates IR energy that corresponds approximately to 36 degrees Celsius. If the ambient temperature is close to this temperature, e.g., due to tropical climate or excessive heating, there will be a low or no temperature difference seen by the detector. Hence, no usable signal will be generated. It is common to achieve some

level of temperature compensation by making PIR sensors more sensitive at higher ambient temperatures, or to even disable the PIR portion in dual detectors and only rely on the microwave subsystem. However, this results in over-sensitivity and thus increases the false alarm risk.

With SDF, Bosch provides dynamic temperature compensation that uniquely adjusts the temperature sensitivity around a certain critical range. As the ambient room temperature approaches that of the human body, the sensitivity automatically increases within a narrow range of a few degrees around human body temperature, thus allowing detection of subtle differences but avoiding false alarms at higher temperatures. In combination with the enhanced signal quality of the Trifocus optical system, this leads to a detection reliability at all temperatures and detection ranges that is unsurpassed in the industry.

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First RFID-Enabled Mobile Thermal Transfer Printers

Zebra Technologies has announced the launch of its innovative Zebra P4T and RP4T mobile printers, the world's first mobile RFID printing solutions. The easy-to-wear and carry Zebra P4T and RFID-enabled RP4T mobile printers are ideal for indoor and outdoor applications in government, manufacturing, transportation



and logistics and mobile field service. The Zebra RP4T is shipped with RFID functionality while the P4T is RFID upgradable. In addition to enabling printing of EPC-compliant passive UHF RFID Class 1, Gen 2 labels at any location, the new Zebra P4T and RP4T printers offer unique capabilities for enhanced connectivity and productivity including:

- Bluetooth 2.0 and 802.11g wireless connectivity options, and state-of-the-art WPA2 security for enhanced data protection and user authentication;
- Dual print methods (direct thermal and thermal transfer) in a single printer;
- Long-lasting, element-resistant thermal transfer labels, tags and receipts and RFID labels can be printed where and when customers need them, providing enhanced data and asset tracking accuracy and improved workforce efficiency.

www.zebracard.com

Third Party VdS Approval

C-Tec's range of EN54-4 compliant power supplies have attained third-party approval by the VdS, Germany's independent testing and certification institution for fire prevention and safety technology. With low current consumption and deep discharge battery protection, the 1.5AMP BF360-24 and the 2AMP BF360-12V switch mode power



supplies include a host of user and installer friendly features including link selectable battery charging capacity and EN54 compliant flagging of battery impedance. The power supplies have been extensively tested by the Loss Prevention Certification Board and meet the relevant parts of the Construction Products Directive (CPD).

www.c-tec.co.uk

BUSINESS PARTNER

Video Recording

Abus has introduced its Hybrid Digital Video Recorder (HDVR) – the "Black Box" that conceals an interior capable of handling a large amount of images and data. The new generation of the company's Security-Center recorders unites analogue and IP cameras within a high-end system. It is capable of handling up to 40 channels (8 of which are for IP cameras) with a frame rate of 1,000 FPS. Another new product is the company's Eytron NVR. This network digital recorder enables the recording, and management, of video data from up to 24 IP cameras, hence providing a high-performance platform for the booming IP camera market.

www.abus.com

Access Control System

Siemens Building Technologies has launched the latest version of its Sipass Entro Access Control System, with a number of new features to further enhance the system's flexibility and a new RoHS (Restriction of Hazardous Substances) compliant controller. Amongst the new features are: the ability to design and print personalized photo ID cards; full compatibility with Windows Terminal Server; enhanced flexibility in configuring common alarm outputs and the addition of another language (Portuguese), bringing the total number of languages supported to thirteen. Also a powerful new RoHS compliant SR35i controller (replacing the existing SR34i) has been introduced but attention has been paid to ease of expansion with backwards compatibility right through to the MP 4.7 release of the system. The visual template design tool embodied within the new version allows personalized access cards/badges to be easily produced via standard Windows printer drivers, with the capacity to also create receipts for signature by the cardholder upon issuing of the card.

www.siemens.com/industry



The World's Smallest Video Encoder with H.264

Axis Communications introduces a highly compact and cost-effective one-channel video encoder with H.264 video compression. The AXIS M7001 Video Encoder is perfect for integrating small or large numbers of analog CCTV surveillance cameras into an IP-based video surveillance system. The encoder offers great video quality with superb H.264 performance combined with a compact design and a competitive price. It presents a cost-effective solution to gaining the benefits of network video without having to replace analog cameras. The video encoder's small size (smaller than a modern cell phone) also makes it ideal for use in camera housings and discreet surveillance applications, for example, in retail stores and banks. A small covert camera is made available with the video encoder in the AXIS M7001 Covert Surveillance Kit. The AXIS M7001 Video Encoder is designed to be installed close to an analog camera. It converts analog video signals from all types of analog cameras into digital video streams that are then sent over an IP-based network (e.g. LAN/Intranet/Internet). The video encoder also provides pan, tilt, zoom support to PTZ and PTZ dome cameras. The encoder can deliver two simultaneous video streams, one in H.264 and another in Motion JPEG, at full frame rate in all resolutions up to D1 (720x480 in NTSC, 720x576 in PAL).



High Resolution LCD Monitor

Panasonic has launched its 19" WV-LC1900 and 17" WV-LC1700 LCD color monitors. Fully equipped with proprietary image-processing technology, they both deliver images with greater sharpness and clarity. The LCD offers a screen resolution of 1,280 x 1,024 (SXGA), 500 TV lines of horizontal resolution and an approximate 16.7 million full color display. The monitors offer excellent picture quality and high resolution with motion adaptive interlace and progressive converter technology. The multi-language color monitors come with 2x BNC composite inputs with loop through outputs, S-Video, RGB for PC input and a 0.5 W built-in speaker. With a selectable color temperature and three scan sizes including full scan (5:4), over scan (4:3) and under scan (4:3), picture sizes can be adjusted using the on screen display setup menus and front panel buttons.

www.panasonic.com



Camera with External Adjustments

The Concept Pro VLP4526 Housed IR Camera from Videcon is now available with external adjustment controls to make a successful installation easier. It belongs to a series of high resolution cameras built into a robust, weatherproof housing – particularly suited for low-light environments. The external adjustments alter the camera lens' field of view and focus as well as the DC level. The Company has introduced this extra feature to ensure installers have the equipment they need to complete a fast and effective installation and just as easy to maintain and recalibrate according to changing demands. The camera has a strong visual presence and is an effective criminal deterrent. It is fully cable managed for a more secure and aesthetically pleasing finish.

www.videcon.co.uk



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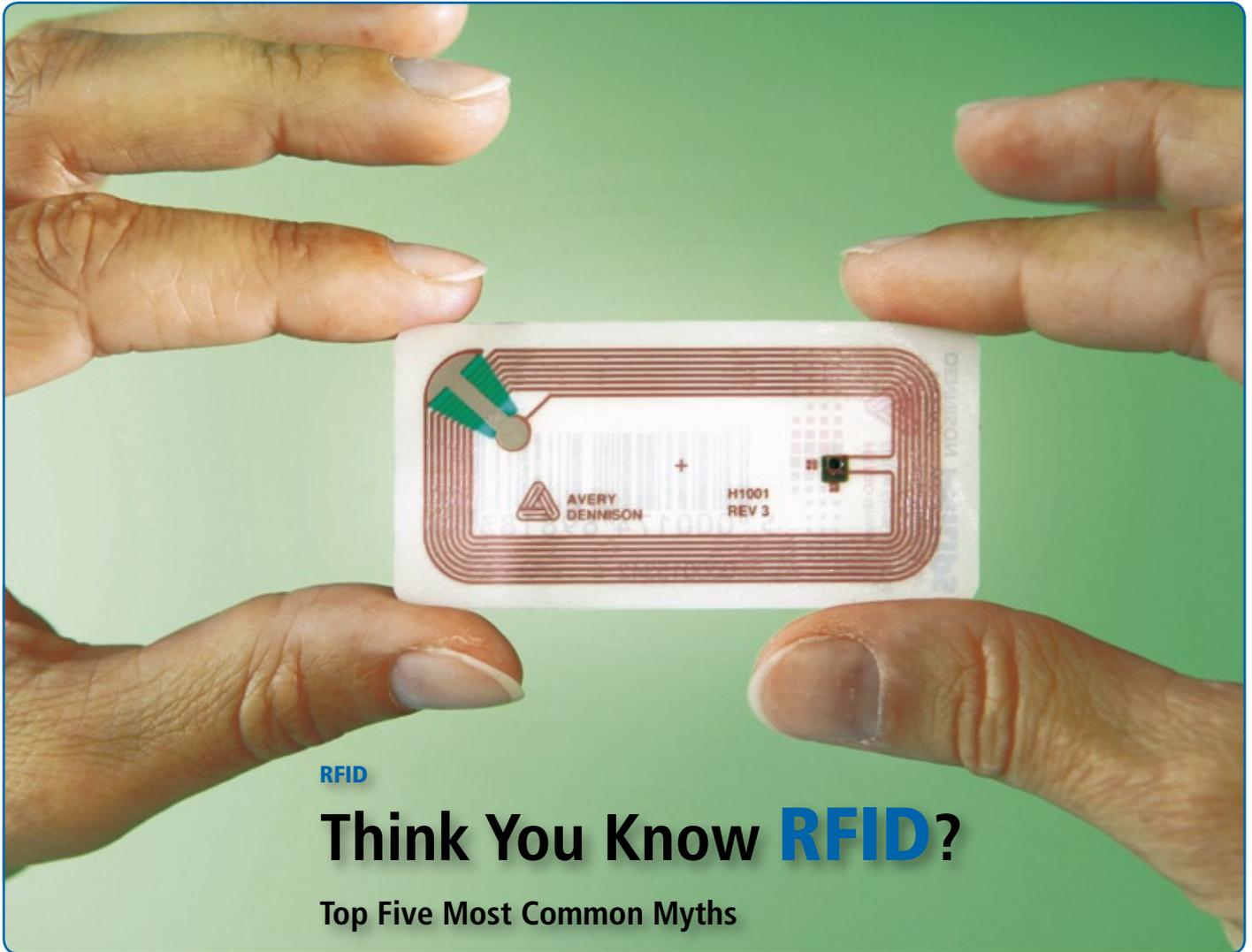
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RFID

