

Security Solutions Today

May / June 2015

RETAIL & HOSPITALITY

Cover Focus

A Safe & Pleasant Hotel Stay - Completely Protected From Fire

Security Feature

Bosch Video Surveillance Solutions For The SMB Market & more...

In Focus

***An Interview With Dr. Madan Oberoi, Director Of Cyber Innovation
& Outreach Directorate At INTERPOL Global Complex
For Innovation, Singapore***

Show Preview & Review

***Secutech Taipei 2015
Global Security Asia 2015***



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1080P(HDCVI)

960H

D1

i ♥ HDCVI

the Best and True Analogue HD

Highlights:

High Definition Composite Video Interface (HDCVI)

- Support Tribrid (Analogue, HDCVI, IP) video input
- 1080P Series: 25/30fps@1080P, 25/30/50/60fps@720P
- 720P Series: 25/30/50/60fps@720P, 12/15fps@1080P
- OSD Menu (Multi-language)
- HD/SD Switch
- Long-distance Transmission: RG59 (500m), RG60 (700m)
- Support UTP transmission, up to 200+m
- HD CCTV Alliance 2.0 standard

Recommended models:



4/8/16CH 720P-Pro 1U Tribrid (Analog/IP/HDCVI) DVR
HCVR5204 5208 5216A-S2



4/8CH 1080P 1U Tribrid (Analog/IP/HDCVI) DVR
HCVR7204 7208A-S2



1080P Water-proof IR HDCVI Motorized Lens IR-Bullet Camera
HAC-HFW2220R-Z



1080P Water-proof IR HDCVI Motorized Lens IR-Dome Camera
HAC-HDBW2220R-Z



1080P Full HD 30X HDCVI PTZ Dome Camera
SD50230I-HC



2Mp HD 30X HDCVI IR PTZ Dome Camera
SD6A230I-HC

CE FC RoHS ISO 9001:2000

secutech SECUTECH TAIPEI 2015
28 - 30 Apr 2015 Taipei, Taiwan
Booth: NO.4141

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The World's **Sixth Sense**

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Delivering sharper images with higher sensitivity. Featuring a more intelligent solution. Introducing the 9 Megapixel 360-degree Network Camera!

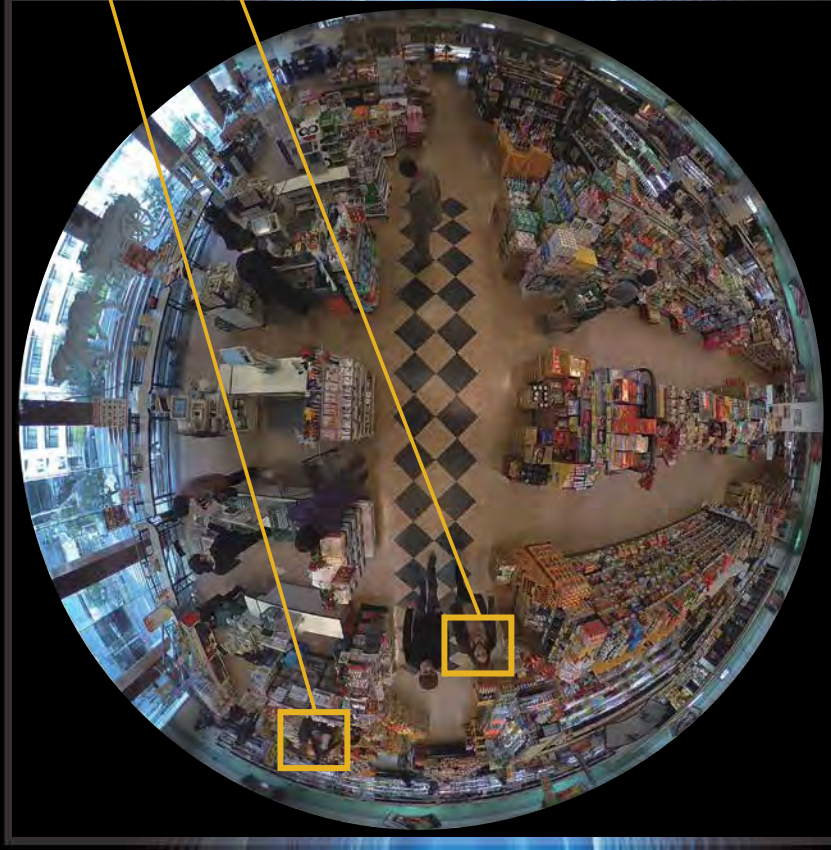
i-PRO
SmartHD

ULTRA **360**

360-degree Vandal Resistant
Outdoor Dome
9 Megapixel Network Camera
WV-SFV481



360-degree Indoor Dome
9 Megapixel Network Camera
WV-SFN480

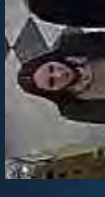
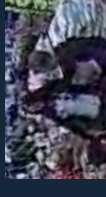


*Sample screen from 9M Fisheye mode

● **9M (3K x 3K) high-resolution performance enables sharp rendering of objects and people's faces at the edge sections of the fisheye image.**

WV-SFN480

WV-SFV481



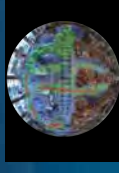
8 m

4 m

● **Complete with powerful intelligent functions**

Heat-map

This provides visualization of the traffic patterns by people and how long they stay in one place. For example, you can place products based on how people tend to flow within the store and arrange objects so that they do not interfere with the movement of people.



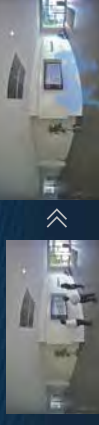
People Counting

This counts the number of people passing through a selected preset location. The People Counting function can provide statistics on the number of people entering and leaving a specific zone and other useful data.



MOR (Moving Object Remover)

Enables monitoring of changes only to the surrounding environment by removing people and other moving objects from the video. This function can be used with camera images for confirming how products placed in a salesroom are selling while also respecting the privacy of customers in store surveillance.



4K
ULTRA HD

ENGINE

Introducing 360-degree network cameras incorporating a new platform with a 12-megapixel high sensitivity sensor in the i-PRO SmartHD Series. The ULTRA 360-degree lineup features the "Three Ultras" for establishing a new standard for video monitoring.

01 Ultra High Resolution

02 Ultra High Sensitivity

03 Ultra Intelligent

Includes a 12-megapixel high-sensitivity sensor capable of 4K image output for producing high-resolution images up to 9M (3K x 3K) in Fisheye mode.

Detailed monitoring in all directions using the wide range of distribution modes and Multi-stream. (Fisheye mode, Panorama mode, Double Panorama mode, Quad PTZ mode, Single PTZ mode, 4 Stream mode)

Provides natural-looking, crystal-clear images even in dim locations.

Includes a new powerful image sensor and new lens.

Automatic switching between day/night shooting modes and the linked Auto Back Focus enables monitoring even in dim environments.

Heat-map / People Counting (Cross line) / MOR (Moving Object Remover)

Focuses on the movement of people for providing a video-based intelligent solution for use in marketing.

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Tel: +65 6270 0110 Fax: +65 6276 0330 E-mail: biz.prod@sg.panasonic.com

<http://security.panasonic.com>



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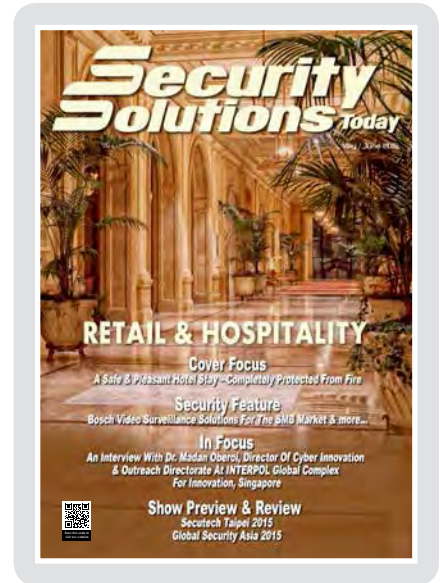
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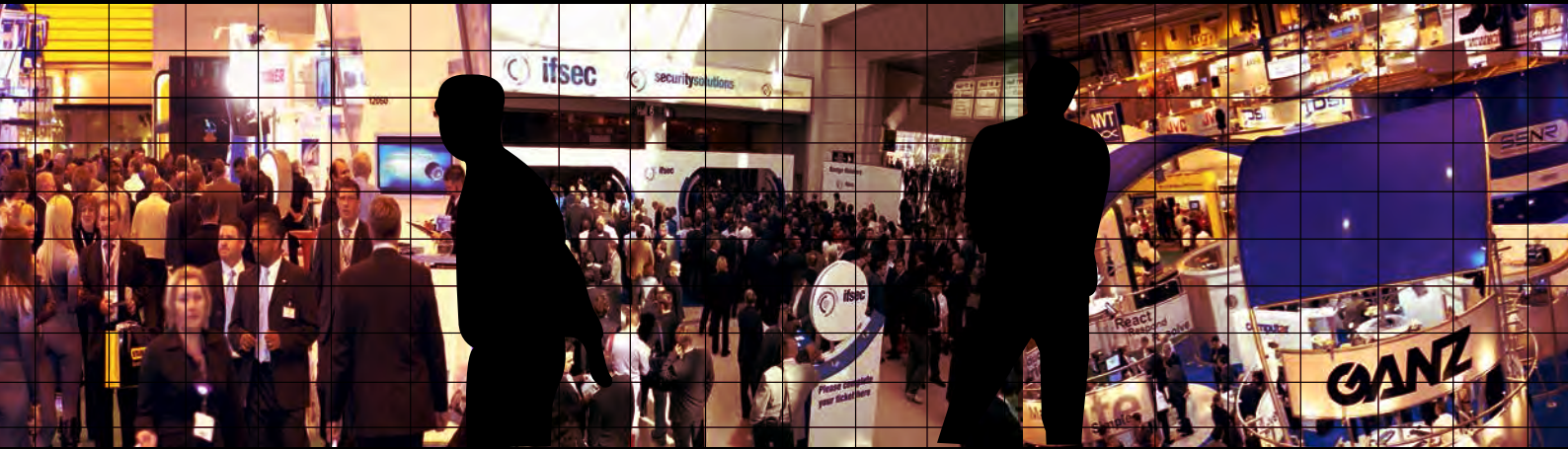
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transport 5-8 MAY 2015
logistic Munich, Germany Booth No.: B6, 106

IFSEC International 16-18 June, 2015
London, Britain Booth No.: E555

Calendar Of Events



Secutech Vietnam 2015

Date: 18 – 20 August 2015
Venue: Saigon Exhibition & Convention Center (SECC), Ho Chi Minh City, Vietnam
Contact: Eva Tsai
Organiser: Messe Frankfurt New Era Business Media Ltd
Tel: (886) 2 2659 9080 ext. 668
Email: stvn@newera.messefrankfurt.com
Website: www.secutechvietnam.com

IFSEC SEA 2015

Date: 2 – 4 September 2015
Venue: Kuala Lumpur Convention Centre
Contact: TJ Tan
Organiser: UBM United Business Media Malaysia
Tel: +6-03-2176 8788
Email: TJ.Tan@ubm.com
Website: www.ifsecsea.com

Myanmar Security Expo 2015

Date: 2 – 4 September 2015
Venue: Tatmadaw Hall, Yangon
Contact: Michael Ng
Organiser: MP International (MPI) group
Tel: +65 6393 0251
Email: michaelng@mpinetwork.com
Website: www.securityexpomyanmar.com

Safety & Security Asia 2015

Date: 29 September – 1 October 2015
Venue: Marina Bay Sands, Singapore
Contact: Christine Sim
Organiser: Conference & Exhibition Management Services Pte Ltd
Tel: + 65 6278 8666
Email: SSA@cems.com.sg
Website: www.safetyssecurityasia.com.sg



Security Solutions Today

Security Solutions Today (SST) is a leading publication on the latest security information, trends and technology, and products that include Access Control, CCTV/ IP Surveillance, Intrusion Detection and Integrated Security Systems.



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SST is packed with the latest developments in security technologies and trends, events, previews and reviews of major global trade shows, product launches and security installations worldwide.

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Editor's Note



Dear Readers,

Is it just me or has the year flown right by? I can't believe that we are already halfway through the year!

Putting the May/June issue together has been pretty bittersweet for me as this will be my very last issue as Editor of SST. The last 22 months have been great and I have truly enjoyed exploring cutting edge technology and 21st Century concepts on Security with you. I've come to embrace all things Security and I daresay it has changed the way I look at the world.

