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GIT
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SECURITY

MAGAZINE FOR SAFETY AND SECURITY

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IP Standardisation
Security in the Cloud
Fire Protection
Wide Area Surveillance
Security for Hotels
Access Control
COVER: Milestone Systems

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FOR A GOOD REASON

GRUNDIG

'The Times They Are a-Changin'…

Bob Dylan's song title from 1964 can be easily adopted to the security industry 40 years later. The move from analog systems to IP has been a big change for the industry in the last years and now another new technology is knocking at our doors. Cloud computing is not really new in the IT world but using cloud services for security purposes is certainly something new. The first companies are now starting to offer services that include elements of cloud computing for the security industry. Our interview with Genetec's CEO on page 14 shines a light on some important aspects you have to think about when it comes to using the new technology for security.

Another change that will come up next year is the move of IFSEC show from the NEC in Birmingham to ExCeL in London. UBM Live announced that IFSEC International, FIREX International, Safety & Health Expo and Facilities Show will move from Birmingham to London in June 2014. According to the organisers the decision comes at the end of a 12 month period of research and consultation with stakeholders across all communities. At about the same time Clarion Events announced the launch of a new installer and channel facing event, Security Technology Live, which will be held at the NEC Birmingham in May 2014. According to Charlie Cracknell, IFSEC Security Portfolio Director, building the IFSEC International presence globally is a significant area for UBM, however it wasn't the main reason behind the move. In the interview on page 11 he indicates that by relocating the show to ExCeL, IFSEC will continue to unite all parts of the security buying chain in a truly integrated event.

We will keep you informed about the development on the trade show market but at least for this year nothing changes. We will have the opportunity to meet at this year's IFSEC in Birmingham at the GIT stand.

Enjoy reading this issue!

Heiko Baumgartner
For GIT's Safety and Security team

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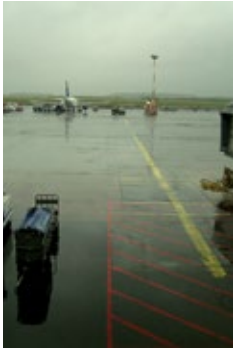
PAIR
Pentax Atmospheric Interference Reduction

55X FULL HD ZOOM PAIR LENS 2 MEGAPIXEL

The best just got better! PAIR Technology (Reduction of Airborne Interference, e. g. Fog, Rain, Sand, Smoke, Snow) has been combined with a Full HD resolution 55X zoom lens for even greater quality and definition to offer best possible security.



Highlights:

- PAIR-Technology
- Focal Length 12 - 1680 mm
- 140X Zoom with build-in 2.5X Extender
- Full HD Resolution 1080p
- 2 Megapixels Resolution
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Nedap and Visy Regulate Traffic Flow in Helsinki

During spring 2012 the Finnish capital Helsinki has put an intelligent vehicle access control system for its city center into operation. Authorizing selective vehicle groups for access has proven to be an effective method for reducing unnecessary traffic volume in city centres. By applying this technology, the city of Helsinki strives to make its city center cyclist- and pedestrian-friendly, increase road safety and reduce hazardous emissions. The Dutch company Nedap developed the technology that enables selective vehicle access control. The installation of the system is carried out by Finnish company Visy. Helsinki considers expanding the vehicle-restricted zone in its city centre in 2013. **ido.wentink@nedap.com**

Dallmeier Camera for THW

BusinessPartner The technical relief agency Technisches Hilfswerk (THW) in Emmendingen, Germany, is supported by a Dallmeier network camera. It supplies important images of deployment sites, thus helping coordinate the activities of emergency response units even better and more effectively. The THW is a non-profit emergency response organization called into action in the event of disasters or accidents. The local chapter of Emmendingen was founded in 1965 and can look back on many years full of action. The special section "Guidance and Communication" is responsible for directing approximately 100 to 1,000 helpers in deployment situations. These operations can be ad hoc or scheduled. For example, one of the regularly recurring fields of activity is the annual Southside Festival in Neuhausen ob Eck, with approximately 50,000 visitors. There the local chapter of Emmendingen assists the humanitarian organization "Johanniter Unfallhilfe" with equipment, technical support and personnel. One of the tasks they deal with here is establishing lines of communication for the approximately 300 paramedical helpers and physicians who are coordinated through a mobile command center set up by the THW. With the aid of video recordings the operations staff can more quickly provide the appropriate response. "We were made aware of Dallmeier by very positive word of mouth. The cameras are considered to be sturdy and reliable," explains Eric Mühle, vice chairman of the THW sponsorship association of Emmendingen. Meanwhile, the manufacturer's network camera, which is a vandal-resistant dome camera, has already been put into operation. "Live images of the festival grounds are especially practical for guiding the response personnel. This is how the helpers can be guided to the correct location more quickly and effectively, for instance in the case of fires," says Eric Mühle.

info@dallmeier.com

Milestone Rolls Out Partner Program

Milestone Systems is rolling out its Channel Partner Program to their global network of distributors, resellers and system integrators. The program is designed to make it more fun, easy and profitable to work with the Company. It emphasizes improved benefits for partners related to achievements in training and certifications, product knowledge and experience, and support capabilities. The program provides opportunities for higher margins, enhanced partner labels and boosted visibility. The Partner Program shows its new face to the world on the company's website with an easy-to-use partner portal called "My Milestone" now with a Business Lounge section offering partner status updates, training and support options, tools for software license management and new administrative roles and rights. The company plans to continually enhance the portal to help partners grow their business. **www.milestonesys.com**

Apollo Fire Protection for Kia Oval

Playing host to thousands of sports fans each year, Surrey County Cricket Club's ground, the Kia Oval, is now protected by an Apollo fire detection system. Over 150 years old the Kia Oval, which traditionally hosts the final test match of the English season and saw W.G. Grace score a century on his debut for England, is a 23,000 capacity ground. Following the redevelopment of the Vauxhall End, TVF (UK) undertook the design and installation of fire detection systems into The Pavilion, Lock and Laker Stands at the Pavilion End, which also houses the exclusive Kennington Club, committee rooms and museum. The installation, engineered to suit the environment, consisted of a hybrid of Apollo's Discovery hard-wired and XPander radio ranges, working in conjunction with an Advanced control panel in each stand. With 20 zones for each stand, over 200 optical detectors were installed along with 30 call points and in excess of 30 loop interfaces/Xpander radio devices. **www.apollo-fire.com**

Hochiki Europe with New Middle East Office

Following closely on the heels of a new office opening in India, Hochiki Europe has now opened a new office in Dubai, in order to promote its fire detection and emergency lighting systems across the Middle East. The company has enjoyed a successful presence in the Middle East for many years and as part of its on-going expansion plans it has taken the step of opening a dedicated local office that will provide sales and technical support across the region. The new office, located in the prestigious Dubai Silicon Oasis, follows the introduction of similar operations in Australia, Mexico and India that enable customers to benefit from an improved user experience. Stuart Davies, the company's marketing manager Europe, said: "As one of the world's most vibrant and dynamic business locations the Middle East has witnessed rapid development, and this has led to growing recognition of the need to keep those that live and work in buildings safe from the dangers of fire." **www.hochikieurope.com**

Alliance: Aimetis and Eneo

Eneo is continuously developing the versatility of its IP products through new partnerships and alliances with leading providers of video management software. Since Symphony Release 6.10.1 (mid-November) the feature sets of all current IP camera series are fully integrated in Aimetis software products. Eneo therefore registers a further gain in terms of multi-vendor compatibility. Michael Rumpf, Managing Director at Aimetis values the partnership as a "real win for both sides. As a provider of integrated intelligent video surveillance systems we are tracking the consistent expansion of the IP product line at Eneo with great interest." Franz-Josef Eberle, Eneo Business Unit Director, emphasizes the benefits for users resulting from the alliance, in particular in the thermal imagery product sector: "With Aimetis, we have gained one of the most important suppliers of video management solutions as a partner." **www.videor.com**

Hikvision and Western Digital Partnership

Hikvision announced a mutually beneficial partnership with Western Digital to customize HDDs. Through this cooperation, Hikvision is able to change or add functionalities of HDDs to better meet the requirements of the security market. These new HDDs are specially designed for Hikvision DVR products to provide an improved appearance and label design, as well as featuring different storage capacities (including 320GB, 500GB, 1TB, 2TB, and 3TB, etc.). Furthermore, different cache memories, including 8MB, 32MB, and 64MB are offered. These HDDs are also available for PVR and IPTV equipment.

www.hikvision.com

Royal Sussex County Hospital Secured by Meridian

Meridian Surveillance Systems are securing the Royal Sussex County Hospital in Brighton with door controllers, proximity readers and management software from Access Control Technology (ACT) as part of an IP-addressable system. The Royal Sussex County Hospital provides general, specialist and tertiary services as part of Brighton and Sussex University Hospitals (BSUH), which is an acute teaching hospital working across two sites in Brighton and Haywards Heath. The Trust treats three quarter of a million patients a year and is a major trauma center for the south east of England. Over 650 doors at the Trust have been secured using ACT's ACT Pro 4000 two-door controllers which can extend to a total of 16 doors when used with ACT door stations. As with any hospital, facilities managers at BSUH required equipment that would balance ease of access in emergency situations with appropriate controls in clinical areas. Urgency of need to admit had to be balanced with proper documentation of entrance and egress. Every controller offers individually tailored access levels, which has allowed Meridian Surveillance Systems to implement a solution with a hierarchy of access rights for staff members according to job profile.

jeremy@meridianmedia.co.uk

IMS Research on Video Equipment Market

By the end of 2013 unit shipments of consumer analogue security cameras in the Americas region will surpass those in the professional market. In a recent market report titled "The World Market for Consumer and DIY Video Surveillance Equipment – 2012 Edition" IMS Research forecasts unit shipments of consumer analogue security cameras will top three million in 2013. Consumer video surveillance equipment is sold through either a physical or online retailer and despite the difficult retail climate the market has continued to display strong growth. Josh Woodhouse, IMS Research market analyst and report author comments: "The Americas region is the largest and most mature regional market for consumer and DIY video surveillance equipment. The increased growth of analogue camera shipments in this market coupled with the decline in analogue unit shipments in the professional market means for the first time we are approaching a tipping point." The consumer market is just a fraction of the professional market in terms of revenues, yet the high volumes of analogue security cameras shipped could extend the overall lifespan of analogue security cameras and their components in the Americas market.

niall.jenkins@ihs.com

Samsung: Senior Vice President Strategic Marketing

Jonas Andersson

Jonas Andersson has been appointed Senior Vice President for product planning and strategic marketing for the security solutions division of Samsung Techwin. He has worked for Axis Communications for the last 18 years in a number of senior roles including Director of Video Product Management and Video Solutions and for the last five years, Business Development Director. He has also been Chairman of the ONVIF (Open Network Video Interface Forum) Steering Committee since November 2008. Jonas Andersson has a Master of Science Degree (Hons) in Electrical Engineering and has successfully studied for an Executive MBA in management, leadership and business administration.

STEsecurity@samsung.com

Stephan Rasp new Seetec CEO

Stephan Rasp

In 2012 Seetec achieved a top-line growth of nearly 40%, exceeding the rate of 17% predicted by IMS Research for the video industry in 2012. The majority of the growth results from the sales of vertical solutions, which extend the use of classic security applications and support customers' business processes. For instance, several projects in the logistics segment could be realized last year. Preparing for growth and to expand international presence, the Company has extended the board of directors consisting of Andreas Beerbaum (Sales) Roland Keiser (Technology & Products) and Kaj Svenningson (Business Development) with Stephan Rasp as CEO. His previous companies include BMC, Concur and Ariba and others as Managing Director DACH or Sales Director for Central Europe. He is looking forward to a new challenge: "As a German company, Seetec has the potential to be a leading player at an international level – backed up by the company's impressive development over the past few years. The shift to digital technology has huge disruptive potential for our markets."

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FFT Extends Secure Point Performance

Future Fibre Technologies (FFT) is pleased to announce today further performance improvements to their Secure Point perimeter intrusion detection system released in mid 2012. Rob Broomfield, CEO of FFT says "I'm excited about the ongoing technical advances made with Secure Point by our product development teams and the potential to extend our solutions into very low power and harsh applications. Not only have they managed to improve the in-field operating temperature range to better handle unforgiving desert conditions, but they have simultaneously reduced the power consumption for a Secure Point controller to less than 3 watts and increased the Mean Time Between Failure (MTBF) to 60,000 hours".

Dr. Jim Katsifolis, CTO of Future Fibre Technologies reinforces these comments, stating "As with all FFT products, we constantly test, review and evaluate their ongoing performance at our test facility. We saw some opportunities where we could improve the Secure Point performance then spent many months testing and verifying these improvements both at our test site and in real installations. And the results are impressive."

These operating temperature range, power and reliability improvements apply to all Secure Point systems shipped this year, and all systems come with FFT's global 2 year warranty.

Future Fibre Technologies (FFT) is the world leader in fiber optic intrusion detection. They provide a complete family of fiber optic perimeter intrusion detection systems, delivering end-to-end PIDS solutions from the smallest sites through to the largest and most demanding sites across the world.

www.fftsecurity.com

EVENT

The Sun Shines for Intersec 2013

More Exhibitors and 10% Increase in Visitors

This year the weather was unusually cold in Dubai during Intersec 2013, but the climate for business was better than ever. The leading event for security, safety and fire protection in the Middle East concluded its 15th and largest yet edition. With almost 1,000 exhibitors from 54 countries, Intersec 2013 was 7% larger than the previous edition and welcomed 21,615 visitors from 118 countries, enjoying a 10% growth in trade visitor numbers.

Intersec 2013 was inaugurated by His Highness Sheikh Mansoor bin Mohammed bin Rashid Al Maktoum, who was accompanied by senior officials from Dubai Civil Defence, Dubai Police, Dubai Police Academy and Mr. Hans-Joachim Otto, the German Parliamentary State Secretary of the Federal Ministry of Economics and Technology. The top five visiting countries after the UAE were Saudi Arabia, Iran, Oman, Qatar and Kuwait.

Ahmed Pauwels, Chief Executive Officer, Epoc Messe Frankfurt, organiser of Intersec, said: "The response to Intersec was very positive. Our numbers were strong and exhibitor feedback was that there was real quality in the trade visitors present. It was clear that everyone worked hard to make the best of the three key business days during Intersec."

Top Security Companies

This year's event featured most of world's top security companies including Honeywell Security, Bosch Security Systems, Safran, Assa Abloy, Hikvision, FLIR Systems, Axis Communications, Samsung and Tyco. Rida Hamza, General Manager, Honeywell Security Group, MENA,

summarised the general atmosphere during the exhibition: "Intersec has been outstanding. The arrangements were great – the environment, the atmosphere, the people, the traffic – it was amazing. It is a great platform to meet partners, new customers, government representatives and influential corporate leaders." Similarly, Jalaal Abu Hassan, Regional Sales Manager Middle East for FLIR Systems, said: "We are extremely satisfied by the visitor flow and high traffic. We have made over 200 potential customer leads and are looking at further expanding our business here through Intersec." Meanwhile, Philip Verner, Regional Sales Director, EMEA, for CEM Systems, a Tyco International Company, commented: "Intersec is a major event in the Middle East calendar. The show has been a good success and we have been solidly busy."

Country Pavilion Focus

Intersec Dubai 2013 featured 13 country pavilions, Mr. Pawan Singh, Sales & Marketing Coordinator for the Indian Pavilion, commented: "Intersec 2013 was a very successful show and all Indian exhibitors have been satisfied with the outcome of their participation." Similarly, Caroline Strickley, Export Services Executive at the BSIA's Export Council, which organised the UK pavilion, saw a record turnout of UK security companies at the event. She commented: "The strong UK presence reflects the growing importance of the region. The level and quality of enquiries at this year's show has been very promising."

Industry Trends

Some of the notable trends at Intersec spanned from the rising increase in demand for HD CCTV and Physical Security Information Management solutions to hybrid security solutions and biometric security. The Commercial Security section was populated with CCTV cameras and access control solutions for all industries. Discussions on the merits of IP versus Analogue devices continued from the Conference led by the Department of Protective Systems, Dubai Police held on the sidelines of the exhibition, onto the show floor. Aviation Security was another hot topic at the exhibition and conference, attracting much attention from local, regional and international aviation authorities.

