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March 2010

GIT

EMEA Edition

SECURITY

MAGAZINE FOR SAFETY AND SECURITY

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COVER: Milestone in CityTunnel

Perimeter Protection

Homeland Security

Security for the Public Sector

Fire Protection

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AXIS COMMUNICATIONS

The Rally for IP Has Started Now

Some say that due to the recession last year and facing a still weak economy in most of the EMEA countries, the move from analog products to IP-based systems has slowed down and may even come to a halt.

Indeed, there was a slowdown in the growth rates of the market leading IP camera vendors, but if you take a closer look, this slowdown was modest compared to the development of the sales figures for analog products.

Not only market experts like IMS research or BSRIA predict that more and more users of security equipment will move to the IP world. No matter if you talk to installers, system integrators or producers of security equipment, almost everybody states that the vast majority of new projects that start with a completely new infrastructure are IP-based installations.

There are more developments that will accelerate the move to IP: More and more companies are developing tools to help security managers to modernize their equipment and to migrate to IP. With Panasonic and Axis, two market leaders have developed new tools to integrate video streams from analog cameras into an IP network and combine them with streams from IP cameras. Both systems, Panasonic's IP Matrix Server Software and Axis' Camera station, are clever solutions for proprietary installations and a good complement to the great variety of video management software available on the market for open platform systems.

Additionally on the installer side, more and more companies have learned their lessons and have given up their reluctance towards IP products.

This issue will inform you about the offering of the market and the many ways the industry now support you. For the next issue, we are planning an article about how end-users can deploy encoders to upgrade to network surveillance and reap the many benefits of IP, all while protecting their legacy analog investment.

During the last weeks, I had the privilege on several occasions to look at the product pipelines of important players in the industry for 2010. Some new products have already been released at Intersec in Dubai, but there is more to come in 2010. Be prepared to a lot of new products to be launched at Ifsec in Birmingham and Security Essen. For video surveillance, interesting product updates are to be presented in the analog sector. More light sensitive true day/night cameras, cameras with better zoom lenses, and further improved chipsets to provide a better image quality. The crisis has not stopped the industry from investing in new technology and it has lead to more developments with a clear focus on user-friendliness and true benefits for the customer. Less fancy stuff for techies, but more value for your money. But one thing is clear: The focus for new products has shifted to new IP products. If even the market leader for analog cameras highlights its new IP range at their major show, it is a clear sign in what direction the market will move.

Enjoy reading this issue!

Best wishes from the GIT SECURITY team

Heiko Baumgartner

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COVER

Milestone Secures Malmo CityTunnel
When the Swedish national railway began major construction of the Malmo CityTunnel Project in 2005, workplace security was of utmost concern. Now the tracks are almost ready, and it is IP video surveillance management software from Milestone Systems that helps make sure everything goes smoothly. When construction is complete in December 2010, 17 km of new high-tech, double-track electric rails will connect Malmo Central Station in Sweden with the Oresund Bridge to Denmark. Six km of that will run underground in two parallel tunnels through the center of Malmo.
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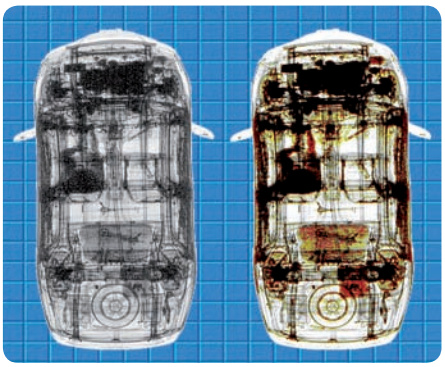

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Leading the way in Megapixel video

Arecont Vision leads the industry in the advancement of megapixel imaging for professional security applications. With hundreds of thousands of Arecont Vision cameras installed around the world today, Arecont Vision continues to build on its reputation for superior technology, innovative solutions, competitiveness, performance and reliability.

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Voestalpine Standardizes on Nedap AEOS

Voestalpine, one of the world's largest steel companies, has chosen Nedap's AEOS as its access control and security management system. Both parties have signed a two-year framework agreement to equip the Voestalpine offices and production plants worldwide with AEOS. The steel giant is represented by 360 production and sales companies globally and has decided to implement the same security policy at all of its locations. Voestalpine currently uses several RFID card technologies and has conditioned the assignment to the retention of its legacy systems where possible. The extensive possibilities of AEOS to integrate existing systems and technologies into one management platform were the decisive factor to choose the manufacturer's access control and security management system.
www.nedap.com

Siemens to Supply ICT and Security for Nuon Magnum Power Station

Nuon has awarded the order for the ICT and security infrastructure for the new Nuon Magnum power station to be built in Eemshaven to Siemens Building Technologies. This project involves an amount of about 3.5 million €. One aspect of the order involves the complete telecommunication infrastructure covering telephony, UHF radio, audio/video, the office network and meteorology system. The other aspect of the order covers the entire security infrastructure with alarm and emergency evacuation system, access control using Siport (the Siemens access control system that is used at other Nuon sites as well), the connection to the national access control network, as well as the CCTV system and intruder detection facilities. For the first time in the Netherlands, the Siveillance Site IQ intruder detection and video analysis solution from Siemens is to be used in a commercial scenario. This system has been specifically designed to protect premises that form part of the critical infrastructure. It provides a live feed of the situation at large sites at a glance.
www.siemens.com/industry
www.siemens.com/buildingtechnologies

IMS on Video Surveillance Business in the Middle East

IMS Research's report "Middle East Market for CCTV and Video Surveillance – 2010 edition" forecasts that the Middle East market for video surveillance equipment will grow by over 10 % in 2010 and the region is forecast to continue to grow strongly towards 2013. When compared with other regional markets; the Middle East represents a significant growth opportunity for manufacturers of video surveillance equipment due to the emerging nature of the market. At the Intersec 2010 trade show Axis Communications, Sony and Panasonic System Networks announced strong double digit growth figures for the Middle East region in 2009.
www.imsresearch.com

Pelco Changes to Sharply Focus on Innovation, Quality, Service

As part of its newly-invigorated commitment to technology innovation, reduced time to market, total customer satisfaction and complete product quality, Pelco management has announced several internal operational changes. In the area of technology innovation, company management has appointed Greg Millar to the newly-created position of Chief Technology Officer. In this position, Millar is championed with designing the future of video surveillance by helping to discover and develop emerging technologies that will drive Pelco innovation and leadership within the IT/IP and HD video markets. As part of a complete company focus to bring advanced product offerings quickly to market, Pelco management has moved to consolidate the Engineering team under a single Vice President. With this decision, Ben Kimbell has accepted the position of Pelco Vice President of Engineering and Product Development.
www.pelco.com

Acquarulo Jr Named Comnet President

Communication Networks of Danbury, Connecticut, doing business as Comnet, has named Andrew Acquarulo Jr, as its President and Chief Operating Officer (COO). Acquarulo will be responsible for the company's worldwide strategic vision, operations and sales for its fiber optic and Ethernet product lines. Andrew will report to Chairman and CEO George Lichtblau. In his role as President, Acquarulo will direct all the functional areas of the company with the goal of advancing market share. Andrew came to the company from his 20 years as Fiber Optic Business Leader at GE Security and President and Chief Operating Officer at what was International Fiber Systems (IFS).
www.comnet.net

High Availability at High Speed

Traincom from Telefunken Racoms offers a wide range of communication solutions for maglev trains, high-speed trains and mass transit systems. The continually growing international railway network and the associated changes in the perception of rail travel lead to new requirements for all types of rail traffic related communication. Business travelers, for example, use high-speed trains as their mobile office and expect Internet access and telephony to be available. Security requirements are changing – more secure broadband data channels are needed. These are scenarios, which represent part of a wide spectrum of communication solutions for rail traffic. Whether you travel by maglev train, by high-speed train or by mass transit, Telefunken Racoms provides turnkey radio systems that ensure trouble-free communication.
www.tfk-racoms.com

Tetra Communication System in China

EADS Defence & Security (DS) and IASPEC Software have signed a contract to jointly provide a Tetra radio communication system for the Shenzhen Public Security Bureau. This Tetra network will be the largest digital trunked network for the police in China providing secure radio communications for more than 25,000 users in the city of Shenzhen. It will also offer secure communication services for the 26th World University Games scheduled for August 2011. EADS Tetra network, which features a switch called DXT3, a TB3 base station and a dispatching system, offers powerful integration capacity for data services and IP expansion possibilities.
www.eads.com

Protection for Embassy in Moscow

Following a security upgrade in 2008, German embassy staff in Moscow now resides in a residential compound protected by a Geutebruck CCTV system. Renovated to European standards between 1996 and 2001, the embassy accommodation in Soviet-style tower blocks in the south east of the Russian capital is usually reserved for its own staff, but vacant flats are also let to German business people on a temporary basis. The area is guarded around the clock. The gates and the metal perimeter fence are monitored using fixed cameras, infrared spotlights and four GVD-860/2 dome cameras. These weather-proof day/night domes with motorized IR-cut filters provide high quality pictures. They are used by security staff to quickly evaluate the situation as soon as an alarm has been triggered by the outdoor video motion detection system. The video data are managed and stored by a Geviscope digital platform and a Reporter hybrid recorder. Being DSP-based, they allow easy software updating and protect investments effectively.
www.geutebrueck.com

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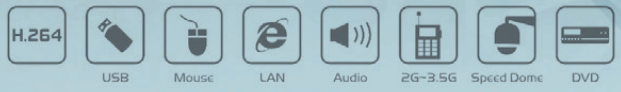

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March Network: Mobile Video Solution for Maryland

March Network announced that the Maryland Transit Administration (MTA) is deploying the company's mobile video surveillance systems on its 669-vehicle, fixed-route bus fleet to dramatically improve incident investigations and coordinate with police and Homeland Security operations. MTA selected the solution based on its remote wireless downloading and monitoring capabilities, as well as its reliability and high performance in challenging mobile environments. The administration plans to have its entire bus fleet upgraded with the March Networks solution by March 2011. While MTA staff must manually retrieve video from buses still equipped with legacy recorders, video from March Networks 5412 Mobile DVRs installed on approximately 130 new and retrofitted buses is downloaded automatically via a wireless network as vehicles enter one of four depots. In the future, the MTA plans to enable real-time video monitoring while buses are in service, taking advantage of the solution's support for remote video access over GSM/CDMA/EVDO and Wimax mesh networks.
www.marchnetworks.com

IP-based Security for Dutch Publisher

In 2007 Dutch newspaper publisher PCM moved its editorial, advertising sales and subscription management staff who work on the national newspapers "De Volkskrant", "Trouw" and the online activities of DAG into the INIT building on Oostenburgereiland in Amsterdam. To provide additional security in the new glass building and in the parking areas alongside and underneath, PCM installed an IP video security system designed by local system integrator Alphatron using a Geutebruck platform and Geutebruck management software.
www.geutebrueck.com

Communication Under Extreme Conditions

Today, having up-to-date, reliable and adequate information is more than ever a precondition for effective military planning and operations. The information flow has different aspects: it takes place between people at different command levels, between people and tools such as command systems, but also between technical equipment – such as sensors and effectors – and command systems. The approach of Telefunken Racoms is to provide excellent communication systems that cover the wide variety of requirements as efficiently as possible. The company offers a wide range of efficient, progressive and user-friendly products and system solutions that exactly match these requirements. The product range includes radios for fast, reliable data and speech transmission within the HF and VHF range, as well as personal radios, data links and advanced DVB-S2 ACM MF-TDMA VSAT networks. Military radios and systems made by Telefunken Racoms have stood the test of time well in service with the Armed Forces of various European countries. The implementation of standardized processes and system concepts ensures a seamless information flow across various methods of communication. Ongoing product functionality upgrades are enabled by the consistent implementation of operating functions as software-based solutions, combined with optimized hardware. The company thus safeguards customers' future investments.
www.tfk-racoms.com

CNIA in Abu Dhabi Invests in Security

Critical National Infrastructure Authority (CNIA) in Abu Dhabi has awarded contracts valued at more than AED44 million ($12.2 million) to surveillance equipment agencies in order to improve the city's security. Already last month, CNIA has signed a AED33 million ($9.1 million) deal with ICx Technologies to provide mobile integrated surveillance systems to be installed in Abu Dhabi. This will include ground-based radar and thermal/CCTV imaging systems that will be deployed around critical infrastructure sites. "The systems will detect, track and identify threats long before the perimeter is crossed, providing security officials with decision support and increased response time," ICx Technologies explained in a press release. Installation of the systems will start in April and the whole project is expected to take eight months, CNIA officials said at the ISNR Conference in Abu Dhabi.

Basler IP Cameras Supported by Genetec

Basler Vision Technologies have teamed with Genetec to integrate Basler IP cameras with Genetec's Omnicast, a leading video surveillance security solution. Genetec has integrated Basler's entire range of IP cameras, including both standard and day/night models with resolutions from VGA to two megapixels. Omnicast is an integral part of the Genetec Security Center platform and provides seamless management of digital video, audio, and data across any IP network. It supports the complete range of Basler IP camera functionalities. This includes the MJPEG, MPEG-4, and H.264 compression formats, AOI functionality, and multicasting. Multicasting allows a single IP camera to simultaneously transmit images to multiple network devices while only using the bandwidth normally required to transmit to a single device.
www.genetec.com

Milestone Products Watch Over Swedish Supermarket Chain

The largest supermarket chain in Sweden ensures personnel safety with video surveillance from more than 100 Iqeye megapixel cameras managed by Milestone XProtect open platform IP video management software. Maxi ICA Superstore in the Swedish city of Umeå has invested in a security system with 115 megapixel cameras from Iqinvision. The servers handle a total of about 2,200 images per second and Milestone XProtect Enterprise software makes it easy to manage, view and export the video. In the autumn of 2009 there were on average three store robberies every day in Sweden, but Maxi ICA in the city of Umeå has thus far been spared major incidents. "Word got around quickly that we had installed a tough new system. According to the guards, the usual mischief disappeared at once," says Joakim Lindgren, Maxi ICA Superstore Umeå. "But it's a question of preventing robberies. Otherwise, personnel risk both threats with weapons and actual assaults. The main reason for camera monitoring is so that personnel can feel safe. The problem is with drug and alcohol-influenced people who sometimes come into the store and become aggressive. But since the new security system has been installed, nothing more of the kind has taken place."
www.milestonesys.com

IBM Completes Acquisition of Security Company

IBM announced that it has completed the acquisition of National Interest Security Company (NISC), a privately held company headquartered in Fairfax, VA (USA). Financial terms were not disclosed. The companies had announced a definitive agreement in January to pursue the acquisition. The business will be integrated into IBM Global Business Services, operating initially as a wholly-owned subsidiary. According to IBM, the combined offerings will enable IBM to expand its capabilities with federal, state and local government entities, particularly in the fast-growing areas of defense, healthcare, energy, logistics and security. NISC's deep federal expertise will complement IBM's existing public sector offerings and the recently launched Business Analytics and Optimization (BAO) Services for Public Sector. IBM's public sector BAO team works with government agencies utilizing advanced analytics to transform ordinary data into predictive intelligence, helping agencies improve the speed and quality of their decision making.
www.ibm.com

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UL Partners with SP Technical Research Institute of Sweden

Underwriters Laboratories announced that Underwriters Laboratories UK, a Notified Body to the Construction Products Directive, has signed an agreement with SP Technical Research Institute of Sweden. The agreement with SP allows UL UK and UL's family of companies to expand its European testing capabilities and bolsters both its CE Marking Services and global market access. The alliance with SP expands UL's current capabilities to test and certify to a wider range of European standards. Specifically, UL UK, as a Notified Body to the Construction Products Directive, will utilize SP's test facilities for testing to a variety of EN and ETAG standards in the areas of fire resistance and fire alarm & detection covered within UL UK's scope of services. Following successful testing, as part of the attestation process, UL UK can issue the CE Certificate of Compliance, needed by manufacturers for their products to bear the CE marking.
www.ul.com

Sight Logix Receives Lenel Factory Certification

Sight Logix has received Lenel factory certification as a member of the Lenel OpenAccess Alliance Program. The certification confirms compatibility between Sight Logix automated surveillance equipment and Lenel Systems International's On Guard security management system. The combination of edge-based video analytics, large area coverage, and geospatial target tracking provides accurate and cost-effective area and perimeter security. Thermal and visible Sight Sensor cameras capture detailed information over large areas, in all weather and geographic conditions, minimizing nuisance alarms and reducing infrastructure costs. Key markets for the outdoor security products include petro-chemical, airports, seaports, mass transit/rail, public safety, Fed/Gov, data centers and other critical infrastructure applications.
www.sightlogix.com

Verint Solution For Vancouver

Verint Systems announced that Translink, Vancouver's regional transportation authority, has implemented the Nextiva Transit video solution from Verint Video Intelligence Solutions. Part of a planned, multi-phase security deployment, Translink's first investment in the video security technology took place onboard its fixed-route bus fleet to help enhance passenger and operator safety and security. Translink serves 21 municipalities in the greater Vancouver region with a fleet of 1,432 buses, two passenger ferries, 210 light rail cars, and five commuter rail trains with 37 passenger cars. This vast network has rapidly grown as it prepares to deliver an estimated one million rides each day during the Vancouver 2010 Olympic and Paralympic Winter Games.
www.verint.com

Bosch Cameras at Glasgow City Centre

More than 30 Bosch MIC Series 400 cameras are protecting the public in Glasgow City Centre following successful trials of the equipment in other parts of the city. Glasgow Community and Safety Services (GCSS), an organization set up by Glasgow City Council and Strathclyde Police, was keen to provide the city's three million visitors and locals alike with a safe environment to socialize. So it created the Night Zone, a partnership initiative that is designed to help residents and visitors get home quickly and safely from a night out in the city. With an average of 100,000 people coming into the city centre on a Friday and Saturday evening, (GCSS) worked together with its partners to enhance street lighting, increase CCTV coverage, provide a help point network and introduce transport marshals to answer questions from the public on how best to get home. Part of the appeal was the MIC camera's compact, attractive design which allows for discreet integration into urban environments, but the ability to react to situations as they arise was also key, which is why the MIC Series 400 PA version, with twin public address speakers was specified.
www.boschsecurity.com

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VIDEOTEC

EVENT

Everything Security under the Sun

Intersec Dubai 2010 Was Bigger than Ever

Epoc Messe Frankfurt, the event organiser of Intersec 2010 in Dubai reported an 17 % increase in visitors over the three days of Intersec 2010. The show was a huge success for most companies that where exhibiting in Dubai at the twelfth edition of the trade fair. All days of the show were really busy. For GIT Publishing it was the first attendance as an exhibitor and the interest for GIT SECURITY was amazing.