This issue looks at the world of Retail & Hospitality. Our Cover Story, brought to you by Markus Späni from Siemens Building Technologies, explores in-depth methods that hotels can implement in order to prevent fires and ensure the safety and security of their guests at all times (pg 22).

I am also so excited to include my exclusive interview with Dr. Madan Oberoi, Director of Cyber Innovation & Outreach Directorate at INTERPOL Global Complex For Innovation, Singapore (pg 96).

This issue includes coverage of shows such as Secutech Taipei 2015 and Global Security Asia 2015 as well (pg 123).

It has truly been a pleasure being the Editor of SST. I would like to thank all advertisers and contributors for your support. I have had a great time working with you and hope to collaborate with you again in the near future.

I leave you in the capable hands of our new Editor, Ms Ain Ebrahim.

Happy reading!

Sharon Kaur
Editor



SINGAPORE SPORTS HUB*
Delta DSC2000 Barricades



UK EMBASSY, BUDAPEST
Delta DSC1100 Barricade



BERTH LIMA-SAN DIEGO
Delta TT280 Linear Crash Gate



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DSC501 Barricade



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Delta DSC720 Bollards



U.S. DEPARTMENT OF STATE
Delta TT210 Bollards



**SOCIAL SECURITY
BUILDING, DC**
Delta IP500 Portable Barrier



LOS ANGELES INTL. AIRPORT
Delta SC3000 Sliding Gate



U.S. EMBASSY, YEMEN
Delta DSC501 Barricade



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*Photo courtesy of VSL Infrastructure Protection, Installer

Axis Announces Zipstream Compression Technology, Reducing Storage Requirements By An Average 50 Per cent Or More In Video Surveillance Applications

Axis Communications, the market leader in network video, has just unveiled its Zipstream technology which allows customers to benefit from reduced bandwidth and storage requirements without having to invest in new cameras or software. Axis' Zipstream technology is fully compatible with the widely adopted H.264 compression standard. The technology has been developed specifically for video surveillance applications and lowers bandwidth and storage requirements by an average 50 per cent or more.

"Significant progress towards better image quality with higher HDTV resolutions and increased low-light performance has also increased the requirements on the network and storage infrastructure. With Axis' Zipstream technology we enable our customers to drastically reduce bandwidth and storage needs without compromising on important image details. For example, more than twice the video footage can now be stored on SD cards or NAS's in small systems built on AXIS Camera Companion as well as other edge recording applications," said Johan Paulsson, chief technology officer, Axis Communications. "Axis' Zipstream technology adds a new module inside the network camera's video compression engine which ensures that important details in the image get enough attention in the video stream while unnecessary data can be squeezed."

Axis' Zipstream technology analyses and optimises the network camera's video stream in real time. Scenes containing interesting details are recorded in full image quality and resolution while other areas are filtered out, to optimally use available bandwidth and storage. Important forensic details like faces, tattoos or license plates are isolated and preserved, while irrelevant areas such as white walls, lawns and vegetation are sacrificed by smoothing in order to achieve the better storage savings.

Customers can use Axis' Zipstream technology alongside other Axis network camera technologies such as Wide Dynamic Range - Forensic Capture and Lightfinder. As Zipstream is fully compatible with H.264 and can be used with AXIS Camera Station, AXIS Camera Companion and third-party video management software installations already in place.

Axis is making available its Zipstream technology on the existing network cameras AXIS Q1615, AXIS Q1635 and in the AXIS Q35 Series, via firmware updates. The first new products with Axis' Zipstream installed are planned to be AXIS M1124/-E, AXIS M1125/-E and AXIS P1365/-E fixed network cameras, and AXIS P3224-LV/-LVE and AXIS P3225-LV/-LVE fixed dome network cameras.

For more information, please visit: www.axis.com **SST**



Regular video stream at 1254 kbit/s



Axis' Zipstream technology at 601 kbit/s

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Integrated Security Systems

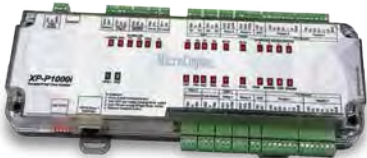
The Trusted Brand in Security Solutions

Plato DesFire Reader



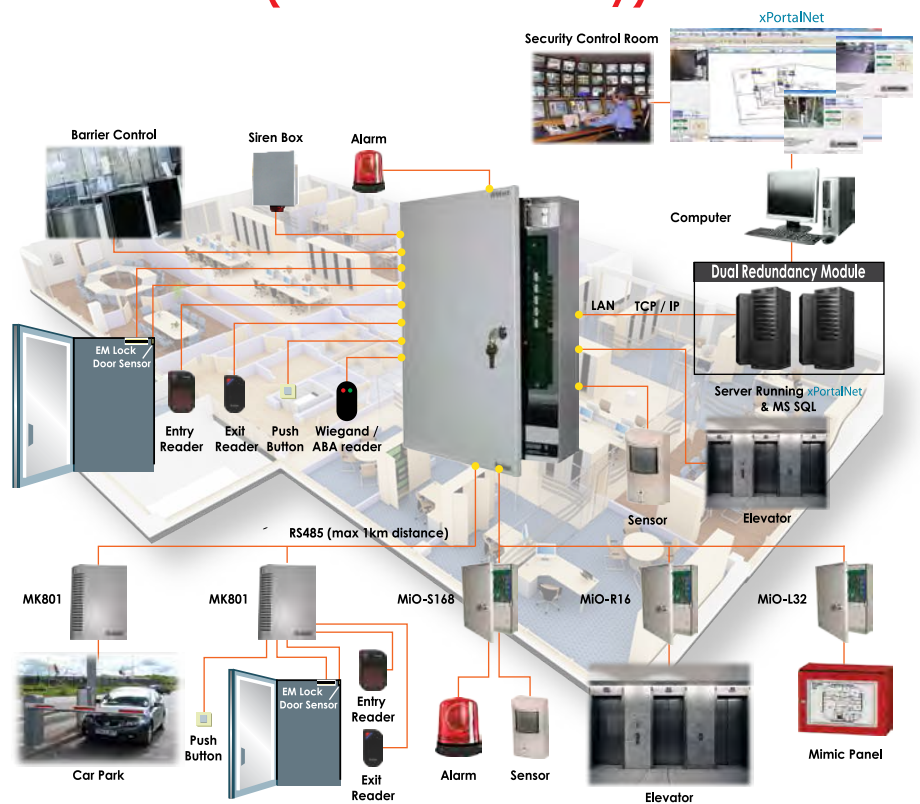
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- ▶ OPC Integration Module
- ▶ DesFire Reader

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Attendees At Delta's Vehicle Access Equipment Demonstration Ask For More Cities

Delta Scientific, the leading manufacturer of counter-terrorist vehicle control systems used in the United States and internationally, recently announced that over 100 security professionals, integrators and contractors came together at Delta's Palmdale home office and manufacturing plant to view anti-terrorism barriers, bollards, crash-rated gates and other equipment, including new products. From 9:00 am until closing at 3:00 pm, the event drew a packed house.

"Many of the attendees were unaware of the broad spectrum of vehicle access control equipment that Delta Scientific manufactures," reported Garrett Gustason, senior project manager, Delta Scientific. "As a result, we had increased interest in guard booths, from the standard model to the bullet-proof units. Many were also unaware that we made traffic control equipment, our original products. "Attendees also

told us that they really enjoyed being able to meet Delta management in person, especially our founder and president Harry Dickinson, who is a security industry icon," Gustason said.

Attendees continue to be intrigued with the Delta HD300, available with its fully electric or hydraulic operation. Attendees learned about a new version with an emergency manual operation that ensures deployment even with total power loss. The HD300 will stop a 15,000-pound (66.7 Km) vehicle traveling 50 mph (80 kpm). Upon impact, the barrier remains in its foundation and the opening stays blocked, providing a multiple hit capability. In its M50 crash test, the HD300 completely disabled the test vehicle, causing severe damage to the occupant department and power train.

Another popular product highlight

was Delta's DSC7000 K12-rated beam barrier, now with an electro-mechanical control unit. This barrier secures wide roadways from attacking vehicles, providing protection between 12-20 feet wide with options to 30 feet (3.7 to 9.2 m). The 725 pound (328 kg) beam of the vertical life barricade stops a 15,000 pound (66.7 kN) vehicle traveling 50 mph (80 kph) dead in its tracks, equivalent to 1.2 million foot-pounds of kinetic energy.

"It was really exciting to introduce attendees to our new products as well as equipment they didn't realize we made. They were also able to see Delta's expanded R&D department which will be releasing multiple new products in 2015 to fill the gaps in perimeter security and maintain our place as the industry's leader," summarized Gustason.

For more information, please visit: www.deltascientific.com **SST**





TOTALLY wireless video security

When an intruder is detected, the integrated night vision camera captures a 10 second video of what caused the alarm and sends this over the GSM cell network to a 24x7 monitoring station. Each system can have up to 24 cameras. The entire system will operate up to two years on one set of batteries.



Protect your remote facilities!

Videofied a complete wireless video security system :

- > **Outdoor cameras** protect your construction sites, equipment...
- > **Indoor cameras** protect your installed services (pipes or copper cables), your air conditioners...



Affordable
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Anywhere

The alarm system that follows you everywhere!

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- > Up to 24 cameras per system
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- > Indoor and outdoor cameras



Morse Watchmans' KeyWatcher Touch With SmartKey Reader

Morse Watchmans recently released its KeyWatcher Touch enterprise key control and management system, which features onscreen icons, a large touchscreen and user-intuitive interface. Locate which KeyWatcher a specific key is in or find who has it with KeyFind.

The SmartKey Reader allows the user to add and remove SmartKeys from the system more effectively from a PC rather than at the cabinet. Improved integration capabilities, modular design and full scalability, we just keep making key management better.



For more information, please visit www.morsewatchmans.com **SST**

Pelco By Schneider Electric Releases All-New Video Information Management System - VideoXpert™

Pelco by Schneider Electric has just announced the launch of VideoXpert, a new experience in video information management systems. VideoXpert has been designed with a powerful, intuitive user interface. Featuring a plug-in architecture for system expansion and third-party integration, VideoXpert provides the flexibility to grow and expand in functionality for many types of facilities and applications.

"VideoXpert provides a new user experience that is intuitive while fully featured allowing for minimal training for the operator. In addition, VideoXpert provides everything expected in a modern video surveillance solution; capturing and reviewing real-time and recorded video, quick playback with multiple camera syncing and multi-system information for business intelligence," said Kim Loy, Vice president marketing, Pelco by Schneider Electric. "VideoXpert delivers an immersive, highly-customizable user experience."

Some of VideoXpert's features include:

- Scalable to support security infrastructures of any size
- Aggregate existing VMS networks and manage all video through a unified interface
- Efficient and intuitive operation from a single, user-friendly Graphical User Interface
- Microsoft® Windows®-based for easy installation and management

For more information, please visit: www.pelco.com **SST**



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Answers for infrastructure and cities.

Raytec Network Lighting Even Easier With HTTP Commands

Raytec recently introduced new HTTP commands for controlling their VARIO IP PoE network illuminators from any network device.

The HTTP commands provide even more integration possibilities, with easy configuration at device interface level rather than at a software level.

VARIO IP PoE allows for quick and easy remote set up, commissioning, operation and maintenance of your CCTV lighting scheme from anywhere on the network 24/7. Lighting can be triggered on alarm to deter crime via other network devices e.g. cameras/detectors/VMS. Users can also take instant manual control of any illuminator to respond to live events or fine tune CCTV images, or operate lighting in groups making it much easier and quicker to control large sites.



VARIO IP PoE is also the first CCTV illuminator to be fully integrated into Milestone's XProtect video management system. Raytec network illuminators unlock the full potential of your VMS and all network devices across your entire site, to create the most intelligent and responsive security system at night.

The VARIO family of illuminators boasts a number of industry firsts including VARIO IP PoE - winner of the 'IFSEC Best CCTV System of the Year' and the first ever CCTV illuminator to integrate into a VMS. It is now further strengthened with the addition of new specialist solutions such as VARIO Hybrid, VARIO Lighthouse Kit and VARIO D-Zoom.

For more information please visit: www.rayteccctv.com **SST**

Onvif Releases First Client Test Tool For Profiles S, G, And C

ONVIF, the leading global standardization initiative for IP-based physical security products, recently announced the release of its first Client Test Tool, which tests clients for conformance to ONVIF's Profile S, G, and C specifications. The new test tool specifications are now available to members on the ONVIF website within the Developers' Forum.