Having already doubled in size from 2010 to 2012, the Fire & Rescue section at Intersec enjoyed a further 33% growth for the 2013 edition. Belal M. Sayeen, Business Development Manager, SFFECO Global, said: "Intersec was really good – a very well organised event. We had customers, distributors and suppliers visit our stand and do business." Similarly, long time exhibitor Naffco was extremely pleased with Intersec. Mr. Faisal, Brand Project Manager, NAFFCO, stated: "Intersec is an ideal platform to develop new business and interact with our partners."

Tyco Fire was present for the first time with its own stand. Phil McGowen, General Manager, Middle East, said: "For Tyco Middle East, fire represents a significant growth market. We launched a new range of fire protection products."

Visitor Profiles

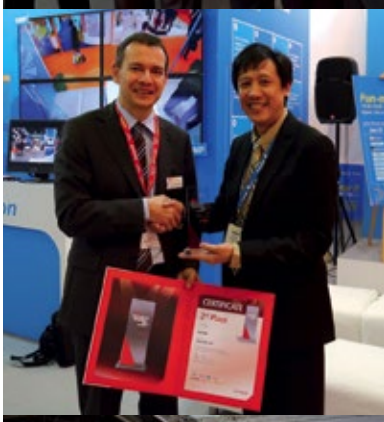
Enjoying growth for the third successive year, Intersec 2013 welcomed 10% more trade visitors than the previous edition, with 118 countries represented. Trade visitors and key decision makers from the wider Middle East consider it a must-visit event as it presents such a wide range of products and services from the world's top security companies. As well as the top five visiting countries, other prominently represented visitor groups were Pakistan, India, Egypt, Lebanon and Iraq.

Exhibitors noted a welcome shift in the type of visitor with many reporting positively on the number of end users and diversity of nationalities present. Marwan Khoury, Marketing Manager, MEA for Axis Communications, said: "We are now seeing more end users from a wide variety of industries who are looking for the latest technologies. We also see a lot of technology providers here looking to integrate their solutions with ours and that has really stood out at this year's edition." Meanwhile Syed Murtaza Husaini, Regional Marketing Manager, ME for Assa Abloy, said: "We met lots of system integrators and end users which is what we were looking for," and Niek Bragt, Managing Director, Nedap, commented: "We've seen a lot of change in the amount of people we have here – a lot of Jordanians, Syrians, Turkish. I like the mix, we see a lot of companies coming to Intersec willing to travel so the show really covers the Middle East region."

Fringe Programs

Taking place on the sidelines of Intersec was a series of conferences which drew wide participation. The Fire Safety Standards and Regulations Forum covered issues relating to the protection of people and assets. The International Water Mist Association Seminar looked at fire fighting with water mist while the Aviation Security Summit tackled serious discussions on passenger processing and the security of cargo and people. Dubai Police discussed the various aspects of migrating from analogue to digital surveillance systems at a conference held in conjunction with Tavcom which welcomed over 500 delegates.

www.intersec.messefrankfurt.com

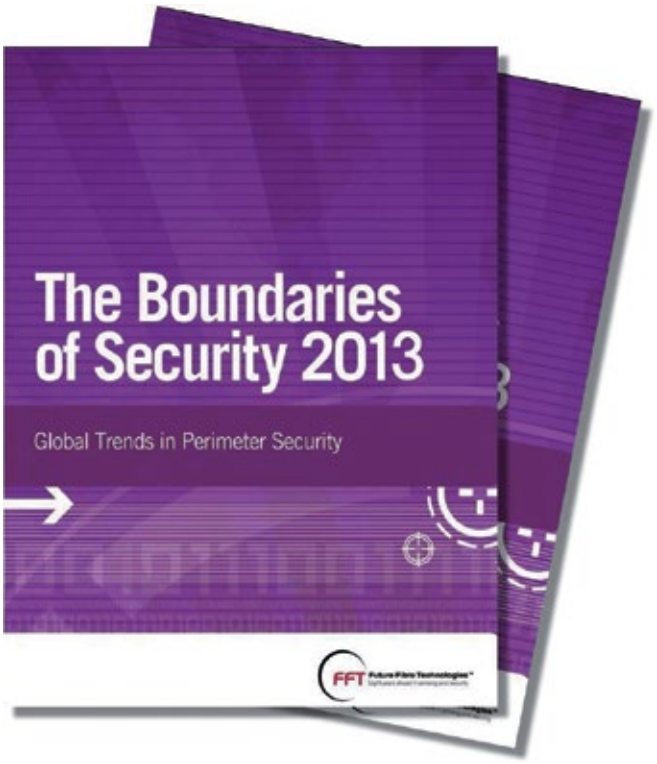


PERIMETER PROTECTION

A Balanced Look at Perimeter Protection

Boundaries of Security Report – a "Must-have" Resource for Security Industry Professionals

Following the enormous popularity of previous editions of the Boundaries of Security report, the 2013 edition of this 'must-have' resource for all forward-thinking security consultants and industry professionals was launched recently. Research commissioned by designers and manufacturers of the world's leading fibre optic intrusion detection technologies, Future Fibre Technologies (FFT) has found that despite the economic challenges global spending on perimeter security is continuing to increase at around 5% per year, in an effort to combat increasing threats to security.



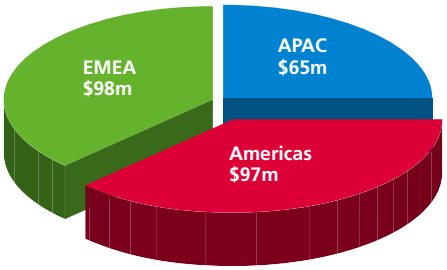
Global factors including the ongoing threat of terrorism, consequently higher insurance premiums, government legislation, technological innovation, and increased infrastructure spending is fuelling the increase in perimeter security systems, which is forecast to reach more than $400 million in 2013.

The document takes a balanced look at the security industry and describes in an unbiased manner a wide range of perimeter intrusion detection system sensor technologies, and explains their fundamental operating principles, typical applications, and the strengths and vulnerabilities of each.

Detailing security industry trends along with best practice recommendations and discussions for infrastructure and high value asset protection, it also includes white papers from key FFT staff including Chief Technology Officer, Dr Jim Katsifolis; Senior DSP Engineer, Dr. Seedahmed Mahmoud; and International Client Manager, Alec Owen. This is essential reading for those wanting to know more about alarm recognition and discrimination for intrusion detection systems and selecting the appropriate technology.

Artificial Intelligence

According to Alec Owen, International Client Manager at FFT, signal processing technologies previously confined to the military and aerospace industries just a few years ago are now common in the latest generation intrusion detection systems. "Techniques such as artificial intelligence (AI), neural networks, and advanced multi-parameter signal processing, are becoming the norm to dramatically improve the recognition of real intrusion events against background noise, allowing the system to automatically eliminate unwanted nuisance alarms," Mr Owen says.



Industry forecast for fence mounted PIDS systems by region for 2013

"We produced the Boundaries of Security to give our customers and industry partners an edge in understanding the technology," he said. "The pace of these technological advances can make it challenging to stay abreast of the latest developments and we believe this report can help with that."

This latest edition has been updated to include emerging global industry trends, best practice recommendations for designing effective perimeter security systems for infrastructure and high value asset protection, as well as examining the important role signal processing plays in intrusion detection. It also features clear explanations of the latest intrusion detection technologies including OTDR Fiber Optics, Fiber Bragg Grating sensors, and Ground Based Radar systems.

Boundaries of Security is available free for a limited period to GIT SECURITY readers and can be downloaded at www.fftsecurity.com/BoS_2013

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EVENT

On the Move

IFSEC 2014 Will Take Place at ExCeL in London

Early in February UBM Live announced that IFSEC International, FIREX International, Safety & Health Expo and Facilities Show will move from Birmingham's NEC to ExCeL London in June 2014. According to the organisers the decision comes at the end of a 12 month period of research and consultation with stakeholders across all communities. At about the same time Clarion Events announced the launch of a new installer and channel facing event, Security Technology Live, which will be held at the NEC Birmingham in May 2014. We had the opportunity to ask Charlie Cracknell, IFSEC Security Portfolio Director, UBM Live about the move of IFSEC to London in 2014.

Charlie Cracknell, IFSEC Security Portfolio Director, UBM Live

GIT SECURITY: Was getting more international the main reason for the move?

Charlie Cracknell: Building the IFSEC International presence globally is a significant area for us, however it wasn't the main reason behind the move. We conducted extensive research into all areas of the event to ensure that the move catered for everyone. By relocating to ExCeL, we feel that IFSEC International will continue to unite all parts of the security buying chain in a truly integrated event. With 30 per cent of IFSEC's 25,000 visitors coming from overseas currently, being based in the most connected city in Europe positions IFSEC perfectly for further international growth, as well as maintaining our commitment to the UK market.

What do you think about the Clarion event in Birmingham?

Charlie Cracknell: I think it's important that we provide the market with an event that caters for a broad range of needs. We don't want the market to become fragmented, which could lead to disruption in how the buying chain interacts. Birmingham has been a good home to the industry for the past 16 years and we have listened to the needs across the whole sector by relocating back to its origin in London. Bringing the whole industry together is essential to helping all areas recognize the importance of integrating with one another.

Is there a clear distinction between the two fairs or is it just a competition between two companies?

Charlie Cracknell: IFSEC International has been an established event for 40 years and is well respected in the industry, not only as an event but also for the high level of education it provides. We give visitors the opportunity to be educated by well respected industry voices, helping them gain knowledge that they wouldn't have learned elsewhere. We have received overwhelming support across the whole buying chain who have stressed that they are committed to attending IFSEC based on their understanding of the event and the value they know it brings. Events entering the market need to clearly distinguish themselves to avoid the market becoming confused.

▶ www.ifsec.co.uk

INTERVIEW

The Future of IP Standardisation

An Interview with the New ONVIF Chairman Per Björkdahl

Per Björkdahl, Chairman of the Steering Committee of ONVIF

Few would argue that as the industry continues its progression toward wide-spread deployment of IP security technology, some type of standards are necessary to guide the industry in a unified direction. Over the past few years, ONVIF has been one of the organisations at the forefront of the standards movement. Since its inception in 2008, the organisation has made considerable gains with more than 2,500 products now certified as conformant with the ONVIF interoperability specification and a global membership base of more than 430 companies. We have talked to Per Björkdahl, Chairman of the Steering Committee of ONVIF, about the state of standardisation in the physical security market today and how ONVIF's interoperability specification is evolving and what changes and impacts the group is having on the market.

GIT SECURITY: Standards have become a central part of the discussion around IP technology in the industry over the past few years. What role has ONVIF played in that debate?

Per Björkdahl: When we first started this initiative on behalf of a handful of companies, the industry was on the verge of beginning the transition to IP and that, of course, has had a huge impact on the efforts of ONVIF over the past few years. Now the industry is moving more rapidly toward standardisation as it looks to take advantage of the opportunity to integrate with the multitude of products coming on the market. This adoption of standards, and the growth of ONVIF, has happened very quickly. From just a few companies, ONVIF now has more than 400 members. More importantly, we are reaching a critical mass of representation from small firms as well.

How does ONVIF compare with others addressing standardisation activities?

Per Björkdahl: We think the industry participation that ONVIF has achieved speaks for itself. More than 400 companies have joined the forum to contribute to the work going forward and to implement the interface to their products. Comparisons with other groups such as PSIA are difficult because our approach is quite different. ONVIF excels with its web services and strong legal framework as well as its decision to establish an underlying specification and then tackle each discipline, such as video or access control or intrusion, individually.

How deep can ONVIF go productwise to achieve standardisation?

Per Björkdahl: By their very nature, standards specify minimum operation requirements so the conforming devices can guarantee interoperability at the most fundamental level. As more functions are considered "basic," ONVIF will evolve to include interface specifications for these functions as part of the specification. And as manufacturers innovate and add special features, we'll continue to explore those areas to add the specification.

While manufacturers are embracing standards, what is being done to educate end users and achieve buy in from this group?

Per Björkdahl: One of ONVIF's focuses is to ensure that systems integrators and end users get to know the benefits of ONVIF and that we are able to demonstrate that they have a wide variety of products from which to choose. This freedom of choice to select the best and most appropriate camera, encoder, DVR or NVR, and ensure that future additions to their video system will continue to be compatible with existing equipment, is one of the benefits of standardisation. ONVIF also has launched some training initiatives specifically for end users, integrators and consultants, ranging from online webinars to third-party training sessions at various industry trade shows.

How does the addition of Profile S for video streaming simplify and improve the conformance process?

Per Björkdahl: The primary benefit of Profile S is knowing that when two products bear the Pro-

file S mark, they will work together. Rather than trying to figure out whether one version of the ONVIF specification is compatible with another, or which features of the product might interfere with interoperability, seeing the Profile S mark ensures a successful interface. And this will be true going forward with our subsequent profile releases, such as Profile G for recording and storage products and Profile C for physical access control and video integration.

What are the next planned activities for ONVIF?

Per Björkdahl: After the expected release of the fundamental access control specification and test tools this year, ONVIF will decide on its next area of concentration. This could include new advances in physical access control or intruder alarms – both of which seem to be the next natural step - but it's up to our members to decide the course. From the beginning, ONVIF's focus was video because we knew we could get the proper feedback from the marketplace and because the need for standards and interoperability on the network video side was so acute. But ONVIF has also recognised from the start the need for specifications in other industry segments, so we prepared for that by creating the underlying architecture of ONVIF.

How does ONVIF determine its direction?

Per Björkdahl: Member feedback is critical to help us determine our next steps. ONVIF hosts several events each year to solicit this important feedback, whether it is at developer's plug fests held to test interoperability among products or at public interoperability displays at the major trade shows. Over the past year, ONVIF has also hosted or participated in several open forums at industry events through panel discussions and open dialogues about ONVIF and standards, allowing us to hear firsthand the feedback from users, specifiers and member companies. We also reach out through questionnaires and webinars and count on project engineers from our member companies to provide feedback from their own customers on how the specification is working with selected products or in different scenarios. ONVIF always welcomes input and feedback from the different industry stakeholders to help shape our direction.

What should we expect to see within the standardisation realm in the near future?

Per Björkdahl: Although standardisation is typically a more gradual, evolutionary process, ONVIF has grown in size and strength quite rapidly over its first four years. Not surprisingly, this has resulted in some growing pains between the market's expectations for the specification and the technical limitations for standards based on the current maturity level of IP technology. Both ONVIF and IP have experienced rapid deployment. With that in mind, the next few years will be focused not only on moving forward into new technical areas, but we will also concentrate on refining the overall process of standardisation. A strong focus on the conformance process will ensure the quality of the specification and its continuing acceptance in the market.

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10x f12mm - f120mm 2/3"

Super Long Focal Length
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Mega Pixel Series
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6x f10mm - f60mm 1/1.8"
• For Mega Pixel and IR Corrected
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INTERVIEW

Security in the Cloud with Diamonds

Genetec's CEO Pierre Racz Discusses the Future of Cloud-based Security Services

In November Genetec announced that the company enters into a strategic alliance with Microsoft to develop cloud-based security solutions together. The plan is to offer hosted security solutions that include video surveillance, access control and license plate recognition (LPR) as a service built on Microsoft's Windows Azure cloud-computing platform. While Genetec is developing video and security applications for years with the goal to make them more accessible and meaningful for companies, Windows Azure is known as an open and flexible cloud platform that enables to quickly build, install and manage applications across a global network. Based on Microsoft-managed datacenters Azure is using existing IT environment.

Genetec's CEO Pierre Racz

GIT SECURITY: Genetec is well-known in the market for high security installations on a corporate level. Is the new service part of a strategy to expand your business beyond large scale projects or is it a more technology-driven step into the future?

Pierre Racz: Genetec's cloud offering is meant to complement our existing product offerings and designed with two uses in mind: The first oni is providing a flexible, hassle-free solution to our existing large-scale customers to expand their systems into areas where they do not want to install more IT infrastructure. Our goal is to deliver compelling, cost effective features and capabilities that will enable our enterprise customers to quickly extend installations to remote/satellite locations, and to take advantage of highly-elastic, secure off-site storage and compute platforms hosted on Windows Azure datacenters. The second use is bringing industry-leading security systems and technology to a broader user base that would not typically need or use a larger enterprise security system. Genetec's cloud offering will take our over 15 years of industry expertise, and bring this expertise to the small and medium sized businesses. We recognize a strong need for affordable and intelligent cloud-based security that is flexible, easy to expand, and available from almost any computer or device anywhere in the world.