Think You Know **RFID**?

Top Five Most Common Myths

RFID has been touted as the 'next big thing' for years. But what does that actually mean? Will we ever reach widespread item level tagging in Europe? Having spent too long not quite living up to its own hype, it's time to take a new look at the technology – how it's being used, what's going to happen in 2009, and which common preconceptions about RFID are groundless.

First, a look at the positives: in the right circumstances, RFID is a very useful technology. Although most people associate it with the retail and logistics industry, it is becoming increasingly popular in the leisure business – for example, wristbands acting as tickets for events, or to let

people on and off the ski slopes. In the last couple of years, RFID has been used in passports in an increasing number of countries across the world – and the first British passports in 2007. Add to that payment cards, public transport tickets and patient identification, and the scope for the technology becomes clear.

Currently, the CASAGRAS initiative is getting people talking about RFID across Europe. An odd name for a sensible idea, the European Commission launched the CASAGRAS project in October 2008. It aims to promote international collaboration on RFID, to examine how stakeholders can work together to meet the global challenges and maximise the opportunities presented by the technology. CASAGRAS is in its early stages but it should prove to be a good way to get people talking at an international level. Given the nature of international supply chains, RFID needs to operate at a global level in order to be successful.

Privacy remains a contentious issue in the RFID world. Protest bodies like CASPIAN (Consumers Against Supermarket Privacy Invasion and Numbering) in the US and FoeBuD in Germany are quick to point out the weaknesses in passive and active tags – and how they can be misused for tracking people without their knowledge, for example.

Six months ago the EU carried out a public consultation into RFID and privacy, with a view to implementing legislative guidelines around it. While EU legislation would certainly help to put people's minds at rest, we need an international remit, not simply a European one, to reflect the global nature of the technology.

Historically, the US has led the way with RFID development. At Zebra, we are able to monitor progress on both sides of the Atlantic. In terms of sales, America still outstrips Europe by some distance. The one factor that straddles all markets at the moment is the economy – whatever Auto ID technology is being used – customers are demanding return on investment in record times in order to justify the spend to their finance teams. Despite being seen as an expensive technology, this could potentially be a good thing for RFID.

How to Differentiate Between the Facts and the Hype?

Below are some of the stories around RFID that we hear most frequently from customers and prospects. All of them require clarification to help those interested in the technology to make the most informed buying decisions.

RFID – Don't Believe the Hype

1. Look forward to 2009: the year RFID really takes off...

How many times before have we heard that one? Let's get this straight – despite what some in the industry say, RFID technology is never going to suddenly explode. Iterations of RFID technology have been around since 1946 when a Soviet Spy invented a clever listening device. It's a technology that develops slowly. If you're expecting a sudden take off, you'll be waiting for some time yet. That said, the number of RFID applications available increase every year. For example, the recent development of mobile RFID printers has enabled applications where stock or assets can be labelled 'in the field'. Mobile technology is developing quickly, and that will continue to drive RFID innovation on the move.

2. It's all about the mandates

It has long been assumed that when big retailers mandate the use of RFID for suppliers, the technology becomes more widespread. In reality, mandates are important, but there are a number of drivers for take-up of the technology.

For example, the Wal-Mart mandate is still frequently cited as the reason why RFID is so much more advanced in the US. Today, 500 suppliers are still mandated, but the majority of them feel that the retailer is no longer pushing it

Zebra Strips RFID to Reveal Its Full Potential

Zebra Technologies, the on-demand printing solutions provider, has launched an RFID guide to help companies better understand the technology and how it can help during the recession. The guide, called 'Think you know RFID?', offers an insight into the technology and addresses the most common myths associated with it. "In the 1990s recession, Auto-ID sales climbed despite high costs, as companies streamlined their objectives. It is likely we will see this again as we stride deeper into the current recession. RFID attracts attention as more businesses demonstrate return on their investments with this technology," said Christine Watts, VP Marketing, EMEA at Zebra Technologies. As well as explaining RFID and its expansion, the guide identifies the five myths that are described in this article and that customers and prospects frequently associate with the technology. "We've been working with RFID technology for nearly ten years and gained a broad experience of RFID across a variety of industries. We believe RFID compliance has enormous strategic implications for retailers, manufacturers and suppliers," said Watts.

Security miles ahead

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– the pressure isn't on like it once was. One mandate that is being pushed is Sam's Club, a wholesale retailer owned by Wal-Mart. Also, Best Buy Stores has mandated 100 suppliers. In Europe, there have also been important mandates, such as that from the leading German retail giant Metro. In 2007 the business mandated 650 suppliers to use RFID.

However, it's important to remember that there are now a number of different drivers for RFID take-up, which don't just involve the retail and healthcare markets. For example, increased concerns about security of high-value IT equipment has meant that UHF tags are increasingly used for asset tracking in the supply chain.

Also, tighter restrictions around entry at events, and security concerns for employees have increased usage of UHF tags for access control and monitoring employees arriving and leaving work for security reasons.

3. They'll be tagging your favourite pet next...or even us?

In fact, tagging animals with RFID is already happening – it's a requirement of the Pets Passport Scheme and is used to provide a 'cradle to table' life history for livestock. Cattle have been tagged in this way for many years in fact.

As for humans, this is perhaps further away in most cases. We're certainly not all suddenly going to be implanted with RFID chips and followed around the supermarket by CCTV. On the other hand, RFID wristbands are being used in healthcare to identify patients and keep track of their treatment. Putting a chip on a wristband is slightly more sensible than subcutaneous implants.

4. The next big thing: in ten years, RFID will have replaced the barcode

There are plenty of alternatives to RFID – sometimes users just don't understand what's available. In re-

ality, RFID is only suitable in a small number of cases – more often than not there's another Auto-ID solution that works. In Europe, sales of 2D barcodes (containing twice as much information as the conventional one dimensional version) are growing ten times as quickly as any kind of RFID tags. They are particularly popular for labelling drugs in order to avoid counterfeiting. Sometimes using something as simple as a mobile barcode printer instead of a fixed one in the warehouse can make significant time and money savings. And finally, it comes down to cost. Although there are some pilots of item level tagging taking place in the US, conventional barcodes will always be a fraction of the cost of RFID and often do the job just as well. It'll take many, many years for that to change.

5. Interference in hospitals? Blame it on the RFID tag

A study carried out by the University of Amsterdam in the summer of 2008 concluded that the use of RFID technology in hospitals could damage hospital equipment. It reported that the technology could cause electromagnetic interference that could shut down IV pumps and cripple defibrillators. It made for worrying reading for those hospitals investing in RFID technology. However, the report was flawed. According to experts, the tests were carried out under unrealistic conditions. The RFID products were set at extremely high power wattages, and their frequencies weren't consistent with the majority of health care-related RFID applications.

It goes without saying that any prospect of RFID having a negative impact on medical devices has to be taken seriously. In response to concerns about RFID and equipment safety in hospitals, the Automatic Identification Taskforce was organised by the Healthcare Information and Management Systems Society in Chicago. The taskforce brought together customers, vendors and suppliers to discuss the risks of RFID, and concluded that the "risk was less than the reward".