ONVIF's Client Test Tool allows hardware and software-based clients such as video management systems, building management systems, physical security information management (PSIM) systems to be tested for conformance to ONVIF profile specifications. The Client Test Tool determines conformance to the mandatory requirements of Profiles S, G and C. Previously, manufacturers needed to claim that their client worked successfully with a minimum of three individual profile devices in order to obtain a Declaration of Conformance. The new test tool allows ONVIF to verify that the client has been tested with multiple devices and that the client meets conformance specifications.

"ONVIF's Client Test Tool was created to answer the physical security community's call for increased interoperability and accountability," said Hugo Brisson, chair of ONVIF's Client Testing Workgroup. "With this initial release of the Client Test Tool, this brings ONVIF one step closer to a transparent and integrated process to achieve ONVIF conformance."

For more information, please visit: www.onvif.org **SST**

Security.

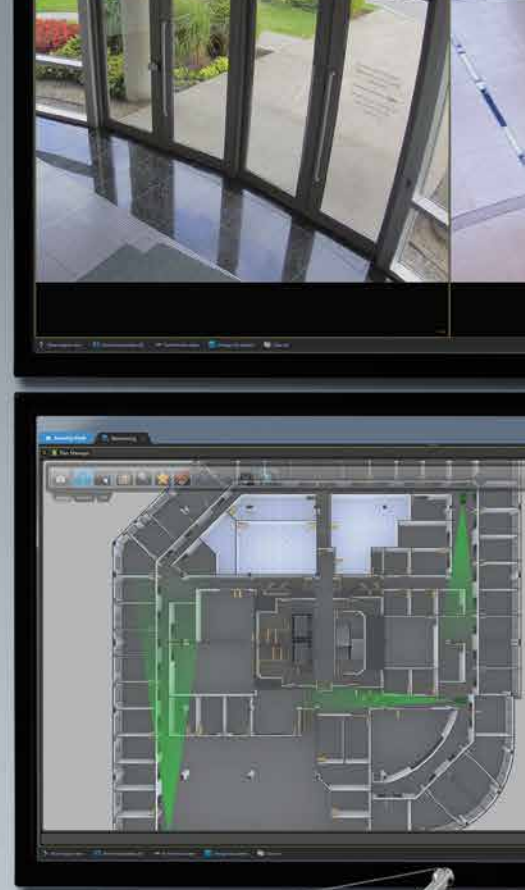
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VIVOTEK Announces Successful Integration Of Axxonsoft Video Content Analysis Functions With The VIVOTEK Application Development Platform

VIVOTEK has just announced that the integration of AxxonSoft's video content analysis "AnalyticVideo Tracker" function with the VIVOTEK Application Development Platform (VADP) has been successfully completed. Designed for tracking objects by characteristics, the "AnalyticVideo Tracker" can identify various types of objects (individual people, groups of people, or vehicles) and transmit the detected information, i.e. metadata to AxxonSoft's video management software (VMS), Axxon Next, and Axxon Intellect Enterprise for further analysis and reporting.

In early 2014, in order to expand its cameras' benefits and create further added-value for customers, VIVOTEK introduced VIVOTEK VADP, an open platform for integrating video analytic functionality within its cameras. Using this advanced but flexible platform, video content analysis functions like object counting, line detection, field detection, face detection, heat map, and so on can be directly installed onto VIVOTEK cameras. Now, the integration of VIVOTEK VADP and AnalyticVideo Tracker allows the direct execution of object-tracking at front-end VIVOTEK network cameras, enabling a drastic decrease of CPU loading at the back-end server and creating greater efficiency across the entire surveillance system.

Murat Altuev, president of AxxonSoft said, "This successful integration is absolutely an outstanding achievement. Our customers can now enjoy effective and efficient video content analysis without increasing the back-end CPU loading and sacrificing the performance of their surveillance. Thanks to VIVOTEK, together we are able to provide our customers with a smart solution, maintaining stability and agility while providing advanced analytics of video content."

According to William Ku, vice president, Brand Business Division, VIVOTEK, "We're delighted to see this great integration of our VADP with AxxonSoft's video content analysis functions. The realization of in-camera video content analysis and the seamless interoperability between our VADP and AnalyticVideo Tracker certainly fulfills our ongoing goal of bringing substantial benefits to our valued customers worldwide."

For more information, please visit: www.vivotek.com **SST**



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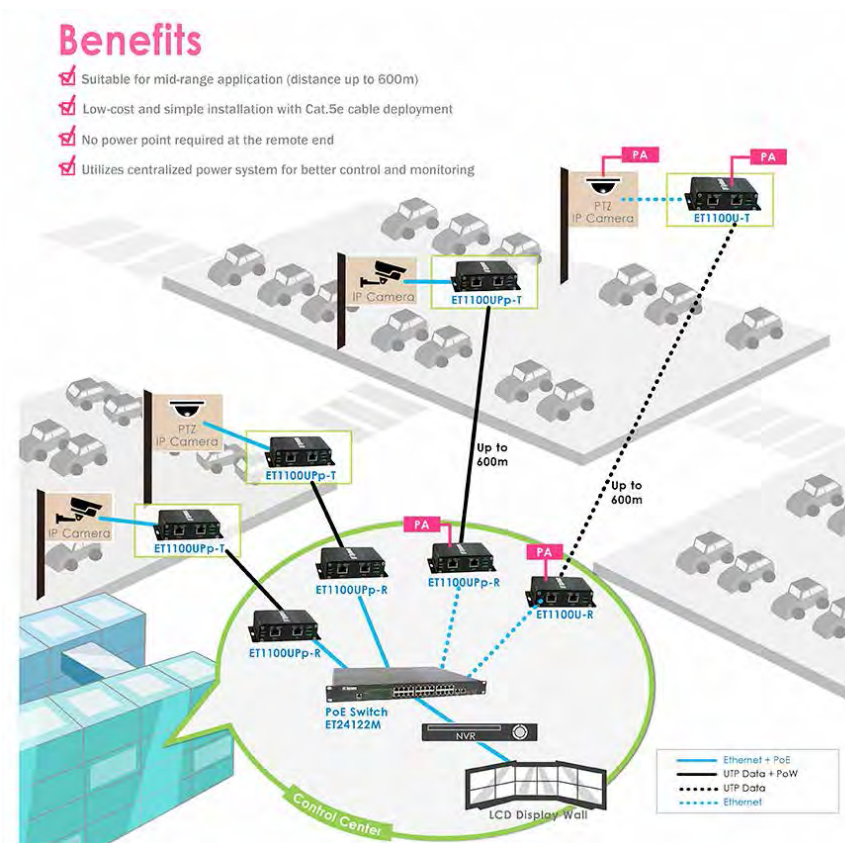
CheckpointSystems.com

Email: Apac.Marketing@checkpt.com

OT Systems Limited Introduces An Economical Solution For Extending Ethernet And Supplying Power Over A Single UTP Cable

OT Systems recently unveiled EtherXtra™, the Ethernet over UTP Extender Series (ET1100UPp and ET1100U) designed to offer system integrators the flexibility of connecting IP devices over Cat.5e cable for longer monitoring distances.

The ET1100UPp-R (Receiver) supplies power to the ET1100UPp-T (Transmitter) via the UTP cable by power-over-wire (PoW), which in turn the transmitter supplies power to its connected IP devices via Power over Ethernet (PoE). With the UTP Extender products, system integrators can install IP cameras or other IP devices on a Cat.5e cable up to 600m from the central monitoring station without needing an additional power point at the remote end. In addition, the ET1100UPp-R can get the power from a PoE switch; working together, a system integrator can easily construct and monitor a centralized power IP CCTV System.



This UTP extender series extend the Ethernet transmission distance by breaking the 100-meter Ethernet limit, enabling a simple system configuration and easy installation.

For more information, please visit: www.ot-systems.com **SST**

Oncam Secures World-renowned Luxury Jeweller Mouawad in Malaysia

Oncam, the security division of Oncam Technologies, recently announced that Mouawad, a world-renowned luxury jeweller catering to royalty and world celebrities, has deployed Oncam's Evolution 360-degree concealed cameras to secure the jewellery boutique and its contents.

Nestled inside Starhill Gallery, Kuala Lumpur's finest luxury mall, Mouawad serves exclusive clientele made up of royalty, the wealthy elite and celebrities, and the company's masterpieces are some of the most expensive in the world. Securing the inventory and store in Kuala Lumpur is paramount to the organization, and company executives sought out a surveillance solution that could cover the entire boutique floor, while also being intuitive to operate and remotely accessible from mobile devices.

The Evolution 360-degree concealed camera contains

a five-MP high-resolution sensor that delivers constant 360-degree surveillance and no blind spots. The camera produces high-quality images, critical for 24/7 operations in the retail environment. Along with the camera, a QNAP Network Video Recorder (NVR) was deployed to meet the company's requirements for video storage and overall system management.

Oncam's mobile application, OnVu360, enables users to fully experience 360-degree, HD surveillance in on any mobile device. It enables users to monitor Oncam 360-degree cameras in real time while providing access to video data at all times. The OnVu360 app can stream up to a full five megapixels and supports Oncam's Evolution and Halocam line of cameras.

For more information, please visit: www.oncamgrandeye.com **SST**

Sony's New 4K Security Camera Receives Support From Major Video Management Software Providers

Sony recently announced that it is adding 4K imaging to its line of security technologies. The new SNC-VM772R camera combines the enhanced resolution of 4K with low-light sensitivity, leveraging 1.0 type back illuminated Exmor R CMOS image sensor, bandwidth optimisation features, and intelligent scene capture capability to adopt the best picture quality, ideal for city surveillance, transportation, railway, traffic monitoring and airport surveillance applications.

The SNC-VM772R 4K security camera is supported by major video management software and service providers and integrators, including AxonSoft, Exacq Technologies, Genetec Inc., Genius Vision Digital Inc., Lenel Systems International, Inc., Milestone Systems, NICE Systems, NUUO Inc., On-Net Surveillance Systems, Inc., SeeTec AG and Verint Systems Inc.

Feedback from the field and system providers showed an overwhelming need for and support of 4K resolution in the security market, while also praising the benefits of intelligent cropping.

The new SNC-VM772R is planned to be available in the Asia Pacific region in the third quarter of 2015.

For more information, please visit <http://pro.sony-asia.com/security> **SST**



A Safe And Pleasant Hotel Stay - Completely Protected From Fire

By: Markus Späni, Principal
Expert Application, Siemens
Building Technologies Division





Garage: An undetected fire in an underground car park can quickly become one which threatens to destabilize the whole building.

Introduction

Reputation is a fragile thing. Years of hard work building a successful business and providing good and efficient service to thousands of happy and thankful customers can be completely undermined in an instant by a single incident. To re-establish the same level of reputation may well then take many more years.

One example of such a damaging incident would be the outbreak of fire in a hotel. Even when nobody is hurt, a single incident where prevention measures fail and fire is known to have started can result in the complete erosion of trust so vital to guests staying under the hotel's care.

Yet paradoxically, any occurrence of unwanted or 'false' alarms will irritate and alienate even the most reasonable guests when the alarms are eventually proven to be groundless, especially when they happen at night.

With so many different sorts of area which all need different levels of fire protection - guest rooms, kitchens, laundry and drying rooms, and plant rooms as examples - the problems involved in providing completely reliable fire protection within hotels are multi-faceted and complex.

Guestrooms

Typically, guestrooms occupy a large proportion of any hotel. It is not surprising therefore that guest rooms, which house a wide variety of possible ignition sources such as



Guest room: Every guest room should be fitted with at least one automatic, point-type smoke detector which should be installed in such a way that it delivers the earliest possible warning of fire.



Kitchens:
Due to the high fire load of open flames or frying pans, commercial kitchens are one of the most dangerous places in a hotel.

overheating electrical devices, cooking facilities and even misbehaving occupants, are the primary origin of non-confined fires in hotels. According to the US's National Fire Protection Association (NFPA), they are also responsible for around 72 per cent of civilian deaths. Most fires in hotel rooms start with an incipient, smouldering stage and, if detected early enough, can often be extinguished simply by removing the source of power (in the case of an electrical fire), or with water or an extinguisher of the appropriate variety.

It is critical therefore for the safety of all occupants of the hotel that all potential sources of ignition or combustion are kept to an absolute minimum within the rooms. Guest should be made aware of the hotel's stance on smoking, handling open flames such as candles or behaving in any way which might lead to the outbreak of fire. All electrical equipment such as television sets, fridges, kettles and irons, must be well maintained, carefully cleaned and checked on a regular basis. Every guestroom should be fitted with at least one automatic, point-type smoke detector and this should be installed in such a way that it delivers the earliest possible warning of fire. On no account should it be susceptible to false alarms caused by deceptive phenomena such as steam from the shower.