It is a radical change to go away from server based software to cloud-based solutions especially in an industry that is known to be very conservative. Do you expect companies to quickly adopt to cloud-based technology?

Pierre Racz: The cloud has been one of the most talked about IT topics of recent years, however security data in the cloud poses several challenges that are non-trivial. In terms of functionally, how do we handle bandwidth and storage? Legally, how do we manage data security, confidentiality and chain of custody? And from a business perspective, how do we ensure our cloud clients are not just getting a diluted version of traditional on-premise software? Genetec has carefully considered all of these facets to ensure that

we deliver solutions that can meet market needs. Our cloud initiative is being undertaken because we see a compelling need in the market that we are uniquely positioned to address. We see demand from: Our largest customers, who can directly benefit from the flexibility, scalability and ease of integration that a hosted solution can provide to help extend their on-premises system; Smaller customer sites requiring fewer cameras and door counts who are currently underserved by existing cloud and on-premise solutions that are either too costly, lacking in features, or are difficult to deploy and complicated to use. We see customers who are interested in taking all of the things that has traditionally made Genetec a leader in enterprise on-premises security software (intuitive UI, scalability, data management) and providing that functionality to them a highly accessible cloud solution.

There are already video hosting services on the market. What is the difference between your concept and a standard Video-as-a-Service model?

Pierre Racz: The Genetec solution is unique in that it is a true hosted system in the cloud rather than a managed service that typically leverages the internet to facilitate viewing of a remote system, such as a digital network recorder (DVR), or network video recorder (NVR). The benefit of a true hosted system, such as what Genetec is bringing to market, is that the data is stored and highly secure in a distributed network of datacenters (making access to the data much faster) and can allow users of the system to access and manipulate their data from virtually anywhere in the world. Cloud computing relies on sharing of resources to achieve economies of scale similar to a utility (like the electricity grid) over a network. At the foundation of cloud computing is the broader concept of converged infrastructure and shared services. Further, Genetec is taking all the things that have traditionally made the company a leader in enterprise on-premises security software, namely our friendly UI, feature set, and data management functions, and putting them in the cloud in a powerful, intelligent and affordable package. We strongly believe that bringing this level of functionality in a true hosted solution will be of interest to the industry.

For bigger companies it is an obvious advantage that remote or satellite locations can be easily networked together. What is the advantage for small and medium size companies?

Pierre Racz: Small and medium sized users do not have the need or desire to manage the computing infrastructure associated with traditional on-premise security systems. These users typically require affordable and easy to use security solutions that allow them to access their security data quickly using any computer or device anywhere in the world. Genetec's cloud offering will help our small to medium size users to better manage their security systems and leverage their security data so that they can run their businesses better and more securely. This will be offered in an accessible solution at a very competitive price point.

Already with IP networks there were concerns about networks being hacked by someone. How secure really is a cloud-based security service?

Pierre Racz: Data security is one of the biggest areas of concern for companies that are considering whether or not to move to cloud computing. When it comes to the physical security industry, the stakes are even higher because you are often dealing with the safety of people and possessions. We understand the crucial importance of keeping our customers' data secure and this is precisely the reason why we decided to build our cloud-based solutions on the Microsoft Azure platform. Microsoft has designed the Azure platform with security in mind, building in a number of different security features and mechanisms in every layer of the cloud infrastructure to implement a defense-in-depth approach. Windows Azure runs in data centers managed and operated by Microsoft Global Foundation Services (GFS). These geographically dispersed data centers are managed, monitored, and administered by Microsoft operations staff that have years of experience in delivering the world's largest online services with 24 x 7 continuity. They comply with industry standards, such as ISO/IEC 27001:2005, for security and reliability. In addition to data center, network, and personnel security practices, Windows Azure incorporates security practices at the application and platform layers to enhance security for application developers and service administrators.

How does the new business model work for installers and integrators?

Pierre Racz: Genetec's business model has been and will continue to be based on our robust and talented integrator channels. There is a strong role to be played by Genetec's integrator channel in terms of installation expertise, security know-how, and the ability to recommend the most appropriate product for their end users. Genetec is highly selective when it comes to our on-premises channels, and we will apply the same approach to selection of integrators that will sell and install our cloud-based services.

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INTERVIEW

Made in Quality

An Interview about How to Manufacture Products at Highest Quality Levels

When we think of product quality, the first thing that comes to our minds is often a quality brand. We connect certain brands automatically with quality when we had a good experience with the brand in the past. The second aspect that might to influence our mindset is the look at the "Made in …" label on product. While the value of a brand is rarely doubted, the question whether the origin of production should be considered for a buying decision is an interesting question. At Intersec in Dubai, Heiko Baumgartner had the opportunity to discuss this topic with Hanno Vogels, Bosch Security Systems Vice President for Eastern Europe, Middle East and Africa.

Hanno Vogels

GIT SECURITY: I assume that the Bosch brand helps to sell your products and solutions on a worldwide scale?

Hanno Vogels: Yes, we benefit from our very high brand reputation in the market. When we ask our customers why they decided to choose Bosch, we often hear that it was due to the unique brand reputation, the ease of operation and the proved quality of performance. Besides the product quality customers value very much that they can be sure to get products from a world class manufacturer supplying via a competent and fully trained distributor. "Dependable, reliable, and fully trustworthy" are the attributes normally connected with Bosch.

Do customers still expect the "Made in Germany" label on your products?

Hanno Vogels: Some customers ask for it and some are surprised that we produce a lot of our products outside Germany. Until some years ago the research and development for our products was mainly located in Germany but for decades a big part of the Bosch product portfolio was manufactured outside of Germany. All product sectors, but especially the automotive division from Bosch, have a long tradition for an international division of labor and for developing a global manufacturing network.

How comes that a lot of products from Bosch and Bosch Security Systems are labeled "Made in China"?

Hanno Vogels: Bosch has a long tradition in China. In recent years a milestone was the founding of a new company, Bosch (China) Investment Co. Ltd., in 1999. Since then, in its role as a holding company, it has coordinated all business in China. Under the umbrella of

this holding company, nearly all the Bosch business fields in China have established their own manufacturing sites. Everything started with the automotive sector where Bosch followed the growing market in China. Today Bosch not only manufactures automotive products, household appliances, and power tools in China, but also industrial technology, packaging machines and security systems. Bosch has now many subsidiaries in China, some with their own engineering centers for research and development and seven joint ventures.

Can you tell us a little bit more about the facility in Zhuhai where most of the security products are manufactured?

Hanno Vogels: Since 2008, the factory in Zhuhai develops and manufactures electronic security systems with the latest world class technology providing employment for 1,100 employees plus additional 180 people who are involved in R&D. The whole factory is covering 45,000 square meters. The production area is about 17,000 square meters big. In the Zhuhai facility we manufacture intrusion alarms equipment, fire detectors, cameras, communication tools, conference and public address systems as well as access control and management systems at the highest level of quality.

From your point of view the standard of production is important not the production location?

Hanno Vogels: Yes, absolutely. Bosch was always quick to implement international quality standards and these standards have lost none of their validity. The Bosch logo outside means a product must have Bosch quality inside – regardless of whether the product is manufactured in Zhuhai in China, Ovar in Portugal, Hermosillo in Mexico or Straubing in Germany. Bosch executives throughout the world have committed themselves to implementing the same production and quality standards on a global scale. The same applied to the principles for leadership and for ecological and social responsibility, which had their basis in the tradition of the Bosch Group, and they are valid worldwide.

The industry has seen a lot of lower quality OEM products labeled with famous names. Is "Made in China" with the background of your high quality brand well accepted in all countries?

Hanno Vogels: It is interesting that it is accepted very well in Germany and Western Europe where most of the customers understand the background of German Engineering and that we are under full control of the production. They understand that we do not simply label OEM products with the Bosch label. But "made in China" raises questions in Russia and some Arabic countries where customers had a lot of problems with very cheap products coming from China. Often these products were cheap copies of established brand products who failed to work. You can imagine how critical a product is that does not work in the safety and security environment.

How do you handle this challenge?

Hanno Vogels: We constantly inform our customers about our philosophy, the standards of quality and how we realize them. Also we invite key customers to visit our production sites to see first hands how well equipped the production lines are. They are equipped with up-to-date surface mount assembly lines, in-line optical inspection systems, electronic in-circuit testers and functional testers. We can demonstrate live how the assembly processes fulfill the requirement of the Bosch Production System. The same system is in place in each of the Bosch factories worldwide and all products are VDS approved.

Do you also apply the same standards of ecological and social responsibility for all locations?

Hanno Vogels: Yes, the factory in Zhuhai for example utilizes a state-of-the-art sewage treatment system. And the entire factory is equipped with solar heating system and relies on renewable resources. Ecological and social responsibility as a central pillar of corporate policy Bosch has always been – and continues to be – keenly aware of its special responsibility, which is at the same time entrepreneurial and social.

What about the service of the security products? Where is it done?

Hanno Vogels: For the rare case of a warranty case, all products are sent back to our service center in Straubing, Germany, no matter where they were produced. This gives us an additional feed-back on the level of production quality worldwide. As I already said before the failure rate for our products "Made in China" are at least as low as they are in all the other countries where Bosch products are manufactured.

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FIRE DETECTION

In Transit, Out Of Danger

Designed-In Efficiency of Fire Detection in Public Transport Terminals

A bus station or train station building often consists of the widest possible mixture of spaces. There are conventional enclosed rooms with doors, long corridors with low ceilings, wide open atriums with a high roof, stairwells and elevator shafts leading to different levels as well as tunnels leading in and out of the complex. Designing an effective fire detection system for this environment represents one of the biggest challenges that a system planner can be faced with.

The ideal passenger transit terminal copes easily with peak-hour numbers of travelers but without wasting precious real estate. While this helps to make it commercially successful, it can also mean that the density of people per square meter can rise significantly during commuting hours. Apart from striving to fulfill his aesthetic design concept, the architect's considerations into evacuation will have to take into account the multiple exit routes available so that a speedy exit by all passengers is possible. And just this openness and a building riddled with holes poses a problem for fire detection. The constant movement of high volumes of air through open doors and walkways means that, whatever detection method is chosen, it will have to cope with this high air throughput. Take into account the effect of a subway train arriving and how much air that displaces and the scale of the problem becomes clear.

We have all seen the – for us – very amusing if slightly scary pictures of subway staff pushing passengers into trains so that the doors can close. But the Chinese really do have to be able to move large numbers of people in a short space of time. So the station and transport hub at Shanghai South has been purpose-designed as a modern terminal combining railway, subway and bus platforms into one complex. Any disruption here in the normal flow of people, vehicles or rolling stock quickly has knock-on consequences for the entire transport system in the area.

The task of early fire detection has been carried out here by Xtralis by employing a strategy of Performance-Based Design. This seemingly obvious but by no means new concept has been defined as "... a building design that is based on a set of dedicated performance requirements and that can be evaluated on the basis of performance indicators". In the case of the Shanghai South terminal from the point of view of fire detection, this translates to ensuring the earliest feasible detection by using cutting-edge technology, the minimization of interruption to normal traffic as well as the continuity of business. These requirements should all be met by an innovative design that conforms to the identified performance definition whilst also being cost-effective.

Above all in such an open building, how a fire grows from the initial source and propagates to adjacent components of the building is difficult to foresee. Add the challenge of predicting the flow of smoke under the very differing airflow conditions that occur during various parts of the day and even times of year and it is a small wonder that anyone feels equipped to step up to the task. However, the use of air-sampling detection (ASD) provides a reliable answer, and one that outperforms conventional detection methods and that can also be effectively implemented in this difficult environment. Computer models were applied by Xtralis using Computational Fluid Dynamics to determine safety margins under different scenarios, to show potential fire development and also to show smoke progress throughout the complex. The ASD technology employed, as a bonus, also provides efficient gas detection for the risk areas.

Real life fire tests on platforms have in practice confirmed the computed theory in the protection of surface and underground areas, and the system as a whole provides a high-tech solution at a cost balanced to the product life-cycles and available investment levels. That it fully complies with building and fire authority regulations almost goes without saying.

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FIRE PROTECTION

Simplicity Leads to Clear Mind and Top Performance

If the ancient wisdom in the headline is true, the launch of Tyco Fire Protection Products's new fire detection solution at Intersec 2013 should help installers and fire system integrators to outperform. In Dubai, Tyco presented FireClass which integrates a full range of detectors and ancillary units with both conventional and addressable panels. This new system was developped to provide installers and fire system integrators with advanced fire detection products designed with ease of installation and simplicity in mind available from a single provider.

FireClass has been engineered for intuitive use and simple configuration and is based on a well established and trusted technology platform from Tyco Fire Protection Products. It offers customers an 'out of box' fire detection solution that can be easily configured and installed. With a robust digital platform, FireClass also gives end users flexibility in service and maintenance options and spare part procurement.

"Innovation and product development are central to our business strategy," comments Jason Mather, Detection Business Development Manager for Tyco Fire Protection Products, EMEA. "Building on our experience in the fire detection industry, we've taken a new approach which provides our trade customer base with a complete brand that integrates proven technology and robust, reliable products that are easy to use. With FireClass, we're able to offer fire system installers and integrators a complete solution that enables them to rationalise suppliers, saving time and cost during the installation and configuration phases."

The FireClass portfolio includes a complete range of fire panels which offer solutions for all applications. These include the J408 conventional two, four and eight zone panel and the J424 conventional expandable to up to 24 zones panel, all with optional extinguishment module. Addressable panels such as the FireClass 510, a single loop panel, can be configured in minutes. The FireClass32 and 240 are provided with feature-enhanced zonal capability and 'auto learn' functionality to recognise all devices in the FireClass range. Flexible manufacturing enables different system requirements to be met, including the integration of network cards and additional input/output points, providing additional benefits to customers.

The FireClass range is also supported by a wide portfolio of ancillary products, accessories and field devices for addressable panels and detectors including an innovative ceiling tile adaptor for faster and easier installation in suspended and false ceiling applications. Part of its Generation6 fire detection range, the new Time Saver Mount achieves a 30% time saving for suspended ceiling installations, helping to reduce the overall construction programme, project costs and labour hours.

This time-saving component forms part of the ancillary products range within the Generation6 portfolio of fire detection solutions. Based on the proven MZX technology platform, the new range offers unique and innovative features designed to make the installation and commissioning process easier.

Gary Craig, EMEA Sales Director at Tyco Fire Protection Products adds, "We believe there are significant opportunities for the new FireClass range and have already received a positive response from many customers looking for an integrated fire detection package. This new system complements our existing range of fire suppression products and enables us to extend our sales and support capability to position the business as the market leading provider of total fire protection solutions."