Visitors Up 17 % and More

More than 700 exhibitors participated in this year's trade fair. The conference, running alongside the exhibition enjoyed impressive numbers, registering a full house of delegates. Mr. Ahmed Pauwels, Chief Executive Officer, Epoc Messe Frankfurt GmbH, organisers of Intersec, said: "The question of security and safety is of paramount concern in the countries of the Gulf and Middle East region and the success of Intersec is indeed a reflection of the importance given by Gulf governments to security and safety." He added that the show has brought together industry experts who provided insights into the latest technologies and best practices in the industry. "We appreciate the support of Dubai Police General H.Q.,the Dubai Police Academy, Dubai Civil Defence, the Security Industry Association and the Ministry of Homeland Affairs, Singapore at this year's event."

Lots of New Products

The main focus of most exhibitors was to show their portfolio of products for the Middle East market, but some companies used the show also for global product launches. Axis Communications for example showcased a new range of network cameras at Intersec 2010. Visitors to the Axis stand had the opportunity to see the entire product range in action, from the smallest and smartest wireless cameras, to the latest day and night cameras with exceptional image detail. Baraa Al Akkad, Regional Manager, Axis Communications Middle East explained: „Intersec is the perfect venue for Axis Communications to showcase our latest range of cutting-edge network video innovations. With a high number of green installations, the network video penetration in the Middle East market is one of the highest in the world with more medium-to-enterprise based applications opting for the latest technologies."

Intersec trade fair and conference, which was held under the patronage of HH Sheikh Majid bin Mohammed by Rashid Al Maktoum, was inaugurated by His Highness Sheikh Mansoor bin ohammed bin Rashid Al Maktoum on Sunday.

Some Highlights

One of the companies attracting a large amount of visitor interest at Intersec was Honeywell with their T-HAWK Micro-Air Vehicle (MAV). The MAV is a 13-inch unmanned surveillance aircraft that provides an innovative platform for a wide range of military and commercial applications. In UAE and the Middle East, the system will be used to monitor border areas, cities, coasts and vital installations like power, oil and gas. The industry response to the has been very exciting and Honeywell has already booked one immediate order duringIntersec 2010 and expects several more from various private commercial interests in the coming months. „Many different sectors are interested in the non-military use of the THAWK MAV, for example the petrochemical sector, civil defence and police forces. In these and related sectors, the T-HAWK MAV can be an option for monitoring sensitive and accident prone areas," said Aleksandar Smiljanic, Divisional Sales Director, Honeywell Security and UAV-Specialist.

Solutions Adopted to the Regional Marketplace

Arinc EMEA launched its Integrated Physical Security offering to the Middle East market at Intersec 2010. Arinc's offering is centred on its Advanced Information Management (AIM) solution, a flexible command and control integration platform that currently protects over 60 % of US nuclear power stations as well as the US Strategic Petroleum Reserve. Arinc EMEA's technical offering is supported by its strong regional presence, headquartered in Dubai, which has been established to project manage major system integration contracts at three of the largest airport construction projects in the Middle East at Doha, Cairo and Dubai. Andy Nicholson, Government & Physical Security Business Development Director, Arinc EMEA said: „Arinc EMEA has a powerful offering in AIM, which delivers a new level of Resiliency, Scalability, Flexibility and Redundancy to integrated physical security systems. Combined with our regional presence, we are in a strong position to pursue significant opportunities in the Middle East where there is currently significant investment in new infrastructure projects."

Interesec is the world's largest Commercial Security & IT Security, Homeland Security & Policing, Fire & Rescue and Safety & Health exhibition outside of Europe. Next years Intersec in Dubai is scheduled January 16-18.

▶CONTACT

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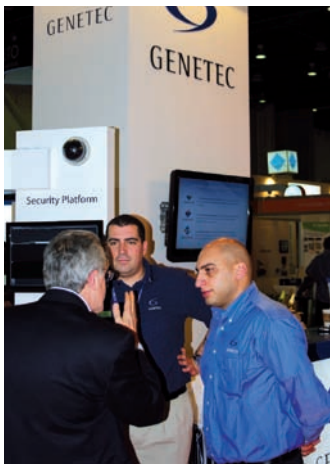

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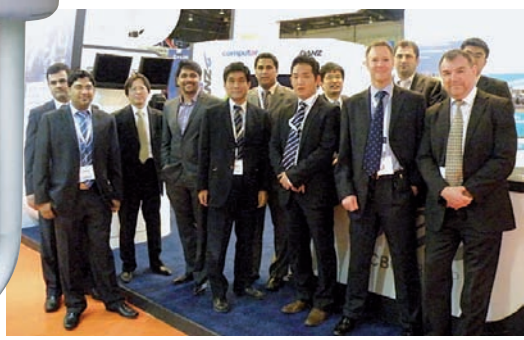
www.ifsec.co.uk

INTERSEC – REVIEW

Movement Allowed Day and Night

High-tech CCTV Solutions Capture Interest

Surveillance solutions provider CBC (Europe) celebrated a surge of interest in its Ganz CCTV systems during the recent Intersec exhibition in Dubai.



CBC's team at Intersec 2010, including Hassan Ahmed (far left) and Geoff Bowers, Director of CBC (Europe)'s Electronics & Optical Division (far right, front).

Inquiries came from visitors about CBC's new VCA video analytics packages which cover IP cameras, encoders and PC-based central server solutions. The two-level range comprises VCA presence for perimeter protection with intruder and camera tamper detection, and VCA surveillance with an extensive range of video analytics tools, such as filtering out objects like small animals or birds from a scene. The latest MIST technology increases CCTV camera effectiveness where fog, haze, smoke, sand, snow or rain impede outdoor surveillance. Working with any C/CS-mount lens, the G-MIST application can be used in locations such as perimeter protection for ports, harbors and airports. The camera's dynamic range control function measures image intensity and digitally adjusts color and contrast to correct poor quality images.

Alternative Technology

The CBC C-Allview camera lineup includes the Night Vision, Radar Vision and Thermal Vision systems. Thermal Vision combines thermal imaging with the detail capture of visible-light CCTV, allowing individuals to be tracked in almost all weather and lighting conditions at up to 1 km and vehicles up to 2 km away. CBC's Night Vision system now offers optical camera technology with fully integrated infrared lighting for day/night operation, avoiding additional, bolt-on illumination. It solves the need of dome cameras for constant 360° illumination during darkness. The VSoIP management system enables seamless management of CCTV video, including analog, across an IP network. "Intersec 2010 has been a great event," says CBC's Export Sales Manager, Hassan Uddin Ahmed. "During the show we've talked with installers, system integrators, end users, consultants and distributors not just from the Middle East but also Africa and Europe.

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INTERSEC REVIEW – CONTROL ROOMS

Wide Eyes in Dubai

New Eyevis Video Wall Solutions for Control Rooms

The Intersec show held this year in January at the Dubai International Convention and Exhibition Centre in Dubai, UAE, attracted several eyevis industry partners from Germany and Canada as well as local offices in the Gulf region such as the United Arab Emirates, Kuwait and also Iran.

The Intersec trade fair and conference is the international meeting platform for security, safety and protection and plays a major role in reflecting the security industry worldwide. It combines a huge international profile, with a strong regional impact. Over 17,200 visitors from 96 countries and over 700 exhibitors from 50 countries attended Intersec last year.

On show were the latest Eyevis technologies related to security; their new LED DLP cubes in 67″ full native HD (1,920 x 1,020 pixels) resolution and in 50″ SXGA+ (1,400 x 1,050 pixels). This technology is setting new benchmarks and combines all the advantages of traditional UHP lamp cubes, LCD and plasma technologies. There are also benefits in terms of operating and service costs, lifetime, stability and picture quality. The LED cubes are ideal for 24/7 applications such as in control rooms but also in many other applications where a reliable display with stable color and brightness is required.

Graphics Controller and Wall Management Software

The Intersec also presented the company with an opportunity to show the latest generation of their netpix graphics controllers with analog, RGB and IP video inputs, together with their control room manager or wall management software. Other highlights on the booth were the Eye LCD 6400 4K, the world's first native 4K (4,096 x 2,160 pixels) LCD monitor as well as the Eye LCD 4600M, a 46″ LCD monitor from the 40–82″ range.

In the security area, eyevis has acquired many reference projects around the world in the last few years such as, for example, in security centers, numerous police and fire department control rooms, CCTV surveillance centers, government ministries and diverse military control rooms for the Navy, Air Force and Army. Several video wall systems for control centers have also been installed for traffic control rooms, power plants and energy distribution centers.

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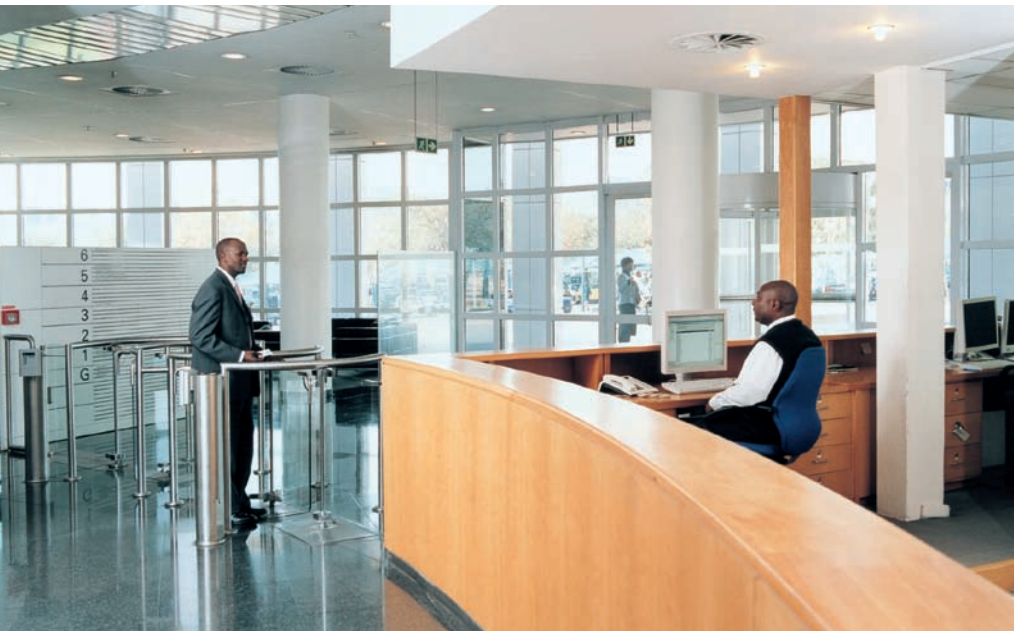
SECURITY MANAGEMENT

Return on Security Investment

How Investment in Security Can Increase a Company's Value



Investments in security not only protect companies from break-ins and theft but also monitor and improve critical processes, such as the availability of communications networks or the power supply. Further, such security technology can ensure the trouble-free operation of a complete supply chain. Dr. Rolf Sigg, Senior Vice President, Managed Security Services at Siemens Building Technologies, looks here at the latent wealth that can be added to companies through the intelligent integration of systems management tools.

If insufficient security measures are taken, the reputation of a company or a brand name can be endangered. That must be avoided because a brand name is one of their most valuable assets and protecting it has the highest priority. This means that companies must always deliver products and services to their customers punctually and with consistent quality. A negative change, either through manipulation or other influences, or failed deliveries can lose customers to alternative suppliers. In addition, the image of the brand name would be tarnished.

Of course, companies must protect themselves in advance against damage from theft or vandalism. However, the most benefit does not lie therein, but in the combination of security aspects with other operational processes. The added value available can only be appreciated by security managers when they look more closely at the various business activities of their company. Then they discover possible synergies between security applications and other business processes.

Sink or Float

If these are combined correctly, they can significantly affect a company's value, according to a study by Knights und Pretty. Companies were examined in which there had already been major security issues. Those that had taken adequate security measures could raise their com-

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pany value by an average of 30 % within one year of the event; by contrast the company value sank by an average of 20 % in those firms that had not invested in the appropriate measures. Francis D'Addario, member of the Security Executive Council and Principal at Crime Prevention Associates, a US consulting firm dealing with the minimization of security risks, sees the objective of a "Layered Security Support Mission" in making the processes and the supply chain of companies more secure, in addition to providing security for personnel and assets, thus enabling companies to execute all operational processes without interruption.

Remote Status and Control

Competitive pressure is particularly strong in the telecommunications industry and network operators ensure that their network is always available, otherwise there is a danger that customers will look for another provider. The network providers must also constantly reduce their operational costs. Therefore leading companies in the industry, such as Vodafone or Wind, combine modern theft or vandalism protection at their unmanned antenna sites with other processes such as surveillance, remote diagnosis and control as well as optimization of the power supply or air conditioning. In this way they improve the availability of their networks by 1 or 2 %, which not only makes happy customers but also brings more revenue and reduces network operation costs. Overall the network operators achieve a very good return on investment.

For this they use a solution developed by Siemens called Intelligent Shelter, an integrated security and operations solution for remote operation of unmanned cellular network antenna sites. It monitors and controls not only the security elements such as access control, video and alarm systems and fire protection but also operational elements such as the power supply, emergency generators, batteries, aviation warning lights and climate control. So most of the necessary tasks, in the event of an alarm, technical failure or preventative maintenance, can be carried out from the control room. When work is being carried out on site, the system informs precisely which technician found which sub-systems in what condition upon arrival and how he left them, so every service visit is well audited. Depending upon the topographical situation, the local road infrastructure and also the salary scales, combining security technology with network operations enables running costs to be reduced by up to 40 % and a return on investment obtained within two years.

Securing The Supply Chain

Years ago it was not possible to track the shipping routes of goods from dispatch to their final destination. Today, technologies such as RFID and video surveillance enable perfect monitoring of shipping paths and corrective action should this become necessary due to unforeseen circumstances. Delayed shipments or damaged goods can be detected early so that adequate countermeasures can be taken, making certain that the customer will receive the goods on time and in perfect condition.

Starbucks is one of the leading buyers, roasters, suppliers and marketers of coffee. They successfully piloted integrated operational guidelines with advanced security technologies to ensure risk mitigation in priority trade lanes. One of Starbucks' main concerns is that coffee beans reach their destination in perfect condition, an important quality assurance criterion since the taste of coffee should never change. So all persons and processes along the path of the coffee beans from the plantation – often in high-risk countries – through the supply chain stakeholders as well as companies supplying the technical equipment and all traders and shippers right up to the coffee cup are monitored and protected. Risks that threaten the production process or could adversely affect the coffee taste are minimized.

Containers, security installations and customs documents are monitored, enabling the company to satisfy compliance guidelines, such as C-TPAT (Customer Trade Partnership against Terrorism), ISO standards, Customs Video Compliance, and Process & Goods Authentication.

Enormous Added Value

This consistent security-related optimization of the supply chain has resulted in every process being redesigned for cost optimization. In particular, the amount of manual intervention could be reduced. Conversely it is the application of security technology such as RFID, access control or video surveillance for operations optimization that brings the deciding customer benefits.

Francis D'Addario demonstrated that benefits resulting from a 7 million US-$ investment amounted to 14.36 million US-$, returning 2.04 US-$ for every dollar invested. As a result, profits rose by 20 % from 35 to 42 million US-$ in a business sector characterized by low margins. Security managers are able to achieve enormous added value for their companies by understanding a "Layered Security Support Mission" that sensibly brings security applications and other business processes together.