The type, setting and positioning of the detectors should be determined by the likelihood of this deceptive phenomena, which generally has less impact on bigger, higher rooms. In small guest rooms, intelligent multi-criteria fire detectors must be used to guarantee early fire detection and high immunity to such deceptions. To ensure reliable operation, the detector in a guest room must be sited in an area where fire phenomena such as smoke may easily reach the detector and where the intensity of possible deceptive phenomena are as low as possible. Special attention must be given to the hotel's HVAC (heating, ventilation and air conditioning) system, so that in the event of a fire, the system does not prevent smoke from reaching the devices in sufficient concentration.

Kitchens

In commercial kitchens - and those in hotels are no exception - the open flames, grease traps, large cooking pots, kettles, frying pans and deep fat fryers present a very real hazard because of high fire load and the potential for

catching fire if overheated. This makes the kitchen one of the most dangerous places in the hotel. But there is little possibility of eliminating or even reducing all sources of ignition here.

However several sensible yet simple precautions can be put in place to limit the risk of fire. These include keeping flammable materials such as cardboard or paper packaging to a minimum and always away from the flames of cookers. Taking care when lighting all devices, especially gas stoves, should be an obvious procedure, along with turning off electrical appliances when they are no longer required. Oven mitts, tea towels and other combustible cloths should not be left around the stove and, if not wanted for a long period, turning off the gas supply is another sensible precaution. Again, regular cleaning, checking and maintenance of all appliances is not only a wise move as regards hygiene of the equipment but also from the point of its safe operation.

Traditionally smoke detectors have not been used in commercial kitchens. Again the problem of steam and other deceptive phenomena makes their installation impractical, only much more so. When planning and implementing any fire detection solution for a hotel kitchen, the increased fire risk, the steam and the sudden, rapid raises in temperature caused by activity in the kitchen must be taken into consideration. Where detectors have been used in kitchens in the past, they were usually heat detectors which triggered an alarm at a pre-determined maximum temperature around 80°C. More often, fire blankets were positioned around the kitchen so that occupants of the kitchen could use them to suppress any outbreak. Manual call points were installed so the alarm could be raised if the incident escalated. However, some of today's devices are able to differentiate between the aerosols caused by cooking and the characteristics of combustion. They are able to assess signals intelligently, can be adapted to ambient conditions and can be set up to respond appropriately to the many occurrences of steam that is a constant feature of busy kitchens. When positioned outside the immediate cooking area, where the rapid temperature increase caused by cooking, frying and opening ovens is less immediate, such detectors can effectively cover even the largest commercial kitchens and will even detect smouldering fire as well as the outbreak



Laundry:
Deceptive
phenomena such
as steam and dust
are more than likely to be
present in a hotel laundry.

of open flame. Just as in the hotel's guestrooms, these detectors should be mounted away from the direct flow of the ventilation or air-conditioning systems so that any airborne particles of genuine smoke are not diluted before they reach the detectors.

Laundries

Laundries too are relatively critical areas in hotels. With lots of combustible materials such as cleaning agents and fabrics, there is usually a high fire load and the possible overheating of various heavily worked electrical equipment - most involving integral heating elements - also presents a high fire risk. Again deceptive phenomena such as steam and dust is more than likely to be present. Fire detectors which guarantee an early warning whilst guarding against unwanted alarms are needed to alert and evacuate all parties at risk and to activate the relevant fire control installations.

The main causes of fires in laundries are technical defects. Just as in the kitchen, certain procedures such as regular cleaning, checking and maintenance of all appliances can help minimize the number of potential ignition sources. Again removing all unnecessary flammable materials such as paper or cardboard packaging is also vital. The heat within the laundry area can cause a reaction between oxygen within the atmosphere and unsaturated fatty acids, so grease-affected textiles should be cleaned separately and warm fabrics and items of clothing should not be stacked or packed whilst still warm.

As in the kitchen, the best possible fire protection will be achieved if the detection system is designed in such a way that the detection behaviour automatically adapts to the



Plant room: When a fire is detected, it is vital that the extinguishing system in a plant room does not cause further damage to the electrical or electronic system at fault.



Restaurant:
To avoid the risk of fire, open flames of candles and rechauds often used in a restaurant should always be kept away from flammable materials.

environmental conditions. Intelligent fire detectors enable time dependent or event controlled detection behaviours. This feature allows, during the time the laundry is in operation, to set the system to alarm when there is medium smoke generation. But when it is not, the system should be set to alert as soon as there is only little smoke generation. In addition to the automatic fire detectors, manual call points should, of course, be installed for manual triggering.

Plant rooms

The plant rooms of hotels are usually quite limited in space but can house critical power supply, control, security or IT and communications systems. As unrestricted availability of each of these systems is a fundamental requisite for the hotel's continued operation, these rooms especially need protection from fire. Due to the enormous business impact if one of this system goes out of operation, the plant rooms pose a high fire risk. When electrical and electronic components overheat, small quantities of aerosol are generated. If the overheating is not detected, a smouldering fire will develop during which smoke becomes increasingly visible. If the problem is noticed at

this point, the fire can be extinguished easily with damage limited to a single device or area.

During the smouldering stage, little heat is generated which means that the increased aerosol concentration is not lifted and carried through a wide area. Also if the systems are being constantly ventilated to keep temperatures of the hardware and cabling down, the high airflow will dilute the concentration of aerosols. Fortunately this means that the lowest aerosol concentrations which must be detected to keep the area safe, can be measured and monitored by aspirating smoke detection (ASD) set to the highest levels of sensitivity. These systems are able to generate different warnings and alarms but are also used to activate the appropriate extinguishing systems. Extinguishing systems using inert gases or dry chemical agents are ideally suited to protecting delicate electronic equipment. However, recent findings have shown that malfunctions can occur in hard disk drives (HDD) caused by the high noise levels that happen when automated extinguishing systems are released. These malfunctions range from automatic shutdowns to more severe disturbances resulting in a loss of data. So, if possible, it is advisable to improve the

room's acoustics, to extend the discharge time and to use only those nozzles that keep noise levels below those that pose a risk during discharge. To protect structural damage to the area, all gaseous systems also need pressure-relief openings

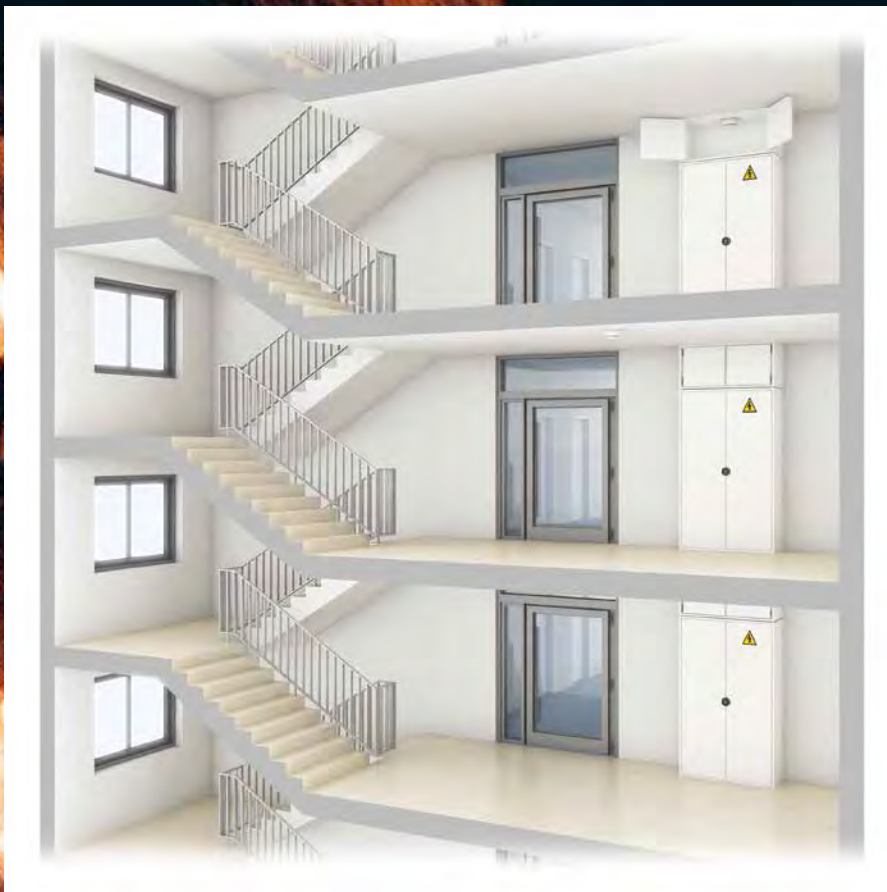
Complete fire protection for hotels

The problems involved in providing comprehensive fire protection for hotels are complex. In short, to protect the guests and staff of any hotel throughout the day and night, along with the building itself, its reputation and its business continuity, it is necessary to put certain procedures in place: the regular cleaning, checking and maintenance of all appliances; the removal of flammable materials and the elimination of obstacles from stairways and all evacuation routes; the positioning of informative signs and notices keeping guests informed of restricted practices, alarms, practice drills and evacuation procedures; the siting of all types of relevant fire extinguishers; the keeping of all possible sources of ignition to an absolute minimum; the siting of manual call points throughout the hotel in all the appropriate places - along with the full and adequate training of all staff, both full-time and part-time.

It is vitally important for hotel owners and operators to utilize the protection of an early warning fire system which feature intelligent detectors able to differentiate between the outbreak of fire and other, naturally occurring, deceptive phenomena. False fire alarms are a major issue for the hotel industry and must be avoided. The logistical problems of evacuating the hotel when dealing with large numbers of guests can be significant. The problems when dealing with those same inconvenienced customers when an unnecessary evacuation happens at night-time can be much greater.

Detectors should be positioned where they are not adversely affected by the hotel's ventilation system or other influences that detract from their performance. In doing so, it is possible to provide effective and reliable detection at the earliest possible opportunity of the outbreak of fire starting in all possible ways - without causing the unwanted day or night-time alarms that alienate the hotel's guests. This intelligent system should be allied with, if possible, a reliable and effective extinguishing system in those parts of the hotel wherever it is practical.

For more information, please visit www.siemens.com/buildingtechnologies **SST**



Stairway: To ensure a safe escape in case of a fire, stairways that serve as rescue routes should be separated from the rest of the building in a fireproof construction.

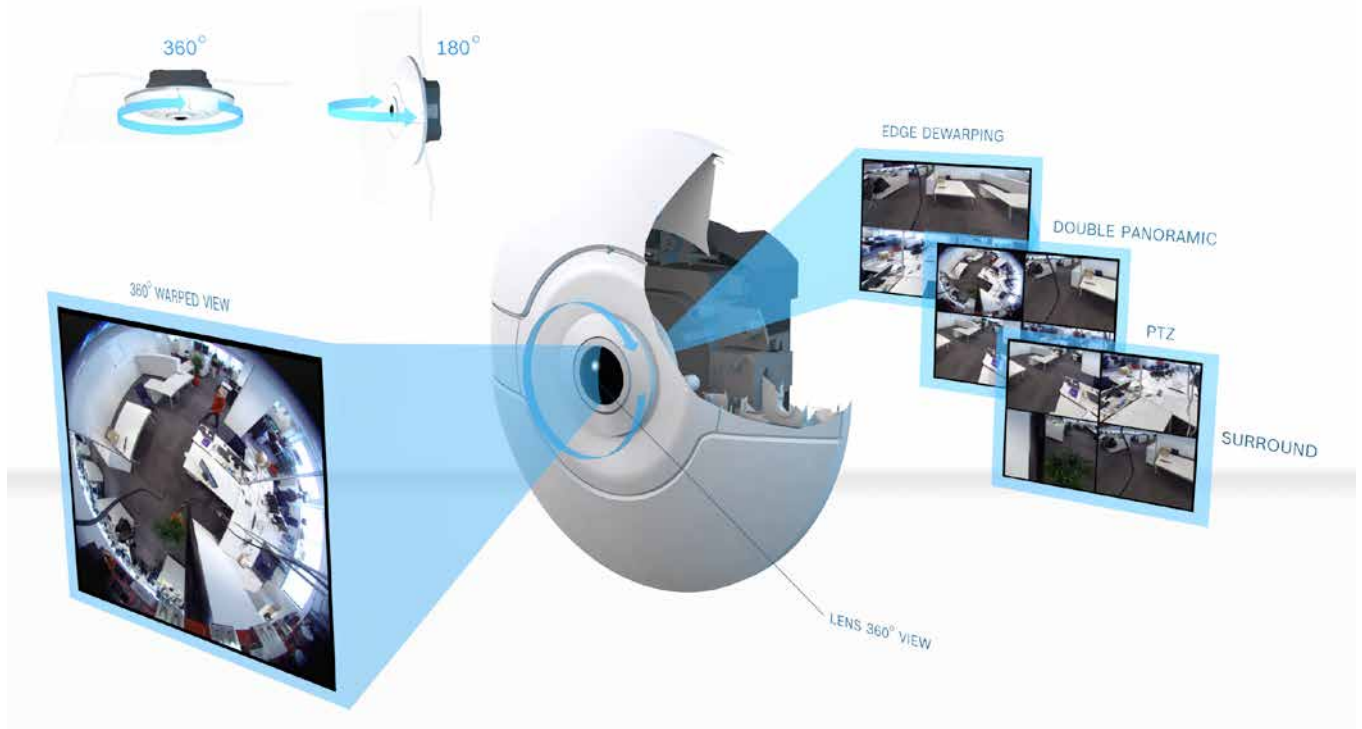
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substantially. IDNR saves up to 50% on bitrate without compromising the quality of your video. The FLEXIDOME IP panoramic 7000 MP also features **Intelligent Video Analysis (IVA)** so you are alerted when needed and perform forensic search to trace back important events from hours of video in seconds.