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Protective Solutions

Ansell has exhibited a range of solutions for customers in the Middle East and Africa at Intersec 2013 in Dubai. The Company has recently expanded its product range following a number of acquisitions in 2012. "The recent acquisitions of French hand protection specialist Comasec and Ansell Protective Solutions (formerly part of Trelleborg), has provided us with more comprehensive safety solutions that will benefit our customers in the Middle East and Africa," said Peter Dobbelsteijn, Senior Vice President & Regional Director, EMEA. "We will achieve the goals outlined in our growth strategy by investing in research and development, embracing the latest state of the art technologies, and engaging with partners who can facilitate the swifter distribution of our innovative solutions, to our end-users." The new products include the Hyflex 11-518 glove, a very thin and lightweight EN cut protection level 3 glove, and Comasec's Marigold Industrial PX-218 glove which offers particularly high dexterity.

www.anselleurope.com

Surveillance System Design

The Axis Camera Families for Autodesk Revit provides 3D camera models to illustrate what the camera set-up will look like in real life and which areas the surveillance system will cover once installed. The 3D models are specifically made for security system designers when designing surveillance systems directly in Autodesk Revit 3D CAD building layouts. The camera models in Axis Camera Families include detailed metadata required for Building Information Modeling (BIM). The 3D models will also let security system designers interactively visualize camera coverage to help them select the right camera model and optimize the system layout. "Security should be an integral part of the design process of any new large building," explains Peter Friberg, Director of System and Services. "To achieve the best level of security and avoid blind spots that could potentially become a security issue, security systems need to be planned at the same time as other essential services such as electricity and plumbing." With the models security system designers can place the manufacturer's Network Cameras directly into CAD building plans and visualize the areas the cameras will cover. The software allows them to see exactly how the cameras fit into the building layout and to easily detect if views are obstructed by columns or walls, to help reduce unexpected blind spots.

www.axis.com

Additional Surveillance Cameras

Panasonic System Communications Company Europe (PSCEU) has introduced five new day/night fixed analogue box and fixed dome cameras with high resolution (650 TV lines), high sensitivity with true day/night functionality and a 16-axis matrix color compensation function for a wider range of natural color adjustment. Advanced functionality is available in the WV-CF/CW300 series of day/night fixed dome cameras, with high light sensitivity resulting from the day/night function; capturing color images is possible at just 0.08lx in the WV-CF314L/WV-CW324L and 0.15lx in the WV-CF304L/WV-CW304L. This is in correlation with the 20m IR LED irradiation of the WV-CF314L and the 10m irradiation distance of the WV-CF304L and with the 50m IR LED irradiation of the WV-CW324L and the 20m irradiation distance of the WV-CW304L. Additionally, all five models incorporate an infrared (IR) cut filter that switches on and off for greater light sensitivity in B/W mode, enabling scenes and images to be captured in total darkness, at 0lx. The infrared light is used to illuminate the images, facilitating the 'true day/night' feature along with auto back focus (ABF) which allows for quick installation and sharper images.

business.panasonic.co.uk

Industrial-grade Network Attached Storage (NAS)

Moxa's RNAS-1200 Series of industrial-grade rugged NAS systems are designed for environments demanding a compact industrial storage device with high performance, high reliability, and high capacity. Many video surveillance and media storage applications must operate in harsh environments unsuitable for commercial NAS hardware. Data storage in vehicular, outdoor, and heavy industrial installations requires especially rugged designs to guarantee data won't be affected by high temperatures or rough vibrations and shocks. EN 50155 TX compliant, the system comes with a fanless design and an Intelligent Heating Solution for frigid environments, as well as Data XPro memory technology that protects against data corruption from strong vibration and drive failures from too much heat proof RNAS-1200's ruggedness. Dual PoE+ Gigabit LAN ports for power and data redundancy on a draw of less than 25W and 15 second RAID 1 synchronizations on RNAS crashes represent reliability. User-friendly design and easy management are ensured by SNMP for convenient network management and a web-based UI for configuring disk arrays. **www.moxa.com**

Console For Control Rooms

Winsted Europe & Middle East has unveiled its Envision Command Console, designed and constructed specifically for today's control room technology. The console's modular design blends form and function in an ergonomically optimized single, double or triple tier configuration. Whatever the format, operator sight lines and viewing angles are maximized, while staff remain comfortable and productive. Each tier supports a 7½" high slat-track section that allows for flexible equipment mounting, along with convenient accessories to help keep operators organized and reduce clutter. Multiple mounting options on each tier mean the slat-track can be positioned where required. The console also features a convenient extra-deep rear cable management tray that simply hooks on to the slat-track, allowing fast, easy access for maintenance and future upgrades. **terry@winsted.co.uk**

IO Networked Camera System

Schneider Electric announced the release and availability of its Esprit SE IP Integrated PTZ Camera System including both standard and pressurized models for video surveillance and IP network connectivity. Built upon the Esprit SE positioning system platform, the system now features dynamic window blanking, auto tracking, internal scheduling clock, electronic image stabilization, and multi-language menus – all formerly reserved only for high-speed domes. Designed and built for continuous use featuring an integrated camera and lens, pan-and-tilt unit, multiprotocol receiver, and Sarix-based H.264 encoder, Esprit SE IP offers dynamic remote positioning capabilities and is capable of remaining completely operational in up to 90 mile-per-hour wind conditions. The integrated system offers responsive, high-speed positioning capabilities, fully configurable video streaming, easy browser-based set-up, very good weather protection, and a high level of aesthetics and ease-of-installation.

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COVER STORY

Video Evolves with University of East Anglia's Needs

New Versions of XProtect Video Management Software Help Keep the Safest Campus in England on track

The University of East Anglia (UEA) was an early adopter of IP video surveillance in 2005. Milestone partner Check Your Security (CYS) brought together a number of standalone CCTV systems into one single IP-based monitoring system that is proving capable of growing with the university. The university's security system was centralised by using Milestone XProtect Enterprise as the video management platform. A total of 90 existing analogue cameras were brought into the Milestone solution, with 30 new IP cameras installed campus-wide. The UEA's IT department took over management of three dedicated video servers and the system was moved onto the campus' fibre backbone.

However, the number of cameras being installed around the 450-acre campus grew by up to 20 per year as new buildings were constructed. It became clear by 2011 that the system performance should be upgraded. Simultaneously, the UEA began to look seriously at integrating its campus-wide Cardax access control system with the Milestone video management system to find further security management efficiencies.

Open Platform IP Video Solution Expandable

With the guidance of CYS, the UEA made the decision to upgrade from Milestone XProtect Enterprise to Milestone XProtect Corporate. The UEA also upgraded to Milestone XProtect Smart Client 7 in order to bring the system's front-end user interface up to date. Additional storage

servers from HP were added to handle growing data archiving capacity.

The benefits of the upgrades were many. The number of cameras per server can now continue expanding with minimal IT resources being required for the foreseeable future, even if the camera count continues to rise at the current rate. Furthermore, the UEA is planning to extend its IT services support to a neighbouring school site which is being renovated and expanded. Milestone Federated Architecture within Milestone XProtect Corporate allows the UEA to easily interconnect and manage new security systems and bring them onto the centralised network.

Many Additional Benefits Have Flowed from the Upgrade:

IT systems administration resources have also been reduced. XProtect Corporate's use of Microsoft Active Directorymakes access to the surveillance from the network both easier and more secure, as both firewall administration and system access authentication can be streamlined. Failover support guarantees against the UEA's surveillance system going offline in rare cases of server hardware failure.

- For the UEA's security officers the benefits of the Milestone XProtect Corporate and Milestone XProtect Smart Client upgrades were immediately seen on their control room screens: XProtect Corporate provides interactive maps which give the operators a graphical overhead view of the campus from which they can drill down into specific buildings and views, clicking on specific cameras to reveal live video images.
- XProtect Corporate's multi-screen live viewing, combined with XProtect Smart Client's Camera Navigator capabilities, enable operators to track suspects from camera to camera through a building and across the campus. This makes it easier to identify and apprehend them before leaving the site.
- 'Edge' storage and mobile client access support a planned move to connect patrolling officers' existing body-worn cameras and smart phones to the Milestone XProtect video management system.
- XProtect Smart Client also offers improved features such as on-screen joystick pan-tilt-zoom (PTZ) control, digitally signed video evidence export, more sophisticated alarm management and improved design for easier navigation.

Positive Results

The Milestone XProtect system gives the UEA's 28-strong team of security officers the confidence that they can retrieve the details of incidents very quickly and use this intelligence to make well-informed decisions to keep the campus' staff, students and visitors safe.

The upgrade to Milestone XProtect Corporate leverages the IP video choice for additional expansions well into the future. The Milestone Integration Platform also enables the university to explore further efficiencies across the security estate through closer integration with third-party systems.

Trevor Smith, Campus Services Manager at the UEA explains: "We have two main security systems at UEA: one is Cardax access control and the other is the Milestone-based IP video system. The idea of integrating the two is very exciting. "You only have to look at security scenarios to realise the potential. For example, in case of fire at night it would be possible to determine which students have left a hall of residence following an alarm being raised, comparing the numbers and identities of those detected by the access control with surveillance image views at the designated muster points."

Smooth integration between the Cardax and Milestone systems will mean that all access control alarm events (i.e. forced door entries, swiping of a deactivated card, etc) will be linked with the Milestone video database. Access control alerts will be displayed in the Milestone XProtect Smart Client on the control room screens. The nearest camera to a door entry could be selected and moved via XProtect to view the person trying to force a door. Patrolling security officers can be dispatched to challenge any unauthorised entrants to a building. The Milestone system can also integrate with video content analytics to 'face match' the photo in the Cardax system with the live XProtect video image of the card user swiping the card. Theft or misuse of swipe cards to enter university buildings could thereby be easily detected. The Cardax-

Technical Specifications in More Detail

The UEA's data centre has dedicated three HP servers for the university's IP video surveillance system. A designated management server runs Milestone XProtect Corporate for managing live video and a specified amount of recorded images from 175 cameras, 90 of which are analogue. Two other servers hold up to 10 hours of recorded video. All three servers then archive the data to an HP direct-attached storage device, currently holding 16TB of video storage each (i.e. 48TB total capacity).

This configuration ensures rapid access and retrieval of video when incidents occur, and provides storage for up to 30 days. Milestone XProtect Smart Client is used to display live and recorded video across two three-screen operating stations in the university's central control room.

Video from the analogue cameras are digitised through 23 Axis 243Q and 243SA four and single channel video encoders. The campus has recently deployed four 360 Vision Predators with IR and LED Lighting. It also has 30 Axis 232D and 233D network dome cameras, three Axis Q6034E cameras and more than 60 Mobotix M12, M24, D12 and Q24 cameras.

Background to the UEA

The UEA was founded in 1962. Over the last 50 years it has been continually expanded and developed. Today it is spread across 350 acres, with over 13,000 students and 3,000 staff. The campus has 57 buildings and a wide range of facilities and services, including the Sportspark, the UK's largest indoor sports centre, and the Sainsbury Centre for Visual Arts. The campus also provides accommodations, shops, banks, a health centre, chaplaincy, nursery, Students Union and Norfolk's largest library. It is home to 12 en-suite residences in the University Village. Construction of its own state-of-the-art biomass plant, being completed in 2013, will make the university 'power positive'- selling its own power back to the national grid.

Milestone integration project will be completed in 2013.

"Milestone was the only video management system that truly delivered our vision of centralising the UEA's CCTV system without tying us into proprietary technology. It enables us to manage the rapid expansion which is constant at the UEA. Furthermore, Milestone's open platform allows us to tap into the latest best-of-breed IP-based technologies and bring disparate systems together to generate further efficiencies." Trevor Smith, Campus Services Manager, Estates Division, the University of East Anglia

The UEA's Security Credentials

The UEA was voted third for ‚Good Security' out of 113 universities in the Times Higher Education Supplement's 'Student Experience Survey 2011'. It has been voted the safest university campus in England three years in a row.

The UEA security team of 28 officers provide 24-hour security campus-wide. These officers are based in a fully-manned 24/7/365 security lodge. They run four shift teams of seven people each and one officer of the on-duty team stays in the lodge to man the phones and alarms and complete incident reports.

Every two hours officers rotate between tasks over their 12-hour shifts in which they perform a range of activities, including mobile patrol in vehicles and on foot, manning the central control room and the security lodge, also tending to locking and unlocking duties.

Squeezing More from Static Security Budgets

Once the access-control CCTV system integration is complete at the UEA this will establish a blueprint for further projects. CYS is already scoping the benefits of integrating the Milestone XProtect platform with the UEA's intruder alarms and fire detection systems to build business cases for those investments should budgets become available.

Trevor Smith summarises: "The reality is I do not see my team expanding in the near future, yet two or three new buildings are going up each year and student numbers are rising. More effective use of the Milestone video management and alarm platform provides the key to squeezing better and more services out of static budgets. Milestone is vital to finding these efficiencies and productivity increases looking forward."

A video about the project is available via http://youtu.be/xhZravQ_P_4

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Multi-channel Viewing in HDMI Displays

Synology launched Visualstation VS240HD, a surveillance solution designed for ease of multi-channel viewing on local HDMI displays. It boasts powerful image decoding capability by supporting up to 24 channels of simultaneous high-definition viewing at 240 FPS in 720p. Dual HDMI video outputs make it surveillance solution for large-scale deployments, allowing users to stream high-quality footage to different screens in a state-of-art security control centre. "VS240HD is an economical and compact device dedicated to live-view monitoring. It does not require a PC and saves on energy bills by consuming merely 14.4 watts in full operation while still maintaining a space-saving design," said product manager Chad Jiang. Paired with the manufacturer's Diskstation or Rackstation, the solution supports video streams in MJPEG, MPEG4, and H.264 compression formats, including audio. Pan/tilt/zoom (PTZ) cameras are also supported to offer extensive monitoring and object tracking.

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Transmission Solution App

Comnet Europe is introducing its product selection app for the iPhone, iPad and iPod touch. The Fiber Optic & Ethernet Products app is a solution identifier that allows to choose the right transmission product for virtually every application. The app allows the user to search by application or model number, it also gives the user the opportunity to identify media options and the specific benefits of each when choosing products for new or retrofit applications. The app gives the user access to product datasheets, installation manuals and A&E Specs for the complete line of fiber optic video, data and audio products as well as fiber optic Ethernet and Ethernet over copper extenders. The app is available at No-Charge on the App Store. **fhaight@comnet.net**

IP Camera Housings

Videotec launches its Hi-PoE IPM Housing. It combines intelligent control technology and advanced features for the protection and ideal functioning of IP cameras. These special housings, thanks to the IPM (Intelligent Power Management) system, make the most of PoE and Hi-PoE technology, using the power provided by the Ethernet cable as the sole power source for all managed devices. The result is a greater reliability and flexibility of the network system in addition to simplifying installation operations and reducing costs. The Hi-PoE IPM system automatically detects all options present, such as heating, fan and illuminator and then automatically performs a power balance and thus an appropriate distribution of the same to the connected devices. This ensures optimum operation of the IP camera from –30°C to 60°C, with temperature control and cold start (start at low temperatures). IPM technology will be applied to the HOV and Verso Hi-PoE housing ranges.

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Free-standing

Barco is showcasing its new structures for tiled LCD video walls at the Integrated Systems Europe (ISE) trade show in Amsterdam. The OBLX series are free-standing structures, meaning they do not need wall support for stability. The manufacturer's range of LCD video walls consists of high-quality and near-seamless displays that bring all the advantages of LCD to control rooms and other video wall applications. The benefits of LCD video walls include a narrow profile, easier setup and removal, and a more affordable pricing. Now, to expand the applicability of tiled LCD video walls, the Company is introducing the OBLX-55 free-standing structure, which holds 55" LCD displays in a 2x2 landscape setup or a 3x1 portrait setup. Because these structures can be easily placed next to each other, there is no limit to the horizontal extension. **www.barco.com**

CONTROL ROOMS

Large Scale

Videowall Equipment for Police of Lugano

Lugano is situated in the very south of Switzerland idyllically at the shore of the lake that owes his name to the city. As with everything else, people in Switzerland place great importance on smooth perfection. For this reason the "Polizia Città di Lugano" has integrated numerous different information, process and alarm systems into a functional unit. In this process a secure and ergonomically exemplary solution was created which is easy to handle and future-proof. Like with many other projects Wey as the integrator is relying on Eyevis large scale video technology.

Over the years the technological equipment of the old operations center became more and more complex through many new requirements without having a suitable integration concept to simplify and standardize the handling. Operative process changes and numerous new tasks additionally lead to an increase of the number of operators in the center.

The latest example of this trend is the project of the new tunnel Vedeggio-Cassarate which forced the city of Lugano to redesign their road and traffic light control system. In addition 118 emergency calls recently have to be received and processed for the whole canton. To face those tasks, conditions and the control concept as well as the ergonomic situation of the operations center appeared to be more and more overstrained – a solution had to be found. Lugano City Police in the framework of an advertisement decided to go with the "Wey-Distribution-Platform", since it meets the requirements of the advertising criteria for the new operations center with its comprehensive integration concept.

Now the operators have seven workstations with up to six monitors available that can each be controlled with a single multifunctional keyboard. All integrated systems as well as large scale image displays are conveniently controllable from any workstation. Thanks to Wey-Event-Management-Systems all results (alarms, system reports, failures etc.) are automatically displayed at the workstation and/or on a large-scale video display.