The technology is extremely useful in hospitals, demonstrated by the number of applications available for tracking patients,

blood prescriptions and equipment. It's safe, secure and saves hospital employees' time as well as resources.

Leaner Times, More Opportunities?

In conclusion, RFID certainly has its uses, as it always has done. The industry is simply more realistic about what it can achieve and how it should be used than it was a few years ago. The US is still ahead of Europe in terms of development, but it is important to remember that there are different drivers in each market.

In Europe, organisations like CASAGRAS and businesses like the Metro Group will ensure that RFID remains on the Auto-ID agenda and that it remains a hot topic in relevant circles. RFID will only be genuinely effective when it's used across an industry, rather than by individual businesses. Standards will help, but to truly unleash the potential savings businesses have to work together on this.

What will be interesting to see is how the technology will develop over the next year. RFID is undoubtedly an expensive form of Auto-ID, but leaner times don't necessarily mean lower sales. The recession in the early 1990s was a boom time for the Auto-ID industry. The demands of greater ROI and lower budgets for testing and pilots won't necessarily mean RFID is put on the back burner until wealthier times – it could be just the boost it needs.

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EQ 600 WD II – EverFocus Wide Dynamic Colour Camera

By utilizing Digital Pixel System™ (DPS) technology, the new EverFocus EQ 600 WDII significantly improves the performance of surveillance cameras in extreme lighting conditions. Where traditional CCD cameras face difficulties processing images in strong backlighting, EQ 600 WDII processes each pixel independently, corrects any variation and delivers the best possible images in high-contrast sceneries. The core innovation of DPS is the inclusion of an analogue-to-digital converter (ADC) within each pixel of the image sensor, converting an image into digital format immediately at the point of image capture. The sensor's architecture also eliminates any blooming or smearing under extreme conditions, hence provides supreme image quality. EQ600 WDII offers a user-friendly on-screen display and intuitive control functions. It's the best choice for retail applications, building lobbies and car park entries as well as for all areas where contrasting light conditions are an issue.



Megapixel Lenses

Fujinon has enlarged its range of Megapixel lenses and has now introduced further new models. Complimenting existing models featuring auto iris control (DC type), new versions with manual iris control are now available. The lenses are equipped with metal mounts, focusing knobs for zoom and focus and use the company's proprietary Aspherical Technology optics. Additionally one of the models is also available in a day & night version, supporting day & night cameras. D8x7.8HA 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 7.8–63 mm and a wide aperture of F1.2.



www.fujinon.de

Launch in Europe

The Canadian-based DVR and camera manufacturer Digimerge has launched its products in Europe. The units consistently out-perform rival offerings in the value sector of the market and as installers and end-users seek competitive offerings in a strained economy the range is likely to prove attractive. The DHU500 series of Pentaplex network DVRs will appeal to integrators working on IP-addressable systems. Features such as 480 FPS live view and industry-leading Seagate hard drives have led to a recent 'best buy' recommendation from a major British CCTV magazine serving the installer community. The products will be distributed exclusively in the UK and Europe by ADI-Gardiner, this fact in itself underlining the industry's trust in product build quality.



www.digimerge.com

Perimeter Beam Towers for Industrial Areas

A security system employs a plurality of towers for detecting an intruder. The products MB and PT by Bunker Seguridad prove to be indispensable solutions where the securing of aesthetically landscapes or sensitive areas require a robust but discreet enclosure capable to host both Twin and Quad photoelectric beams, and microwave sensors. The major benefit provided by the PT and MB range is that the intruder is unable to determine the number, position, type and orientation of the security sensors installed inside. MB and PT are an economical perimeter security protection enclosure designed for quick and easy installation. Bunker Seguridad Electronica S.L. is a Spanish company specialized in the manufacturing of products and devices aimed at perimeter security and anti-intrusion systems. Bunker Seguridad was established in the beginning of March 2002, and has been working closely with other leading security manufacturers and distributors, to design and develop a range of products to complement the prestigious end of the Perimeter Security market.



HDTV Camera at Intersec

Axis Communications introduced their new generation of network video products, which support the latest H.264 compression technology at Intersec 2009. Marking its third presence at the Middle East's largest security trade fair and conference, the company revealed its latest broadcast product portfolio of state-of-the-art surveillance systems which support H.264 compression technology on a 54 square meter stand, specifically developed to showcase more than 20 network cameras. Among the products on display were the newly launched Q1755 Camera and M10 Network Camera Series. The storage and bandwidth demands are considerably reduced whilst complying with the SMPTE (Society of Motion Picture and Television Engineers) standards for HDTV.



www.axis.com

Winning Eagle

Dallmeier's VMC-1 "Eagle" won the Security & Safety Award which was presented at the occasion of the Sicurezza trade fair. It managed to prevail over a large starting field in the qualification stage. In the final round the product eventually received the "Top Selection" Award in the "Friendly Product" category. Oliviero Tronconi, president of the Security Award jury and professor at the Politecnico di Milano University explains the jury's decision: "The characteristics that we found most impressive with the VMC-1 "Eagle" were its ease of use and the ergonomic design that make it an effective man-machine interface."



www.dallmeier.com

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AIRPORT

SAFETY · SECURITY · MANAGEMENT



More Accidents but Fewer Fatalities in 2008

The International Air Transport Association (IATA) announced the aviation safety performance for 2008. The total number of fatalities from aviation accidents dropped from 692 in 2007 to 502 in 2008. This resulted in a 56% improvement in the fatality rate from 0.23 fatalities per million passengers to 0.13 per million passengers. The global accident rate (measured in hull losses per million flights of Western-built jet aircraft) stood at 0.81 – or one accident for every 1.2 million flights. This is a slight deterioration on 2007 performance when the accident rate was 0.75 – or one accident for every 1.3 million flights.

There were 109 accidents in 2008 compared to 100 in 2007. The number of fatal accidents increased from 20 in 2007 to 23 in 2008. IATA member airlines significantly outperformed the industry in safety. With 33 accidents, IATA members drove their accident rate downwards from 0.68 in 2007 to 0.52 in 2008. That is equal to one accident for every 1.9 million flights. "Safety is the industry's number one priority. Today's statistics confirm that travelling by air is one of the safest things that a person can do," said Giovanni Bisignani, Director General and CEO of IATA.

There are significant regional differences in the accident rate. North Asia had a perfect record of zero hull losses in 2008. North America (0.58), Europe (0.42) and Asia / Pacific (0.58) all performed better than the global average. Africa had an accident rate that was 2.6 times worse than the world average (2.12). However, this extends a year-on-year trend of significant improvements. The Commonwealth of Independent States (CIS) had the

worst accident rate in the world at 6.43 (7.9 times worse than the global average).

Three Issues Emerged in 2008:

Runway excursions accounted for 25% of all accidents in 2008. IATA will launch a Runway Safety Toolkit in 2009, which it has developed with Flight Safety Foundation. The toolkit will also be incorporated with IATA's broad ranging safety data tools in the IATA Global Safety Information Centre to be launched later this year.

Ground damage accounted for 17% of all accidents in 2008. To improve safety and combat this US-\$ 4 billion annual industry cost, IATA has launched the IATA Safety Audit for Ground Operations. This is the first global safety standard for ground operations. A total of 80 audits are targeted for this year.

A total of 30% of all accidents in 2008 noted deficient safety management at the airline level as a contributing factor. IATA has incorporated a requirement for Safety Management Systems into the IATA Operational Safety Audit and is working with carriers at an individual and regional level for effective implementation.

These initiatives are consistent with IATA's comprehensive Six-point Safety Programme which focuses on infrastructure safety, safety data management and analysis, operations, Safety Management Systems, maintenance and auditing.

"Our record on safety is impressive. But the accident in Buffalo and all the 502 fatalities in air accidents in 2008 are human tragedies reminding airlines, regulators and industry partners everywhere that safety is a constant challenge and we must always strive to do better. Our target is zero accidents, and zero fatalities. Nothing less is an acceptable result," said Bisignani.

www.iata.org



CONTROL ROOMS

The Big Picture

Large Screen Technology in Control Rooms and Operation Centers

Control rooms and operation centers are considered to be rather boring workspaces in which people are watching displays 24 hours a day, pretending to control, and nothing happens anyway. However, in many different branches, control rooms are a necessary and useful instrument, guaranteeing stable processing and security.

These "nerve centers" of companies and organizations are, in fact, anything but boring since these control rooms most often use the latest large screen technology for the central and comprehensive display of all relevant information. This allows quick and efficient reactions in case of emergencies or other sorts of failures and alarms.