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EVENT

Samsung United

Vision Day Conference 2010 Unveils the Company's Ambitious Plans for 2010

It is almost a tradition that very early in the year Samsung Techwin is inviting its partners to the annual Vision Day conference. This year the conference took place in Antalya, Turkey on February 18th and 19th. The Vision Day conference is always a good opportunity for the company to inform their partners about the latest products and the strategy for the upcoming months. The delegates used the opportunity to be among the first to see and have hands-on demonstrations of many of the new products to be launched this year. At this year's Vison Day Conference the decision taken earlier to bring together the two security businesses from Samsung Techwin and Samsung Electronics occupied centre stage.

Managing Director Jake Kim explained in his opening speach that this decision is a giant step towards realising the ambition to become Europe's leading professional security manufacturer. Another result of the internal merger is that the company's unified R&D department will enable Samsung to launch 170 new products during 2010, which would include the introduction of new access control, door entry, fire and intruder detection systems alongside new video surveillance product ranges. Mr. Kim explained that considerable R&D time and financial investment had been made into the design and production of the new product ranges, which together with Samsung's analogue and IP/network based CCTV product ranges, would enable the company to offer customers a total security solution.

New IP camera Chipset to Be Launched in 2010

This year will see the introduction of the WiseNet chipset which will enable Samsung to introduce a megapixel camera range with built-in advanced video analytics. The company also has ambitious plans to develop a comprehensive family of IP/network products with no less than 36 new network products being introduced during 2010. The evolution of Samsung's high performance camera ranges will also continue with the development of new advanced DSP chipsets. The delegates to the conference also learnt that new regional customer support offices will be opened to ensure Samsung's fast growing network of distribution partners are offered the highest levels of local support. The opening of the new offices in the Nordic region, north Eastern Europe and in South Eastern Europe during 2010 will bring the total number of Samsung's local support offices to ten.

According to Mr. Kim, the recent decision to bring together the Samsung Electronics and Samsung Techwin's security product lines into a "single Samsung" supported by Samsung Techwin Europe Ltd across Europe will contribute greatly to the company achieving its vision and goals far sooner than would otherwise have been the case. "Our brand power is getting stronger and stronger now, and that will be cemented by targeted marketing throughout 2010," said Mr Kim.

Completion of the Samsung Security Solutions Offering

It was up to Peter Ainsworth to lead the audience through the presentation of the product line-up for 2010. Samsung's costumers will see a completion of the Samsung Security portfolio throughout 2010 and the massive investment in R&D together with the combined efforts of the two integrated divisions will result in a vast variety of new products.

For the analog range of products customers will have the choice among all the different types of cameras (box type cameras, dome cameras, speed domes etc.) and three major chipsets: A1, W5 and SV5. According to Peter Ainsworth the 2010 program will offer all options from entry level up to premium level and the company still invests heavily in its analog portfolio. Coaxial

control, introduced in 2009, will be available for more camera models including some box type cameras and fixed domes in 2010 and enhancements like polygonal privacy masks will improve the intelligent tools included in some models this year. Completely new in in 2010 will be cameras with a 43x zoom lens and a flat dome camera.

The IP range of cameras will be completed in 2010 with the introduction of 36 new network products and the launch of the new WN2 chipset should open the market for high end megapixel IP cameras later the year. Peter Ainsworth promised the attendees of the Vision Day conference that by the end of 2010 the "freedom of choice" Samsung's customers are used to, will include Samsung range of IP cameras.

To complete the portfolio and to make an important step to become a provider of complete security solutions, Samsung will launch a series of access control products in 2010. Standalone access controllers based on face recognition, fingerprint and RFID technology will be introduced and the offering for control panels, RFID card and tag readers and door controllers will be completed.

The entry into the international market for intrusion detection will start with the introduction of intruder alarms products in the first six months of 2010. Samsung promised also to launch fire alarm poducts in the fourth quarter of 2010.

In his presentation James Smith, European Marketing Manager, made clear that Samsung will not only invest heavily into the development of new products but also in the marketing. An increased online presentation, communication packages in all the major languages and a broad presence at the 2010 security shows will support Samsung's partners and will enhance the brand power. The ambition is clear: Already in 2009 Samsung announced its goal to become the European security brand No.1.

James Smith, European Marketing Manager

◄ Jake Kim, Managing Director Samsung Techwin

Peter Ainsworth, European Product Manager

During the Vision Day conference Yoon-Ho Ha, the new president of the Security Solutions division at Samsung, took the time to answer questions from the trade press. Prior to assuming his current position, Mr. Ha served as President & CEO Southeast Asia and Oceania for Samsung Asia and as Senior Vice President of Display (Monitor business) Sales & Marketing Team in Samsung's Visual Display Division.

During the Q&A session with the press Mr. Ha explained that the EMEA market is of great importance for Samsung and that he has has lived in Italy and Germany for several years. According to Mr. Ha, Samsung was not so much effected by the financial crisis due to its diversification and strenght in the consumer market. He said that the company is now ready to expand its security business. Video surveillance will be in the focus of Samsung for the future, but it is also Samsung's plan to indroduce products for access control and fire protection in the near future. According to Mr. Ha security for residential homes and mobile security applications will also be part of Samsung's offering for the future.

GIT SECURITY: How will the business of the former Samsung divisions Samsung Electronics and Samsung Techwin be reorganized in the new constellation in terms of R&D and product development?

Y.-H. Ha: Samsung Electronics security division has been integrated to Samsung Techwin security solutions division. Regarding this integration I would like to mention two things. Firstly, we have already completed the reorganization very efficiently. The teams were mixed together and the structure has been set-up already. We are already working like a very old team at the moment, despite it all being new. Secondly, we are having a big synergy effect for R&D and product development. Formerly both Samsung Electronics and Samsung Techwin had very strong technology and product lines already, both companies had some similar technology and by doubling up the resources we have double the power and capabilities to develop market best product to meet customer requirements. This is why we are able to introduce 170 new products this year, which is proof of the good synergy effect of our integration.

Will we see new initiatives on the display and monitor sector from Samsung?

Yoon-Ho Ha, President of Samsung's Security Solutions Division

Y.-H. Ha: Samsung Electronics is currently one of the worlds largest monitor manufacturing companies and they are manufacturing the most advanced technology for monitors – LED etc. Samsung Techwin's Security division will cooperate with Samsung Electronics monitor division very closely in order to introduce enhanced product lines in this field. The new Premium Level 22" and 22"LCD displays presented here at the Vision Day conference are a first step into this direction.

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HOMELAND SECURITY

Over Land, Sea or Air

All about Unmanned Aircraft, Robots and Active Laser Technology

Civil danger management, where accidents or natural catastrophes occur, but also terror attacks or for frontier security – that is the business of the "Homeland Security" division of Telefunken Racoms. The company provides system solutions to support authorities, organizations and task forces. Matthias Erler of GIT SECURITY spoke with Ulrich Skubsch (Independent Marketing Consultant, Homeland Security) and Manfred Müller (Head of Marketing and Projects) at Telefunken Racoms.

Roboter Viper

Mr Skubsch, Mr Müller, let's first of all take an introductory look at the subject of digital radio for the emergency services in Germany. Can you give us your opinion of the current situation please?

U. Skubsch: The emergency services have been using analog radio up until now, a communications technology that frequently stood out because of its hissing and black spots. Even the new digital radio technology that we now have has shown some dead spots in practice that can be compared to those in GSM mobile radio. Unbeknown to the speaker, the sound is suddenly no longer transmitted, or it arrives incomplete and with gaps. It is a macabre situation that we have been in a sort of definition phase for 12 years now, during which a great deal has been discussed. Then it was finally decided to use a system that does not comply either with those of neighboring countries nor with the EU regulations, the so-called ETSI standard. The devices are not compatible, which significantly impedes information exchange, for example, during a terrorist attack. At the moment it is sometimes not possible, even just beyond city borders, to communicate with the fire brigade of the next community.

What can your company do to counter this?

U. Skubsch: Telefunken Racoms links analog and digital communications technology; incompatibilities are simply bridged. Everything is incorporated into a system that networks sensors, management and even the tactical measures together.

Could you give us a practical example?

U. Skubsch: Critical infrastructures, such as an airport for example, need not only the airport and local fire brigade but also support from others when handling emergency situations, such as the fire brigade of neighboring towns. This is where the first difficulties arise: does the adjacent county have the same radio equipment? There are also similar problems at large industrial sites, at railway stations, in short everywhere that lots of people are on the move, are working or otherwise spending time together.

You have grouped your products together under the title of "Homeland Security". Could you explain this term to our readers?

U. Skubsch: I must point out straight away that we are going on the assumption that the broad title of "Homeland Security" hasn't really been defined here in Germany yet. We have been trying for over a year to synchronies the appropriate authorities and organizations on this point during congresses, conferences and in our own premises. The term has taken on a sad association since the attack on the twin towers in New York and internationally has been given totally different meanings since then. We cannot simply transfer this term "Homeland Security" to German conditions, above all because of our federal system in which there is, in practice, no point of contact, for all matters concerning the army for example, that is solely responsible for all associated tasks. We therefore have to speak to 16 different states as well as the federal police.

So you have to carry out a sort of association job in advance?

U. Skubsch: Fundamentally we do more that that. In contrast to an association, we look after not only the interests of those with a local, company-specific background but also those that have a nationwide economic relevance – the experience of Telefunken with the military helps us here. As the Chancellor Angela Merkel encouraged us in 2008 to more closely integrate military experience into civil use, we were quickly able to demonstrate concepts that envisage the cooperation of all involved institutions, such as the civil protection authorities, the fire brigades, the German governmental disaster relief organization (THW), police forces, special forces, the interior ministries etc. As a traditional company we are able to provide tailor-made solutions to

the specific German requirements, in contrast to globally oriented concerns that operate differently. At the same time, through the history of our concern, we have access to products that have already been field-proven in Israel, products for all the tasks that you can consider "Homeland Security" technology.

What distinguishes these concepts that you just mentioned in detail?

U. Skubsch: One can best understand our broad approach when one considers the problem of nationally restricted financial resources: one cannot simply rebuild everything that's necessary from scratch, so a really good solution is characterized, above all, by the most flexible methods and integration. And that means, first of all, that any concept must take the installed base into account – our concepts do exactly that: both analog as well as digital radio is integrated, the most varied management systems, starting from the smallest facility management or the largest danger management system, the most varied camera systems – all these are incorporated. That cannot be achieved with ‚off-the-shelf' products but only with solutions that are specifically adapted to the customer.

We're not just talking here about 'customizing' then, but generally about a strongly consultancy-oriented concept?

U. Skubsch: It is a C4I Master Concept (Command, Control, Communications, Computer, Intelligence) that is devolved from the military. Telefunken Racoms already has numerous management systems for fire alarm systems, for video surveillance and generally for danger management, extending to heating, ventilation and air conditioning. The connection of these individual systems to one uniform system is important here.

Mr Müller, could you explain to our readers what products your company can offer to manage the scenarios just outlined by Mr Skubsch?

M. Müller: First of all, such a risk management system consists fundamentally of three parts: the sensors, the real management system with the user interface and thirdly a subordinated technology that can react automatically or respond to a user command. We can include high-value systems within the sensor framework, such as cameras with a very long range that can recognize or even identify extremely distant objects even under the most adverse conditions, such as fog and rain. For example, we offer night-vision technology that can be used for coastal protection to observe ships at 8 km range and to help read their name. We should also mention our unmanned vehicles that can be used on land, on the water and in the air, wherever it is too dangerous for people.

You mentioned management systems as your second focal point?

M. Müller: The most important element here is presentation of the situation. Relevant events can be analyzed with the help of video technology. Just as important is the subject of communication: with our systems, we are able to secure gateways from one radio network to another and thereby bridge the frequently occurring incompatibilities. The overlying technology is networking: the control center is not simply there where it was built at some point in the past but instead where it is actually needed. We can transfer it wherever it's needed with just a few clicks of the mouse – a browser-supported technology. "Safe City" is the name of this concept. It uses open interfaces so that we can incorporate the installed base just as well as new technologies. In this way we can adapt to the local requirements in every situation, regardless of whether it is a frontier, a stretch of coastline or the surveillance of an inner city.

Let's move onto the third part of your concept which handles the actual danger measurement measures.

M. Müller: Besides alarming, this also includes the reactive systems. When a terrorist attack occurs, we must assume that certain infrastructures must be automatically blocked, just as other countries already do today. When it is recognized that explosives are being triggered via the mobile phone network then all base stations could be switched off so that further ignitions are not possible. Further, we are able to apply so-called jammers. With these, and for the protection of the civil population, every radio-based communication can be either completely suppressed or selectively so interfered with that, for example, only the rescue services can still communicate with each other. The use of this technology is however not sufficiently regulated in Germany.

Mr Skubsch, your face-recognition systems were mentioned before – why are these as powerful as you have described them?

U. Skubsch: Today's very widespread thermal imaging technology reaches its limits where things have to be identified that themselves do not recognize any heat. What is written on the sign next to the targeted person? What is the adjacent car up to? Our systems work with active laser technology which originated in military applications and is now available for civil applications for the first time. We can now identify precise details even in situations where the human eye would no longer recognize anything, even supported with spotlights, for example in fog, through foliage, snow or rain.

This technology was not available for civil use until now?

U. Skubsch: We could jokingly say that we pick up where James Bond left off … But, as I said, it is a technology that until now has only been developed and used by the military, where totally different budgets are of course available. Here we are only talking about products however that, for civil use, have been broken down into their individual elements, also financially.

Does that also apply to the other products that you mentioned?

U. Skubsch: For the most part that applies to all the products that we offer for applications on land, on water and in the air. That includes the Skylark I, an unmanned aircraft that flies completely automatically so that the user only needs to concentrate on remotely controlling the camera. It can land anywhere, if necessary on the helicopter platform of a customs cruiser in the Baltic Sea. One of our own developments is the Telestat. This is a sort of tethered balloon that, as such, falls outside the competence of the Federal Office of Civil Aeronautics and is therefore legally permitted. The usual problem here that every gust of wind brings conventional balloons down does not happen here because the Telestat, like a kite, is instead driven up by the wind. We can install cameras, relays etc. on this.

Can we go overland now?

U. Skubsch: Here we must mention the Viper, a vehicle with a special wheel construction: it has a variable track drive and is therefore able to drive across otherwise impassable ground, damaged houses, through water and also through sand and undergrowth. Gas detectors, grapplers, cameras etc. can be fitted on it so that information can be obtained without putting people in danger. Guardium is the name of the larger model – it is used, for example, in frontier surveillance. Finally, on the water: the "Silver Marlin" powerboat cuts through the sea at high speed and can carry out a search for people or objects in the sea in a very precise way and also recover them. So we are able to apply our technology in all the elements where people would otherwise be in danger.

Mr Skubsch, Mr Müller, many thanks for the conversation.