Also new: all computers of the integrated systems are now placed in a central, air conditioned system room and the computer signal distribution of video, keyboard, mouse and audio is handled by the "Wey-Distribution-Platform". Due to that, noise and heat emissions in the operations center are reduced, ergonomics at the work stations are increased, maintenance is facilitated and CO_2 emissions are reduced considerably.

The Large-scale Video Screen

For the large-scale screen six Wuxga-LED rear projection Cubes in 56" (2×3 configuration) were put into operation. With this the video screen provides an almost bezel-free total image area of 3.63 × 1.51 m. Currently the screen is used to display the 47 available video cameras. In the near future 200 more video cameras are supposed to be added for the surveillance of pedestrian zones and parking lots (Project Security). Besides the video camera images computer video images from the Distribution-Platform are connected to the large-scale video screen as well.

The video screen is controlled by a high-performance Netpix graphic controller with five Eyevis-IP-Streaming-Video-Decoder-Boards. The IP-Decoder-Boards allow for the simultaneous depiction of up to 40 video streams of different origin. The management of camera and computer video sources on the large scale video screen is assumed by the eyecon wall management software. The special feature: the Wey-IP-Remote-Extenders are completely integrated into the eyecon wall management software. In this way the signals of the IP-Remote-Transmitters can already directly be used by the eyecon wall management software for controlling and depiction of the large scale video screen. A network of redundant versions of the large scale video wall and the controllers, as well as of the Distribution-Platform-Components, ensure a high failure safety.

The complexity of the task, the technical and financial conditions as well as the tight schedule imposed a considerable challenge for all involved parties. Wey sees the outstanding project organization and the extraordinarily good communication of the city of Lugano as extremely important for the successful implementation. About the cooperation, Mr. Enos Escher, head of the IT department of Lugano City Police, says: "Wey instantaneously had the distinction of being able to integrate complex systems and still keep the simplicity and lightness of the handling that is absolutely necessary in terms of operability." He further elaborates: "The company met our needs in a competent and flexible way."

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Peter Hawksworth,
Head of the Security Products
business segment,
Siemens Building Technologies

INTERVIEW

Interoperability and Ease of Installation

Access Control and Intrusion Detection Are in the Focus of Siemens Security Products Business

The business segment Security Products is part of the Siemens Building Technologies Division and offers a broad range of access control, intrusion detection and video surveillance products. The segment sells its products to distributors, external system integrators and installers but also to the Siemens Security Solutions unit. At the Security Essen show, Heiko Baumgartner did get an update from Peter Hawksworth, Head of the Security Products business segment, about the company's plans and developments in the market.

GIT SECURITY: When we met last time, your plan was to centralize your business and to accelerate the development in the access control and intrusion detection markets while keeping a core CCTV portfolio. How has this plan developed?

Peter Hawksworth: The turn-around we talked about two years ago is complete now. We have centralized a good part of our business in Sollna, Sweden now. Accounting, finance, the product management and R&D are located there. On the product side our objective was to develop an attractively priced, professionally supported selection of excellent security products in the three market segments you mentioned. I think we have achieved this goal. Our re-organization has accelerated the development of new products. Our intrusion detection portfolio consists now of a complete range of systems and devices for detection and monitoring, control and operation, alarm transmission, alarm verification and remote services. Both our Sintony and SPC controllers and their wide range of system components provide installers and end users with great flexibility and scalability. The easy integration with our SiPass integrated access control system ensures that full interoperability is built in as standard.

You have always emphasized that interoperability is in the focus of your developments. I assume that it is of the same importance for your video surveillance and access control products?

Peter Hawksworth: Yes, easy integration is equally important for our video surveillance products and systems. They are designed with both installer and end-user requirements in mind and to complement our access control and intrusion detection portfolios. Our offering consists of dome and bodied cameras with IP variants, lenses, digital video management systems, matrix systems, pan & tilt heads, housings and accessories. We have developed access control to link up with industry standard CCTV products using open protocols. Our SiPass products and systems are designed to suit a wide variety of different kinds of organizations around the world – large, medium-sized and small. While security is of utmost importance for access control products, interoperability is too. The SiPass range has also been designed to provide a high level of convenience. As a result, our products are not only robust and reliable – they are also very easy to install, use and maintain. All of our systems have become more flexible and scalable, which means it's easy to modify or expand them at any time to meet changing needs.

At Security Essen and other shows one could see that remote access via internet or smart phones is certainly a trend in the industry. How do you ensure that your customers are always in control, even when they are on the move?

Peter Hawksworth: At Security Products we have made substantial investments in our cus-

tomer support systems. My intention is that our products should be available and accessible and they should be supported in the best way possible. One of our latest developments is an app for smartphones and tablets developed to provide instant support for installers. It is an app for smartphones and tablets developed to provide installers with 24/7 access to our range of CCTV, intruder detection and access control products. Our experience is that our customers, the majority of whom are installers, need support most often when they are on site in the middle of a job. And they need that support quickly. With this app, wherever they are – provided they have a mobile data or Wi-Fi connection – installers can not only pull up data sheets for products they are using, but also seek advice from the entire installer community. That's going to make their lives much easier as well as saving them a lot of time and money.

It is remarkable that two other product highlights you present here at Security Essen are also on the software side.

Peter Hawksworth: Yes, for video surveillance we have developed a new network video software that combines performance with scalability. It was developed specifically for high-performance network video surveillance systems that use full HD image quality. The Vectis HX NVS software package allows monitoring and recording of images from up to 64 IP cameras per network. For IP cameras from Siemens, the software also provides full remote control capabilities, including PTZ control. In addition, ONVIF support allows the connection of third-party cameras that are compliant with this widely used open standard. On the intrusion detection and access control side, we have introduced the SPC Manager software that facilitates the administration of multiple SPC intrusion detection and access control systems at one or more locations. SPC Manager supports up to one thousand SPC panels that can be located anywhere in the world. The software offers powerful features, including real-time monitoring of installed systems and the ability to modify the user settings of more than one SPC system in a single command.

What can we expect for 2013?

Peter Hawksworth: The most significant new product introduction for us this year will be the new 'Magic' motion detector. We believe this will be our key differentiator in the intruder market in 2013. It utilizes a new reflex mirror (double mirror) technology which means that the overall depth of the unit is much less than competitor models. The result is a small and very attractive detector that will suit any installation. Also new for 2013 is our Next Generation Access Card reader. This is the first in a line of exciting new Access Control developments in our portfolio for the future. This product will be our own branded MiFare reader and it also has an aesthetically pleasing and robust design. On the CCTV side, with the introduction of upgraded versions of our popular Vectis hybrid video recorders (HVRs) and our versatile CCTV cameras, plus the launch of a new HD low-energy monitor, plus new CCTV accessories, I believe we are now able to offer one of Europe's most comprehensive and up to the minute ranges of IP CCTV products. All of these products are designed to allow easy integration with other types of access control and building management systems. Finally, we are also adopting a more critical approach to the aesthetics of our products. The Magic detector is an example of this. A number of customers in different countires have commented that having products that perform well is no longer enough. Their customers are now as concerned about what the device looks like and this is a topic in which we have invested time and effort.

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CCTV

Great Scope, Small Details

Panoramic Megapixel Cameras Set New Benchmarks for Wide Area Surveillance

High definition megapixel cameras can cover larger areas with fewer cameras while delivering superior detail and improving overall security operations. This translates into lower infrastructure costs and improved overall return on investment (ROI), enabling users to deploy less expensive video systems with megapixel cameras while achieving better performance and functionality. These efficiencies become even more compelling when deploying panoramic view megapixel camera systems.

Scott Schafer

Securing large areas with adequate camera coverage can be challenging, and the use of pan-tilt-zoom (PTZ) cameras often does not suffice in these applications. A PTZ camera can only be pointed in one direction at a time and can miss important or security-threatening events in another part of the coverage area. Panoramic view cameras don't miss anything – a single 180° or 360° panoramic view camera can cover a large area that would require many conventional cameras or multiple PTZ cameras. The following real-world examples demonstrate how panoramic view cameras can simplify and lower the cost of a video surveillance system:

- At a gasoline station in South Africa, three Arecont Vision 180° panoramic view cameras provide detailed images of the fueling islands while an Arecont Vision 360° panoramic view camera keeps watch inside the store. The cameras are positioned strategically for wide-area coverage, with the ability to digitally zoom in for a close-up of specific parts of a larger image – a person's face or a license plate number – without losing detail.
- At a supermarket distribution center in Colorado, an Arecont Vision 180° panoramic camera is installed outdoors on the side of the building to watch the guard shack, trucking lanes, parking area and shipping/receiving. The 20-megapixel day/night panoramic camera provides a complete view of the property, replacing a PTZ camera that provided only a limited angle both for live and recorded views. In contrast, the 180° panoramic camera captures the entire scene in high resolution with a much larger field- of-view. A heater-blower enables the camera to operate in temperature extremes.

360° View at a Gas Station

A panoramic camera watches out for illegal dumping at a waste center

- At a police department in New York State, Arecont Vision 8-megapixel, 180° cameras are installed at the front and back entrance for exterior video coverage. The wide panoramic field-of-view eliminates the costs for additional cameras and pan-tilt-zoom units. The Arecont Vision cameras automatically switch from color to black and white at night.
- An Arecont Vision 180° megapixel camera provides a comprehensive view to enable police to watch for illegal dumping at a waste center in Pennsylvania. The system has made it possible for the police to identify and issue citations to people who discard unauthorized items. The system can clearly see what people are disposing of and identify their faces and the license plates of their vehicles.

180° and 360° Camera Capabilities

These examples demonstrate how panoramic cameras enable the user to view and record an entire large field-of-view while simultaneously digitally zooming into multiple regions of interest, something a PTZ cannot do.

Panoramic view cameras are available with 180° and 360° imaging capabilities, and 8- or 20-megapixel resolutions (which will continue to increase). This allows even larger areas to be viewed with the ability to capture precise details. A panoramic camera with 20-megapixel resolution can replace many analog or standard definition IP cameras to provide comprehensive and continuous coverage of a large area. This includes PTZ cameras which can be pointed in the wrong direction when events of interest occur.

The latest 20- and 8-megapixel panoramic view cameras have also been enhanced with day/night functionality. Using one camera instead of many establishes a new benchmark for cost savings by requiring fewer software licenses, less network infrastructure, and the elimination of the additional poles, cabling and power supplies required for installation.

Firmly in the Mainstream

Once thought of for use exclusively in specialty applications, panoramic megapixel cameras offer overall performance benefits and cost efficiencies that make them appropriate for a wide range of mainstream video surveillance applications.

Complete and continuous coverage of an area is especially important to ensure that there is forensic-quality video of an event for investigation and/or prosecution. Resolution is also a key aspect of video coverage, whether it's a parking lot or a city street outdoors, or an auditorium, atrium or other large area indoors or out. High resolution megapixel cameras can deliver usable video of an event, including details of faces and identifiable license plate numbers, to help improve overall safety and security.

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PERFECT VISUAL SOLUTIONS

VIDEO SURVEILLANCE

James-Bond Technology for **Everyone**!

HD through IP Technology or HD-SDI – or Stay Analog Instead? Everfocus Customers Have the Choice.

State-of-the-art IP video technology played a glamorous main role on the Everfocus stand at Essen 2012 by featuring the new NevioHD series' Megapixel stars. Also in the cast was the new generation of HD-SDI technology, supported by the latest enhancements of the classical analog portfolio. Matthias Erler, GIT SECURITY, interviewed Dirk Reinders, Managing Director of Everfocus Germany.

GIT SECURITY: Mr. Reinders, let's start with your Security Essen presentation – your stand was quite busy?

Dirk Reinders: Yes, there was a lot of interest, especially in our HD-SDI products that two years ago had been just politely noted and at most viewed as transitional technology. Meanwhile, others have followed and acceptance has increased. However, we are focusing also at the Security trade show mainly on HD-IP, the decisive future technology.

Would you outline the main aspects of your presentation to us?

Dirk Reinders: From the HD-IP portfolio we presented our Nevio IP product series that consists of innovative box, dome, bullet type and speed dome Megapixel cameras covering a wide range of applications. All Nevio IP cameras support H.264 and MJPEG compression formats and provide PoE and SDHC card support as well as Wide Dynamic Range (WDR). The dome models support P-IRIS lens control for more precise control over the camera iris aperture. This enables greater control over the camera image, improves the depth of field, enhances contrast and generally provides better sharpness and clarity. All products are Onvif and PSIA compliant and are compatible with many video products of other manufacturers. The Nevio IP product range demonstrated during Security also included several network recording solutions, meeting the requirements of small applications with the Mini NVRs, via the ENR series with enhanced features such as Tribrid functionality, up to the "Commander" network video recorder that supports up to 64 x 5 MP network cameras.

At the beginning, you mentioned SDI technology. What has been shown from this technology and what was also on show from the analog portfolio?

Dirk Reinders: As for the HD-SDI portfolio, we showed new box and bullet type cameras with improved dynamic performance. In addition, we launched a compact economic series of box, bullet and dome cameras as well as speed domes and the real time 4-channel HD-SDI EPHD04 DVR, rounding off our portfolio of HD-SDI digital video recorders with the 8-channel full HD and the hybrid 4H4 and 2H14 DVRs. This allows us to provide an attractive HD solution for traditional analog SD applications. With regard to analog: we launched a re-designed camera series with a 960H Exview HAD II sensor – based on the Sony Effio platform – and a 24" metal case 16:9 TFT monitor.

Wouldn't you agree that analog technology is becoming increasingly unimportant?

Dirk Reinders: Our company has its roots in analog video technology – we will definitely not be cutting these so quickly and therefore the analog SD business will also play a significant future role for us. Nevertheless, the consistently decreasing demand for SD solutions cannot be ignored. Customers expect an image resolution within the Megapixel range that they know from the private sector of TVs and photography – and which they have got used to in the meantime. This makes us focus on HD technology with two technological approaches, offering our customers the choice between video over coax: HD-SDI (HDcctv) and video over the network: HD-IP (our Nevio IP series).

Within video surveillance technology, what makes HD-SDI technology so attractive for Everfocus?

Dirk Reinders: We have been working for about three years on paving the way to HD technology for those customers not willing or able to establish an IP infrastructure – it's simply not every installer's cup of tea. It has never been our intention to establish HD-SDI as a technological alternative to IP which is undoubtedly the future technology, but as contemporary alternative to analog technology. The point is to make use of the existing analog technology based on coax – that's where we see ourselves as a trailblazer. Many users in smaller applications – from gas stations to solariums – appreciate this approach. They also want this James-Bond technology; they also want to benefit from the extremely sharp HD images which they can zoom in to see all the details they want to see.

So, it's the installers you're thinking of?

Dirk Reinders: Definitely. Among the installers, we can find the IP-minded young generation, but also those who have grown up with analog technology, but still want to offer state-of-the-art systems and solutions. Instead of establishing a network infrastructure, they can make use of the existing cabling (provided that the system requirements with regard to cable attenuation and length are fulfilled) and at the same time work with the latest generation of recorders equipped with a user interface well-known from the analog systems – from visual appearance to key assignment. An additional motivation to deploy HD-SDI technology is certainly also investment protection of their cables and equipment.

What further technical advantages do you see in HD-SDI?

Dirk Reinders: First of all, the minimal training effort and the image transmission almost free of latency are significant advantages; the latter especially with moving cameras. Cable distances of up to 180 meters can easily be realized with our HDcctv coaxial cable – this was also demonstrated at the Security trade show. Furthermore, HD-SDI is an ideal alternative to operate HD video systems in outdoor areas around public buildings and for public authorities where the use of network cameras is prohibited. Although the number of HD-SDI system components is currently still below the IP and SD technology, this technology is consistently under development in order to close the gap.

What about mixing technologies?

Dirk Reinders: We also offer modular recording systems combining SD analog technology with both HD-SDI and HD-IP technologies, which is especially suitable for larger projects requiring the integration of existing premium devices.

What is your estimate with regard to the proportional development of the analog, coax and IP markets in the near future?

Dirk Reinders: As I already mentioned, the future is undoubtedly IP as regards both technology and quantities. That's why we put a lot of effort into the development of this segment. However, I don't think that IP technology will obtain 100% of the market so quickly. Analog technology will gradually lose its relevance – and nobody can tell the time this process will take – but we'll certainly be surprised how much of this technology will still be around for quite a long period of time. From our point of view, HD-SDI will play a limited but stable role in video surveillance technology.