The FLEXIDOME IP panoramic 7000 MP simultaneously offers the full overview image and **multiple Regions of Interest (ROI)** to monitor certain areas of interest as separate streams. This ensures the easy management of video data especially supported by the various viewing modes that can be selected to view undistorted images. Besides that a third stream lets you electronically pan-tilt-zoom to focus on details without losing the bigger picture.

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For more information, email Bosch at: enquiry.apr@sg.bosch.com or visit www.boschsecurity.asia.

Access Control Intelligence Is Now Migrating To The Door And On To The Phone

Article Courtesy of HID Global

Overview

Physical security and access control solutions are now moving to IP-based solutions that are easier to operate and simplify expansion and customization while enabling the integration of a physical access control system (PACS) with other solutions that can share the same network. A major benefit of this approach is the ability to move intelligence to the door, which streamlines system monitoring, management and reporting via standard web browsers. By migrating to true open architecture IP-based intelligent controllers, users also can simplify future infrastructure enhancements and modifications since they can invest in hardware platforms that are not tied to proprietary software. As we see growing adoption of IP connectivity for access control, we will also see it deployed using wireless connections including both locksets and NFC-enabled handsets. These handsets will initially emulate traditional cards, but it won't be long before we see NFC-enabled mobile solutions leverage the phone's own network connection and the cloud to move access control intelligence and decision-making right into the palm of our hand. Traditional cards will co-exist with digital credentials on NFC devices, and will work together and with other applications in the IP network.

Networking adoption drivers

Most companies and institutions today have installed security, access control, and video surveillance systems at their facilities. Others may even have

installed incident response systems, perimeter detection systems, and alarm monitoring systems. These and other generally disparate and isolated systems cannot easily share information, if at all. And yet, there are natural synergies between each of them.

IP-based solutions facilitate their integration, creating the opportunity for a single new system that can much greater than the sum of its individual parts. The ability to manage video monitoring, access control, intrusion protection, incident response and other solutions on a single network in any environment delivers better facility management. Users get more out of their investments, and realize the benefits of a single system that can perform multiple functions with a single interface to these applications. Organizations that previously operated several security systems on isolated networks to invest in a single, unified IP network, and technologies that previously co-existed only physically can now be managed and controlled logically.

There also is an obvious synergy between physical and IT security within an IP-based environment. The ability to combine physical and logical access control on a single credential improves user convenience while increasing security and reducing deployment and operational costs. These solutions enable organizations to leverage their existing credential investment to seamlessly add logical access control for network log-on and create a fully interoperable, multi-layered security solution across company networks, systems and facilities. They also help organizations enforce more consistent policies, while facilitating the use of consolidated audit logs throughout the enterprise.

With the majority of larger installations now utilizing network communications, there will likely be a natural push for IT and facility security teams to work more closely on integrated solutions that combine both sets of functionality using the same IP connections. As a result, IP-based access control has the potential to dramatically change the role of the security systems integrator, who is increasingly being influenced by IT integrators. In the meantime, we see many new buildings using IP-based building control systems, as well as organizations that see advantages to using IP rather than proprietary networks, not only for integration, but to deliver new capabilities such as remote communications.

Earlier concerns about the security of IP-based access

control are rapidly waning as the industry realizes that IP-based access control actually improves security. As an example, being able to integrate video surveillance with access control offers a more comprehensive view. Being able to manage all of the various video management and analytics subsystems, intrusion devices and associated IP-based edge devices through a single user interface significantly enhances situational awareness since all information can be immediately combined and correlated.

Importance of open standards and modular, scalable platforms

A key to realizing the benefits of IP-based, networked access control is the use of an open and scalable platform. This ensures that information can be seamlessly exchanged between the previously disparate systems.

Systems based on open standards also make it easier for users to expand, customize and integrate solutions while delivering more robust security. New technologies can be brought into existing architectures without requiring a software overhaul to accommodate them. Standards-based solutions also give users the flexibility to choose from many different products and suppliers, and to tailor these solutions to their own, specific needs. Untethering users from any single supplier also gives the industry more incentive to innovate and differentiate their solutions.

Modularity is also important. A modular design allows users to select only the features they need, using streamlined system architecture. This helps lower the cost of an entry-level system for organizations that want the benefits of intelligent, networked security solutions but don't yet need a full-featured system. In the past, the only choice was to move to a proprietary system that locked the customer into a particular system size and performance level. In contrast, today's advanced controllers, thin-client software, and IP connectivity enable a customer migration path with many incremental and affordable investment steps over time.

This also requires that there be a continuum of options to fill the gap between traditional mechanical locks with no intelligence, and door solutions with full, IP-networked intelligence and functionality. It must be possible to easily adapt solutions for facility expansion or changes to virtually any card/reader configuration that future security needs may require. This could mean controlling a couple of doors

with dozens to hundreds of card holders, or managing hundreds of doors at multiple facilities with as many as 100,000 card holders, or more. IP-based access control solutions must be able to bring intelligence to the door while protecting the value of customers' overall investments, from controller to reader to credential.

Unlike proprietary solutions, today's IP-based solutions provide access to hundreds of access control software system options rather than a single OEM panel and matching software solution. This enables the end user to purchase a system-agnostic controller product coupled with access control software, with the option to later change that software to meet an organization's evolving requirements down the road without requiring a major upgrade.

For optimal scalability, IP access control solutions should also be supported by complete developers' kits that feature standards-based application programming interfaces (APIs) to the embedded software driving access control functionality. Basing solutions on an open architecture with standards-based APIs will enable customers to meet evolving requirements and future expansion needs while protecting the value of their overall investments. Users should have a wide variety of options for future additions, including fire alarms, intrusion detection, CCTV, biometrics and others as required.

For optimal security, the next generation of IP-based access control solutions also must use a controller platform that is capable of operating with fully trusted connections from host to controller to reader. This approach will substantially increase security options for access control systems in the future. All reader/controllers and IO modules should also feature security capabilities such as an on-board encrypted Hi-O communication bus, as well as elements including 12/24VDC lock support, mounting options, and plug-and-play IO modules that extend IO at and behind the door.

The End Game: No wires

The first step to untethered, networked access control connectivity is wireless intelligent locksets. These devices will grow in prevalence with the advent of new lower-cost, more energy-efficient products. At the same time, we will see the advent of mobile access control with NFC-enabled handsets that will enable users to carry credentials on phones that can be used within the network environment.

The first step is to simply replicate the existing card model: the phone communicates identity information to a reader, which passes it to the existing access control system, which makes the decision to unlock the door based on a pre-defined set of access rights. This model provides a safer and more convenient way to provision, monitor and modify credential security parameters, temporarily issue credentials as needed and cancel credentials when they are lost or stolen.

Beyond card emulation, the next step is to leverage the smartphone's on-board intelligence to complete most of the tasks now performed by the access control system. A mobile device could leverage its wireless connection be the key, processor, and rules engine for making access control decisions. This will eliminate the need for deploying readers (and locks) with any significant intelligence or connectivity capabilities. By using interoperable, open-architecture IP-based intelligent controllers, users will have a broad range of both basic and wireless intelligent readers to choose from, that provide access to multiple credential technologies.

IP-based access control is well on its way to widespread adoption. Its benefits include simplified system operation, expansion and customization, plus the ability to integrate a PACS with many other solutions on the same network. By moving intelligence to the door, it also streamlines system monitoring, management and reporting. Before long, we'll see this intelligence and decision-making move even further out to NFC-enabled smartphones. This will be a game-changing paradigm shift that enables us to secure far more doors electronically than was ever before possible.

For more information, please visit www.hidglobal.com **SST**

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Bosch Video Surveillance Solutions For The SMB Market

Article courtesy of Bosch Security Systems





Although the Small and Medium Business market has not changed substantially over the last two years, there is an increased awareness and interest for video surveillance as well as other safety and security related solutions. For owners of all kinds of businesses like small shops or filling stations, but also within the residential area, this development is driven by an increased demand for safety and thus for the availability of solutions responding to this need. Alongside this stands another recent development, namely the demand for accessing camera controls, live video streams and HD images anytime from anywhere regardless of the available bandwidth.

TINYON IP 2000 WI and TINYON IP 2000 PIR cameras, for example, offer a cost-effective, reliable and complete solution to easily set-up a professional system securing homes or small businesses. As 2-in-1 solutions, both models combine an integrated passive infrared (PIR) sensor and a 720p HD IP video surveillance camera. Even in complete darkness, the PIR sensor enables the detection of any motion within a five-metre range. Depending on the light levels, a motion alarm triggers the built-in white light LED, ensuring the highest quality of video images. This guarantees the easy identification of events or intruders. Besides motion detection, both cameras offer a built-in microphone to trigger sound-based alarms. Together with the built-in loudspeaker, users can establish a remote two-way communication channel to address and verify possible security situations.

With the **DINION IP 4000 and 5000 family**, Bosch has raised the bar and set new standards in security and data management within the small and medium business segment. The DINION IP 5000 family offers resolutions of up to five megapixels making it easy to distinguish individuals or minor details, significantly increasing the effectiveness of retrospective analysis. The IP 4000 family offers the same performance at 720p resolution.

All cameras are equipped with **Content Based Imaging Technology (CBIT)** ensuring that captured images are tailored to the content of the scene. Depending on movement and varying light intensity, the camera settings are continuously and dynamically adjusted. This ensures perfect exposure of objects of interest while reducing bitrates by up to 50 per cent. Consequently, your storage costs and network strain are reduced significantly without compromising video quality.



In case of an alarm, all IP cameras from Bosch offer the possibility that notifications are sent to users via text message or e-mail. Moreover, facial snapshots or video clips can be directly sent to pre-defined recipients or cloud accounts, allowing for a fast response of users. Video data can either be stored in the cloud, on a network video recorder like the DIVAR IP 2000 recording solution from Bosch, or on the built-in SD card. Thus, all cameras always offer easy back-up solutions to ensure the safe storage of relevant video data.

Another important fact is the ease of installation and configuration. With the **DIVAR IP 2000 recording unit**, Bosch offers the ability to create a video surveillance solution with professional security features that is both easy to install and easy to use. It provides safe data storage, 24/7 remote access and offers advanced features to manage your video data. The common product platform (CPP) ensures easy maintenance and backward compatibility over multiple IP camera generations, plus a future-proof solution to enhance or add new features via firmware updates. A single firmware for all cameras significantly reduces maintenance costs and enables easy third party integration. With the SMB camera and recording solutions, Bosch offers a cost-effective, reliable and comprehensive portfolio, especially designed for 24/7 operation, to easily set-up a professional solution to safeguard your business. They ensure that alarms are triggered when needed and video data is recorded and safely stored. This means you can always review what happened, regardless of time and place.