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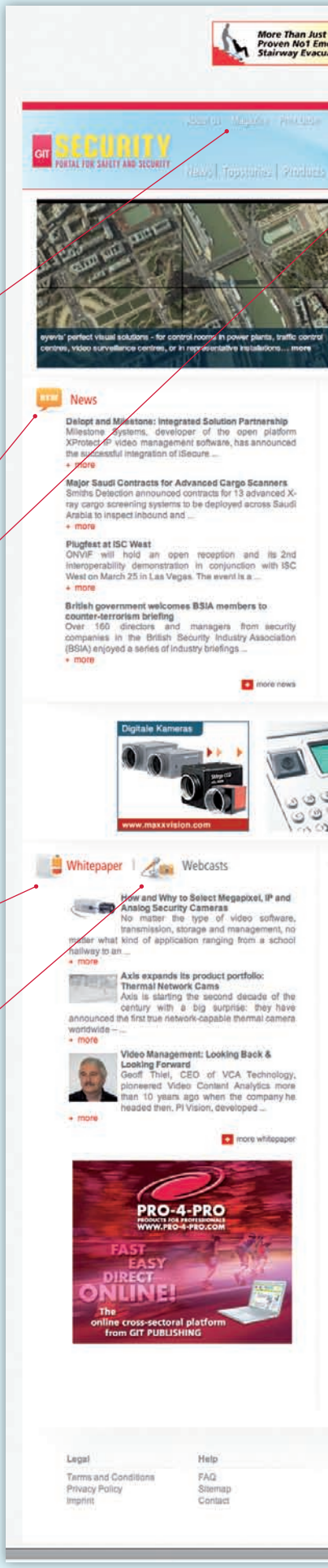

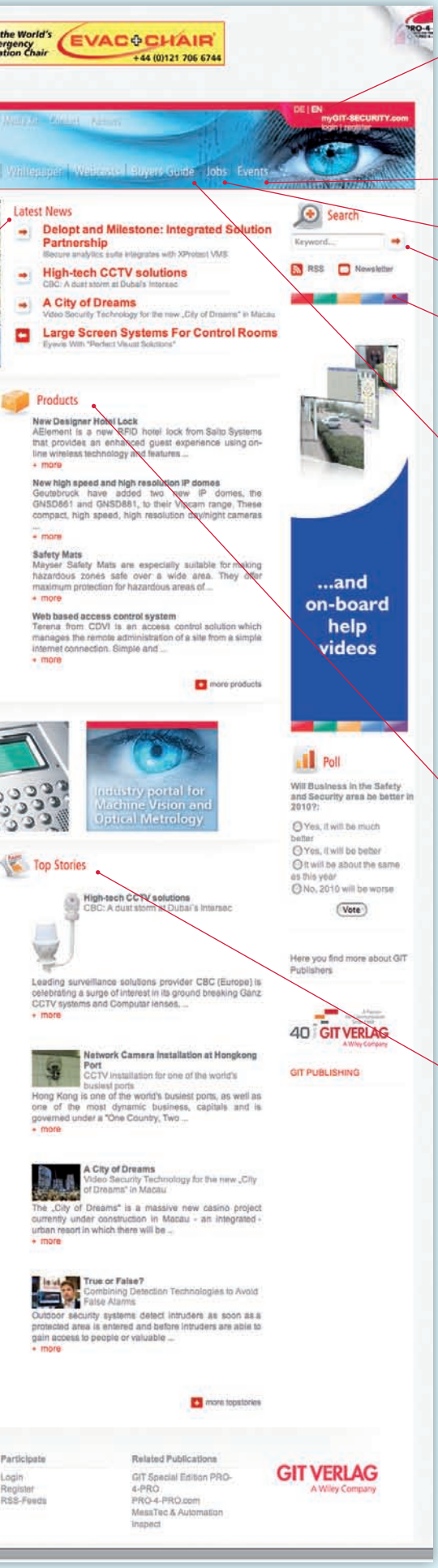

Internationality

In line with GIT SECURITY for the EMEA region and GIT SICHERHEIT, the leading Journal for Germany Austria and Switzerland, also the new web site features a German and an English version.

Events

Our events calendar makes sure that you do not miss the major events for the safety and security market.

Full Text Search

Keywords based quick search within the entire web site.

Jobs

Continuously updated job portal for highly motivated industry specialist and executives.

Buyers Guide

A special service tool is the buyers guide, a detailed international company directory which bundles all relevant company information for experts in the safety and security field. The visitors of our business web will get a well-arranged and complete overview of vendors and products with one mouse click. If you are offering products and solutions for safety or security, don´t forget to fill in all the details about your company´s offering. The basic entry is free of charge.

Newsletter and RSS Feed

Up-to-date industry news can be received as a free newsletter or RSS feeds. This way all new data will be present at your desktop without delay.

Products

For the product section of GIT-SECURITY.com we use the strenght of our established product data base www.PRO-4-PRO.com. Here you will find the latest and best products on the market structured by the sectors security, management, fire protection, safety and IT Security.

Top-Stories

Here you will find current top stories focused on the areas of security, security management, safety, fire protection and IT security.

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PERIMETER PROTECTION

Perimeter Protection for Critical Sites

Fiber-optic Intrusion Detection Systems Are a Valuable Security Tool

Fibre Optics are an ideal perimeter protection solution for many critical sites. Often a fence mounted fibre optic detection system, linking back to the main security centre and ideally interfacing to CCTV cameras is a perfect way to provide visual confirmation to staff so they can determine the exact nature of the intrusions or threats they face. Fibre optic cable is often fence-mounted and is designed to detect and pinpoint the location of intrusion anywhere on the perimeter fence. Fibre optic solutions can work with a Graphical User Interface (GUI) command and control system that provides real-time reporting of intrusion. The technology can integrate with existing security systems, such as access control and CCTV, to centralise security monitoring for the entire facility.

Future Fibre Technologies (FFT) has two fibre optic security solution products – Secure Fence and the newly launched Secure Zone. The Secure Fence system is installed at many international airports and FFT expects strong interest also for Secure Zone. Both products works with the company's patented Alarm Recognition and Discrimination (ARaD) technology. They are able to detect a fence climb, cut or lift – even when they occur during natural events, such as storms, strong winds, and tropical downpours, thereby virtually eliminating the incidence of nuisance alarms.

Protecting an Australian Power Station

FFT has been chosen to protect the perimeter of a major gas turbine power station in one of the most lightning prone regions in the world. According to Paul Rowan, Business Development Manager at FFT, the company's flagship product, Secure Fence, was an ideal choice for this project because of its ability to manage the extreme weather and environmental conditions which are typical at the site. "The coastal site is subject to extreme weather conditions, including cyclonic winds and very high rainfall," Mr Rowan said. "It has one of the world's highest incidents of lightning, recording more than 30,000 lightning strikes every year."

FFT's Secure Fence requires no electronics or power in the field, which is an advantage given the electrical and magnetic fields common at power stations. Secure Fence is easy and economical to install or expand and features a corrosion-resistant, inert cable, ideal for the coastal location of the site, some of which covers a mangrove area adjacent to an estuary. All FFT's products are equipped with the company's patented Advanced Recognition and Discrimination (ARaD) technology, which overcomes the traditional problems of nuisance alarms that are so common with other solutions. This technology uses signature recognition and advanced software to "know" the difference between an environmental event and an attempted intrusion. In this way, nuisance alarms are avoided.

Another advantage of the FFT solution is its ability to readily interface with the broad range of software used typically at power stations, including CCTV systems, gates, plus various external devices and systems. At the gas turbine station, the system works by instantly displaying the area or zone in which an alarm is triggered, automatically logging the event into a secure database. An alarm signal is then sent via dry contacts to a high level command and control system, lights are activated and the intrusion is investigated further. The low cost fibre optic sensor cable is easily attached to a fence to detect intrusion attempts. The system can be configured so that if the cable is cut in one zone, the remaining zones continue to operate normally.

Naval Facility Presented Special Challenges

A critical naval manufacturing and repair facility presented some unique challenges to FFT, when the company was chosen to protect the site's perimeter. As well as the site's location on the waterfront, the facility is adjacent to other large scale engineering facilities, at which heavy machinery causes significant amounts of noise and vibrations from the work being carried out, adding to the ground movement created by its own work. FFT overcame these challenges by installing a combination of its newest security system, Secure Zone, and its Secure Fence product at the site to deliver the best possible protection at the lowest possible cost.

When ground movement can be caused by any number of factors including hydraulic heavy machinery lifting equipment, re-fuelling, rail transport of newly manufactured parts, as well as and painting and blasting of vessels, the ability of FFT's system to separate intrusion attempts from the normal running of the yard was a significant advantage.

Another challenge for the FFT team was the fact that the facility is surrounded by sections of removable security fencing, necessary for the movement of the parts around the facility. Alec Owen, International Client Manager at FFT, says Secure Zone's ability to select operational zones overcame this problem. "When fence sections are removed to allow large prefabricated sections of vessels to be moved into and out of the assembly facility, the sensor cable is simply unplugged for that particular zone and the fence section moved," Mr Owen says. "All the other sections remain fully operational."

"The Secure Zone system is configured so there are 16 independent hardware zones, each up to 500 m, which can be activated or de-activated independently," he said. "The other advantage is that we can deliver superior value-for-money due to the easy installation process." Simple and intuitive to use, Secure Zone has the ability to interface and activate CCTV systems, lighting, gates, email, plus a broad range of external devices and systems. In the event of an intrusion at the naval facility, the area or zone in which an alarm is triggered is instantly displayed at the security centre and the event is automatically logged into a secure database. Simultaneously, the alarm signal is sent in real time via contacts to the control system, which in turn activates the CCTV system, allowing security staff to quickly assess and react appropriately to the threat.

The system requires no electronics or power, and is easy and economical to install or expand. There is no field maintenance, and the fibre optic cable is unaffected by RFI, EMI, lightning or storms. Its fibre optic connections can be all mechanical, so no special fibre optic skills are required, making installation even easier for systems integrators.

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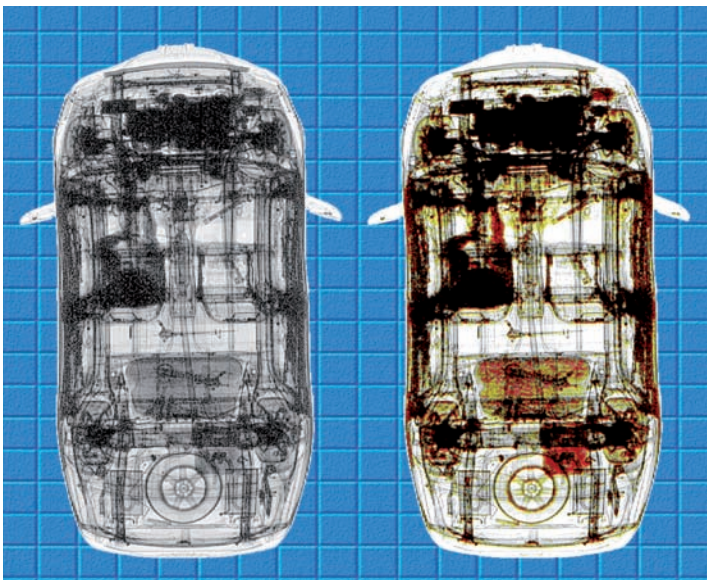

PERIMETER PROTECTION

Please Remain Seated

Scanning Vehicles on the Move for Organic Materials

Frequent flyers don't think twice about walking through an archway at the airport to detect any metal that they are carrying. They are also used to handing over their hand luggage to be scanned for illicit or dangerous substances. Some have now come to accept going through the controversial 'body scanner' that provides airport security with a detailed view of the traveler's person, without them having to remove their clothing. But what about those travelling in vehicles? Until now, port authorities and security agents at sensitive locations and installations have either had to let most vehicles through unchecked, relying on their sixth sense to pull suspects out of the line or to do a time-consuming check of all vehicles.

CarScan is a new development by SAIC, San Diego, USA, that is distributed by the manufacturer's partner Secura Systems, a pan-European distributor of high-end security products and solutions. The product was developed with the financial assistance of the TSA, the Transport Security Agency, a US department of homeland security. The task was to build a device capable of viewing 100% of cars and small vans while ensuring a high traffic throughput and using only a tiny amount of X-ray radiation. It must be possible to look into concealed areas of the vehicles that could conceal explosives, money, drugs or even people.

The result is a mobile system that can be set up within a few hours by a small team. Thanks to its design, it fits into existing car lanes so that no earthworks, trenches or other building works are necessary. A small ramp is used to slow approaching vehicles down and the scan takes place as the vehicle drives through the archway.

Low Dose

People may complain at being subjected to a dose of X-rays but in fact the system emits a far smaller level of radiation – only up to around 0.1 microSievert (µSv) – just a small fraction of what we are naturally exposed to during a normal working day. This level corresponds to approximately 1/10,000th of a typical medical X-ray and can be safely ignored as a health factor. The use of the equipment complies with ANSI/HPS N43-17, the primary standard in the U.S. for general purpose security screening of humans using X-rays. The CarScan can also be used In Europe once national administrations have ratified the European standard IEC 62463 radiation protection instrumentation that was approved in September 2009 into their own legislation. This is already in progress in many European countries.

The trick to achieving usable images from such small radiation levels lies in the use of a patent-pending technique called K-Edge Switched Energy. This simultaneously screens the vehicle at two different energy levels and allows metal and organic objects to be distinguished. Organic threats such as explosives, drugs and even stowaways are shown on the control monitor in shades of yellow and red according to mass, as against metallic parts that show up in grey or black. The resultant image clearly shows the operator not only what sort of items are on board the vehicle but also their size and weight.

Go with the Flow

Wherever large numbers of vehicles come together there is inevitably congestion. This is only made worse when security levels are high and each vehicle must be manually inspected. Use of the CarScan will therefore be welcomed, for example, at vehicle entry points to defense installations, to critical infrastructures such as power plants, at airports and ferry terminals. Images from scanned vehicles are delivered within seconds, so approaching vehicles must only slow down to pass under the scanner gantry and must not stop unless the operator sees something suspicious. Traffic continues to move and congestion is minimized, even though every single vehicle is subjected to a complete scan.

The system is ideal for use not only at high traffic points such as customs and border controls but also to cover the ad-hoc requirements of the police for special events, at embassies or government buildings. It also interfaces with third-party systems, for example with the Simplicity C3 command and control software so it can be integrated into a larger configuration of security devices. A complete, more permanent installation might also include additional devices such as day/night camera systems, road blockers and automatic number plate recognition.

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PERIMETER PROTECTION
FACHMESSE FÜR PERIMETER-SCHUTZ, ZAUNTECHNIK UND GEBÄUDESICHERHEIT

PERIMETER PROTECTION

Perimeter Protection: "Here We Meet Our Target Group"

Positive Response to New Exhibition – Market Leaders Have Already Registered

About Perimeter Protection and Its Concept

Some 150 exhibitors and 5,000 visitors are expected at the premiere of Perimeter Protection from 21–23 April 2010. The products on display include:

- Fencing systems, fittings, component products
- Power- and manually operated site gates and doors
- Power- and manually operated gates, barriers, bollards
- Turnstiles
- Security and barbed wire systems
- Components for fencing and door systems
- Access control and surveillance equipment/maximum security systems
- Service and maintenance

In terms of visitors, Perimeter Protection is designed for the large classic target groups from the trades like metalworkers, electronic technicians or locksmiths, and for those responsible for planning like architects, planners and security consultants. The exhibition is also of interest to security officers from the sectors of local and long-distance transport, (air)ports, energy, fire service, rescue service, police, armed forces, large industrial companies, and decision-makers from municipal and local authorities.

The new Trade Fair for Perimeter Protection, Fencing and Building Security starts in the Exhibition Centre Nuremberg from 21–23 April 2010. The industry is very interested in the event and Gunnebo, Berlemann Torbau GmbH, SL Technology, GPS Perimeter Systems, Mekon and others have already registered. All the companies are agreed that the exhibition comes at exactly the right time. The protection of outdoor sites, whether industrial or private, is becoming increasingly important. At Perimeter Protection, decision-makers can obtain information about the products and solutions available.

"The Perimeter Protection exhibition is just made for us, as it reflects our whole product spectrum," says Thomas Hein, Manager Marketing and Communication at market leader Gunnebo Germany. The Site Protection Division of Gunnebo Germany offers mechanical and electronic protection measures for outdoors – from fencing systems, gates and barriers to access control with turnstiles and video surveillance. Gunnebo's customers include embassies, military installations and industrial enterprises. Hein thinks it is very good that the exhibition specializes in perimeter protection. "The trend is away from mega-exhibitions, where many hunters and collectors are underway. The quality of the visitors is better at smaller specialized exhibitions like Perimeter Protection. Here you can discuss specific planned projects with the visitors," Hein continues. "We take part in the exhibition to improve the awareness of our company, show new products live and ultimately generate orders of course."

Perimeter Protection Is a "Working Exhibition"

SL Technology has very similar motives. "Perimeter Protection is clearly a working exhibition for us, where exhibiting for image reasons is less important. We offer visiting experts comprehensive, solution-orientated talks, explain the technical aspects and present our latest IMS sensor system on our stand," says Dipl.-Ing. Fred Mittemeyer, Managing Director of SL Technology GmbH. IMS stands for Integrated Modular Security and not only enables classic detection of fencing and gate systems, but also reliable and low-cost protection of solar plants, roofs and outer skins of halls, window bars and pipes over large distances. SL Technology can draw on decades of experience with sensor systems. Its regular customers include prisons and forensic institutions, as well as nuclear power stations, automobile manufacturers and industrial companies. "What we particularly appreciate about Nuremberg as the venue for Perimeter Protection is its central location in Germany and its proximity to East European countries, which will play a more important role for us in future," says Mittemeyer.

More information about the exhibition and the application documents are available on the Internet at www.perimeter-protection.de.

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COVER STORY

Milestone Secures Malmo CityTunnel

Increased Railway Security through IP Video Management Software

When the Swedish national railway began major construction of the Malmo CityTunnel Project in 2005, workplace security was of utmost concern. Now the tracks are almost ready, and it is IP video surveillance management software from Milestone Systems that helps make sure everything goes smoothly. When construction is complete in December 2010, 17 kilometers of new high-tech, double-track electric rails will connect Malmo Central Station in Sweden with the Oresund Bridge to Denmark. Six kilometers of that will run underground in two parallel tunnels through the center of Malmo.

The goal of the CityTunnel connection between Malmo and Copenhagen is to greatly reduce the travel time between the two cities – and not least to transform Malmo Central Station into a transit hub that powers the pan-Scandinavian network. Several thousand people have been involved in this construction, and today around 100 men are working with the last preparations. It is precisely this reduction in personnel that has made the managers of the CityTunnel project sharpen security for the workers with IP video surveillance from Milestone Systems.