Would you say that access to IP technology is also a matter of generation?

Dirk Reinders: Certainly. Nowadays, everything is network-compatible, and the younger and future generations are very IP-minded. Networking is simply the force of progress, also in private. IP video is on the rise worldwide.

How about the cost in general?

Dirk Reinders: Looking at our portfolio, HD-SDI technology tends to be even more favorable than IP, although we offer very economic cameras and devices within both product series. Anyhow, the expenses are only one of several decisive factors – the project scale as well as the availability of components from both technologies also play significant roles. Further decision criteria are the available infrastructure and the required expandability of an installation.

Let us look ahead at the future a little bit. In what position within the video surveillance market do you see Everfocus and in which direction do you want to develop?

Dirk Reinders: We still see ourselves as maximum quality provider for the mid price range. Resident in Taiwan and with subsidiaries in the USA, Germany, UK, India, Japan and China, Everfocus works on a global scale – which is both a challenge and an advantage at the same time. We are closely connected and make use of this global competence in our customers' interest. As for our position in the market: we are focusing on further establishing the Everfocus brand as a system and component provider of IP solutions. Besides that, we are positioning ourselves as a provider of economic alternatives to analog business by making use of HD-SDI products. Geographically, Everfocus Germany focuses on the Western European countries such as Germany, Austria, Switzerland and the Benelux states (which we regard as our home markets) as well as Scandinavia and France – not least because of the language skills available at our German location in Emmerich am Rhein.

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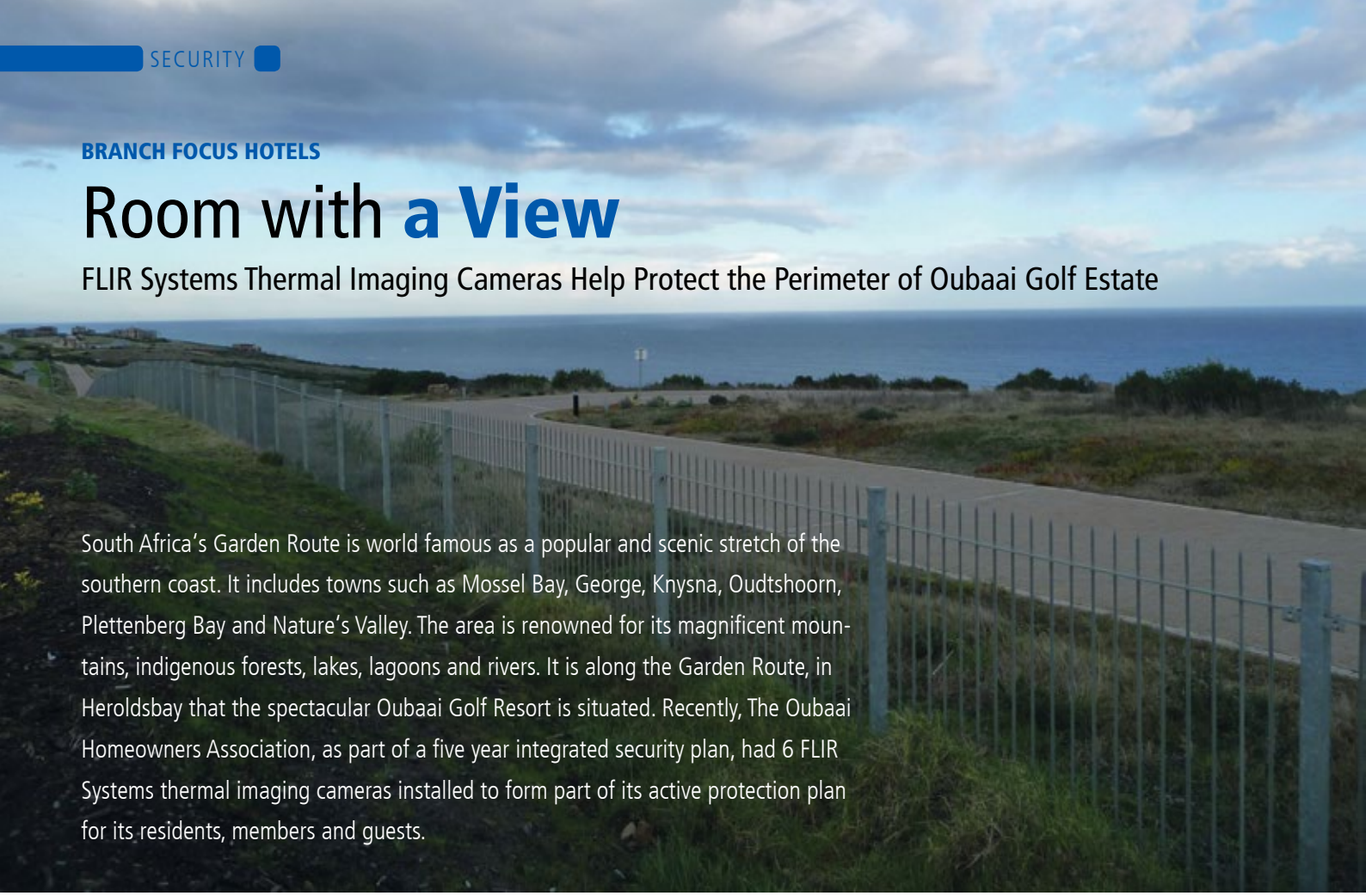
BRANCH FOCUS HOTELS

Room with a View

FLIR Systems Thermal Imaging Cameras Help Protect the Perimeter of Oubaai Golf Estate



South Africa's Garden Route is world famous as a popular and scenic stretch of the southern coast. It includes towns such as Mossel Bay, George, Knysna, Oudtshoorn, Plettenberg Bay and Nature's Valley. The area is renowned for its magnificent mountains, indigenous forests, lakes, lagoons and rivers. It is along the Garden Route, in Heroldsbay that the spectacular Oubaai Golf Resort is situated. Recently, The Oubaai Homeowners Association, as part of a five year integrated security plan, had 6 FLIR Systems thermal imaging cameras installed to form part of its active protection plan for its residents, members and guests.

The exclusive residential development comprises 450 residential units consisting of 128 village apartments and 322 single residential properties. Inside Oubaai, the Hyatt Regency Group is constructing a luxurious 100 bedroom hotel which is opened in 2010. Oubaai Golf Club is a Championship Golf Course designed by the South African golf superstar Ernie Els. He is one of the most successful golfers in the history of the game, having won more than 60 tournaments since turning professional in 1989, including two US Opens, an Open Championship and a record seven World Matchplay titles. Ernie has occupied a place in the world's top 10 for over 730 consecutive weeks, more than any other currently active golfer. Els himself has named Oubaai as his favorite course in the world. Oubaai is a beautiful piece of real estate with spectacular views of the Outeniqua mountains, the Gwaing river with its sweeping valleys and the Indian ocean. The estate borders the Indian Ocean and the Gwaing river just 18km from the picturesque town of George. The nearby beach at Herolds Bay is famous for body boarding, swimming, surfing and sunning.

Security here is of extreme importance. „Although the Garden Route is a relatively safe area to live, definitely compared to other parts of South Africa, we do not want to take any risk at Oubaai", explains Louis Olivier, Estate Manager at Oubaai. "We want all residents, their guests and all the people that come here to enjoy a round of golf at our magnificent course to feel safe and secure. We have therefore taken all the necessary security measurements and installed state-of-the-art security equipment."

A Complete Security Network

"Security at Oubaai starts on arrival at the main entrance", says Andre Steenkamp, Regional Manager of Holbert Boikanyo Technologies, initiator and co-designer of the Oubaai Security System. "Not only are CCTV cameras installed at the entrance but biometric readers are in place to ensure accuracy of the access control function. No-one enters Oubaai before their fingerprint is taken. If they are not a resident and/or a bona fide registered guest on the system, they may not enter. We will notify the people they are coming to visit and they need to confirm that they are expecting a visitor", Andre explains.

One of the Flir Systems PTZ-50 MS thermal imaging cameras overlooking Oubaai.

"But securing an estate of this magnitude means more than just installing equipment at the entrance gate. Without installing ugly fencing, we want to be sure that the entire perimeter is monitored and that we are aware of everyone that is approaching the estate's boundaries. In order to secure the perimeter, I did a thorough study and compared different technologies. Although cost is important when evaluating different systems, my main goal has always been to provide Oubaai with a good solution. In my opinion, saving money on security is not always the best option", Andre continues.

"Although we are using fences at some parts of the perimeter, this is not always the ideal solution. Fences are costly to install since a lot of civil work is required. Furthermore, they are not always the most aesthetic solution at a luxury estate like Oubaai. We also need to keep certain areas of the fence open since animals need to be able to move freely from one area to another.

The Flir PTZ-35x140 MS contains two thermal imaging cameras and one daylight/lowlight camera. It overlooks a big part of the Oubaai estate.

For aesthetic reasons some Flir Systems thermal imaging cameras are mounted on the house instead of a mast.

They do not care about who the land belongs to and they need to be able to roam around freely. Furthermore, if you want to see what is happening around the fence, it needs to be complemented by CCTV cameras and in order to see during the night, CCTV cameras need light. Installing light poles everywhere around the fence is definitely not the correct way to go for an estate like Oubaai. Lighting is considered to be too intrusive by the residents."

Infrared Illumination

"Another technology application we have looked at to secure the perimeter, definitely during the night, is infrared illumination." Infrared illuminators shine infrared radiation into the area in front of a camera. The infrared beamers are often placed around the lens of the camera. The infrared radiation is reflected by objects and human beings and converted to an image which can be displayed on a screen. "The initial cost is reasonable but you need to take into account that you need to replace the beamers regularly. Furthermore, if you want some good range performance, you need to install powerful beamers which consume a lot of power", Andre continues. "And infrared illumination has another major disadvantage. Oubaai is situated close to the sea and we are very often faced with very foggy conditions. When you switch on the infrared illuminators they worsen the effect of the fog. You can not see anything anymore."

Radio Frequency Intruder Detection (RAFID)

"Another technology I looked at is RAFID", says Andre. RAFID uses two specially designed cables – one transmitting a radio wave, the other one receiving that wave. Changes in the amount of signal passing between the transmitter cable and receiver cable are analyzed by a signal processor. If the amount of signal changes, this means that someone or something is between the two cables and an alarm will go off. Due to the difference in the signal strength, the system can detect whether these changes are due to the presence of a human or a small animal, for example.

"RAFID is a more aesthetic solution than a fence but it is a fairly expensive system. Not only are full civil works needed to install the cables, once in operation the system requires a lot of maintenance. And although the system can tell the difference between a man and a small animal entering the security perimeter, a lot of false alarms can happen. This means that the RAFID needs to be complemented with a CCTV system so that an operator can determine if an alarm is false or not", Andre explains.

Thermal Imaging Cameras

"I first came into contact with Tinus Diedericks of Timeless Technologies when I was gathering information about a scanning system that can penetrate fog. Also this technology was not exactly what I was looking for and furthermore it

Covert Night Vision

Flir's LS-Series ultra-compact, hand held thermal night vision cameras require no ambient light to produce a clear image, even in the darkest environments. The cameras can also 'see' through fog, smoke and rain to identify anyone hiding in the shadows, undergrowth or shrubbery. Highly affordable, these units give law enforcement officers and security patrols the ability to see, over distance, without being seen. They provide the information needed for users to make critical decisions, enhance operational efficiency and improve personal safety. Image intensification, also known as I2 technology, requires at least a minimum level of ambient light to operate. It works by amplifying the available light many thousands of times to create a visual image of the target. However, adverse weather conditions can severely limit the effectiveness of these scopes. And conversely, too much light can overwhelm and compromise their performance. **www.flir.com**

Mini Day/Night Vandal Dome Camera

Vivotek has launched a compact design fixed dome camera, FD8151V. With several features such as vandal-proof housing, IR illuminators up to 5 meters, low light capability, built-in microphone, and easy mounting and installation, the camera is suited for a variety of indoor applications. The camera is equipped with a 1.3-Megapixel CMOS sensor enabling the camera to capture 1,280x1,024 resolution video at 30 fps. It supports the industry-standard H.264 compression, significantly reducing file sizes, preserving network bandwidth and storage, and easing system loading without adversely impacting video quality. In addition, the camera is also compatible with MJPEG compression, allowing video streams to be transmitted in either of these formats for versatile applications. The removable IR-cut filter also adds Day and Night functionality so that image quality can be optimized based on lighting conditions. **www.vivotek.com**

Tinus Diedericks, Timeless Technologies – Louis Olivier, Estate Manager at Oubaai – Andre Steenkamp, Regional Manager at Holbert Boikanyo Technologies.

is extremely expensive. Tinus explained to me that he is a distributor of FLIR Systems thermal imaging cameras in South Africa and demonstrated the cameras at Oubaai. I was extremely impressed and learned more about the technology. That the cameras perform well during a clear night was immediately clear to me but I was especially interested in their performance in foggy weather conditions."

"Together with Andre we made an initial study of how many cameras would be needed to secure the perimeter", explains Diedericks. "Andre's initial plan was to install a large number of fixed mounted, short range cameras along the area. We looked at it together and quickly found out that it would be better to install a limited number of longer range cameras of which the majority needed to be installed on a pan/tilt mount. Although we needed to use more expensive thermal imaging cameras to do this, the total investment would be a lot cheaper. Furthermore, since we needed less cameras we did not have to install so many poles to mount the cameras on. This again saved money."

"Now we have completed the first phase of the installation", Andre Steenkamp continues. "Along a big part of the perimeter we have installed multiple cameras. Three PTZ-50 MS cameras are installed that contain both a thermal imaging camera as well as a daylight camera. Both are mounted on a robust pan/tilt mount so that we can look in any direction we want. They provide excellent range performance since they can detect a man-sized target at a distance of almost 800 meters."

"At a longer stretch of the perimeter, we decided to install a the PTZ-35x140 MS camera. This is equipped with two thermal imaging cameras, detects man-sized targets at a distance of over 2 kilometers and has the ability to zoom in on suspect activities. It also contains a daylight/lowlight camera which we can use during the daytime. We have installed the PTZ-35x140 MS in the center of the perimeter. Since it is installed on a pan/tilt, we have the ability to see in whatever direction we want. We can see the fence, across the fairway towards the river, as well as a high risk area along the sea. For two very short stretches along the perimeter we opted for a fixed PatrolIR thermal imaging camera that is always overlooking the same area. Although its range performance is a lot less than the one of the other cameras, it is exactly what I need to guard two very short lines along the perimeter."

"Most of the cameras are installed on a pole. Thanks to the excellent range of the FLIR cameras we did not need to install too many of them. Aesthetics are important here at Oubaai so in order to avoid installing poles as much as possible, two of the thermal imaging cameras have been installed on a house. We talked to the owner, and he preferred that we installed the cameras on his house instead of on a pole. Not only does he not have a mast blocking his view, it is probably the best protected house in the estate as well.

More than Just Security

"The main reason for purchasing the cameras was to secure the Oubaai estate. Once they were installed, it became clear, however, that they can have another, sometimes live-saving function. Just below Oubaai is the sea where people tend to stand on the rocks while fishing and they sometimes forget that the sea is dangerous. Tides can come up very quickly and big waves can be formed. These waves can easily knock people off the rocks into the sea. When an accident happens and we are aware of it, we can easily turn the PTZ-35x140 MS in the direction of the sea. We will communicate with the National Sea Rescue Institute (NSRI) which goes out with special rescue boats to save the person. We can spot the person floating in the water with the thermal imaging camera, almost 2km away and direct the crew of the boat in the right direction."

When asked about the performance of these cameras in foggy weather conditions, Andre is very clear. "The performance of thermal imaging in foggy conditions is extremely good. Although the thermal image is slightly obstructed by the fog and we are not getting the same high quality image that we see during clear weather conditions, we still get good range performance. A person walking around in the fog will be hotter than the cold surroundings. Since this type of camera produces an image based on the small temperature differences they are detecting, we can clearly see people walking around. We might not see all the detail, but we will certainly see that a person is there, and that is the most important thing. To detect intruders in total darkness, in practically all weather conditions, there is no better technology than thermal imaging. Other estates have already come to Oubaai to look at the performance of the FLIR Systems cameras and they were amazed when they saw the clear images they produce. Some other estates along the Garden Route are now thinking about installing thermal imaging as well."