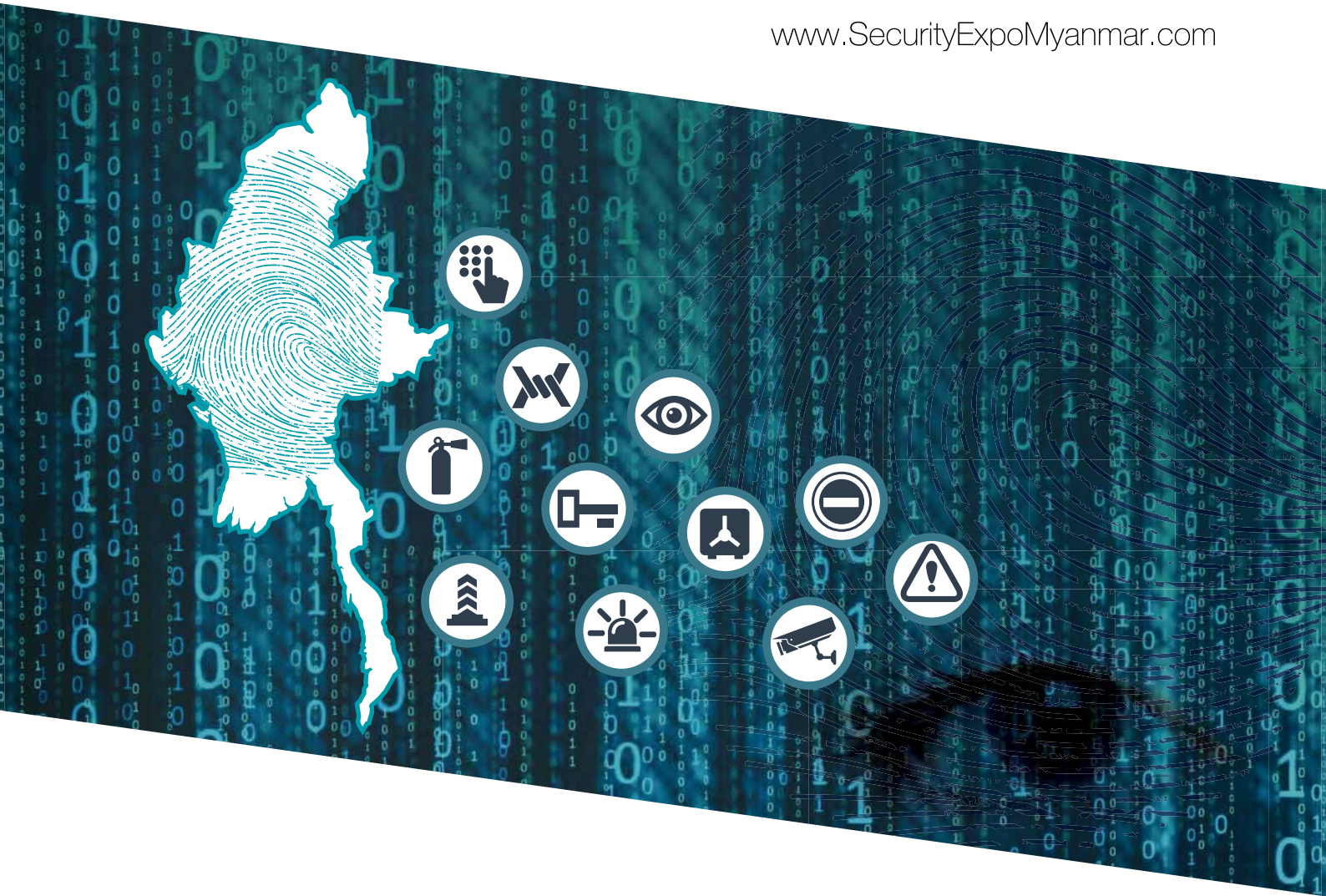
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Double Tree By Hilton In Chile Upgrades Video Surveillance With Dahua's IP Solution

Background

Double Tree by Hilton is an American hotel chain. It is part of Hilton Worldwide. Most Double Tree hotels are independently owned and operated by franchisees. In early 2011, Hilton Worldwide launched a logo and name rebranding for the chain, replacing the name "Doubletree" with "Double Tree by Hilton". Double Tree by Hilton Hotel Santiago-Vitacurais centrally located within developed commercial and financial district in Santiago.





The Challenge

As the Five Star Alliance's number, the hotel offers top-notch services for the customers and meanwhile it needs five star security systems for its safety. With the demand for hotel rooms and space constantly increasing, the hotel needed to upgrade its IP surveillance system in order to offer a better security ambience for its customers, employers and property.

The Solution

The hotel wanted to upgrade its existing security system for higher quality images. Dahua IP solution offers a highly reliable and cost effective method of hotel surveillance. Dahua HD network small IR dome cameras, IPC-HDW4100S features 1.3-Megapixel progressive scan Aptina CMOS and supports up to max 25/30fps@1.3M&720P encoding. The maximum IR length is 20 metres. The IP cameras install across each floor of the hotel to monitor doors and stairs of people entering and leaving. Dahua IP solution covers all public spaces and circulation areas with total 200 units including all stairways, kitchens, car parks, leisure facilities and laundry rooms, as well as the inner courtyards and the roof.

The key objective has always been to record activity captured by the cameras so that any incidents or suspicious activity can be recorded and be used if appropriate. Dahua IP solution can help keep the guests safe from theft and other criminals by helping track the visitors and prevent break-ins on hotel property.

The hotel also upgrades its old NVRs to Dahua NVR6000 series, which is able to provide a higher resolution. Dahua, 128channel super network video recorder, NVR6000 series supports HDMI and VGA output at up-to 1920x1080p resolution, which benefits users with high-definition video image viewing.

Double Tree by Hilton understands that doing the little things well can mean everything. So does Dahua. Dahua offers a comprehensive product portfolio for hotel surveillance systems to help protect and give its guests a peace of mind when they stay. A safe and secure environment is also fundamental in guest expectations and vital in protecting a hotel's brand. **SST**

Hotel In New Jersey Implements Key Control Systems To Streamline Customer Service And Improve Security

Background

Located in Florham Park, NJ, and offering convenient access to Newark Liberty International Airport, Wyndham Hamilton Park Hotel and Conference Centre services guests in 219 rooms and 40 conference rooms. The hotel features more than 27,000 square feet of property and can support up to 400 people for conferences, events and special occasions.

The Challenge

As with every hotel, ensuring the comfort of guests is a top priority for the Wyndham Hamilton Park, making it crucial that staff address and correct any maintenance, cleaning or customer service issue as quickly as possible. Because effective communication plays a major role in achieving this goal, the hotel equips its staff with iPod Touch devices with an installed push-to-talk app during their shifts. However, having to identify and track down whoever has the key to access a particular area of the hotel can be a time-consuming obstacle to efficient resolution of issues that arise. The challenge is compounded if an iPod Touch is lost or if an employee forgets to return it at the end of his or her shift.

The Solution

To solve potential problems and ensure guests' needs are being met, the Wyndham Hamilton Park has deployed Morse Watchmans KeyWatcher® key control and management systems. In addition to securing keys, Wyndham Hamilton Park has customized their KeyWatcher with locker modules to hold its iPod Touch devices. Specially implemented openings in the back of the cabinet accommodate power cords to allow the devices to be charged when they're not in use.



The hotel primarily uses KeyWatcher to track missing or late keys and devices, which are stored in the cabinet and which employees can only access using their unique ID and PIN. Each KeyWatcher key control cabinet will not open until the system has verified that a particular user has permission to access a requested key, and the system automatically records all activity. If an item is missing or hasn't been returned on time, security staff can be alerted and quickly determine who removed it, when it was removed and when it is due to be returned – a formerly time-consuming process with written sign-out logs or no logs at all.

The Results

According to Amy Wickenheisser, Wyndham Hamilton Park's director of Operations, in addition to allowing the hotel to streamline its maintenance and customer service operations, KeyWatcher has also improved security.



"To distribute keys in the past, we had to keep our security office staffed at all times, so rather than patrolling the

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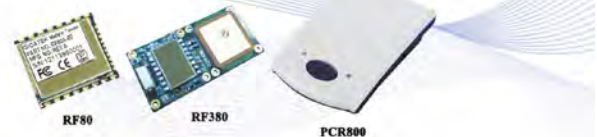


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property, security staff were tied to that one location," Wickenheisser said. "Now authorized associates help themselves to their keys and iPod Touch devices, freeing our security staff to be where they need to be, whether on patrol or responding to a call."

Wyndham Hamilton Park implemented the KeyWatcher systems earlier this year and the hotel has liked what it's seen so far.

"We're still fairly new to KeyWatcher, but so far it has been working very well for providing accountability for keys and iPod Touches. Morse Watchmans has been wonderful to work with and we're very happy with the results we've gotten in just a few months," Wickenheisser said. **SST**



Network Cameras Power Remote Video Management Of AP International's Stores In China

Background

With several subsidiaries including AP Group (China) Ltd and Fujian AP Industry Ltd, AP International is specialized in the creative design, media, product development, as well as research, manufacturing and sales of colour napkins. The company has a reliable customer base in Europe, America and Australia. The large scale of the business can occasionally result in delays and inaccuracy.

The Challenge

To ensure smooth management of its chain stores, it became indispensable to implement real-time remote surveillance. The company wanted to manage and control the shops via a central management platform. At the same time, the company required intelligent video analysis, such as automatic count of consumers entering and leaving the shops, and value-added functions like statistical analysis of on-duty ratio for employees during specific times.

The Solution

With Aimetis Symphony video management system, which was provided by Aimetis, a global Axis Application Development Partner (ADP), AP Group installed AXIS M1011 Network Cameras in 18 flag shops in Beijing, Shanghai, Shenyang, Chengdu, among others,



in order to ensure remote control and centralized management of shops through a central facility room at the head office.

All access rights are controlled centrally by the company, and managers at different levels are assigned with corresponding view and operation rights. Nationwide, shops are monitored remotely in real-time to supervise the working status of employees and identify incidents. High-definition recordings can be viewed remotely, anytime, from anywhere.'

The Result

The compact, elegant and smart AXIS M1011 Network Camera supports flexible mounting mode, such as wall mount and ceiling mount. Its functional design enabled the shop

surveillance system to be installed quickly without damaging the shops' interior decor. AXIS M1011 utilizes H.264 compression, which reduces the bit ratio by over 50 per cent on average with specific video quality compared with other video standards, so better and smoother video images can be transmitted over the network.

Thanks to Aimetis Symphony video management software provided by Aimetis and Axis network cameras, AP International now benefits from a powerful system for remote shop surveillance, manageable centrally from the head office. With this network video system in place, AP International has been able to improve the employees' sense of safety, as well as enhance their service attitude and professionalism, while meeting the management's demands for shop monitoring. **SST**

Ar Poul Gwen Crepe Restaurants In Paris Gear Up With Network Video

The Mission

In the heart of Paris and in La Baule, the two Ar Poul Gwen crepe restaurants are in very busy locations. Previously equipped with an analog video surveillance system, the restaurant in La Baule needed to move to network video to keep an eye on the new crepe house in Paris and vice versa.

The Solution

Ar Poul Gwen's manager was won over very quickly by the network-based solution Yeddir proposed, because he wanted a solution that was accessible anywhere in the world and covered a broad area of the restaurant. As a result of this, five Axis network cameras with high-definition image quality were installed in the Paris restaurant.

The Result

The restaurant is watched over 24/7. Yeddir maintains the IT network and the surveillance cameras. The manager wanted to expand the system to connect the La Baule and Paris sites to Rio, where he owns another establishment, using TV screens to transmit direct images from each of the three sites.

From analog to IP

The Ar Poul Gwen crepe restaurants are in Paris on rue Etienne Marcel, and in La Baule at 65 avenue du Général de Gaulle. These areas are heavily frequented by both



locals and tourists. The La Baule location already had an analog video surveillance system, but opening the Paris restaurant was a good opportunity to move to network video, considering the exceptional quality it offers. The goal was to have a full view from La Baule of the new crepe house in Paris to see the customer flow and security, and to watch the cash registers in an environment teeming with people.

Two criteria had to be met. Firstly, the system had to depict a wide area in a detailed, high-quality image. Secondly, the system chosen had to be accessible the world over to accommodate the manager's many trips, especially to Rio. Finally, it had to be as simple as possible to use, and ensure a good deal of independence.

Mohammed Diouani of Yeddir, an Axis partner, was familiar with the restaurant because of work done at the Paris site, and he showed them the potential of network video. The manager, Tardy, immediately decided to abandon his analog solution in favour of installing five Axis network cameras that met his criteria.

A complete solution

Five Axis network cameras were installed in two days. For watching over the cash registers and to have a total view of the restaurant, four AXIS M5014 HDTV Network Cameras were installed. These could change viewing angles, locally and at a distance, and provided an HD quality image. For the stockroom — where theft is easier — an AXIS M3004-V



was installed. In addition to the cameras, AXIS Camera Companion video surveillance management software was perfect for the Ar Poul Gwen crepe restaurant, because they expect to open more restaurants and connect them to further screens through the simple, independent, advanced interface. An NAS storage device was installed to optimize the cameras' capacity by sending the flow of videos to a small digital storage bay. This made the system easier to use, providing the greatest possible freedom.

"Managing three geographically distant establishments, it is important to get a simple, effective video surveillance system installed quickly. Furthermore, the ability to connect the cameras to the network and check the images from my computer or cell phone — in complete freedom, thanks to the

management software — were the benefits that clinched my decision", explained Tardy, manager of the Ar Poul Gwen crepe restaurants.