The technologies used for large screen systems in control rooms differ depending on the kind of application, the space available for the system, the number of operators and other factors. eyevis, a German manufacturer of large screen solutions, offers a complete range of products for any kind of application. Eyevis has many years of experience in the fields of large screen technology and is specialized in the customized planning and realization of large screen systems world-wide.

Made to Measure

Control rooms and operation centers cannot be purchased off the shelf, because the requirements towards the system vary too much even within individual fields of applications. Much more critical is the interoperability of the different components installed. This starts with the

planning of the room, leads to ergonomic studies, comes to the integration of signal sources, and is far from being finished with the furnishing. Large screen systems for such applications should be ready for 24/7 operation, i.e. they have to meet the requirements of continuous long-term operation and should have appropriate features. Of course, at the same time, ergonomic demands have to be fulfilled. For this reason, conventional projectors are not a suitable option for control room applications. With projectors, the rooms have to be darkened, the devices produce disturbing noise, the image quality is poor, resolution is limited, their components in general are not made for long-term operation, and the display capabilities are usually restricted.

A control room fitted with modern, ergonomic equipment comprising the latest display technology can decisively enhance the efficiency of the processes, and therefore can improve the productivity of the complete site. Unclearly arranged work spaces, inappropriate or even no large screen system, make the workflow more complicated, inefficient, and may even cause an increased amount of stress in case of emergencies, which may lead to faulty operations and false reactions. Today, the implementation of large screen systems for the comprehensive display of all relevant processes and information is very common. They are the only solution granting a clear overview of the situation to all operators in the control room at the same time.

Keeping the Ghosts Away

The technologies most often used in control rooms of today and tomorrow, are rear-projection cubes, based on DLP technology, and LC displays.

Rear-projection cubes are available with various screen sizes and resolution standards. A number of these cubes can be combined to almost "seamless" large screen walls. The main advantage of these systems is their invulnerability for burn-in effects with static image content. Further, these cubes offer several optimizing features, such as automatic double-lamp systems, or automatic adjustment of color and brightness. In addition to that, the components used for these devices are designed for long-term operation. Another display technology, primarily used in domestic environments, is plasma displays. These are excellent for the display of video data for consumers, but not for control room applications. Plasma displays are already very likely to suffer from burn-in effects after a short time if static images are displayed. This can even happen with video images from cameras, since they usually show the same area and much of the content remains unchanged. Burn-ins can also happen with on-screen elements of the camera signal, like the camera number or channel ID. "Burn-in" describes an irreversible affection of the phosphor layer, and therefore a sustained defect of the device. Lower costs when the system is purchased may now turn into the opposite.

In the recent past, we can observe an increasing number of large screen systems using a matrix of LC displays. Here it is important to note that professional devices are used providing optimized features for long-term operation. Although LC displays are not so endangered by burn-in effects with static images as plasma displays are, they may suffer from similar effects, like memory effects and ghost images. This memory effect does not turn up immediately; it is reversible and in general disappears completely when the display is switched off for about 24 hours. There are several methods available to avoid this risk. One possibility is to switch the display off for 4-6 hours within 24 hours. Another solution could be to switch the images from one display to another from time to time (e.g. different wall layouts for night and day operation). With a scheduler tool, like the one integrated in Eyevis' Eyecon wall management software, this can also be done automatically. Of course, it is also possible to use a kind of screen saver. The Eye-LCD series provides a so-called running-line screen saver option. This running line is only one pixel wide and can be adjusted with regard to time and speed. This kind of screen saver does not affect the readability of the information displayed. For control room applications one should keep clear of cheap, fanless LC displays, since heat is one of the main reasons for the appearance of memory effects. The displays from the Eye-LCD series contain several fans which use special ventilation ducts to dissipate the heat produced by the displays of a monitor wall.

Mind the Gap

So, if we make a direct comparison of the different technologies, we can exclude the use of

plasma displays from control room applications due to their sensitivity to burn-in effects, their lower resolution and the wide gaps between the displays when used in a combined video wall. Common projectors for office applications should also not be taken into account. What is left for professional video wall applications are DLP cubes and professional LC displays. Besides the display solution, sophisticated large screen systems generally comprise a so-called split controller including appropriate control management software. To avoid problems of interoperability in the preferred solution, all of these components should be available from one provider.

LCD monitors are already available with a relatively thin bezel, which is especially important for modular video wall applications. But with approximately 14mm per LC display, the resulting gap is still much wider than with cubes which provide a gap of only about 0.3 mm per cube. As technology is continuously developing further, the gap for LC displays will become smaller. The aspect ratio of LC displays is always 16:9, whereas many software applications produce images in 4:3 or 5:4. This results in distorted images when displayed in full-screen mode. Or the display shows black zones bottom and top, or on both sides if the image is displayed in native aspect ratio. DLP cubes are available with all common aspect ratios, 16:9 (16:10), 4:3 and

5:4. Further differences can be observed when we look at the available display resolutions for both technologies. LC displays usually only offer two different resolutions; these are 1366x768 and 1920x1080 pixels. Here, cubes can once more show their higher flexibility, since they are available with 1,024 x 768, 128 x 1024, 1,400 x 1,050 and 1,920 x 1,080 pixels. Cubes with resolutions up to 1,920 x 1,200 pixels are already under development.

Let There Be Light

A disadvantage of the DLP cubes is the high-performance lamp used for illumination. These lamps have an MTBF of approx. 10,000 hours. To guarantee higher reliability of the systems, they can be equipped with automatic double-lamp systems, i.e. the system automatically switches within seconds to a second spare lamp if the operating lamp breaks. Cubes using alternative light sources for illumination (LED) provide a higher MTBF of approx. 50,000 hours.

LC displays have no lamps for illumination. Here, the light comes from the so-called panel backlight, which can be either LED-based or a kind of tubular fluorescent lamp. In general, these panel backlights are indicated with an MTBF of about 50,000 hours. The core of a DLP cube is the DMD (Digital Micromirror Device) chip with an MTBF of 100,000 hours.

Keeping Control

A modular matrix of screens made up of LCD monitors or DLP cubes is generally controlled by a so-called split controller which provides special graphic boards for incoming and outgoing signal sources (RGB, DVI, LAN, analog Video or IP Video). With these graphics controller units it is possible to display all connected signals and sources on the large screen wall. These signals can be PCs connected via RGB or DVI inputs, applications running directly on the controller, network sources and video signals, for example. The split controller should support real-time display of the sources. Further, streaming video or video over IP should be decoded by hardware decoding cards inside the controller. With a convenient software solution it is possible to control and administer the complete system and all connected signal sources.

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SAFETY

On-board Transit Chair for Air, Sea and Rail

Evac+Chair International Ltd is a UK based company with over 20 years experience in the design and manufacture of patient and passenger transport solutions for persons with mobility impairment. The Air+Chair is part of a family of products, and provides assistance to disabled persons and persons with reduced mobility travelling by air, sea or rail and protects them from discrimination through intelligent design.

Disabled Person's Transport Advisory Committee (DPTAC) is a UK Government advisory body established under the Transport Act 1985. In 2007 it released a design specification for an On-Board Wheelchair to be carried on commercial passenger aircraft. This is the first public document created in response to the European Union Regulation 1107/2006, which gives disabled people and people with reduced mobility opportunities for air travel comparable to other citizens when they fly out of EU airports.

According to the regulation, airport operators and operating air carriers within the Community shall not refuse to "embark a disabled person or person of reduced mobility provided that the person concerned has a valid ticket and reservation." (Art.3(b))

"If the size of the aircraft or its doors makes embarkation or carriage of that person physically impossible" they "shall make reasonable efforts to propose acceptable alternative to the person in question" (Art 4.1(b)). This is not intended to allow derogation of duty, but to make positive steps to assist with embarkation, to make reasonable efforts to arrange seating to meet individual needs, and to assist in moving to toilet facilities if required.

Although the DPTAC design specification is not a statutory requirement, it is intended to promote best practice in meeting the needs of disabled people. It will be a matter for regulators, providers and operators to decide whether to adopt these specifications for themselves.

The picture of the Air+Chair™ illustrates how the specification has been interpreted by



Evac+Chair International Limited, a well known company with a range of products suitable for passenger handling. The Air+Chair weigh 8 kgs and accommodates a narrow aisle from 390 mm (15.5 inches) wide. Its folding back rest and gull-wings allow for easy transfer into the aisle. The maximum payload of 250 kg is due to the intelligent design of the load bearing support legs and cross beams. The Air+Chair has several unique features which have been registered with the UK Patent Office. The Air+Chair is an intelligent solution for air, sea and rail applications.