Feeling Safe at Oubaai

"Sometimes when I walk through Oubaai I see houses with the doors wide open. Sometimes expensive material is just standing unprotected in gardens. When we notify the owners that they forgot to close their home they are often very surprised as they do not normally do this. To me, it is however the best proof that all the security we have at the gate and alongside the perimeter works. These cameras definitely contribute a lot to the safety and security we have here at Oubaai", Andre concludes.

Holbert was the first technology installer to utilize FLIR Systems thermal imaging cameras on estates of this magnitude within the Republic of South Africa. The system is user friendly and maximizes the technical aspects without compromising on the staffing quotient, i.e. enough guards, but not too many, which is the design approach that Holbert follows in its estate solutions. The relationship between Timeless Technologies and Holbert Boikanyo Technologies is unique where the distributor and integrator join forces in the research, design, project management and implementation of a tailor-made solution for the customer. As the systems and technologies are installed and implemented, Holbert aligns itself with an organization that can monitor the system and utilize the imaging to its maximum effect, such as in specific control center operations. This ensures a total turnkey solution and peace of mind for the customer.

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ACCESS CONTROL

Reading Danish

‚Future-Proofed' Idesco Access Readers Delight

Danish Industries, a trade organization and employers' association, occupies a prime location in the heart of Copenhagen, Denmark. One of their primary responsibilities is nurturing and maintaining optimum conditions for Danish businesses that are developing, manufacturing and competing at home and abroad. In the course of conceiving the plans for their building's recent renovation, Danish Industries identified a need to replace their former access control system which no longer met their requirements.

A decision was made to replace the access system during renovation. A new, integrated solution featuring intrusion alarm, access control and CCTV, all controlled from a single platform to ease management was required. Danish Industries settled on Schneider Electric to build their system, noting they had the experience and sensitivity to understand the depth of their needs whilst cost-effectively deploying a solution that would be flexible and easily expandable in the future. They chose Schneider's INET system for its flexibility, versatility and ease of management.

Schneider Electric themselves turned to Idesco to supply the access control readers upon which an integral part of their system would depend. Idesco readers had been previously deployed in other solutions and they knew these readers met (and in some cases, surpassed) every requirement of their access control readers. Particularly, they knew the Access 8 CD 2.0 Mifare Desfire readers would enhance their system's expansion convenience and cost-effectiveness because this reader is very easily configured and even more conveniently updated (no uninstallation needed), saving time and money. Danish Industries is now wholly confident of their new system's long life span and low maintenance costs, as well as its security.

Weather Beaters

„We're currently installing 245 access-controlled doors in the Danish Industries building. Everything here is state-of-the-art and somewhat ‚future proof'. That's why we chose to use Idesco's Access 8CD 2.0 Slim Pin readers", noted Schneider's Anders Aagaard. „This type of reader is very easy to configure and re-configure. It manages several different card technologies and in our case, the DESFire technology."

"Our Access 8 CD 2.0 Slim Pin readers are resistant to power fluctuations and also currently have the smallest energy consumption, when compared to other similar readers in the market, which not only affects energy costs but also reduces device costs as a smaller amount of peripheral devices, such as power supplies, are needed", says Jens Holmberg, Business Manager from Idesco. „With high IP classes (IP67), they withstand the frost, dust and moisture of the Danish weather very well, he observes".

In summary, Danish Industries acquired a flexible system at a competitive price, with plenty of room for expansion. Last but not least, they were equally impressed by the aesthetics of their Idesco readers, which they found remarkably modern. „A perfect fit for our new modern house", approved Anne G. Jensen, senior project manager from Danish Industries.

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BRANCH FOCUS HOTELS

Relaxing Security

Discreet Axis Network Cameras Watch Over the Safety of Hotel Guests

Alpina Dolomites Lodge, a recently built tourist accommodation with high-profile clientèle, was faced with the need to have a video surveillance system that could protect the safety of its guests without being invasive of their privacy, and that would fit in perfectly with the modern architecture and design of the complex. Located within a scarcely populated natural park of about 7,000 hectares with nearly no visitors during the low season, the hotel had the need to monitor not only its indoor premises, but also the surrounding area.

The Hotel complex of the Alpina Dolomites Gardena Health Lodge & Spa lies at 1,860 meters above sea level and enjoys a scenic position with a view of the Dolomite plateau of Alpe de Siusi, one of the most beautiful in Europe. Nestled in a natural park of about 7,000 hectares, it is an architectural specimen in perfect harmony with the surrounding environment that offers charming hospitality to guests seeking relaxation and attracted by a wellness lifestyle. In addition to the skiing resort that boasts over 60 km of skiing tracks, the hotel offers its guests a wide range of other services, including the Spa, panoramic swimming pool, saunas, and fitness center.

The chosen system features a Milestone server and 46 Axis network cameras that are particularly compact and discreet. They provide the hotel with an all-round and detailed overview of its narrow and deep areas, such as long indoor corridors, as well as the more spacious ones like the garden and swimming pool. To allow remote monitoring via mobile devices and fixed stations in another building located 27 km away, part of the IP architecture is of type 2x point-to-point redundant wi-fi, capable of supporting flows of high-quality video footage, even over long distances.

Blending In

The implemented solution has become an extremely reliable and discreet video surveillance system which is in no way a nuisance to the hotel guests or a blemish on the overall aesthetics of the facility. The hotel owners can view high-resolution images and monitor the premises anytime from a smartphone or any off-site monitoring station.

The structure required a video surveillance system with aesthetic features that would fit into the refined design of the complex and the elegance of the furnishings, and would not disturb the freedom and peace of the guests. The solution developed by Aviscon uses 46 Axis network cameras connected to a Milestone server that allow for the effective monitoring of both indoor and outdoor areas. Part of the installation was carried out while the hotel was being built, to ensure the security of the construction site where more than 100 workers were present on a daily basis.

Compact Axis cameras were chosen that are capable of producing images with megapixel resolution and HDTV. The nine indoor corridors were each equipped with two 209FD network cameras specifically fitted with long lenses. Their ultra-compact design and depth of only 4 cm made it possible to easily install them on the ceiling, while the optics ensure full coverage of the 45 meter long corridors. For the garage and outdoor premises, the hotel opted for P3344 which, thanks to its wide dynamic range and functionality for both day and night, can produce clear images both during the day and in the total absence of sunlight. The P1344 completes the video surveillance requirements for the outdoor areas. They deliver images with excellent quality and H.264 compression, are protected against dust, rain, snow and sunlight and can work at temperatures as low as -40 °C.

Out and About

To allow the owners the possibility to remotely monitor via mobile and fixed devices installed in another hotel complex located 27 km away, a wi-fi type network architecture was developed with a repeater positioned on the summit of the mountain that physically separates the two locations. The fact that the system includes power over Ethernet and that system alarms are managed via the Milestone server has reduced the need for servicing, while the anti-tampering alarms enable instant detection of any attempts to tamper with the cameras. An added function to read license plates is currently being tested which will soon guarantee further security for the guests who make use of the hotel garage.

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Grundig has added a competitive new IP, Full HD, indoor flat dome to its already comprehensive IP camera range. A key feature of the flat dome is its dual, triple and quad video streaming options at up to 1080p Full HD resolution in H.264 and MJPEG compression modes. This functionality is also found on Grundig's fixed, vandal-resistant and fully functional PTZ domes, box cameras and tube cameras. Progressive scan image processing using a CMOS sensor further enhances image quality.

Grundig's latest IP flat dome: dual, triple and quad video streaming options at up to 1080p Full HD resolution in H.264 and MJPEG compression modes

VIDEO SURVEILLANCE

IP Flat and CS-Mount

Grundig's latest IP flat dome offers 1080p Full HD video and software day/night functionality – Analogue CS-mount cameras with unsurpassed image quality and features

Efficient Transmission – Saving Bandwidth

Roman Reger, product manager at Grundig, explains, "Multiple video stream technology at up to 2MP Full HD is found across most of our IP camera range, even with our cost-effective flat dome. We have enabled up to four independent video streams to be processed simultaneously, at up to 30FPS. This allows efficient video transmission and storage, whilst saving network bandwidth. The 2MP stream is ideal for recording and the lower resolution, D1 or CIF video streams, are optimized for viewing on monitors or smartphones.

"The flat dome camera also benefits from Progressive Scan technology. Here, each complete image in the video stream is updated at 30 FPS, rather than only alternate lines of the image as found in the more commonly used Interlace technology. This also creates less motion blur. The flat dome video format is 16:9, which can be rotated through 90° to provide portrait or landscape views. The portrait setting is particularly relevant for narrow fields of view like corridors, stairs and passageways."

Five privacy zones, motion detection and Micro SD / SDHC recording are included and image quality has been further enhanced with ATW, WDR and DNR functionality.

CS-Mount Box Cameras For Day/Night

Already in October 2012 Grundig's range of analogue CS-mount box cameras came in soft day/night and true day/night models with low voltage, 12/24V and mains, 230V variants. The soft day/night version has 650TVL resolution and the true day/night model

Standalone NVR: "Best New Product" At Moscow's All-Over IP Exhibition And Forum

Grundig attended the "All over IP" exhibition and forum, in Moscow in November 2012, which is supported by many of the world's leading security product manufacturers including Axis, Sony, Samsung, Panasonic and JVC. Key decision-makers from Russia's leading system integrators and end-users visit the show to evaluate the latest product and service developments in the security industry.

It was within this highly competitive environment that Grundig was announced winner in the "Best New Product" category at the show, for its ground-breaking, standalone NVR range.

With 4, 8 and 16 channel options, the NVR range leads the industry with its Full HD, 1080p (1920 x 1080 pixels) resolution video at 25 FPS per channel, in both live and playback modes. An embedded Linux operating system, developed by Grundig to provide a secure, stable and reliable platform, is tailored to the unique demands of security system applications.

"The specification is amongst the best in the industry," explains Andreas Kronwald, product manager responsible for the NVR development. "Video quality and simple installation have been the focus of our entire new product development process. Indeed, it was the NVR's simple installation in end-to-end IP applications that really impressed the judges. Each NVR comes with a built-in PoE switch, allowing direct IP camera connection. Grundig IP cameras are auto-detected and auto-configured by the NVR, including applying IP addresses and configuring the video streams. This feature, combined with pre-defined, default recording settings in the NVR which are suitable for a majority of CCTV applications, ensures a complete Grundig CCTV system can be set up and commissioned in minutes, with no specific IT training required."

Standard functionality includes PTZ control, "Smart Timeline", 3 click export for back up to USB or FTP, event and thumbnail search, automatic archiving of critical data and remote access. User access management is for up to 8 user clients, as well as flexible event activation by motion, alarm, video-loss and system alerts.

Connections include up to 16 Ethernet video inputs, HDMI video output, up to 16 IP audio input channels with one RCA output.

Analogue CS-mount box cameras: soft day/night and true day/night models

CS-mount box camera back: designed and built to the high standards and quality we expect of the German manufacturer

with IR cut filter, offers 650TVL in colour and 700TVL in black and white. Both use high-quality Sony sensor technology.

Standard features across the range include digital noise reduction (DNR), backlight compensation (BLC), auto-gain control (AGC) and Highlight Compensation (HLC). This new feature converts peaks of bright light or dark areas within a video image to grey, improving image processing quality in extremes of light and dark. Motion detection and manual or DC iris lens control is also standard, along with an on-screen display (OSD) menu in 7 language options.

The soft day/night sensitivity is 0.01 Lux with four privacy zones. The true day/night model adds 0.001 Lux sensitivity in night-time mode and has up to 15 privacy zones. This model also includes wide dynamic range (WDR), multi-level DNR and digital image stabilisation (DIS).

Grundig's new analogue CS-mount box cameras have been designed and built to the high standards and quality we expect of the German manufacturer.

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Concourse 3, Terminal 3 was part of a multibillion dollar program to upgrade and extend Dubai International Airport

ACCESS CONTROL

Security for Dubai Airport

Dubai International Airport, Concourse 3, Terminal 3 Opens with CEM AC2000 Security Solution

The aviation-renowned AC2000 security management system from CEM Systems, part of Tyco Security Products, has been successfully installed at the new Concourse 3 Terminal 3 in Dubai International Airport. The system was delivered by CEM business partners in UAE, Tyco Fire & Security UAE LLC and was chosen to ensure the highest level of security.

Concourse 3, Terminal 3 was part of a multi-billion dollar program to upgrade and extend Dubai International Airport, making it one of the world's largest airports by 2025. The advanced Terminal 3 complex is reportedly the world's first purpose-built A380 facility, with Concourse 3 alone built to accommodate 18 aircraft stands for exclusive use by Emirates and the Airbus A380 superjumbo. "We have worked closely with CEM and Dubai International Airport on providing a highly secure and fully integrated solution for the Concourse 3 Terminal", said Craig Menzies, Security Division Manager, Tyco Fire & Security UAE LLC. "Over 1200 smart card readers were installed to secure airside and landside doors within the airport, with a high-level AC2000 video interface for Dubai International Airport's preferred video product".

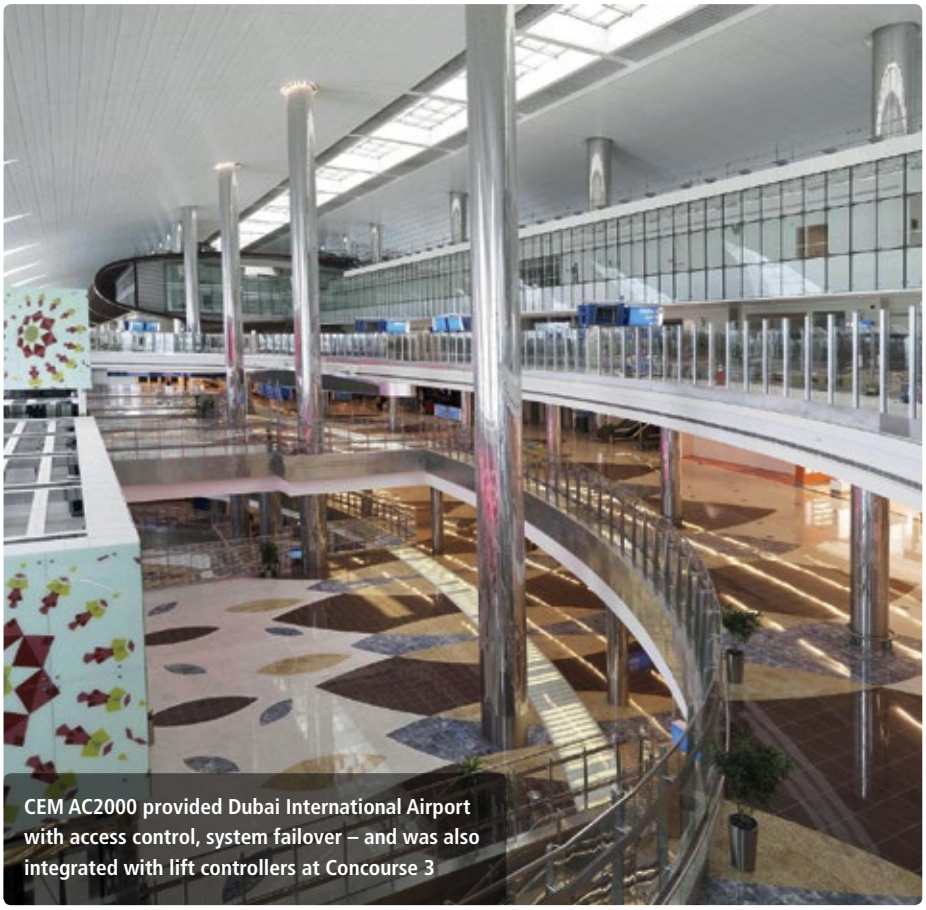
Central Command And Control

The AC2000 video interface provides the ability to associate access control alarms with real-time or pre-recorded digital video clips. This enables AC2000 to act as the central command and control for alarm management. "Dubai International Airport joins some of the world's most prestigious aviation sites by selecting the CEM AC2000 system to secure Concourse 3, Terminal 3" said Philip Verner, Regional Sales Director EMEA, CEM Systems. "As one of the world's largest and most progressive airports, we are proud that Dubai International Airport has selected a CEM solution and we look forward to working in partnership with them on their future development plans."