"In conjunction with reducing the workforce in this phase, we have increased the security because even though the project will soon be finished, we have to continue to ensure that the work goes smoothly and problem-free and that our employees have safe work conditions. We have therefore chosen IP network video surveillance, and it has already solved a number of issues for us," says Mikael Lundquist, Manager for Personnel & Work Environment, CityTunnel. In collaboration with Insupport, a Certified Milestone Partner, the CityTunnel project identified

weak points in their security and it was clear that network video surveillance was necessary. The choice was Milestone XProtect Enterprise, an IP software solution designed as an open platform that supports the largest options for cameras and integrations with other systems – both existing and future. The video surveillance is installed in three train stations, as well as the tunnels, with about 30 Sony IP cameras, including the rugged stationary dome model SNC DF80 and the panorama model SNC RZ25 with Pan/Tilt/Zoom and day/night functionality.

Strong Nordic Partner

"The decision to use Milestone was easy. We know Milestone really well, and they offer a very strong platform that allows integration with all kinds of software and hardware. Among other things, we can archive the surveillance video in very high quality and quickly export images to other locations, which has huge value for the City-Tunnel," states Pontus Pettersson, VP at Insupport Natverksvideo. Three security guards patrol the underground stations where the surveillance is installed. When they walk their normal rounds they can also have their colleagues follow with the video monitors at any time. The system has been used primarily for documentation which has already been a big help, for example in the case of two inebriated Danes who got lost in the tunnel in January. With the video images, there was incontrovertible evidence that was immediately given to the police. "We have been very pleased with the Milestone software, not least because it is easy to use by our security personnel, but of course because it makes our work much safer," concludes Mikael Lundquist.

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XProtect Corporate 3.1 with enhanced User Interface

Within the Milestone product portfolio XProtect Corporate is designed for large-scale implementations, supporting unlimited cameras, users and sites. Integrated map applications and built-in support for video walls provide exceptional surveillance overview and control. Centralized management and intuitive operator clients make handling large installations easy.

The latest release of XProtect Corporate 3.1 now comes with a significant new version of the user interface: Smart Client 5.0. Ground-breaking functionality like the Sequence Explorer investigation tool and independent playback significantly increase efficiency in security operations and investigations. Milestone version 3.1 of XProtect Corporate is powerful IP video management software designed for large-scale, mission-critical security implementations, supporting unlimited cameras, users and sites. This release includes streamlined and optimized installation procedures for easier deployment, Management Server Failover using Windows Server Clustering, plus Windows 7 and Server 2008 R2 support.

Even more important news about this release, however, is the innovative version 5.0 of XProtect Smart Client that takes a giant leap forward in usability and functionality. It is available in 20 languages including online help, which extends the software's ease of use around the world.

Enhanced User Interface

Milestone XProtect Smart Client 5.0 also improves the user experience through an enhanced, adaptable interface that focuses on personalized usability and operational efficiency. The intuitive layout allows users to show only the dialogs preferred or needed for surveillance tasks, or hide them all for a pure full-screen mode of viewing, if desired. In addition to selecting controls on the fly, each user can choose to remove controls from the interface, so only the most relevant ones are displayed. This makes the system interface easier to understand and navigate – especially for new users.

With this release, XProtect Smart Client features an industry first called Sequence Explorer that previews tiled video from recorded sequences or time intervals from multiple cameras. The Sequence Explorer displays a drag-and-throw wall of video preview images in thumbnails with smooth slider scrolling and easy selection of preview images for closer scrutiny of details. The Sequence Explorer is a powerful new investigation tool to browse through recorded video sequences to find incidents and evidence fast. Milestone XProtect Smart Client now also provides video overlay playback controls to view individual cameras in live mode. This means that operators can play back events on one camera without losing track of what happens live. This feature also works in the normal playback mode so operators can see recorded camera images in the view from different times. Overlay buttons can also be added on each camera to facilitate common actions such as triggering events and outputs, using PTZ, and other tracking tasks – all to improve surveillance effectiveness.

Up to One Hundred Cameras in a Single View

"XProtect Corporate 3.1 with Smart Client 5.0 offers innovative new combinations of tools for improving the user's experience and efficiency on the job, which translates to more rapid response and better security. Independent playback and the unique Sequence Explorer make investigations far easier than ever before, and the adaptable GUI in particular is a game-changer in the surveillance industry that operators at all skill levels will really appreciate," says John Blem, CTO and Co-Founder of Milestone Systems. XProtect Smart Client 5.0 shows up to 100 concurrent cameras in a single view with unlimited numbers of more via carousel and HotSpot windows. Customers can ramp it up with XProtect Smart Wall for large command center installations, and add even more value through integrated solutions with other systems offered by Milestone Solution Partners. XProtect Corporate 3.1 with the new Smart Client 5.0 will be demonstrated live at the upcoming industry trade shows this spring around the world.

CCTV

Throwing Light on Infrared

Using Infrared Illumination in an IP Surveillance Environment

There is a simple premise that impacts the performance and effectiveness of any camera installation: if there is no light, there can be no picture. But since today's security systems require 24/7 operation, it is how a camera performs during the vulnerable hours of darkness that determines overall system effectiveness. Nighttime is, after all, the time when the vast majority of criminal activity occurs.

Ian Crosby of Bosch Security Systems discusses here the benefits of using infrared illumination in an IP surveillance environment, and in particular its positive effect on bandwidth management. Whether analog or IP (where encoding algorithms such as H264 encode the analog video for use on digital IP systems), virtually all CCTV cameras will produce usable surveillance images under well-lit daytime conditions. Many cameras today have very low lux ratings, often in the range of 0.1 lux.

While these camera's specifications will suggest effective operation under low light, it is generally accepted in the security industry that low-light environments result in 'noisy', low-quality images. When light levels decrease, there is a corresponding increase in the demand for bandwidth – often used synonymously with the term 'bit rate' which is defined as the amount of space required by the network in one second. Generally speaking, and assuming all other factors are equal, nighttime imaging requires greater bandwidth than daytime imaging.

Gain Is Relative

To understand the reasons behind this higher bandwidth requirement in low light, we need to consider automatic gain control (AGC), a camera technology that increases signal strength under low light conditions. AGC works simply by amplifying the image; however, the effect of the amplification is an increase in the video signal, and also the subsequent 'noise'. As a scene darkens, AGC is activated and image noise increases. The darker it gets, the more AGC increases in magnitude, and even more noise is created in the process. Eventually, the nighttime image is obscured by 'snow' and graininess. Under these conditions, bit rates can be many times greater than the daytime bit rate for static, non-moving images. It is important to have a basic understanding of how compression algorithms work in order to understand why there is a rise in bit rate. The basic principle of compression is to eliminate superfluous information to reduce file size. All compression requires a compromise between image quality and file size. Higher compression ratios deliver smaller file sizes but lower quality images; conversely, lower compression ratios produce higher quality images but larger file sizes.

Light Snow

Today's popular compression engines typically incorporate JPEG, MPEG or M-JPEG. Most current, of course, is the new H264 algorithm that uses some 30 % less bandwidth than MPEG4 compression technology, which is itself 80 % more efficient than MJPEG. All, however, share common reduction principles: irrelevancy reduction which removes parts of the video signal not noticeable by the human eye, such as subtle color changes; or redundancy reduction which removes duplicated information either from the same frame or between frames, such as large uniform

◀ **Bandwidth and storage are directly related. If video is being transmitted at a certain bit-rate across a network to be stored, then it will consume disk space at exactly the same rate. For example, a 1 Mbps video stream will use 1 Mb (Megabit) of space in one second.**

areas of color or stationary objects. Therefore, noise caused by AGC interferes with compression algorithms used in today's IP encoders. More precisely, compression algorithms interpret the 'snow' and graininess of AGC-enhanced images as 'useful' information (such as image details or motion) that cannot be reduced by either irrelevancy or redundancy. Consequently, nighttime images are less compressed and generally larger in file size. From this understanding, it is clear that there is a direct relationship between nighttime performance, compression and bit rates.

Combining IR with IP

At first, it seems that the quickest fix would be to disable AGC. The strategy would indeed reduce bit rate, but at the expense of image detail. Doing so would result in very poor – if not useless – nighttime images, and the whole purpose of installing CCTV cameras would be lost. The best solution to ensure effective nighttime performance of IP-based systems is to apply infrared illumination to a scene. Providing the camera with the right amount of infrared illumination will ensure that nighttime images are high signal, low noise. Under these conditions, AGC becomes unnecessary and compression algorithms within encoders, DVRs and other IP equipment work efficiently. In most applications, frame rates and resolution are typically altered to suit the application requirements. For example, if either network bandwidth or storage space is insufficient, a common strategy is to reduce the frame rate, reduce the resolution or both. However, there are disadvantages to this approach. Sacrificing frame rate and resolution results in low-quality 'choppy' video that may miss critical moments in a security event. Additionally, low frame rate and resolution often defeat video analytics software. For high-level critical security

projects, the better strategy is to upgrade storage and bandwidth capabilities to retain the integrity of the surveillance video.

Invisible light

The addition of active infrared replaces noisy nighttime images with high-fidelity night vision by providing 'invisible' light for the camera to see. High AGC is not triggered and bandwidth requirements remain similar to day-time levels. When comparing the effects of infrared illumination from a low light scene (<1 lux) to a scene well exposed to infrared illumination, tests have shown bit rate reductions ranging from 48 % to 91 %. The variation in magnitude of reductions may be attributed primarily to differences in ambient visible lighting levels. The results of these same tests reveal a clear trend of less pronounced bit rate reductions as the ambient lighting conditions became brighter, making infrared illumination less important in video bandwidth. What they show also is that infrared illumination can actually be used as a bit-rate reducing tool under low light conditions. At the most basic level, infrared illumination is light. Although invisible to the human eye – which would see a completely dark scene – infrared illumination is a form of light that modern surveillance cameras can use to create images. Precisely because it is light, infrared illumination prevents noisy images and subsequently the chain of events that cause high bit rates. Low-noise (or what can be considered high quality) images require significantly less bandwidth than noisy (low quality) images.

Although infrared illumination provides a field-proven solution for nighttime surveillance, its possible application in terms of bandwidth management may come as a surprise. But given that disk space is one of the most expensive components of CCTV security, that surprise will at least be a pleasant one, and indeed encourage risk managers to consider IR as an effective strategy for reducing storage demands in IP encoder applications.

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CCTV

Reach out for the Medals

Security and More for the Vancouver 2010 Olympic Winter Games

Set in the diverse landscape of the west coast of Canada, Vancouver hosted the XXI Olympic Winter Games in 2010. The Olympic Games have been a successful global sporting event since 1896 when the first ever Olympic Games were held in Athens, Greece. The Olympic Winter Games were not far behind as the Games started in Chamonix in 1924 covering sports from speed skating to ice hockey. Panasonic's relationship started with the 1984 Olympic Games when the company provided the professional sound system and large screen video displays for the Los Angeles main stadium. This relationship has since progressed extensively and Panasonic became a member of The Olympic Partners (TOP) programme in 1987. Panasonic's exclusive product category is audio and video equipment, AV recording media, AV security equipment and car multimedia.

Sound and Vison for the Olympic Venues

During the run up to the Vancouver 2010 Winter Games, Panasonic has provided equipment such as 86 WS – LA3 RAMSA speakers for the ISU Four Continents Figure Skating Championships, a 42 m^2 Astrovision large-screen display during the Richmond Winter festival and a 79 m^2 Astrovision display screen for the IBU world cup biathlon at Whistler Olympic Park. These products were used for test events and count down events demonstrating Panasonic's support to the celebrated event.

Home to such sports as figure skating, short track speed skating and speed skating, the Pacific Coliseum located in Hastings Park was one of the larges t venues for Vancouver 2010. With a capacity of 14,200 people, this venue attracted huge crowds of spectators to some of the most popular events. Located 840 meters above sea level in stunning snow-capped surroundings, the Whistler Olympic Park has a capacity of 12,000 in each of the three stadiums. It was the first time that the biathlon, cross-country skiing, Nordic Combined and ski jumping have ever been played at the same venue in Olympic Games history. The Richmond Olympic Oval can hold up to 7,600 spectators and was the venue for the speed skating competition. This specifically built stadium was completed December 2008 and after the Winter Games it will become an International Centre of Excellence for Sports and Wellness.

Panasonic has supplied the Vancouver 2010 venues with Astrovision and Professional Plasma Display equipment, AV security equipment, infra-red wireless system systems and RAMSA sound systems. RAMSA (Research for Advanced Music Sound and Acoustics) is a range of revolutionary products aimed to enhance audio spaces. One of the main benefits of RAMSA is the ability to tailor make the sound system to the venue which allows for the best sound quality possible. The infra-red wireless microphone incorporates the progressive infra–red technology eliminating interception, so when the wireless microphones are used individually they do not conflict with each other and causes of interference, therefore enhancing the quality of sound. A total of 12 systems are being used to enhance communication between workforces.

Astrovision is a fully integrated LED large screen solution intended to provide easily viewable displays at large events and attractions. Panasonic's Astrovision is recognised as reproducing one of the highest colour images with 1 billion colours, full 10-bit colour gradation and its proprietary image-enhancing technology, the LED's can withstand wide variations in temperature which guarantees uninterrupted coverage, even in the freezing conditions. Approximately 2500 plasma televisions were supplied to the Vancouver 2010 Winter Games including the famous 103" Professional Plasma Display. Panasonic's leading plasma technology produces exceptional quality images and the equipment supports the essential transmission to millions of viewers around the world. Panasonic Professional Plasmas are versatile & flexible which is essential for such a world renowned event on such a large scale. The display combines high-quality colour performance with a variety of connection options, resulting in a tailored 'all-in-one' solution.

Network Video Securing the Games

Panasonic have also provided i-Pro network CCTV cameras throughout the Olympic venues. The range of professional IP security products provided to the Games enhanced efficiency and reliability. The WV–NW484S model, used mostly throughout, is a vandal resistant static IP dome camera featuring super dynamic technology which delivers 128x dynamic range natural contrast image correction. The vandal resistant property

Panasonics vandal resistant IP dome camera NW484S

of the camera is achieved through a toughened polycarbonate hemisphere and heavy duty steel casing. The camera is IP66 rated which allows it to be used extreme weather conditions such as those exposed in the Winter Games. The camera also features auto back focus for easy set up, MPEG-4 and JPEG dual stream output for simultaneous live monitoring and high resolution recording. The day and night function allows the camera to automatically adjust to the light conditions. Other cameras which are featured are the external WV–NW964 and internal WV–NS954 IP PTZ dome cameras.

The images captured by the WV-NW484S are recorded onto a WJ–ND400 network disk recorder (NDR). This NDR is able to record up to 64 cameras in real time and includes a large storage capacity allowing images to be retained for longer. It is a stable platform with embedded hardware which increases the reliability and performance of the system. The software helps support the viewing and recording of the images by enhancing the user experience by incorporating site maps, joystick control and multi screen viewing. Other features include alarm pop-up notification alerting the operator of any intruders or activity that wouldn't have otherwise been noticed and also control of the NDR. These products together create an all round AV security systems solution for one of the world's most prestigious sporting competitions.

Secure and Eco-friendly

The eco-friendly theme of the event is supported by Panasonic's products. Panasonic's world wide Eco Ideas strategies main ideas are; prevention of global warming, effective utilisation of resources and management of chemical substances. The environmental performance of Panasonic's AV security equipment, including the i-Pro series is steadily improving. IP cameras, compared to Analogue cameras have reduced $C0_2$ emissions by 42 %, likewise NDRs have a reduced $C0_2$ emissions by 33 % compared with the DVRs. Panasonic have also eliminated both lead and mercury from plasma displays and are releasing a new NeoPDP (plasma display panel) which for the same level of luminance, consumes up to less than half the power of models manufactured only 2 years ago. Reductions in CO_2 emissions have been calculated based on the comparison of greenhouse gas emissions (kg-CO_2) (defined as the CO_2 emissions of the materials used, transportation of products and power consumption during product use) of the WJ-NP304 Network Camera and the WJ-ND200 Network Disc Recorder against those of older models. The older models of such products are surveillance cameras from 2000 and digital disk recorders from 2004. In 2007 Panasonic renewed its partnership with the International Olympic Committee (IOC) until the Rio 2016 Olympic Games. Panasonic is proud to have this relationship with the Olympic Games and is looking forward to providing support for the future Olympic Games.