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Video Surveillance Platform for Munich Airport

Aimetis Symphony will be installed as the video surveillance software platform in Munich Airport's Terminal One. It provides the airport with a single platform for upgrading the existing analog CCTV system to operate over an IP network and for integrating the video system with other systems also operating on the network, such as, the command center software, burglar alarm and fire alarm systems. "The upgraded video surveillance system is a critical component of the airport operations," said Michael Zaddach, Manager IT Service, Munich Airport. "Aimetis Symphony will assure the smooth flow of operations, help to prevent and solve crimes and will provide emergency crews with the information they need in special situations." The company has partnered with Alcatel-Lucent, who will provide system integration and project management to deliver a turnkey solution for the largest and most innovative IP CCTV project in Germany.

www.aimetis.com



Optimizing Air Traffic Management

Knürr Technical Furniture presents console solutions for traffic control centers, control rooms and air traffic controller workstations at ATC Global. In addition to the company's modular LCD Monitor Wall, from 17 to 19 March, interested trade visitors can get their first look at the newly developed and height-adjustable air traffic controller desk with integrated 2k-2k monitor. Also on the trade fair will be the company's Operations Control Center (OCC) console with integrated voice communication system. It is especially designed to cover the demanding requirements in safety/security areas. It features flexible height setting of the worktop levels and an ergonomic adjustment of the displays. The integration of all monitors that are important for Air Traffic Control (ATC) and Air Traffic Management (ATM) is also easy to implement, because the monitors can be optimally added to the overall solution concept.

www.knuerr.com

Global Hybrid Network Deal

Sita announced that it has signed a five-year, US-\$76 million contract to implement and maintain an advanced communications and desk-top infrastructure for Saudi Arabian Airlines (SV) globally. The hybrid network solution will facilitate the introduction of a broad range of new applications including a new Passenger Management System. The new project will help the 18-million passenger airline to reduce its communications-related costs significantly, become more flexible and provide its customers and staff with advanced, future-proof services with mobility access over SITA's (IP-VPN) secured network, the largest private network in the world. The project represents the second part of a two-phase project which initially commenced in June 2006 to renovate the IT and communications infrastructure.

www.sita.aero



Electronic Passport

Giesecke and Devrient Government Solutions has delivered electronic passport documents and a complete personalization system to the Brunei Ministry of Home Affairs. The US-\$7.1 million e-passport project is replacing the country's existing machine readable passport, which was introduced and delivered by the company in 1993. A contactless 72 KB chip, made by NXP, is embedded into the data page of the document and contains the personal and biometric data of the passport holder in the form of facial and fingerprint images. The data page itself is made of the company's "Pesec" material, that is particularly suited for laser engravings. Its flexibility and durability make for a very good platform for the visual personalization of text, machine readable data, and photos as well as for a series of particular security features. Advanced security mechanisms for access to the chip data and verification of data authenticity ensure that the data of document holders cannot be misused by unauthorized persons or organizations. Any criminal manipulation of the electronic data is detected – the documents are protected against forgery.

www.gi-de.com

Automated Border Control

German manufacturer Kaba Gallenschütz offers different types of interlock systems for Automated Border Control. These solutions allow registered passengers, such as frequent travellers, to pass through the check points using an automatic identification system. The system consists of an interlocking sensor barrier ready to be equipped with a document reader outside and a biometric device inside the passageway. For this purpose, any standard document reader and biometric device can be applied. As an additional feature, the company's ABC system is equipped with an infrared sensor to detect that just one person at a time is inside the interlock – an essential requirement for reliable border control. The units for Automated Border Control are currently operating in a number of pilot projects in European airports.

www.kaba-gallenschuetz.de



New Quality Management Standard

ASD-Stan has published the new Pr EN 9100:2009 Edition P3 which was prepared by the International Aerospace Quality Group (IAQG) with representatives from companies in the Americas, Asia/Pacific and Europe. It supersedes and replaces the previous Edition P2 September 2001 and EN 9100:2003. This document standardizes quality management system requirements to the greatest extent possible and can be used at all levels of the supply chain by organizations around the world. Its use should result in improved quality, schedule and cost performance by the reduction or elimination of organization-unique requirements and wider application of good practice. While primarily developed for the aviation, space and defence industry, this standard can also be used in other industry sectors where a quality management system with additional requirements over an ISO 9001 system is needed.

www.asd-stan.org

Playback and Recording System

Technomad Associates introduces the Schedulon, a new automatic Mp3 player and recording system designed for integration into commercial security systems for airports and transportation centers of any size. The system provides instant playback of up to 99 knob-assigned, user-loaded audio files from a front-panel screen, and allows automatic playback on a user-defined schedule based on an internal clock or synchronized network time server. Operators can interrupt automatic messages and play a knob-assigned siren or emergency announcement from an internal sound library in critical situations. It is a reliable, standalone system with few moving parts and Flash RAM storage, and no computer is required for automatic playback.

www.technomad.com



Frankfurt Airport's Expansion Has Started

Fraport considers commencement of work on the capacity expansion of Frankfurt Airport (FRA) "a great day for the entire German aviation industry and a signal to the capital market underscoring FRA's future competitiveness." The company's executive board chairman Prof. Dr. Wilhelm Bender explained, "the expansion keeps Fraport on course for staying competitive in the future." The Company's CEO said, "the new landing runway and the planned Terminal 3 provide the foundation for economic growth and a noticeable increase in jobs at the airport and throughout the region." Bender pointed out that FRA is not only one of the biggest construction sites but also one of the most significant investment locations in Europe. The Company alone is investing more than €4 billion in the expansion of Frankfurt Airport.

www.fraport.com

AIRPORTS / FIRE PROTECTION

Have a Nice Flight!

OxyReduct in Heathrow Airport



Heathrow Airport, new control tower including surrounding apron.
Photographer: Julian Calverley; © BAA Limited

Terminal 5 is the latest extension of the international airport London-Heathrow. Since its completion in 2008, it has a capacity of 30 million passengers per year. The terminal is used almost entirely by British Airways (BA). Within the infrastructure at the terminal two new computer centres are housed operated by British Airways, which will be reliably protected from fire by a solution named "OxyReduct".

Situated in the west of Britain's Capital City London-Heathrow, with more than 67 million airline passengers, has the most passengers in Europe and the third-most worldwide. The construction of the new terminal began in 2002. The terminal consists of a 396-metre-long and 176-metre-wide main building as well as two adjoining buildings, each 442 m long and 42 m wide. All in all, up to 60 airplanes can be dispatched at the same time. British Airways is occupying the new terminal almost completely itself. It was BA's goal to make logistic operations even more pleasant, easier and more service-oriented for their customers. To guarantee this, British Airways is using the most modern IT technology and to achieve this, the availability of the data processes must be protected stably and reliably. The slightest down-time of any system would be unimaginable for a flight operator which has to consistently function 24 hours a day. And so, the risk assessment given to the Fire Risk Managers at British Airways was always consistent: "We can't afford a fire".

24 Hours of Safe Networking

At the site of Terminal 5 there are two IT areas, one EDP room with a volume of 1,400 m³, as well as another EDP room of volume 950 m³: OxyReduct, which received the acceptance from British Airways doesn't react to a fire event like a conventional extinguishing or water mist system, merely minimising possible damage, but it actively avoids a fire before it can occur. According to the definition of the materials located in the computer centre the oxygen content of the whole protective area will be reduced by introducing enough nitrogen so that the suitable substances can't burn any more. The goal of the Risk Managers of British Airways was achieved: Fires can be avoided.

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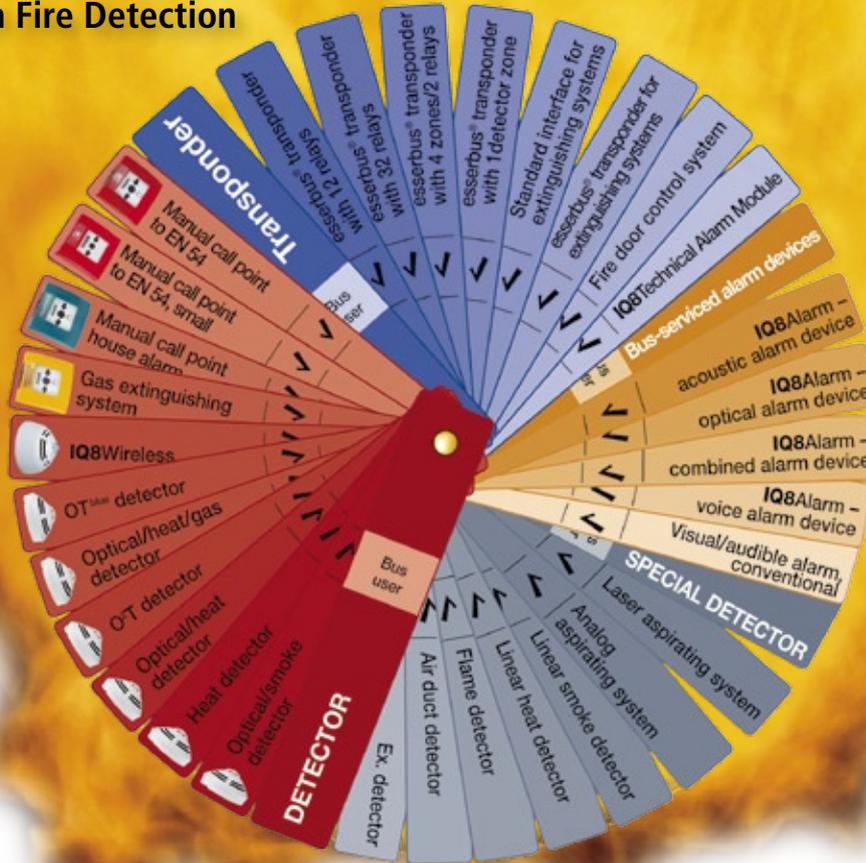


BRITAIN

FIRE DETECTION

Do We Need Such a Diverse Selection of Fire Detectors?