The powerful CEM AC2000 system has a proven record as one of the most reliable and resilient security solutions available. It not only provided Dubai International Airport with advanced access control and system failover, but was also integrated with lift controllers at Concourse 3 to allow seamless control and monitoring of access to 11 floors.

Enabling Fire Alarms

CEM also developed a two-way BACnet interface to enable fire alarms to be managed on the main AC2000 alarm handling graphical user



CEM AC2000 provided Dubai International Airport with access control, system failover – and was also integrated with lift controllers at Concourse 3

interface (GUI). With one fully integrated, powerful platform for video, access and fire alarm management, the customer has a central view of all alarms throughout Concourse 3. Responsive to the needs of the project, CEM also provided an innovative Boarding and Deplaning Route Management (BDRM) solution to aid the flow of arriving and departing passengers and support the extensive use of double boarding bridges for the A380.

CEM Systems, part of Tyco Security Products, provides highly advanced security management solutions which include integrated access control, ID badging, alarm monitoring, people counting systems and the industry's most advanced and flexible range of card readers. From a small facility to a large multi-site facility the sophisticated AC2000 access control system and advanced CEM products provide a solution to meet even the most complex needs. Each CEM system can be customized to specifically fit the needs of each individual customer.

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VIDEO SURVEILLANCE

Güvenlik´de enerji

Recorder Modernization Lays Incremental Hardware Upgrade Path

Established in 1954, today the Turkish Petroleum Corporation (TPAO) has a staff of over 1,600 employees in Ankara alone and more than 4,700 throughout Turkey. Their primary activities include exploring oil and natural gas reserves, drilling, executing pipeline projects, storing natural gas as well as trading in oil, including distribution and transportation. For many years the TPAO has used recording devices by Dallmeier and when the system was recently expanded, the decision fell once again to recording servers by the German CCTV IP specialists.

Dallmeier recorders have been in use in the headquarters in Ankara for many years, for reliable surveillance of entrances and exits, the individual floors of the building and the lifts. But the existing system was in need of modernization and expansion. "What we wanted were high-quality recording devices," explains Tahir Can, Security Manager of TPAO. "We have been working with Dallmeier recorders for many years and have never had any problems."

That is why, when the time came for new devices, the DMS 2400 was selected, a server device with a multi-core CPU and 2x 3.5" HDDs. The operating system of the 3HU high appliance is held on flash memory for the highest system stability while a sophisticated hardware concept and coordinated components allow a high recording speed. The hard disk drives can be easily and conveniently changed from the front of the device should a drive fail. The SMAVIA Recording Server Software is conveniently already preloaded and supports standard resolutions as well as Full-HD (up to 1,080p) and up to 8 megapixels.

The local installation and commissioning partner, Ni-Ti Elektronik Güvenlik Sistemleri, were contracted to install the new system. Tahir Can is very satisfied with them as well: "The technical service provided by Ni-Ti Elektronik has always been excellent and we have always kept in touch. That is why we wanted to work together with Dallmeier and Ni-Ti again when we upgraded our video system."

Evaluation with Smavia Viewing Client

The evaluation of live and recorded images is done with the Smavia viewing client, a video IP client software for the independent and convenient evaluation of recordings via Ethernet. One of the features is the so-called Smart Finder, a system designed for the intelligent search of movement within any given area of an image. It provides goal-oriented, fast and efficient evaluation of recorded video streams.

Searching for images with captured motion is easy and uncomplicated: the operator uses the mouse to drag a rectangle within the image, marking the relevant area. Even for long durations, Smart Finder is able to locate and list the sequences with captured motion within seconds. The initial results may be viewed and examined immediately, even while the system is still searching.

Fit for HD

With the new Smavia appliances TPAO is also fit for high-definition. Ilker Ipek (CEO) and Onur Bursali (Foreign Trade Specialist) at Ni-Ti Elektronik explain: "The existing analog cameras, which were also re-integrated into the new system, can now be gradually replaced with HD network cameras. This migration concept is ideal for TPAO."

But we owe it to the interested reader to mention one more thing: the title of our article "Güvenlik'de enerji" means 'security of energy' – and in the case of TPAO we can happily continue to assume this is true.

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In Focus: Sony SNC-VB-630

The SNC-VB630 fixed network camera has a range of new functions on the basis of the new Exmor CMOS sensor. The image processing is improved by View-DR to provide clear images under strong backlighting or high-contrast conditions. XDNR technology (eXcellent Dynamic Noise Reduction) is used to reduce image noise. It provides clear, low-noise images at low light levels. The built-in video and audio analysis has been improved by additional functions such as face recognition and the recognition of unattended and removed objects. The SNC-VB630 has a sensitivity level that is more than twice that of the cameras of the 5th Sony generation.

CAMERA TEST

Performance

Performance assessment when used with 1,000 Lux
In good lighting situations the camera delivers a high contrast image. The colors are clear and displayed with just a slight yellow tint. The sharpness is very good and moving objects are also shown without smearing. No image noise is visible.

Performance assessment when used with less than 1,000 Lux
The good image quality is maintained even under weak lighting conditions. With continuously reducing lighting of the scene the camera constantly provides good images that are still sharp and full of contrast, even below 10 Lux. Below this level a slight but acceptable increase of movement blur and of image noise is noticeable. At 0.5 Lux the camera automatically switches into night mode (B/W images) and delivers a generally clear picture. Image noise can be seen here only on moving objects as the XDNR noise suppression apparently doesn't cut in to full effect. Object contours can still be seen in the image even under minimal lighting (just over 0 Lux).

Performance assessment in backlight situations
Thanks to View DR Wide Dynamic Range technology developed by Sony, the camera has a generally very good performance under backlighting. Under sudden backlight in otherwise dark conditions a stable b/w image is given after just 3 seconds, and 3 seconds later it switches to color mode. In both cases blurring of the backlight source remains limited and background details can be easily recognized.

Performance assessment in use: Bandwidth measurement
The camera was tested at a constant data rate of 4 MBit, although it would also support dynamic data rates. The bandwidth demand was relatively constant at 4.45 MBit, although a brief peak to 6.36 MBit was noticed under backlight conditions.

Conclusion
This day/night fixed camera from Sony's sixth product generation impresses with its good image quality even in low light level conditions and backlight situations. In addition the maximum frame rate of 60 images per second is also excellent. The device is supplied with power via PoE and has an SD card slot. The SNC-VB630 is ONVIF compatible (ONVIF Profile S) and provides camera-based video and audio analysis functions.

Technical data for the camera test

Manufacturer	Sony
Model	SNC-VB 630
Firmware version	1.3.0
Distance to test chart	0.7 m
Lens used	Fujinon DC MP ½.7" 2,8-8mm F1.3
*Focal length set	6 mm
*Compression method	H.264
*Max. Resolution	1920 x 1080
*Compression	–
I-Frame-interval	1 second
Max. stream bandwidth	32,000 kbit/s
Measured frame rate	30 fps
Average bandwidth	4.45 Mbit/s

* The camera was integrated into the test system using ‚default' settings and modified with the test criteria listed above.

Assessment with differing illumination conditions

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

Assessment according to the following grades: 1 (Excellent) 2 (good), 3 (average), 4 satisfactory), 5 (limited), 6 (poor). BL= Backlight *in the beam of a white light LED

Test the Best!

Seetec and GIT SECURITY test video cameras in the test lab of the Hardware Competence Center at SeeTec under standardized conditions. The results provide a solid basis for the planning of IP video projects and help to avoid embarrassing surprises. For the test procedure video sequences are created under various different fixed lighting conditions and subsequently evaluated. Movement in the picture as well as night and backlight conditions are also included.

In Focus: Panasonic WV SP508

The WV-SP508 network camera from Panasonic is equipped for day/night operation with automatic back focus and a 3.1 megapixel sensor. The newly-developed MOS sensor delivers high-quality Full HD images in separate H.264 and JPEG streams. The Mega Super Dynamic technology enables the camera to attain a 128-times dynamic range. With its large range of functions, the SP508 is the most intelligent camera from Panasonic to date. The camera adjusts the focus automatically through face recognition so that a person can be recognized within the viewing area, and can raise an alarm by passing with XML data to a compatible recorder. Installation is simplified by the Auto Back Focus feature and VIQS (Variable Image Quality on Specified Area) is the innovation in the Smart HD product range that permits the definition of specific areas of the image to be adjusted and thereby to reduce the amount of bandwidth required.

CAMERA TEST

Performance

Performance assessment when used with 1,000 Lux
With good illumination of the scenery the camera delivers a clear, contrast rich picture. The color reproduction is good, although a slight red tint is visible. Static objects are shown sharp; smearing effects on moving objects hardly appear at all.

Performance assessment when used with less than 1,000 Lux
Very little difference to the image quality is noticeable when the light level sinks down to 10 Lux. The camera image remains clear and full of contrast, although a slight increase in image noise and slightly more noticeable smearing of moving objects can be seen. The picture quality reduces noticeably in particular under 5 Lux, and particularly the sharpness and color reproduction (reducing intensity) worsen. At 0.5 Lux the camera finally switches over to b/w mode. There is a noticeable noise level here and the differentiation of the contrast values reduces (light gray/color tones are just shown as white).

Performance assessment in backlight situations
The time taken for the camera to adjust under suddenly occurring backlight in dark surroundings is acceptable – a stable image is provided after about three seconds. A short time later the camera also switches to color mode. Details in the image background (test chart) are visible, whereby the backlight source is noticeably burnt. Moving objects are shown without any significant smearing.

Performance assessment in use: Bandwidth measurement
The camera was tested at a fixed bit rate of 4 MBit. The bandwidth used was in general very linear at 4.3 MBit, the higher average value of 7.1 MBit can be explained by the significant peaks in the bandwidth used of up to 15.3 MBit in low light level operation at 0.5 Lux as well as during backlight.

Conclusion
The day/night fixed camera delivery good images particularly under good illumination of the scenery. It is powered via PoE, supports multi-streaming and is ONVIF compatible. In addition it also has camera-based movement recognition and permits the masking of restricted zones directly on the device.

Technical data for the camera test

Manufacturer	Panasonic
Model	WV-SP508
Firmware version	1.05
Distance to test chart	0.7 m
Lens used	Fujinon DC MP ½.7" 2,8-8mm F1.3
* Focal length set	6 mm
*Compression method	H.264
*Resolution	1920 x 1080
*Compression	–
I-Frame-interval	1 second
Max. stream bandwidth	4,096 kbit/s
Measured frame rate	30 fps
Average bandwidth	7.1 Mbit/s

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

Assessment with differing illumination conditions

Criteria | Lux values	1000 Lux	100 Lux	10 Lux	0,5 Lux	0 Lux + *BL1
Colours	1.5	1.5	2	b/w	2.5
Contrast	1.5	1.5	1.5	3.5	2.5
Focus	2	2	2	3	2.5
Motion sharpness	2	2	2.5	2.5	2
Image noise	1.5	1.5	2	4	2.5
Recovery from backlight	–	–	–	–	3
Performance against backlight	–	–	–	–	2.5

Assessment was performed according to the rating system of 1 (very good) to 6 (unsatisfactory).
BL= Backlight *in the beam of a white light LED

Fixed Cube Camera

Riva's fixed cube camera RCC100HD is a high-performance HD network camera in a compact design with additional IR sensor. It has been designed for indoor applications and is suitable for operations in smaller shops and in privacy. Equipped with the intelligent onboard video analysis VCA – powered by VCA Technology – the camera is optionally upgradable by additional VCA filters for individual requirements. Offering H.264/MJPEG compression, it achieves a frame rate of up to 30 fps at 720p resolution. Furthermore, the cube camera with 2-way audio support contains a built-in microphone and speaker as well as a mechanical privacy shutter of the camera lens. The camera is easy to install and offers both, WIFI and LAN connectivity. Additional features, such as

digital in-/output, alarm notification via email with attached snapshot or infrared light sensor PIR for motion detection, are also included. Besides, the cube camera supports ONVIF compatibility for easy system integration. **www.rivatech.de**

IP Cameras with Edge Storage

Basler has started series production of their IP box cameras with edge storage functionality. From now on, all the Company's IP Cameras will be equipped with an SD card slot. The integrated Micro-SDHC card slot provides for local data storage of up to 32GB. This functionality makes it possible to store live streams or single camera images in configurable time intervals on an SD card. In case of a network failure, the camera acts as a backup solution by recording video streams to the SD card. When the network connection has been restored, the video management system can retrieve the data and merge it seamlessly with video footage captured

before the connection was interrupted. When using an efficient encoder type such as H.264 and a high-capacity SD card, a IP Camera can independently capture and store images for an extended period of time without transmitting data back to a client. This is especially useful in remote surveillance locations, since the camera will not require any network connection.

sales.europe@baslerweb.com

Outdoor Wireless Detectors

Redwall's SIP-3020WFLT and SIP-4010WFLT are outdoor wireless detectors designed to cover a detection area of 30mx20m or 40x10m and to be used mainly where seamless integration with CCTV systems is required. These detectors are pre-fitted with a long life Saft battery and a Luminite wireless radio-frequency (RF) transmitter. The detectors feature an intelligent detection system that monitors the temperature and the illuminance of the ambient environment and automatically adjust the sensitivity. They are also equipped with anti-rotation, anti-masking functions in addition to the anti-tamper feature which provides further security. They can be used in conjunction with the company's LGMT434 (Masthead) and LGRU16 (16 Channel Relay controller) or the LGMRU4X4 (Masthead+ 4 channel outputs), to form a complete radio-linked system.

www.optex-europe.com

HD Bullet Camera

Avigilon's 1MP, 2MP, 3MP and 5MP HD Bullet cameras offer effective illumination by implementation of adaptive infrared (IR) technology. Delivering two times further vision, the HD Bullet camera captures very high detail in complete darkness without a visible light source. The most effective use of IR power, the HD Bullet camera's fully motorized lens adapts to changing conditions within a scene so images are never saturated and always sharp. The 1MP, 2MP and 3MP also come with a powerful in-sensor Wide Dynamic Range (WDR)

capability. Designed for all outdoor environments, the HD Bullet camera is easy to install and provides discreet surveillance.

www.avigilon.com

High-Performance-NVRs

Geutebruck has introduced its G-Scope/1000 series of high performance NVRs with enhanced temperature stability and compact, 302x250mmx2HU cases. Equipped with a 1TB database and suited for building into ATMs or fitting in confined spaces, they also provide an attractively priced option for retail outlets and other monitoring operations with just a few video cameras.

The G-Scope/1044 processes up to four analog and two IP video sources at once, while its pure IP equivalent, the G-Scope/1006 supports up to 6 IP inputs. **www.geutebrueck.com**

Full HD Speed Dome

Riva´s Full HD Speed Dome IP camera for indoor/outdoor applications offers H.264 compression and achieves a frame rate of up to 30 fps at 1080p resolution. The 360° endless rotation speed dome is equipped with intelligent onboard video analytics – powered by VCA Technology – as a standard and can be upgraded by additional filters for individual requirements. Riva´s PTZ dome with 20x optical and 8x digital zoom controls pan/tilt speed while zooming. Furthermore, it guarantees high system accuracy.

info@rivatech.de

HD IP Bullet Camera

LG are pleased to introduce a new ONVIF compliant PoE Network Bullet camera to their range, combining strength and style with all the benefits of IP network performance in a vandal-resistant IP66 housing. Built-in LED IR with a range

of 30m gives great night-time images whatever the ambient light level. True ICR 1.3 Megapixel camera, with HD quality images (720p), Real-time streaming (30fps) and Wide Dynamic Range combined with Adaptive Contrast Enhancement provides sharper definition images with a higher contrast ratio under a wide variety of lighting conditions. The built-in SD card recording facility assures the user that even should a network failure occur, images will still be recorded locally at the camera which can then be downloaded when networks communications resume. Motion detection or other local events can all be recorded to SD card. Added features such as the Embedded Video Content Analytics make the LNU5100R an incredibly versatile camera for all conditions. **info@eu-sp.com**

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Website: www.ifsec.co.uk

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