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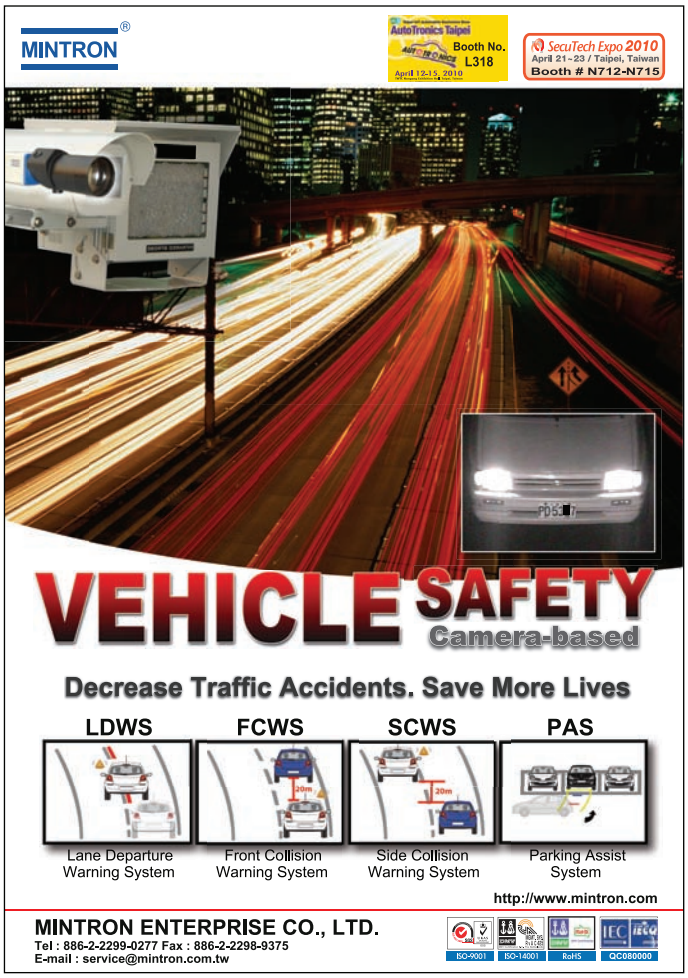
Video, Data and Ethernet over Optical Fiber

Communication Networks of Danbury, Connecticut, doing business as Comnet, has introduced a new fiber optic transmission product designed to aid in the transition from point-to-point systems to Ethernet network systems. The FVT/FVR10D1E Series are fiber optic video transmitters and receivers that support digitally encoded video, serial data as well as 10/100 Ethernet. The series provides 10-bit digitally encoded RS-250C Short-Haul quality video, serial data and 10/100 Ethernet on one single optical fiber. This model offers the user a solution for current requirements where high-quality video is needed, but future expansion and upgrades will necessitate the use of Ethernet. The product maximizes user flexibility and provides cost savings when future system upgrades are called for.
www.comnet.net

Compact JPEG Megapixel Cameras

Arecont Vision announced the launch of their new compact JPEG series of cameras in 1.3, 2, 3 or 5 megapixel formats. These CMOS sensor cameras were designed to address cost sensitivities in the JPEG market as well as the size constraints of environmental housings. Although the compact cameras are approximately half the size and one-third lighter than their Megavideo full size counterparts, the new line offers identical picture quality, frame rates, image processing and many core functionalities as the full size units. These cameras have been completely redesigned to allow for significantly lower price points while maintaining performance. Equipped with on camera motion detection and 64 zone capability, the cameras provide custom programmable resolution, brightness, saturation, gamma, sharpness and tint.
www.arecontvision.com



CCTV

Where It's Winter All Year Round

Keeping an Eye on the Ski Slopes with CCTV

With the perfect slope, the perfect snow, and the perfect location; The Snow Centre in Hemel Hempstead is Britain's newest indoor snow sports destination. The design for the CCTV system utilizes a mixed gigabit Ethernet and fiber-optic infrastructure, planned by Switchnet to support IT, telephony, wireless internet and IP-TV throughout the center.

Designed to deliver the alpine conditions every skier and snowboarder dreams of, guests can enjoy a huge 160 m main slope as well as the largest indoor lesson slope in the UK. Both slopes are over 30 m wide and maintained with the perfect snow surface. The Snow Centre employs some of the most highly qualified and talented instructors and coaches in the UK who train snow first-timers, enthusiastic intermediates or even budding Olympians. The center is a British Association of Snow Sports Instructors (BASI) center of excellence. Off the slopes, The Snow Centre hosts team building and corporate hospitality experiences in three air-conditioned conference rooms for up to 55 people.

The project is the brainchild of David Surrey, who first built a plastic outdoor ski slope on the same site in 1978. Over the next 30 years, the original Hemel Ski Centre grew to become one of the best dry slopes in Britain. The construction of the new state-of-the-art facility started in 2008 and cost around £23 million. The final 25,000 square foot site opened in May 2009 with car parking for 250 vehicles and receives up to 10,000 visitors per week during peak times. The Snow Centre has attracted a number of high profile guests including World Cup skier Ed Drake, blind speed skier Kevin Alderton, ski mountain biker Fin Paton and Olympic skier Alain Baxter.

Protecting the Piste

With such a large and prestigious venue, security is critical to The Snow Centre's operations. From the first meetings with the architects and the construction firm, due care and consideration was given to how The Snow Centre could be secured effectively and discretely, both indoors and outside. One major area of concern is the „Snow Box", which contains the two main slopes and 80 tons of snow kept at minus two Celsius. The box is lined with a special insulating membrane, which makes running new cables a complex and expensive undertaking. Any CCTV cameras within this area would need to work reliably at low temperatures while offering good quality, even under the glare from the perfect white snow. David Surrey, Commercial Director for The Snow Centre, explains: „The CCTV system needed to be both high quality and reliable with the ability to cover the entire center, from the Snow Box all the way through the car park and main gate. We had worked with Switchnet on an earlier project and had selected them as our primary IT contractor for the center's IT and AV systems, so we turned to them for advice."

Converged Network Design

Switchnet is a leading networking services integrator specializing in the development and support of networking infrastructures. The firm prides itself on being vendor-independent and it maintains CCTV and networking expertise across a number of different manufacturers. With this independence in mind, in early 2008, their

project team evaluated the proposed architectural plans and had several meetings with the facilities managers. Based on the client's requirements, they came up with a Mobotix-based design using 40 cameras, including four within the Snow Box.

„The Snow Centre had no legacy infrastructure, a good IP network and requirements for high quality images and sound across indoor, outdoor and cold climate conditions," explains Gregg Pike, Operations Director for Switchnet. „In this environment, Mobotix was the natural choice." The CCTV system utilizes the mixed gigabit Ethernet and fiber-optic infrastructure that also carries IT, telephony, wireless internet and IP-TV.

„The decentralized concept used within the Mobotix platform allows us to run the CCTV system high resolutions and with fast frame rates without overloading the network," explains Pike. „With image processing performed inside the camera, The Snow Centre was able to save a considerable sum of money by not having to deploy a control room full of powerful video servers, while staff are able to view the CCTV images from any network-connected PC." With a design approved, work on installing the network and CCTV at the site began in late 2008.

Deterring Unwanted Guests

However, around Christmas of the same year, The Snow Centre building site was hit by a number of incidents of vandalism. Fearing delays to the project, the building contractor McAlpine turned to Switchnet for help. The response was a high mounted Mobotix CCTV camera with night vision lenses, which recorded footage of teenage intruders in the site a few nights later. The footage was passed to the local police who warned the offenders with clear photographic evidence and the vandalism stopped. The build project progressed smoothly with cameras installed in the Snow Box in March of 2009.

Reliability Even in the Cold

„One of the key features of the Mobotix cameras is their ability to operate at low temperatures," explains Pike. „The cameras in the Snow Box don't require any heaters or protective housing and the quality was exceptionally high." All 40 cameras are monitored from a security station using MxControlCenter software. By using a decentralized CCTV concept, the center has required only a modest investment in its security station infrastructure, while benefiting from sophisticated video and alarm management with an integrated layout manager to help operators quickly zoom in on areas. After a brief period of training, The Snow Centre facilities and security teams quickly adapted to its use and are able to respond to incidents without further ado.

In fact, shortly after The Snow Centre opened in May of 2009, the Mobotix system was used for such an incident. During a busy session, a fire alarm was triggered, prompting the center to be evacuated. After the 'all clear' was given by the fire brigade, the facilities managers were able to replay events across the entire center and located an unsecured control point at a low level that had been activated by a small child. „The system allowed the facilities team to quickly evaluate the incident," explains Pike, „and the control point was moved to a higher point on the wall to stop false alarms in the future."

Flawless Operation

Since the opening of The Snow Centre, the Mobotix CCTV solution has performed flawlessly. The installation is discreet, yet offers 100 per cent coverage over all parts of the facility that are accessible to the public. „The safety of our guests and staff is of paramount importance to us," comments Surrey. „Our investment in the security system and diligence of our facilities and security teams ensures that we are able to protect everybody, both on and off the slopes."

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CCTV

Friendly and Fair

Sparda-Bank Regensburg eG Equipped with Dallmeier Technology

"Friendly & fair" – True to that motto the individual private customer is the centre of attention for the Sparda-Bank. In order to ensure that customers feel comfortable and safe a state-of-the-art video security system is used. When it comes to security the Sparda-Bank Regensburg eG trusts in technology from Dallmeier.

Once upon a time… On Wednesday, May 6th, 1896, the "Spar- und Vorschuss-Verein der badischen Eisenbahnbeamten", Germany's first Sparda-Bank, was founded in Karlsruhe. The railroad employees' idea was to establish their own bank that would allow them to invest money on attractive terms and to take up soft loans if needed.

Today, the Sparda banks are a group of 12 regional cooperative banks. Their 6,000 employees are spread out across more than 400 branches and serve a total of almost three million members. Traditionally, the needs of private customers have been at the heart of the banks' business activities, true to the motto "friendly and fair". By purchasing cooperative shares the customers of the Sparda banks can become members of their bank and thus not only benefit from attractive conditions but also actively participate in the common business.

As a cooperative bank the Sparda Bank first of all serves the interests of its individual members. Customer satisfaction is the top priority. The yearly German consumer study "Kundenmonitor Deutschland" has repeatedly and impressively shown that this goal is continuously achieved. Among the nine banks participating in the study in 2008, the Sparda banks again ranked number one for the sixteenth consecutive time.

Sparda Bank Regensburg Trusts in Dallmeier

The trading area of the Sparda Bank Regensburg eG comprises the regions of the Upper-Palatinate, Lower Bavaria and also parts of Upper Franconia. A total of sixteen branch offices ensure the necessary proximity to the bank's customers. Johannes Tegethoff, vice-chairman of the Sparda Bank Regensburg, explains: "The Sparda Bank Regensburg eG currently has more than 80,000 members. It is our main priority to satisfy their needs. That also includes a high-quality video surveillance system in order to have evidentiary image material in case of an emergency. That requirement was the reason for us to choose Dallmeier."

The decision to use the Dallmeier systems was made following extensive testing of the devices. The Sparda Bank Regensburg eG was no longer satisfied with the image quality produced by its cameras. In particular, strong backlighting through glass facades or reflecting tiles had repeatedly caused problems in the past. Therefore, the management of the Sparda Bank tested Dallmeier cameras with Cam_inPIX technology and was excited by the results. Martin Heidenreich, responsible for oganisation/IT, explains: "Whereas in some instances we only saw a person with a black face, we now have high-quality image material which allows us to discern all the important details. That is a major advantage, particularly when it comes to clearly identifying people."

Gradually, the existing cameras within the Sparda Bank's trading area are therefore replaced by Dallmeier cameras. Besides other cameras, the high-resolution colour box cameras of the DF3000A-DN model and vandal-resistant dome cameras are used. The module camera MDF3000A-M is ideally suited for the installation in cash dispensers, because despite the heavily tinted pane it delivers detailed image material thanks to its Cam_inPIX technology. Using the Dallmeier ATM installation kit, the camera can quickly and easily be carried out.

Recording on Special Bank Recorders

The existing recording devices will be gradually replaced by the Dallmeier recorders of the DMS 240 model. The DMS 240 Bank is a stand-alone H.264 audio and video recorder with up to 24 analogue channels. Its certifications and specific system parameters make the DMS 240 Bank an optimal device for the use in banks. The BG test certificate "UVV Kassen", for instance, guarantees a high quality standard of the digital recording devices for the use in banks and financial institutions. Furthermore, the DMS 240 has the Kalagate/LGC certificate, which means that the recorded image material can be used for evidence in courts of law. Also, the device is tested according to DIN EN 50130-4.

The various settings of the bank-specific software allow for the ideal configuration of the recorder for different applications and areas of use in the cashier's office, the vault and foyer. The integration of external data, for example from cash dispensers, cash registers or access control systems can optionally be carried out without any problems via the Dallmeier Network Interface DNI. The connection of the ATM to the recorder gives the user a variety of search functions, for instance by reference to bank account numbers. If an incident should occur, the recorded image material can thus quickly and efficiently be carried out. Also, the Dallmeier Sedor technology offers additional security through an automatic camera sabotage protection (turning, covering, focus change and spray painting).

Moreover, the DMS 240 Bank offers the possibility of a so-called ATM activity survey. Thereby, the recorder checks whether transactions take place at the cash dispenser. Should there be no transactions during the selected period of

time a message will be sent. That mechanism prevents that the recording accidently and unnoticeably fails, for example during the conversion of ATM protocols (which happens every now and then), and ensures that important image data are available if needed.

User-friendly Operation

The control of the system and the evaluation of the data is carried out via the PView software. Mr Heidenreich initially had some concerns about integrating a third-party software into the system. However, those concerns could be dispelled by the numerous certifications and network approvals such as Fiducia. After some tests of the new software had been conducted, Mr Heidenreich was totally convinced: "The software is highly intuitive and extremely easy to use. Therefore, the search for relevant sequences is very fast and easy!"

On-site Support

The installation and commissioning is carried out by the system installer Harvolk IT. The specialised installer has been a competent Dallmeier partner for many years and has extensive professional knowledge at its disposal. Wolfgang Harvolk, managing director at Harvolk IT: "I have known the Dallmeier devices for many years and based on my positive experience I gladly recommend them. And whenever new products or technologies are launched, Dallmeier offers extensive training so that we are always up to date and capable of providing optimal advice and support to the customers."

The Sparda Bank Regensburg eG particularly appreciates the twenty-four-seven service and the fact that there is always a contact nearby. Martin Heidenreich says: "Back in the day, we often had to wait days for support until the responsible contact would come happen to be in the area. It is a whole different story with the Dallmeier system: Whenever we have a question or a smaller problem, Mr Harvolk is immediately on site, mostly even on the same day. The fast reaction times are a real advantage for us, because sometimes renovations have to be carried out on relatively short notice and so the video security system needs to be modified accordingly. With Harvolk IT and Dallmeier we have found ideal partners who react flexibly to our requirements. That is just great!"

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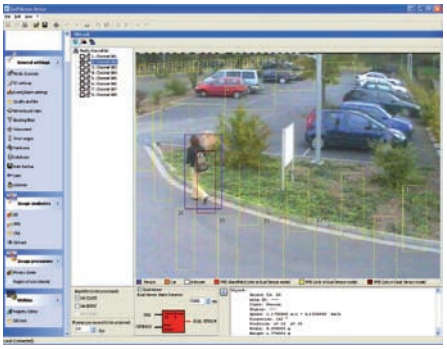
Access Solution

Continental Access released its improved CA3000 v.2.7 software that works at very fast speeds for seamless multi-tasking duty even during the peak traffic hours of the most bustling building or facility. This is the company's fastest, most robust software to date, enabling ultra-quick door open times under ½ a second, even processing complex and long-string credentials, such as those in FIPS201 PIV badges. With the new software version, downloads take 50–75 % less time with faster direct connection speeds that surpass 921 kbps and can process up to 54 MIPS (million instructions per second) with 32 bit accelerator board that connects to the manufacturer's Supeterm or Turbo Superterm controllers. Combining the software with its own field-proven expandable hardware results in very fast access control systems – with a warranty of three years.

www.cicaccess.com

Video Content Analysis for IP Cameras



Geutebruck's VCA4IP software package is a set of its tried-and-tested professional video content analysis algorithms for use in third party IP cameras with Reporter or Geviscope CCTV systems. Separate licenses are available for activity detection (AD), video motion detection (VMD) and Dual-Sensor functions. The AD provides reliable movement detection with a very low false alarm rate for indoor and selected outdoor applications. Its VMD supports critical outdoor applications by differentiating between objects of different sizes, and between movements in different directions and at different speeds, while ignoring permitted movements and suppressing environmental influences. For high accuracy and fewer unwanted alarms, the manufacturer's Dual-Sensor uses video motion detection and object classification algorithms in parallel to generate alarms only when both sets of criteria are met.

www.geutebruck.com

High-Density Video Server Solution

Optelecom-NKF announced the release of its Siqura S-68 E video server. This is an easy to install encoder that requires very little maintenance while still providing outstanding performance and reliability. With the capacity to compress and stream video in H.264 from 88 analog cameras per one 19 inch/3U power supply cabinet, the video server is a highly efficient and high-density solutions. As such it is suited for large, professional installations where space and cost per video channel are a concern. Moreover, since each module only consumes a mere 0.9 watt per channel, the S-68 is also an environmentally-friendly and cost-effective solution. Through an intuitive access-controlled web interface, it is possible to configure an array of features included in the video server, such as the use of video motion detection (VMD) or serial data streams to control a PTZ camera or implement access control.

www.optelecom-nkf.com

Fixed 1.3 Megapixel Color Cameras

Infinova announced its V6201 Series of 1.3 megapixel fixed color cameras. With its real-time image collecting system, the new series offers excellent image quality at high frame rates. A high S/N (signal to noise) ratio makes it easy to discern image details. The V6201 Series provides integrators with high resolution fixed color cameras for challenging applications, including shopping mall interiors, transportation hub concourses, warehouses, hotel lobbies and other demanding inside environments. "The V6201 Series cameras are members of the company's second generation family of IP and megapixel cameras that are helping integrators move their customers to IP in a cost-managed manner," attests Mark S. Wilson, Infinova vice president, marketing. "They can be an integral part of a system that extends the life of installed analog systems while adding the advanced resolution and coverage of megapixel camera technology."

www.infinova.com

In Focus: Arecont Vision AV1305DN

Arecont Vision, with headquarters in Glendale, California, develops and produces a wide variety of modern, real-time multi-megapixel video surveillance systems. The AV1305 1.3 megapixel network camera is a high-sensitivity day/night camera with multi-streaming capability, equipped with Arecont Progressive Scan technology. It has a special zoom lens with which, at the same time as the full image, any image section can be zoomed, displayed and archived as a separate data stream from the camera.