Improvements in Fire Detection



When looking at the catalogues of manufacturers in the field of technical fire detection, it becomes obvious that for fire detectors alone, there is already a vast selection of variants with a multitude of different features. It is almost impossible to produce one detector which is equally sensitive to all fire characteristics. However, there are now products on the market which are getting closer to making this a reality.

Smoke gas detectors react to combustion gases such as carbon monoxide (CO). Heat detectors sound their alarm whenever the surrounding temperature exceeds a predefined maximum value or increases unusually quickly within a certain time span. Flame detectors react to the features of flames. Smoke detectors use different physical effects for the recognition of smoke. The most common variant here is the optical one. It works according to the so-called scattered light principle. Should smoke particles enter the detector's optical chamber, a ray of light

emitted by an LED is diffused by these particles. Part of this diffused light then falls upon a light-sensitive sensor and the smoke detector's alarm is triggered. Ionization smoke detectors work with a radioactive emitter. This type of detector is only used in special cases due to strict regulations involved. Moreover there are special detectors for specific areas of use such as line heat detectors and/or line smoke detectors or aspirating smoke detectors.

Research is being carried out concerning biosensors: for example the Fire-colored Beetle has an 'infrared organ' which possesses thermo-sensitive sensors able to locate changes in temperature which are emitted by forest fires – even across extraordinarily long distances of approximately 60 km!

Different fire detectors on the market today are already rather sophisticated due to the progress made in the area of microprocessor technology, yet there is still room for development. One decisive criterion concerning fire detection is the resistance to disturbance signals. False alarms are caused by exhaust from internal combustion engines, cigarette smoke or

steam. By evaluating different characteristics in so-called multi-sensor detectors (OT, OTG, O²T) a reduced sensitivity to such false variables can be achieved. Innovative technology for optical detectors has been using a blue light-emitting diode instead of the usual infrared LED for quite some time now.

The Calming Effect of Blue

In 2006, the Japanese scientist Shuji Nakamura received the Millennium Technology Award. At one million dollars, it is the highest paying award in technology research worldwide. The jury honored Nakamura's achievements in the development of blue light-emitting diodes and laser diodes. Such blue LEDs also form the basis for the IQ8Quad OTblue fire detector. This is a multi-criterion detector which uses the combination of an optical and a heat sensor in order to reduce the rate of false alarms. In order to evaluate the usage of blue LEDs being used here, one needs to understand the technical background. One manufacturer who was supposedly dealing with the topic in a professional way unknowingly disqualified themselves publicly by using

incorrect and somewhat ignorant counterarguments. The statement "If we need such a detector, then we'll also build one with orange light," seems to experts like a spiteful reaction due to lack of knowledge on the subject, even overlooking the fact that it should actually read "orange-colored light". All this when the color blue is supposed to have a calming effect on our nervous system, not an upsetting one.

A Short Excursion into the Technology

In the theory of diffusion, there is the concept of the Rayleigh scattering (or Rayleigh diffusion), which states that a diffused light yield of a much higher degree can be achieved if the wave length is respectively smaller. Therefore, the usage of blue LEDs offers a significant advantage for aerosol sizes which are smaller than the respective wave length. A blue LED might have a significantly smaller yield of light than a red one, yet what seems like a shortcoming at first glance is actually an advantage since the diffused light signal of blue light is approximately 10 to 15 times higher than that of a red LED. It is also possible to work with a higher transmitting current. A higher transmitting current can additionally be worked with here so that the end result is

a significantly more sensitive diffused light sensor compared to using red light. The IQ8Quad OTblue fire detector uses this technology and received an award for the "Most Innovative Product" at the MIPS, the largest international exhibition for security and fire fighting in Russia. Apart from the VdS certification and the certification in France, the detector also holds the Polish CNBOP certification. The test fires implemented here are carried out in accordance with the EN standard and are even more demanding than the fire tests done by the VdS.

The detector is the only product worldwide which has passed all standardized test fires without ionization element. Moreover, it also poses an interesting alternative for specialized planners in the area of heating, air-condition and ventilation since it is also used in air duct detectors. The advantages for the optical heat detector with a blue LED are therefore obvious: despite completely avoiding radioactive material, it fully covers the sensitivity area thus far reserved for ionization detectors. It even detects very small aerosols with a consistently high degree of sensitivity and also even contributes to protecting the environment. All of this makes it attractive product indeed, and not only for coun-

tries in which the use of I-detectors is forbidden.

From Simple Detector to All-rounder

In addition to quick and reliable fire detection, the significance of being able to carry out a timely alarm and evacuation today is increasing more and more. There are already fire detectors which also offer possibilities for alarms such as the optical function of a flasher, the acoustic alarm of an alarm sounder and the functionality of a voice alarm, apart from the detection itself. These alarms are regarded as being true all-rounders.

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Switching Input/Output

Apollo's new mains switching input/output unit, designed for mounting on a DIN-rail, provides a voltage-free, single pole change-over relay output with a contact rating of 250V AC @ 5Amp and 48V DC @ 2Amp. It also has a monitored switch input that is designed to supervise one or more normally-open switches connected to a single-pair of cables. The device is supplied in a DIN-rail housing which can be clipped onto a standard 35 mm DIN-rail (DIN 46277). Connections are made via plug-in terminal blocks which accept wires up to 2.5 mm². The unit has dimensions of 110 x 107 x 20 mm and weighs 95g. It has been designed to comply with EN54-18. The mains switching input/output unit is loop-powered and can only operate with control equipment using the company's XP95 or Discovery protocols. Application examples include air sampling units, mains power shut-down on machinery, automatic door retainers, smoke dampers and gas valves.

www.apollo-fire-co.uk



Hand Protection Solutions

Ansell Healthcare showcased its large portfolio of safety and hand protection solutions at Intersec Middle East in Dubai. On display were the Company's recent innovations designed to address specific occupational safety hazards. Next to the introduction of the PowerFlex 80-658 cut-resistant glove and the Hyflex 11-435, a cut resistant level 5 glove made with water-based polyurethane (PU), the producer is also presenting its targeted solutions package, aimed at the construction industry, including a wide range of gloves for the most diverse applications or exposure risks. Dexterity, adequate protection against cuts and abrasion, and good grip are key requirements for many building and construction workers. There are also gloves that protect against chemicals because the hands of bricklayers, roofers, plasterers or tile setters come into contact with alkaline concrete or solvent-based sprays.

www.ansell.eu



Light Weight Overspectacles

Uvex has launched its light weight "Super G" with a polycarbonate lens and the company's hingeless side pieces. These overspectacles are highly versatile and offer optimum protection. The hingeless side pieces are made of Grilamid, combining the benefits of temple glasses with the comfort of a headband. The material is highly impact-resistant, even at low temperatures, and is also extremely resistant to chemicals. The glasses can be adjusted quickly and easily, and the inclination can be adjusted to suit. Thanks to the flat base curve, the eye is covered sufficiently. The glasses have soft, highly flexible ear pieces.

www.uvex-safety.de

Fire Alarm System

Notifier by Honeywell has introduced its new fire alarms from the "Opal"-series, replacing the existing alarms of the 700-series. The alarm series is composed of an optical smoke alarm, a thermo-differential alarm, and a multi-sensor smoke alarm with optical, thermo and IR-sensors. Also available will be the newest versions of the ring bus modules and ring bus fed alarms. The use of fire alarm systems with ring bus elements of the Opal-series offers the installation contractor advantages with the installation, operation and problem-shooting of fire alarm systems. The new, 5 mm lower universal base facilitates better cabling access, and offers a universal solution for on-wall and in-wall wiring and a plastic platelet can be taken off and used as a mounting for the labeling of the alarm.

www.notifier.de





FIRE DETECTION

Be Ready

when Things Become Hot

Efficient Approaches to Fire Prevention

Fire means danger – for people as well as buildings and facilities. Fires can also bring disastrous consequences to companies, resulting in financial ruin after the flames have been extinguished. In particular, small and medium-sized companies cannot usually absorb the long periods of shutdown that follow a serious fire. The best protection, in order to minimize damage and avoid the worst outcome, is prevention. Prevention calls for two approaches. An appropriate plant-specific fire protection plan should be established which suits the plant/building layout and ensures the most suitable choice of fire alarm systems. Internal emergency plans should also be put in place to regulate the conduct of personnel in the event of a fire, and to make sure that any damage is kept to a minimum.