Finally, the solution allows the establishment to be monitored

day and night. And the manager has the ease of knowing that Yeddar maintains the IT network and the surveillance cameras. This means that the owner can check security, monitor and manage his restaurant from a computer or smartphone. **SST**



Electronic Access Solution For “The Chedi Andermatt” Luxury Hotel



Background

The access control system installed in the “The Chedi Andermatt” had two major requirements placed upon it – total compatibility with the internal design and full integration in a complex building control system. And both precepts have been brilliantly mastered with the online and offline components that make up the solution provided by SALTO.

When construction work on the hotel began in 2010, no specifications had been provided indicating how guest-related procedures should be accommodated or indeed implemented. As a result, all the planning was carried out as the building work progressed, that is to say the functional scope and the processes were defined and continuously adapted “on the fly”.

Meeting expectations

The agencies responsible for the project prepared a number of specifications based on the primary

expectations of the hotel operators. “The architectural prerequisites took highest priority and were absolutely binding,” recalled Thomas Hentler, senior project manager at Andermatt Swiss Alps AG, the hotel developer. “Which meant the equipment had to fit in with the architecture. That not only applied to the access control installations, but they of course were also no exception. The requirement was that the guests should not be able to see the technology but that the equipment should nevertheless provide positive user support and easy facility operation. Hence we designed doors, for example, without any cable loops, which is why we have now installed wire-free mortise locks. The wall readers for the guest rooms also had to be concealed. These are now integrated in a hardwood cladding. The only things that indicate the presence of the readers are an LED peering through the panelling and a symbol on the wood.”

Another expectation that had to be satisfied was that guests should be met by an appropriately pre-set ambience as they enter the room. So, for example, the

fireplace, the lights and the media all had to be just right. And those various systems had to be operable not only via classic switching devices but also by means of an iPad. "This was also key to ensuring the extensive integration of the access system into the building control hierarchy. Now, for example, the doorbell has an interface with the in-room iPad, which every guest is provided with. Guests can also use the iPad to adjust all the settings relevant to their room such as heating or lighting levels," explained Thomas Hentler.

The master system here is the building management solution provided by Neuberger Gebäudeautomation AG, Geroldswil, Switzerland. The software processes all the input and output signals and gates them using specific control algorithms. Representatives of the company were always present at meetings in order to assess and examine the various integration requests and possibilities.



A further technical imperative imposed on the access control system design was that it use an IP-based network with two virtual LANs providing an online system both for the room doors and for elevator control. "Given these outline specifications, naturally we had no choice

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but to opt for an electronic access control system. With it, we would be able to not only deliver the required level of user convenience expected by a Chedi hotel, but also offer a wide range of benefits in terms of system management and administration. Such a solution also offers huge flexibility when it comes to changes of use and the related reprogramming requirements, there are no costs associated with keys getting lost, and we can retrieve audit lists in real-time. This in turn means that we would be able to offer the high level of security expected by our guests as a matter of course," said Thomas Hentler as he recalls the decision-making pathway.

Before the project was implemented, Andermatt Swiss Alps AG consulted Ronny Zaugg, managing director of Zaugg Schliesstechnik AG, Lucerne, as to what electronic access control systems might be suitable. They also visited Campus Sursee together, a modern conference centre and vocational training school for the construction industry built in 2010 and located a few miles to the north of Lucerne. Zaugg was responsible for fitting around 1,100 doors of this facility with online and offline access control from SALTO, including 355 hotel room doors.

In describing how Ronny Zaugg's proposal with SALTO Systems won the tender for equipping the hotel, Thomas Hentler stated: "The really decisive factor was that SALTO was able to provide us with a solution that corresponded precisely to our requirements. It was pretty obvious in the case of the other suppliers that they were unable to achieve the level of flexibility needed. We also decided on SALTO because of the sheer range of products available, offering the single-source supply of electronic readers, cylinders and escutcheons. In addition, the SALTO system provides us with the possibility of a refit

later on if there should be a change of requirements."

A further aspect of importance was the free choice of lever handles and mortise locks. The hotel had certain ideas in this respect – or rather architectural specifications – which were met to the full and without difficulty thanks to the adaptability of the SALTO solution. Thomas Hentler again: "How people get on with one another is also an important consideration. Here we had a manufacturer able to accommodate customer requests, a partner that actively participates in the project communication process and that also shows commitment when meeting unconventional requirements – it's so much easier if you are working with someone who is seriously involved, offers good quality and is truly willing to go that extra mile."

The Benefits

Characterising the approach adopted, Ronny Zaugg explained: "Our focus was not just on the sale but also on providing the customer with extensive advice while working together with the developer and operator in order to find a viable solution. You can only do that if you talk to one another and create a proper basis of trust."

The preparatory work and the planning of the installation lasted from April to November 2013, with actual installation of the access solution then taking six weeks. During this latter phase, there were no problems as such, although integration of the various systems did give rise to a number of challenges that needed to be resolved. "Ronnie Zaugg really made things happen in this regard, impressively underlining his commitment to providing a good service," said Hentler in fulsome praise.

The access control system in "The Chedi Andermatt" is largely online in the guest area so that, in particular, audit lists can be created in real-time. This facilitates immediate response whenever required – a security aspect not to be underestimated, given the fame and fortune of some of the guests. The hotel uses a total of 240 XS4 online wall readers for outside doors, room doors and the elevators. "Our stairwells are not freely accessible. That means we can isolate entire floors if, for example, we are welcoming high-ranking guests," explains Thomas Hentler.

The online system is supplemented by an offline-networked infrastructure in the back of house, with the SALTO Virtual Network (SVN) providing the integrating, interfacing capability. For this system, Hentler has had



approximately 150 XS4 Original electronic escutcheons and some 100 XS4 GEO electronic cylinders fitted. The escutcheons serve the administrative offices and the cylinders are installed in the service rooms on the various floors (e.g. storage or luggage rooms). "That means we also have controlled access to the storage areas as well," noted Hentler.

The SALTO Virtual Network (SVN) allows stand-alone locks to read, receive and write information via an

encrypted and secure data-on-card system that utilizes the capabilities of patented RFID read/write technology. In SVN all access data is stored on and distributed by its operating smartcard. When presenting a smartcard to an offline stand-alone door, not only does this control access rights to that door but thanks to two-way communication, the door also writes data like blacklist information or battery status back to the smartcard. The smartcard then transmits this information back to the server via online wall readers that are able to update and receive information from the cards anytime and anywhere in the building.

The access control system is linked not only to the building control system but also to the staff garment hand-out facility, which can only be accessed by means of a card, and also the CCTV systems monitoring the entrance doors. Certain access events trigger the transmission of video pictures to designated security monitors.

The hotel uses SALTO's specially developed Hotel Access Management Software (HAMS). Managing of access rights and card encoding for the employees is handled entirely within the HAMS environment. For guests, only the coding of the cards is carried out by the software. For this, the system takes the master data from the PMS (Property Management System), Micros Fidelio. **SST**



German Hypermarket Puts In Place Comprehensive Surveillance Solution

Building an impermeable security infrastructure for protecting consumers and employees

The EDEKA Group is one of Germany's most successful companies, with success attributed to the seamless collaboration between the three levels of the Group - management, wholesale, and retail. EDEKA Voth in Lemgo is one branch among several EDEKA's retailers. EDEKA HQ is located in Hamburg, where strategies are formulated to create and maintain smooth IT structures throughout the entire organization. The wholesale level, comprising seven regional wholesale businesses, is to supply top-quality goods to 4,000 subsidiary, self-employed retailers nationwide, and support management in terms of distribution and expansion. The retailers provide not only top-class products, but also friendly and professional customer service. The EDEKA Voth management acknowledges that the security plays a crucial role influencing the stability and sustainability of operations. From this aspect, EDEKA Voth places considerable effort in building an impermeable security

infrastructure for protecting consumers and employees. EDEKA Voth has reviewed its security options in 2013.

A comprehensive solution designed for encompassing the entire branch

SECOMP, a German-based distributor of VIVOTEK products, is widely known in the industrial, commercial, and institutional sectors for providing quality services in Germany. Therefore, SECOMP was commissioned to revamp the security system in EDEKA Voth. Following careful planning and cooperation with CNS in Lemgo, a comprehensive solution was designed that encompassed both indoor and outdoor surveillance throughout the entire complex. Twenty-four VIVOTEK's cameras were installed





throughout the complex, comprising a combination of FD8166, FD8335H, IP7361, and MD7560.

FD8166, regarding its ultra-mini size, low-profile design and the excellent quality, was specifically selected for monitoring grocery aisle activity. Twenty FD8166 cameras, one between two aisles, were installed throughout the complex. This model features a two-Megapixel CMOS sensor capable of capturing 1920x1080 resolution video at 15 FPS. Additionally, the camera supports the industrial-standard H.264 compression technology, which drastically reduces file size and conserves network bandwidth. This technology is essential in this context due to the number of cameras installed.

The fixed dome network camera FD8335H, featuring WDR Pro, removable IR-cut filter, and built-in IR illuminators, was selected for monitoring back door activity around the clock. Designed with one-Megapixel CMOS sensor, the camera is capable of capturing 720p HD at 30 FPS. Additionally, the IK10- and IP66-rated housing renders this model ideal for outdoor applications.

The bullet style IP7361 was selected to monitor the warehouse loading area. The IP7361 is equipped with a two-Megapixel CMOS sensor (1600x1200) with a six to nine millimetres vari-focal, auto-iris lens that enables the camera to deliver extremely detailed images at six times the coverage of conventional VGA cameras without sacrificing storage space or network bandwidth. Similar to the FD8335H model, the IP7361 features the IP66-rated housing, removable IR-cut filter, and built-in IR illuminators, making this model perfect for outdoor surveillance.

For the entrance of the complex, fixed dome network camera MD7560 was opted. The MD7560 features

an advanced two-Megapixel CMOS sensor capable of capturing 1600x1200 resolution video. It also supports a wide-angle lens, making this camera ideal for areas with high volumes of activity, such as store entrances. The IP67-rated tamper- and vandal-proof housing further increases the robustness of the camera, enabling it to withstand the harshest environmental conditions.

Achievements: Full satisfaction with the performance and high confidence in future collaborations

Overall stringency in surveillance has increased significantly since the employment of the solution in November 2013 while maintaining the ease of use and seamless operations. The customer is fully satisfied with the performance of the solution and expresses confidence in future collaboration.

The strategic advantages of reinforcing the security of an organization from the bottom of the structural pyramid are countless. At a consumer level, the tangible sense of security throughout the shopping experience elevates consumers' loyalty, satisfaction, and repurchase intention, generating positive word-of-mouth. At a management level, a sound security infrastructure frees decision-makers to tackle other aspects of management, formulating decisions with greater value for the company. At an organizational level, consumers' positive word-of-mouth and managers' favourable decisions created in the previous levels reinforce investor confidence in the organization, ultimately increasing market size. Therefore, the state-of-the-art solutions developed by VIVOTEK not only explicitly satisfy security and surveillance demands, but also implicitly promote organizational progress. **SST**



AVILON Car Dealer - Safety And Security At The Ultimate Level



The Mission

The video surveillance solution for AVILON Car Dealership Group had to meet the following requirements: surveillance for lobby (with detection of vandalism and robbery), 24/7 surveillance for parking lots, surveillance for the repair bay, and recording of incidents in format suitable for crime evidence and government authorities.

The Solution

According to the above mentioned customer requirements, the video

surveillance system required megapixel IP cameras offering not only highly detailed images, but also meeting usability requirements. For indoor surveillance in showrooms, service and repair bay and acceptance and pre-sale preparation rooms, AXIS P3344, AXIS P1344 and AXIS 215 PTZ Network Cameras were selected. For outdoor surveillance, AXIS P3344-VE Network Cameras were chosen. As planned, they had to be flush-mounted to the ceiling or installed using mounting brackets and adapters to building corners, walls and poles.

The Result

After implementing the new video surveillance system, AVILON related that robbery and incidents of vandalism were significantly reduced, and claims regarding car technical maintenance were reduced as well. As a result, the implementation appears to be mutually profitable. In the future, the customer plans to further expand the video surveillance system by installing additional cameras in new facilities that are currently under construction: new car showrooms and a new parking lot.



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Security surveillance

AVILON Car Dealership Group is one of the biggest car dealers offering Rolls-Royce Motor Cars, Mercedes Benz, BMW and MINI, Volkswagen, Ford and Hyundai cars. There are specific challenges every day for a car dealer - many valuable assets belonging to the company and its clients value in the hundreds of millions. Therefore, car dealers always represent an attractive target for criminals.