Test the Best!

GIT SECURITY Camera Test in Cooperation with SeeTec

Performance

Performance assessment when used with 1,000 Lux

In comparison with the reference image, with the resolution set to maximum, the Arecont Vision AV1305DN shows a slightly cloudy image, but with very good sharpness. In addition, the AV1305DN has an acceptable contrast ratio.

Performance assessment when used with less than 1,000 Lux

At a Lux value below 100, minimal unsharpness was detected for moving objects in the lower half of the sequence. This did not deteriorate significantly down to 2.5 Lux and resulted in loss of recognition of moving objects below 0.5 Lux. Slight image noise only occurred at 0.5 Lux.

Performance assessment in backlight situations

The compensation time with backlight is approx. 3 seconds and shows good dynamic characteristics. The size of the cone of illumination extends to just beyond the edge of the backlight, and in a backlight situation, slight to severe traces of blooming can be detected.

Performance assessment in use: Bandwidth measurement

On closer examination of the characteristic curve, the compensation behaviour of the H.264 codec becomes clearly apparent. Depending on the lighting conditions and the movement in the image, a slight to large increase or decrease was detected. This leads to the conclusion that a constant compression process is used, which always attempts to produce good quality with limited transmission capacity. With comparable quality, an MPEG stream provides a measured average data rate of approx. 20 Mbps, which corresponds to a reduction in bandwidth of approx. 78 % in comparison to the measured 4.47 Mbps of the H.264 stream.

*Average value.

Technical data for the camera test

Manufacturer	Arecont Vision
Model	AV1305DN
Firmware version	65130
*Distance from test chart	0.60 m
Objective used	1/2" Varifocus 4–12 mm; F1.4 (Tamron M11)
*Set focal length	approx. 6 mm
*Compression method	H.264
*Resolution	1,280 x 1,024
Compression	50 %
I-Frame spacing	1 second
*Set stream bandwidth	Unlimited
Measured frame rate	30 fps
Average measured bandwidth	4.47 Mbit/s

Comments:
– At 1,000 Lux a 50 Hz hum can be detected, which is evident from a transverse bar in the image.
– The illumination was set to „Mix" in order to emphasise the colours

* The camera was integrated into the test system with the "default" settings and correspondingly modified with the test criteria listed above

Assessment for various lighting conditions

Criteria | Lux values	1000 Lux	100 Lux	10 Lux	0,5 Lux	0 Lux + *BL1
Colours	3.5	3.5	3.5	s/w	s/w
Contrast	2.5	2.5	2.5	s/w	s/w
Sharpness	2.5	2	2	3	3
Motion sharpness	2	3	2.5	4	3
Image noise	2.5	2.5	2.5	3	3
Compensation time for backlight	–	–	–	–	3
Backlight characteristics	–	–	–	–	4

Assessment according to the following grades: 1 (excellent), 2 (good), 3 (average), 4 (satisfactory), 5 (limited), 6 (poor)

Conclusion

The Arecont Vision AV1305DN is a camera with multi-streaming capability, which supports the parallel output of up to eight image streams (H.264 and MJPEG) with a maximum resolution of 1.3 megapixel. The Arecont H.264 series offers an average of up to ten-fold better utilisation of bandwidth and reduction for archiving than MJPEG. The camera is suitable for indoor and outdoor use. For outdoor use it should be noted that in backlight situations, noticeable dazzle and blooming effects can occur.

Thermal Imaging for Security and Surveillance Applications

The Flir Systems SR-304 is an addition to the SR-Series thermal imaging cameras. It is an expansion of the existing product line into narrower field of view cameras with longer range performance. The camera has a narrow 4° field of view. It is using the most advanced thermal imaging technology available on the market. It incorporates an uncooled Vanadium Oxide microbolometer detector producing crisp 320 × 240 pixels thermal images. The fixed thermal imaging camera provides crisp, clear thermal imagery in total darkness, light fog or smoke. It is packaged for users who have mid-range security and surveillance as their primary application. The camera includes the company's advanced image processing techniques which deliver excellent contrast regardless of scene dynamics. Unlike other night vision systems that require low amounts of light to generate an image, the SR-304 needs no light at all.

www.flir.com

Java Card Supported

Nedap Security Management is one of the first players on the security market to adapt its access control system AEOS for the use of Java Card technology. Although this is a fairly unknown technology in the world of access control, it offers a very good security. Nedap Security Management has taken the lead in applying this technology, by adapting its access control system Aeos for the use of access badges based on Java Card. The Java Card has a processor on the card, instead of a memory with reading and writing functionality. One of the reasons the company has chosen this solution, is the cryptographic methods that are supported and the fact that it allows for several applications to be used simultaneously. The manufacturer believes that in certain specific situations Java Card can be a good addition to the existing technologies and can expand functionality of the applications.

www.nedap-securitymanagement.com

IP Cameras with Fixed Dome Housing

Basler expands their IP camera portfolio with high-quality fixed dome camera models. The first dome cameras will be available in February 2010. The following camera models will be equipped with dome housings: BIP-D1000c-dn with a resolution of 1,024 × 768 pixels, and BIP-D1300c-dn with a resolution of 1,280 × 960 pixels. The manufacturer's IP fixed dome cameras have vandal-resistant aluminum housings, allowing video surveillance applications outdoors and under tough indoor conditions. With their built-in heater and fan, the IP cameras work at extreme operating temperatures from –20 °C to +50 °C (–4 °F to +122 °F). To store surveillance data even when the network connection has broken down, the cameras are equipped with a built-in SD card slot for local file storage. All cameras offer the same functionalities as their "boxed" counterparts. This includes true day/night functionality for night and low light applications while providing outstanding image quality from the best Sony CCD sensors.

www.basler-ipcam.com

Digital Recorder for Small and Medium-sized Businesses

Abus Security-Center introduces its Eytron digital recorders. These digital video surveillance recorders (DVR) – designed for small and medium-sized businesses – use the latest H.264 compression. A special feature is the new LED status indicator. This immediately lets the user know if the machine is recording, is in surveillance mode or if there is a fault. The DVRs not only record video signals in real time but also different audio sources, such as from the concealed camera in the PIR housing TV7029, using four audio inputs. When reproduced, the audio signal is automatically synchronized with the video source.

www.abus-sc.com

New Designer Hotel Lock

AElement is a new RFID hotel lock from Salto Systems that provides an enhanced guest experience using on-line wireless technology and features stunning, cutting edge design. AElement allows you to integrate all your physical security needs into one stylish, energy efficient, reliable wire-free system. It enables hoteliers to control the security of their entire building, grant access privileges to individual rooms and gather audit trail data from every door – all without leaving the front desk. And thanks to Saltos's new Widna technology, you no longer have to choose between the on-line and off-line world. All AElement locks are designed to be wireless ready right out of the box, users simply choose whether the functionality is activated or not.

www.saltosystems.com

New High Speed and High Resolution IP Domes

Geutebruck have added two new IP domes, the GNSD861 and GNSD881, to their VIPCAM range. These compact, high speed, high resolution day/night cameras come in weatherproofed housings suitable for indoor or outdoor use. They have 23x and 36x optical zooms respectively as well as a 12x digital zoom, a wide dynamic range, position-related text insertion, eight or 24 privacy zones and tough polycarbonate domes. They move to fixed positions at up to 400 °/s with 0.225 ° accuracy and support 25 fps video in QCIF, CIF, 2CIF and 4CIF with normal remote control. Both cameras are suitable for direct integration into GeViScope and reporter based CCTV systems. Besides supporting network-friendly functions such as dynamic live streaming, intelligent compression dynamics and dual channel streaming, they also have the potential for easy upgrading with new functions in future.

www.geutebrueck.com

Mobile Video Surveillance

Multipix Imaging launched its Euresys 4 video input capture and H.264 compression board targeting mobile video-surveillance applications. The Picolo U4 board also features high-quality audio capabilities. Each video input simultaneously delivers a compressed and an uncompressed video stream leading to a total of eight video streams delivered. The compressed video stream may be recorded or transmitted while the uncompressed one is typically used for local display or video analytics. Both streams are configurable independently. Thanks to a high resistance to extreme temperatures, shocks, vibrations and humidity, the Picolo U4 H.264 PCI-104 is particularly well suited for embedded security systems for rail and road transportation, police vehicles equipment or any mobile or outdoor video-surveillance application. The characteristics of the board also target the video-surveillance systems installed in extreme industrial environments.

www.multipix.com

In Focus: Axis P1344

With the P1344 network camera, Axis has a fixed installation day and night camera in its range, which should offer excellent H.264 performance and features a robust design. It provides HDTV video quality with progressive scanning into several individual H.264 video streams and Motion JPEG video streams. Installation is simplified with the use of the focus assistant, remote control of the image size and the pixel counter.

Test the Best!

GIT SECURITY Camera Test in Cooperation with SeeTec

Performance

Performance assessment when used with 1,000 Lux

In comparison with the reference image, at the maximum resolution tested, the Axis P1344 showed a brilliant colour range and very good sharpness. In addition, the device showed a very good contrast ratio.

Performance assessment when used with less than 1,000 Lux

At a Lux value of 100, unsharpness was detected for moving objects in the lower half of the sequence. This did not deteriorate significantly down to 10 Lux and resulted in a slight loss of recognition of moving objects at approx. 5 Lux. At 0.5 Lux there is slight image noise, although this is only noticeable after switchover from day to night mode.

Performance assessment in backlight situations

The compensation time with backlight is approx. 2 seconds and shows good dynamic characteristics. The size of the cone of illumination extends from the edge of the backlight to over the entire object and shows slight traces of blooming.

Performance assessment in use: Bandwidth measurement

On closer examination of the characteristic curve, the H.264 codec becomes clearly apparent. Depending on the lighting conditions and the movement in the image, a slight to large increase or decrease was detected. From this it can be deduced that a variable bit rate is used, which provides a higher quality with overall less memory capacity. With comparable quality, an MPEG stream provides a measured average data rate of approx. *21 Mbps, which corresponds to a reduction in bandwidth for the transmitted data of approx. 90 % in comparison to the measured 2.08 Mbps of the H.264 stream.

*Average value.

Technical data for the camera test

Manufacturer	Axis
Model	P1344
Firmware version	5.06
*Distance from test chart	1.20 m
Objective used	3–8 mm; F1.2
*Set focal length	approx. 6 mm
*Compression method	H.264
*Resolution	1,280 x 800 (16:10)
Compression	30 %
I-Frame spacing	1 second
*Set stream bandwidth	Unlimited
Measured frame rate	29 fps
Average measured bandwidth	2.08 Mbit/s

Day/night switchover was carried out manually at 2 Lux
The camera was integrated into the test system with the „default" settings. The settings were modified according to the test criteria listed above

* The camera was integrated into the test system with the "default" settings and correspondingly modified with the test criteria listed above

Assessment for various lighting conditions

Criteria | Lux values	1000 Lux	100 Lux	10 Lux	0,5 Lux	0 Lux + *BL1
Colours	2	3	3	s/w	s/w
Contrast	2	2.5	3	s/w	s/w
Sharpness	2.5	2.5	3	4	3
Motion sharpness	2	2.5	3	3.5	3
Image noise	2	2.5	2.5	2.5	3.5
Compensation time for backlight	–	–	–	–	3
Backlight characteristics	–	–	–	–	4.5

Assessment according to the following grades: 1 (excellent), 2 (good), 3 (average), 4 (satisfactory), 5 (limited), 6 (poor)

Conclusion

The Axis P1344 is a network camera for fixed installation, which offers excellent H.264 performance and features a robust design. It provides HDTV video quality with progressive scanning into several individual H.264 and Motion JPEG video streams. Installation is simplified with the use of the focus assistant, remote control of the image size and the pixel counter. With the aid of the remotely controlled zoom function the optimum angle of view and the required resolution for the environment can be set during installation. The Axis P1344 provides high performance video surveillance both indoors and outdoors. It is a good solution for the surveillance of retail shops, airports, stations, schools and universities, as well as government and industrial buildings.

Intrinsic safety

Hazardous areas where an explosive mixture of air and gas or vapour may be present requires electrical equipment that cannot cause an ignition – not only in normal operation but also in fault conditions. The most common method of achieving this is intrinsic safety.

orbis™ IS (Intrinsically Safe) is a range of conventional detectors which has been developed from the standard range of Orbis smoke and heat detectors, specifically for safe operation in potentially volatile environments. The range has all the benefits of the standard range and remains electrically compatible with Apollo Series 60 IS conventional detectors, but now has Marine Approval and BS EN 60079 accreditation for hazardous areas.

Orbis IS is a demonstration of Apollo's commitment to the market for high quality conventional detectors for use in small to medium size installations. For ease of installation and reliability in daily operation specify Orbis IS.

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apollo
WORLD CLASS FIRE SOLUTIONS

FIRE PROTECTION

Expanding in All Directions

Fire Alarm Technology and Smoke Detectors Contribute to High Revenues

The last month of the year just ended had the highest revenue since the foundation of the detectomat company in Ahrensburg, Germany. To cope with the increasing demand, the company just moved into a new 6,000 m² production and warehousing complex. Matthias Erler of GIT SECURITY spoke with Goetz Gieselmann who, along with Bodo Mueller, is a Director of detectomat GmbH and JOB GmbH, about the background to the success of their company.

Mr. Gieselmann, you rounded off 2009 with a surprising 10 % growth. Could you explain the figures to us a little more closely?

G. Gieselmann: Naturally we also felt the effects of the world economic crisis in the first quarter of last year and we had a very bad start. But we were already at the previous year's level by mid-year and in December 2009 had the highest monthly revenue since detectomat GmbH was formed. Unfortunately this does not apply to all regions and countries – business in Eastern Europe is continuing to suffer under the crisis. We assume that this situation will start to improve in the second half of 2010.

Goetz Gieselmann

How much does this rely on the development of international markets and new business segments?

G. Gieselmann: We generate half of our worldwide revenue in Germany. We were able to break into some new markets last year and have brought our business forward, particularly in northern Europe. At the beginning of 2009 we established an office in Portugal which has strengthened our presence in southern Europe and enables us to provide the usual services here, too. Overall we are proud of our global partner network and are meanwhile active in 60 countries. We have further increased business with smoke detectors for private users as an additional foothold beside our fire alarm technology. In addition, we have extended our product range with a door holder system and an evacuation system, which has brought us further growth and additional market share.

Which factors do you think contribute most to your success?

G. Gieselmann: 95 % of our employees work at our main plant in Ahrensburg, almost 35 % of our employees are involved in development and are specially trained in fire alarm technology. As a medium-sized company we have the ability to react to all market conditions quickly and flexibly – particularly during periods of crisis this is an enormous competitive advantage. Our products are also VdS certified, which ensures good acceptance in the European markets, which is why we are currently seeing the highest revenue growth in southern and northern Europe, in particular the Benelux states.

In which regions is growth currently at its highest?

G. Gieselmann: As a German company we have of course been active in the German market for many years and also see the strongest revenue here. But in order to continue to grow here we restructured our sales force in 2009: our long-serving employees Joerg Hummitzsch and Rainer Kunzelmann now support their teams in their new roles as Head of Sales North and Head of Sales South. We were also able to bring two additional employees into the team, Udo Stein and Christian Zeller, both of whom have been involved in fire alarm technology for many years.

In the light of the current crisis there, how do you view the situation in Dubai for your company?

G. Gieselmann: We prepared ourselves for market entry in the Middle East for two years, learned about the structures and specialties of these markets, established first contacts, took part in the most important trade fair in the area, the „Intersec Dubai", and very carefully selected our local sales partners. The next steps were the technical training of our new partners and establishing a local warehouse. detectomat develops and sells high quality fire alarm system technology, and the after-sales department is a significant element of our quality package. Last year we completed our first projects. A lot is said about the current crisis in Dubai, and all are worried that this desert star will sink behind the horizon as quickly as it rose. But our example definitely shows that it is also possible to enter a new market and gain market share during an economic crisis.