Planning Fire Protection from the Start

Comprehensive fire protection starts during the construction phase. For this reason companies involved in the construction process should coordinate their activities and plan the installation of fire detection technology early. Locking devices on fire or smoke protection doors, for instance, should be included in the construction plan right from the start. Insurers will expect numerous regulations on the installation and operational efficiency of fire detection technology to be met and this will, in the main, dictate the framework for the

fire protection concept. For planning and installation, companies and public institutions can employ the services of safety technology providers.

No Smoke without Fire: Fire Detection Technology

A fire can be noticed in different ways. The identifying characteristics of a fire include flames or sparks, smoke, increased levels of carbon monoxide or heat. Depending on the site and application, the type of scenario that might lead to

the outbreak of a fire in a plant or public institution will dictate the choice of fire technology. An unattended candle in an office, for example, requires a different form of monitoring than gas that could escape from propane gas bottles in a warehouse, or the creation of gas in a silo.

A number of different fire detection and gas measuring systems are available to identify these different types of hazard. These include punctiform fire detectors, gas sensors, gas sensing heads and video flame detectors.



Classic punctiform fire detectors identify imminent danger through the detection of smoke. They are used in offices and in industry. However, these alarm generators do not necessarily suit every condition. In environments where fog appears regularly, for instance, fires will need to be identified by another method rather than smoke detection.

CCTV flame detectors operate on the principle that they detect the movement and outline of a fire. They are also able to detect fires at greater distances. The Dräger Flame 5000, for example, provides real-time information on potentially hazardous areas and, should a flame be detected, will immediately issue an alarm. Featuring enhanced video technology, it also records each event. Unlike infrared or ultraviolet detectors, video flame detectors of this kind use the camera to detect the flame and, as a result, can virtually eliminate the false alarms that can be caused by weather or heat radiation.

Gas measuring technology is recommended in areas where fires could be the result of gas generation or a gas escape. Sources of danger can also be identified in explosive areas and displayed before the first flame appears.

To establish comprehensive safety management in areas where toxic and explosive gases are handled, it is recommended that fire detectors and gas measuring technology are integrated into a network. By linking the information

and ensuring uniform visualization, the use of both systems will provide an overview of fire development as well as the gas concentration.

As a VDS-certified installer of fire alarm systems, Dräger provides information on relevant regulations and on choosing the appropriate fire detection technology, and also carries out installation and maintenance work.

Risk Management for the Worst Case Scenario

Once a fire has broken out and has been identified, the initial steps following detection can have a major effect on the ultimate extent of the disaster. In the time between damage occurring and the police, fire department or rescue services arriving, there is always a "reaction gap". Events can escalate during this period unless protective measures are taken immediately. Even small fires can easily become out of control and turn into a blaze.

Dräger offers extensive training on correct conduct in dangerous situations. Practice-oriented training courses are designed to instruct users on the safe handling of fire extinguishers, or how to evacuate buildings in an emergency. To ensure that they take suitable emergency measures, course participants are taught how to identify critical situations and how to assess possible developments. In seminars on crisis management and communication, they deal

with actual incidents. They are shown how to work out emergency plans and how to create sound concepts for handling risk situations. These training sessions prepare the participants, in realistic conditions, so that they are able to take the right measures, even when under extreme mental strain.

Managers are trained to keep the effects of an incident to a minimum, helping to accelerate the return of normal operations.

Complete Protection Requires Both Man and Technology

Internal fire protection calls for the comprehensive protection of personnel as well as the installation – against fire, its cause and its consequences. To reduce the risk, buildings should be equipped with appropriate measuring and alarm technology. It is also recommended that personnel are prepared, ready to deal with worst case scenarios. This will ensure that the right measures are taken as soon as an incident has been detected and that any damages are kept to an absolute minimum.

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GAS DETECTION

Gas Detection in Explosive Atmospheres

Honeywell has launched "Signalpoint Pro", an Intrinsically Safe (IS) certified gas detector that offers a low-cost solution for the detection of toxic and oxygen gases in potentially explosive atmospheres worldwide. The detector is suited to a wide range of indoor and outdoor applications, detecting toxic gases or Oxygen in an IS 2-wire 4–20 mA format. This wiring configuration makes the instrument particularly suited for retrofitting other 2-wire IS devices including the Sieger Series 2000 range of 2-wire IS toxic gas detectors.

The device offers very high reliability and ease of use; its smart gas sensors are automatically recognised when plugged into the detector and access to the sensor does not require opening the main terminal housing. This reduces

down-time during sensor replacement procedures. The detector full scale gas range and span calibration points can be adjusted to suit individual requirements, making it a flexible device suited to a wide range of applications.

The instrument utilizes a magnetically activated switch, permitting initiation of calibration and test routines without opening the enclosure or having to obtain a hot work permit. In addition, on-board diagnostics provide fault and warning codes on the display that are invaluable when troubleshooting an installation. The system is ATEX, UL and CSA certified. Detectable gases are Oxygen, Hydrogen Sulphide, Carbon Monoxide, Sulphur Dioxide, Ammonia, Nitrogen Dioxide and Hydrogen.



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SAFETY

INFOSECURITY

Software Security: Being Secure in an Insecure World

How to Ensure Security in Software



One can consider the information age as an extension of the industrial age, characterized by the focus on production of physical goods. Today, most manufacturing efforts are augmented and in some cases managed by components of the information age. With software, technical solutions to business problems are possible. With software, we can all be connected. And while software, with its expression of extensive internet networking connectivity (Internet), has in fact made the world smaller, it has done little to make it secure.

Extremely useful and productivity-enhancing software is persistently exploited from a security standpoint or has the potential to be exploited – a concern that is true for both existing and newly developed releases. Few realise however, that while some of the insecurity in software could be the result of the technology chosen, it is important to note that software products are predominantly insecure due to two other elements – people and processes. Any software is the result of a confluence of people, process, and technology. Secure software is the result of educated and informed people implementing hack-resilient processes using inherently secure technologies to provide solutions to a business need.

It must first be recognised that security is a process to be woven into the software development life cycle (SDLC). Software products built today are primarily focused on business functionality and features. Even though the SDLC may cover quality-control planning and testing, seldom does it incorporate security holistically. Adequate security controls are lacking while security requirements are in many cases non-existent. Use cases are not complemented with their inverse misuse cases. Developers are driven to deliver functionality with deadline and scope constraints, pushing the writing of secure code to the sidelines. Testers are often inadequately trained to look for security vulnerabilities. Finally, when developed and released to the public as commercial-off-the-shelf (COTS) software, or deployed into production, as in the case of internal business software, software that does not factor in security through its life cycle is often rife with vulnerabilities that practically implore an attacker to exploit them.

Defining Requirements

It's a given that if the core tenets of security are not included as requirements, then the software when designed is probably not going to have them. The business must be engaged during the requirements-gathering stage to address security aspects and aid in the understanding of the risk or protection requirements. It must:

- respect established policies and standards for the organisation and be compliant with

audit requirements. Software requirements must also take into consideration the regulatory (legal), compliance, and privacy requirements at a local and international level;

- reflect confidentiality, integrity, and availability (CIA) objectives of the software. Is the data or information open for viewing by all or should it be restricted (confidentiality requirement)? What are the factors that allow for authorized alterations, and who is allowed to make them (integrity requirement)? What is the accessibility of the software and what is the allowable downtime (availability requirement)?
- consider the software authentication aspect (proving of claims and identities), Authorization aspect (rights of the requestor), and auditing aspect (accountability or building historical evidence).
- If software is to be bought, rather than built in-house, developing the procurement requirements is important.