Which product segments are at the fore?

G. Gieselmann: We generally benefit from the fact that products ‚made in Germany' continue to be traded in the Middle East as of high quality. In that respect we have a significant advantage over other market players. There is a demand on the one hand for small solutions that we serve with our threshold system, and on the other hand large system solutions and networked control centers. These find application particularly in large hotels and office complexes. We were asked about complete radio-based systems this year at the trade fair in Dubai, as well as solutions to incorporate radio elements into an existing loop system. We expect further growth with these product lines during the next few months.

You have just introduced a voice evacuation system. What technical innovations are involved?

G. Gieselmann: The alarming and evacuation of people together with a fire alarm system are the priorities when installing a voice alarm system, or an Electric Voice Evacuation System (EVAC). As well as presenting alarms at the central control point and activating sirens and strobe lights, the installation of an Evac system with announcements can be used to initiate the

Jens Rittmeyer (Sales Manager detectomat) explains the fire detections system during the exhibition "intersec Dubai 2010"

orderly evacuation of people in danger. We are able to incorporate the PA system into the fire protection scheme and thereby induce specific reactions, avoiding panic or even injury.

You have extended your product portfolio, amongst other items, with door holders. Can you tell us more about this?

G. Gieselmann: The extension of our product portfolio with a door holder system was a logical step in the pursuance of our company strategy: detectomat sees itself as a systems provider of fire alarm technology. Through this addition, we are able to increase our service in this segment and enable the easy inclusion of door holder systems in the whole system. The sales team is specially trained to instruct and certify our customers in planning, installation, checking and commissioning of door closing systems and fire protection barriers.

How is business developing with smoke alarms for private households?

G. Gieselmann: We are naturally benefitting from the new legal situation in Germany – the equipping of private households with smoke alarms is now compulsory in nine states. There are signs that Lower Saxony will soon be the tenth state to change its regional building laws and stipulate that smoke alarms must be operated. We have such an enormous demand for our smoke alarms that we put a third production line into operation in Ahrensburg during the last quarter of 2009. The large majority of these products are sold by inspection service providers who not only do the selling but also the installation and maintenance for housing industry customers.

Mr. Gieselmann, many thanks for the interview.

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Remote I/O System for Hazardous Areas

The remote I/O system Antares made by Bartec is a compact and decentralized multiple input and output unit for digital and analog data transmission as well as for the consistent connection of field devices via digital communication to the central system in an industrial plant. The combination of Ex d, Ex e and Ex i and a specially developed plug-in technology has been implemented in a very small space. Due to the special development concept, the system does not require an expensive explosion-proof casing for device category 2G (Ex e). For the user, this implies cost savings and a reduced engineering expenditure. All modules are hot-swap-capable, i.e. that the modules can be changed during the running operation of the current-carrying system. In addition, standard bus systems can be coupled directly to the system, no additional explosion-protected components (buffer amplifiers) are required.
www.bartec.de

Denios Presents Spring Catalog

Denios UK has released its new 2010 product catalog. It offers a variety of practical solutions for handling hazardous materials and a wide range of industrial safety products. Within the 450 pages, it answers many questions relating to environmental protection and hazardous material storage. Despite the economically turbulent year, the manufacturer has still added many new products to their range. A 16 page technical engineering guide, inserted at page 130, on "Individual solutions to meet your demands" gives practical guidance on the company's individual solutions available. Also within this catalog is an extract from the new hazardous materials handbook, giving guidance and information on handling and storing hazardous products in accordance with the UK guidelines and regulations.
www.denios.co.uk

Compact Position Switch

Schmersal's Z/T 196 position switch range with safety function is extremely compact. Although fixing and mounting dimensions are identical, the compact switch requires less mounting space than other standardized switches. With a height of only 20 mm and three possible cable or connector positions, the switch will often enable a reduction of the required size of the safety components themselves. The switch series is available with optional slow or snap action contact variants. A high quality contact system with built in redundancy makes the switch particularly suitable for low voltage switching. From a wide variety of actuators, the user can select between plungers, roller plungers, angled roller levers and rod levers.
www.schmersal.com

FIRE DETECTION

No Bright Sparks Here

Apollo Intrinsically Safe Fire Detection Protects Defense Manufacturer

Wallop Defence Systems designs, develops and manufactures defense pyrotechnics for air, sea and land applications. Intrinsically safe (IS) fire detection technology was specified for such a potentially explosive environment, and the contract to design, supply, install and commission the IS fire system to protect a new manufacturing facility at their site near Stockbridge, Hampshire was won by Canon Fire Protection based in nearby Midhurst. John Barfoot, the company's Fire Systems Manager, explains the rigorous selection process and how Apollo helped to meet the client's requirements.

Apollo helped in two key areas; firstly, its fire detection products meet all key international standards, including the European ATEX Directive requirements for equipment used in areas with potentially explosive atmospheres. Secondly, Canon were able to use Apollo's extensive in-house testing facilities to demonstrate its fire detection technology to the client.

Says John: "This was a key contract for our company, and is the largest project we have secured to date. Apollo was very supportive of our bid, and we must make special mention of their sales manager, Sam Ward, who was truly exceptional. He worked closely with us throughout this project to ensure its success and has become an integral part of our team. With Apollo's support, we were not only able to meet the specification for ATEX approved intrinsically safe fire detection, but could also demonstrate to the client how the Apollo IS devices would work in practice."

Preventing Ignition

Among the products manufactured at the site in Hampshire are infrared flares to counter air-to-air and ground-to-air missiles, decoy systems for naval protection and missile tracking flares. The assembly of these essential defensive products involves the use of potentially flammable and explosive materials, so fire protection is a key priority to ensure personnel safety and protect valuable assets.

Electrical equipment for use in these areas needs to be designed so that it cannot ignite an explosive mixture. There are a number of methods available to achieve this, but one of the most common is intrinsic safety. Intrinsically safe equipment operates at such low power and with such small amounts of stored energy that it is incapable of causing ignition, not only in normal operation but also in fault conditions. Apollo offers intrinsically safe versions of its XP95 intelligent range and its Orbis conventional range of fire detectors.

Canon Fire Protection supplied and installed a fire system based around Apollo XP95 IS fire detectors and a four-loop Kentec Syncro control panel. The system features a modem link so that fire system performance can be monitored remotely 24/7. The entire system is wired using mineral-insulated (MICC) cabling. This is an additional precaution against any part of the system causing an electrical spark.

Visual and Audible Alarms

Around 100 Apollo IS devices provide comprehensive fire detection in the manufacturing areas. Where flame detection was required, devices were used in conjunction with IS-rated enclosures to meet the requirements for intrinsic safety. Due to high ambient noise levels, visual indicators are used in the administrative areas, while Vimpex IS sounders are fitted in the transfer corridors between manufacturing processes.

In the event of an alarm being raised, the entire premises are evacuated immediately. The site has its own firefighters, who are trained to tackle minor incidents. In addition, a repeater panel in the main gatehouse alerts security staff to any incident, so that they can summon the appropriate external fire services as required.

In conclusion, John Barfoot says: "This was an unusual project which, due to the nature of the business, placed very stringent demands on the fire protection system. We were confident that Apollo was the right choice for this application, but we needed to prove this to the customer. With Apollo's help, we were able to go that extra mile and give the customer reassurance that the proposed fire detection solution would work reliably, which was invaluable." The new manufacturing premises are due to be completed early in 2010.

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ACCESS CONTROL

Keys to the Heart

Airrail Center Obtains Electronic Access Management

With its futuristic architecture, the Airrail Center at Frankfurt Airport is truly inspiring. Its access management system will be as forward-looking as its structure, since Winkhaus Bluechip will provide control and management for its entrances and doors. Its versatility makes this system exceptionally well suited to the complex requirements of the building.

The new building will rise above the platform of the high-speed train network station over a length of 660 m, thus becoming a building with one of the best transport connections in Europe. The building is being constructed for Airrail Center Frankfurt. As the heart of the airport city, the complex will offer a wide variety of uses for its tenants over a space of 140,000 m². It contains a convention centre, hotels, offices, a gastronomical experience and shopping centre, and storage, archival and parking facilities.

Adaptable Solution

The tasks the access management system will need to fulfill are as varied as the different areas in the building. For this reason, the developer attaches great importance on having a fully electronic system which is extremely versatile. User-friendly management software and a wide range of options for modular extensions are also featured on the requirement list as the system will need to be able to meet tenants' requirements, both now and in the future. As Bluechip fulfills these criteria, 3,500 doors will be equipped with this electronic locking system. These doors will provide security for the outer shell of the building and secure the leased spaces and hotels inside the complex. The different cylinder designs that are available will ensure that each door receives a suitable system-integrated solution. In the second phase, about 2,500 additional doors will be fitted with the system as the leased areas are extended.

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AIRPORT SECURITY

The Short-range Overview

New Security Systems for Weeze Airport

The Weeze airport is anything but a travel lightweight in the region: it is reachable within one hour by no less than 10 million potential air travelers. The heart of the western Ruhr, the Rhineland and large parts of the Netherlands between Arnheim and Eindhoven all belong to its catchment area. Now this young airport has updated and improved its security measures, amongst other things with an invisible ‚turnstile' to control passengers in the arrivals area and an automated pass card control. The choice of the security managers in Weeze fell to systems from Nedap.

Originally the Tornados of the Royal Air Force stood in Weeze: the British maintained a military air base there in the 50s. After the British drew down, the region suffered under their absence and not least because they were important consumers in the region. A new usage concept with a future soon promised to blossom: out of the former military airport should grow a ‚euregional' center for air transport, logistics and industry. A Dutch investor group took over development of the Weeze Airport, and very successfully too. Shortly after the handover, a large hangar was converted into a passenger terminal, a new apron was established and the flight operations systems were renovated. The German ATC set up a tower, and almost exactly seven years ago on 1 May 2003 the new airport started scheduled flights.

Turnstile in the Arrivals Area

The distances here in Weeze are short. But exactly these short distances can make it difficult for security staff to keep abreast of the flow of visitors, and their numbers were impressive right from the start. A respectable 207,992 passengers already passed through in the first year and by 2009 this had risen to 2,403,073 travelers, spread over 24,016 different aircraft movements. Early on and after the experience of the first year a need was identified for a reliable ‚turnstile' system, as Claus Buschfeld, Head of Security at Weeze airport explains. „It must ensure that, in the arrivals area, passengers who have already been checked cannot go the wrong way and return to the secure airside area of the airport once they have been able to make contact with people who have not been checked."

„The turnstile is not visible for passengers and functions effectively like an electronic fence", says Kester Brands from Nedap. It works together with cameras that are connected to the control room in the arrivals area of the airport. Automatic direction recognition detects every passenger that walks in the wrong direction. The result is an automatic visual and acoustic alarm so that the security staff can quickly intervene.

Special functions are also available, such as presenting an employee badge for authorized access from groundside without this illegal return protection system being activated. And if an authorized badge is presented twice, the employee can change the door opening and alarm times.

Automated Visual Pass Card Control

The illegal return protection system is integrated into the AEOS security management system from Nedap, which is particularly well suited to the administration of biometric access control methods. Additionally, using the AEOS photo event monitor allows easy visual check management: the crew and anyone else who wants to gain access to the apron and to the aircraft is automatically visually checked because their pass card picture is compared to a stored photograph of them. At the same time, the software checks their current access authority and whether the pass card is indeed still valid. If it will soon expire, the owner is informed at once so that they have a chance to renew it in time.

The decision for the new technology fell after a comprehensive viewing of various products that were being offered on the market, reports Claus Buschfeld. Nedap convinced him with their flexible availability. Very important also, however, was that with regard to the system settings he could freely choose the functionality

he wanted. „With the old system, we could do virtually nothing. Somebody had to come out to us from the manufacturers for every change to the templates in the access control system, for every change in contacts or times. Now I can easily make all the adjustments myself."

This advantage has also been noticeable in the simplified administration of visitor registration: visitors are given day passes with special access rights, either by application in advance or just when they turn up at the entrance. The passes can be simply and intuitively made on the AEOS system by the security staff. Here it can also be seen when and how often a pass has already been made for a particular person so that they can also be refused entry if there are any security issues.

Integrity Checks

Using the Nedap system allows the organization of the integrity checks required by the Aviation Security Act to be well matched to the relevant data protection regulations: the law broadly states that workers at an airport are not allowed to access those parts of the airport that lie beyond the publicly accessible areas unless their integrity has been confirmed. This is however the job of the air security authorities to whom the airport sends its new employees and also the subcontractors from other companies to be checked. At the Weeze airport this currently involves around 3,000 employees, including those of external companies.

For reasons of data protection the administration of this procedure - which is due every five years for every one of these employees - is not done with names but instead with numbers that are assigned to them. In this way, data protection is guaranteed during communication with the authorities; only those responsible on both sides can decode the numbers. AEOS solves this issue so that data can be sent electronically to the authorities - entry of data into the appropriate fields on the form is uncomplicated. This also includes invoicing: every integrity check costs money that can be charged to the external companies.

The head of security is evidently very enthusiastic, above all because of the freedom to implement new ideas: „An excellent system that leaves lots of options open. As users, we are independent from the programmers and therefore work more cost-efficiently". Claus Buschfeld also emphasizes the quality of service: „The customer does not have to adapt to the manufacturer – Nedap adapts to its customers."

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BSIA Defends Use of Full-body Scanners in UK Airports

In light of the full-body scanners recently hitting the headlines again, the British Security Industry Association (BSIA) is highlighting the importance of safety over sensationalism. Just recently claims were made from Bollywood actor Shah Rukh Khan that on a trip through Heathrow Airport his scanned image was printed out and shared among staff. Following this incident, we have heard warnings from the Equality and Human Rights Commission that body scanners may be illegal because they could breach passengers' rights to privacy. Ashley Smith, the BSIA's Civil Aviation Security Section Chairman, comments: "The attempted terrorist attack that took place over Detroit on Christmas Day alone provides a stark reminder of the importance of aviation security. Technology such as full-body scanners plays a vital role in helping airport staff to maintain vigilance and carry out all-important security checks."
www.bsia.co.uk/aviation

Smiths Detection Wins Major Saudi Contracts

Smiths Detection announced contracts for 13 advanced X-ray cargo screening systems to be deployed across Saudi Arabia to inspect inbound and outbound containers and trucks. The contracts comprise seven stationary HCVG (Heimann Cargo Vision Gantry) scanners and six mobile HCVM systems. They use high-energy X-ray scanning at ports, airports and border crossings to inspect trucks, containers and other vehicles for contraband, weapons, explosives and narcotics. Stephen Phipson, President of Smiths Detection, said: "These contracts underline the superiority of our high-energy X-ray solutions. These advanced, highly reliable detection systems produce best-in-class imaging resolution, critical in the rapid identification of potentially life threatening or illegal shipments."

Smiths Detection won these contracts in close cooperation with Saudi Bell Group.
www.smithsdetection.com

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GIT BUSINESSPARTNER The Purchasing Section for direct contact

Security Management

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ABUS Security-Center is one of the leading manufacturers of electronic security technology. As a full-line distributor, ABUS Security-Center consistently markets an international range of products and services for the market segments of intrusion detection and video surveillance.

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Alarm Management

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Facility Security

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Security Management

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Alarm Management

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Facility Security

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Security Management

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Alarm Management

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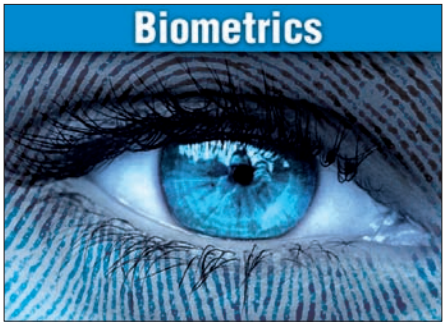

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Small size,

big performance

The only fixed dome camera you will ever need

Designed to be the de-facto choice of fixed dome cameras, the SID-70 combines discreet size with leading edge technology to satisfy the vast majority of applications.

Powered by Samsung Techwin's W-5 DSP chipset, the SID-70 delivers 600TV lines resolution and included in its impressive feature set is third generation Samsung Super Noise Reduction (SSNRIII) technology, which eliminates image noise in low-light conditions without creating ghosting or blurring, and Samsung Super Dynamic Range (SSDR) to balance dark areas across the entire scene. It also has coaxial control compatibility to enable set-up from the comfort of a control room.

The SID-70 also houses a 2.8~10mm varifocal lens and a 3-axis camera module mounting bracket to ensure that the desired field of view is easily achieved and comes complete with Samsung Techwin's comprehensive three-year warranty to provide complete peace of mind.

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CCTV MANUFACTURER OF THE YEAR
SAMSUNG TECHWIN

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