Managing the Project

Even in cases where security requirements are determined, they often run the risk of being dropped from the feature specifications or being lost in translation due to the constraints of time and budget, and/or a lack of understanding of their importance. Project managers should plan and allow for time and budget to ensure security requirements are not ignored. From the vantage point of security, it's not only important that the functionality of the software is depicted in use cases, but also critical that the inverse of the use cases (misuse cases) be modelled to understand and address the security aspects of the software. The "security" design and architecture reviews should be included when the teams are engaged in the "functional" design and architecture review of the software. Threat modelling is useful for ensuring that the design complements the security objectives, making trade-off and prioritization-of-effort decisions, besides reducing the risk of security issues during development and operations.

Contrary to popular opinion that software security is all about writing secure code, and although it is a very important and critical step in the SDLC, secure code writing is only one of the various steps necessary to ensure security in software. A security plan, generated during the design phase of the project, must also be revis-

ited and adjusted if necessary. Educating testers to become software security testers boosts the technical aptitude of the quality assurance organisation. In post development, a risk assessment will help identify the risks that have been mitigated and the ones that still need to be addressed.

Pressure to Reduce Controls

All efforts to design and develop secure software are rendered futile if the software is not securely deployed and maintained. Software development that does not factor in least privilege often produces software that runs without any issues in a lax development environment. But when deployed to a more tightly controlled and secure production environment, fails. In such situations, administrators often are forced to reduce the tight control or increase the rights with which the software will run, both of which are forms of insecure installation. Software should therefore be tested in environments simulating the production environment, be it system integration testing environment or the user-acceptance testing environment. Once deployed, change control and configuration control should be in place to ensure that only approved changes are made to the code base of the software.

Versioning of software with auditable check-in and check-out procedures is essential, while direct access to production source code should be minimized with explicit authorisation and controlled scrutiny. Other considerations include a process for recertification and reaccreditation, an incident management plan to establish and track reporting and management of incidents, auditing and continuous monitoring to ensure that software security is not affected or reduced over time. Finally, it is vital to ensure that when software is disposed, information that would be needed at a later timeframe is archived for future retrieval by secure means. In cases where data and software is highly sensitive and no longer necessary, it must be physically destroyed.

With software deeply impacting our everyday lives, the need for it to be secure is an absolute necessity. The real cost of insecure software is not merely the quantifiable fines imposed on the negligent, but also the loss in customer confidence, the loss in reputational damage and brand, loss that, in many cases, is irreparable. When it comes to building secure software, people can be the strongest force or the weakest link. The client or customer should be aware of the need and importance of incorporating secu-

ity into the software product they request. The requirements analyst should be trained to solicit and translate functional requirements into security requirements. The project manager should be versed in making necessary project-related decisions and so on. A primary shift is necessary in the mindset of all of the stakeholders in the SDLC process, one that makes security second nature in the software they are responsible for building.

(ISC)² is exhibiting at Infosecurity Europe 2009 held on 28th – 30th April in its new venue Earl's Court, London. The event provides an unrivalled free education programme, exhibitors showcasing new and emerging technologies and offering practical and professional expertise. For further information please visit www.infosec.co.uk.

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Many new technologies will be displayed at Reed Exhibitions' Infosecurity Europe 2009 in London from April 28th to 30th. Last year the exhibition was bigger and busier than ever, with 12,500 visitors and more than 380 exhibitors filling 6,480 m² of stand space. This year the event moves to Earls Court to improve the experience for all stakeholder groups. Earls Court will provide Infosecurity Europe with better facilities, more space, easier access, greater opportunity for growth and most importantly the organisers promise to offer visitors and exhibitors alike the most enjoyable Infosecurity Europe experience.

Visitors may participate in the free education programme where influential global experts stimulate debate and industry practitioners share case study experiences. Infosecurity Europe offers a vibrant atmosphere where visitors can meet international solution providers who showcase current and emerging technologies on the showfloor and deliver practical, professional & technical expertise to solve information security business challenges.

2009 Education Programme

The Infosecurity Europe Education Programme is the highlight of the information security calendar, providing the latest analysis and advice from leading industry practitioners, exploring the key issues facing organisations today and the technologies available to address them. The move to Earls Court will offer the opportunity for two new seminar theatres at the show,



alongside the popular Keynote Programme, Interactive Theatre, Business Strategy and Technical Seminar Theatre sessions.

There will be two new theatres for 2009. The Security Expert Forum will cover a range of current 'HOT' topics, focusing on keynote level technical debates and panel sessions. The Security Café environment features 4 round table workshops where visitors can set the agenda and lead discussions. Each Security Café will focus on a current security theme of DLP, Global Corporate Challenges, Online Security and Threats and Mitigation, with sessions running on specific topics related to each theme every day.

The 2009 free-to-attend Keynote programme will address the security issues and pressures that organisations face in an increasingly mobile and global working environment. Featuring leading experts from across Europe, giving expert analysis, end-user experience, strategic advice and predictions to ensure that visitors have the information they need to protect the operations of their company.

▶ CONTACT

www.infosec.co.uk

EVENT

TranSec World Expo Comes to RAI Amsterdam

With a fresh new look and expanded conference and exhibition programme, TranSec World Expo, the premier event in the transportation security calendar, opens at the prestigious RAI Amsterdam, 3–4 June 2009. TranSec World Expo this year hosts the world's key decision makers and opinion formers in the transportation security arena for two full days of debate in three main conference programmes, will deliver in excess of thirty dedicated specialist workshops and also support one of the most extensive exhibitions of technology from leading vendors globally.

"TranSec World Expo is now in its 7th successful year and our decision to expand the programme of events reflects the fact the transportation sector remains a high profile and high value target for extremists," says Peter Jones, Managing Di-

rector, TranSec World Expo. "Big questions still remain to be answered over how to best protect airlines and airports from new and unforeseen methods of attack; to prevent acts of wanton violence against innocents using mass transit systems and to rid the high seas of acts of piracy. These are all areas for much debate at TranSec World Expo."

The most recent attack against transport and hotel facilities in Mumbai, India, demonstrates succinctly that acts of terrorism remain a potent threat to the safety and wellbeing of the travelling public. It is against this backdrop that TranSec World Expo once again gathers decision makers, opinion formers and the transportation sector together to seek solutions to the most intractable problems faced today.

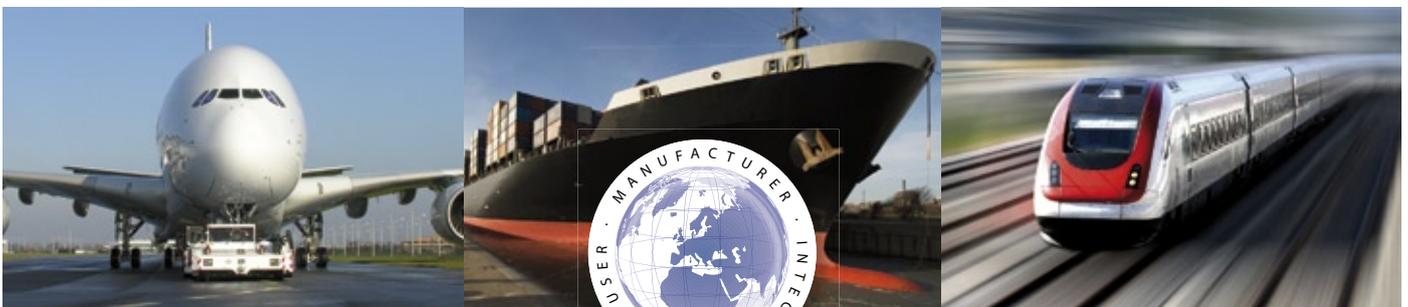
Key themes over the two days of TranSec World Expo include protecting passengers and cargo from international terrorism, organised crime including drug trafficking and people smuggling and the potentially growing threat

presented by weapons of mass destruction. Free to attend workshops include the specialised areas of CCTV & Intrusion Detection; Baggage & Cargo Screening, Passenger Screening and Biometrics & Access Control to name but a few. The exhibition features technology from over 100 of the leading vendors worldwide.

TranSec World Expo will be held in the new and stunning RAI Elicium in Amsterdam. Located on Congress Square and between the two exhibition halls and the congress centre, this is the premier event and exhibition space in the Netherlands. With the RAI Elicium just fifteen minutes from Amsterdam Schiphol and boasting fast metro connections to Amsterdam and Den Haag for high speed rail connections across Europe, TranSec World Expo is the best connected event in the transportation security calendar.

▶ CONTACT

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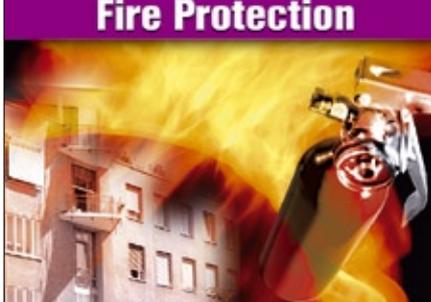
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