Video surveillance can facilitate not only in crime investigations, but also prevent such incidents from taking place. A high quality image may represent invaluable evidence and greatly facilitate field investigation, while alarm signals sent by cameras can enable security personnel to seize a criminal before he or she runs away.

Video surveillance also plays a preventive role. When a perpetrator sees a surveillance camera, this fact may deter him or her from car theft or vandalism.

The customer is always right

The first law of marketing, "the customer is always right", is not only driving force, but also in many situations a "headache" for the merchant. Many car owners are afraid that service engineers may be careless and damage the car in repair. As a result, conflict situations may arise because car owners cannot stay in the repair bay during service as it is prohibited by safety regulations.

Video surveillance systems may easily solve this problem, too. With PTZ cameras installed in repair bays, clients can relax in comfort in the waiting room and see on public monitors how their cars are being serviced by service engineers.

As practice shows, this business service not only significantly reduces claims and reclamations regarding car servicing, but also offers confident evidence in case of conflicts. In addition, the presence of cameras in the repair bays stimulates service engineers and workers to be more careful and accurate.

What are the needs of a car dealer? The video surveillance system must be effective and reliable, and provide very accurate and up-to-date information together with highly detailed images. Nowadays, this can be provided by megapixel IP cameras. Optimum surveillance solutions include an ideal combination of different cameras: dome cameras with wide angle lens give an overview and

detect suspicious events; standard HDTV cameras provide highly detailed images for critical areas; PTZ cameras with zoom lens allow tracking of visitors or personnel. Also, PTZ cameras are an ideal choice for a forced continuous recording in case of conflict situations.

A video surveillance system is a part of the business process, featuring its own investments and total cost of ownership. Today, IP surveillance offers a very cost-effective solution. A properly installed megapixel IP camera can replace four analog cameras and an IP solution allows significant reductions in installation costs since it can use an existing cable network. **SST**



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Key Control Systems Leave Nothing To Chance At Sister Properties Casino Arizona And Talking Stick Resort



The Mission

Casino managers, like managers in any other market, leave nothing to chance when it comes to the operation of the business. To protect the bottom line and guard against fraud, they rely on established practices and procedures and industry favored technology such as Morse Watchmans key control and management systems.

The Solution

At sister properties Casino Arizona and Talking Stick Resort in Scottsdale, Arizona, the Morse Watchmans KeyWatcher® key control system is used to store, control and track keys that are used for access to all the most sensitive and highly secured areas of the casinos where money and chips are held, including the slot department and cages. A KeyWatcher key system is also used by the casinos' security departments to store and track keys needed throughout the facilities.



Designed for optimum key security, KeyWatcher key control cabinets will not open until the system verifies that the user has permission for the specific key requested and the system automatically records all activity.

“We like that we have key accountability and tracking of all keys on-site with the KeyWatcher system,” said Roxanne Manwell, Access Control supervisor, Casino Arizona and Talking Stick Resort. “It alerts us when keys are not turned in correctly and/or are overdue and we can send out the report to the departments for notification purposes.”

The Results

The KeyWatcher system and accompanying KeyPro™ software, in place since 2004, enable Casino Arizona and Talking Stick Resort to meet the various Arizona Indian Gaming Statutes regarding key control and management. Custom software enables the casinos to set up all these and many other types of reports, which can be emailed to management on a regular basis.

Manwell added, “Tracking and reporting is critical in our industry and the KeyWatcher eliminates the need for manual logs and paper trails because it records everything and prints a report with a couple of clicks. The reports are easy to run and manage when going through our yearly audits.”

Casino Arizona and Talking Stick Resort are owned and operated by the Salt River Pima-Maricopa Indian Community (SRP-MIC), a sovereign tribe located in the metropolitan Phoenix area. In addition to Casino Arizona and Talking Stick Resort, the SRP-MIC own and operate several other enterprises including Salt River Materials Group and Saddleback Communications. Casino Arizona and Talking Stick Resort are both located in Scottsdale, offering visitors over 100,000 square feet devoted to gaming, dining, and entertainment. Amenities include slots, blackjack, keno, and five unique restaurants.

KeyWatcher systems used at Casino Arizona and Talking Stick Resort were configured and installed by Genesis Resource, Inc. a leading provider of electronic key control systems in the casino industry. **SST**

Justin Mobile Key, The New Star Of Hotel Astoria 7



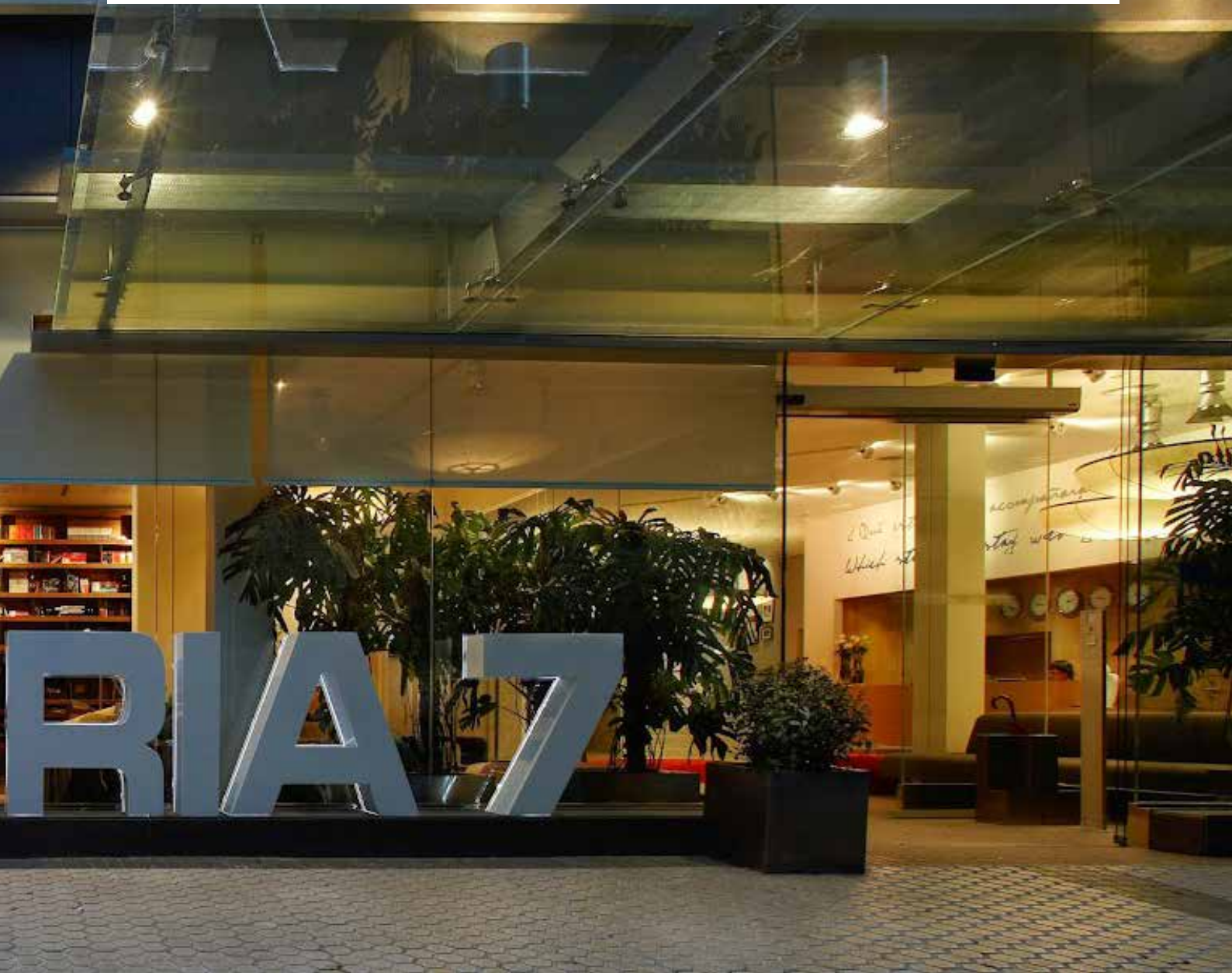
The Astoria 7 hotel in San Sebastian, Spain, is one of the first in the world that can now manage the reservations and stays of its guests by sending their room keys direct to their smart phones.

Opened in April 2009, the Hotel Astoria 7 is the ideal hotel for lovers of cinema. Built on the foundations

of a former Gipuzkoa cinema, the hotel appeals to an eclectic mix of travellers, business executives and arty types and is one of the most exciting places to stay in the city of San Sebastian. With an aesthetic based on film, each of the hotel's 102 rooms is themed to a particular movie star of national or international cinema. This enables

guests to relax and spend the night in the company of Glenn Close, Sean Penn and Quentin Tarantino among others.

So its no surprise that the hotel prides itself on its relaxed and welcoming environment, combining both comfort and functionality to improve the guest experience. Key to this is





its continuing adoption of the latest technology. Already established users of contactless hospitality access control from SALTO, the Astoria 7 has once again pushed its envelope through being the first to adopt SALTO's new JustIN mobile key technology to allow its guests to be among the first anywhere to access their rooms by using their own smart phones.

SALTO and JustIN Mobile Key

Specializing in wire free and wireless access control, Spanish based SALTO is today an international benchmark in contactless access control solutions, with more than two million electronic locks installed in some of the most prestigious buildings in the world. Every day it is estimated that more than 14 million around the world use technology and access control systems from SALTO.

The demand for mobile access solutions is rising sharply. Hotel operators, for example, want mobile phone applications that make it easier for customers to book, check

in, access their rooms and check out without having to wait at reception. In response to this SALTO have developed "JustIN Mobile Key". This is a revolutionary and intuitive mobile application that allows smart phones to communicate with SALTO wire-free electronic locks, providing access to a hotel room without having to rely on traditional mechanical keys, magnetic stripe cards or even contactless proximity cards.

Thanks to this application and wireless electronic locks from SALTO incorporating this technology, together with a first class installation provided by local SALTO partner i-SAI, the Astoria 7 Hotel can now not only provide guests with a room, but they can also give them a smart key to access it. Its all done simply and quickly upon confirmation of booking. The guest just confirms their reservation and that they want to receive the key to their room directly to their smart phone (iOS or Android) and its done.

Key Benefits

The technology helps minimize

queuing at hotel reception, and allows staff to spend more time with the wellcoming processes and customer orientation. "It's about having a hotel that's fully connected to our guests needs enabling us to enhance their visit to both San Sebastian and our hotel" explained Guillaume Fontagné, director of the Astoria 7 hotel. "In addition, SALTO technology allows us to get know our guests better and to have a more human relationship with them," added Fontagné.

Another feature that highlighted the relationship between the San Sebastian hotel, SALTO and i-SAI was the efficiency, service and professionalism of its staff during the project. Throughout the design, installation, commissioning and training phases, no inconvenience was caused nor activity interrupted by the change over to the new mobile enabled wireless locks.

JustIN Mobile Key from SALTO is the new application through which the Hotel Astoria 7 now offers its guests a unique experience, providing them with unparalleled convenience to ensure their maximum comfort. **SST**

VIVOTEK Cameras Create A Secure Environment In Poland's Hotel Bania

Background

Located in Bialka Tatrzańska Mountain Resort in the central Tatra Mountain region, Bania Hotel is among the most luxurious hotels in Poland. An excellent location, top quality service, and numerous attractions make Bania Hotel truly exceptional. This hotel is a perfect destination for families and couples wishing to enjoy peaceful leisure and an ideal location for adventurers seeking intense experiences.

The Challenge

Customers, staff, and hotel facilities require sound protection. Feeling relaxed and not worrying about security problems are critical for guests during their stay at Bania Hotel. Therefore, an array of indoor and outdoor surveillance solutions is required throughout the complex. To satisfy the end user's needs, features such as megapixel image quality, round-the-clock surveillance, intelligent IR illumination, and Wide Dynamic Range (WDR) functionality are essential. The system must also be user-friendly, thereby enabling immediate response to any potential incidents.



The Solution

Bania Hotel management chose VIVOTEK's products, which provide optimal cost-to-performance ratio among numerous surveillance solutions available on the market. VIVOTEK is a widely known brand with prestigious deployments worldwide. VIVOTEK's surveillance solutions consist of top-quality products built with state-of-the-art technology while being cost-efficient - a characteristic lacking in other leading brands.

For indoor surveillance, security specialists recommended the reliable fixed dome network camera

VIVOTEK FD8134. This high-quality megapixel camera comprises a compact and discreet design, and is equipped with IR LED illuminators required for night-time monitoring. This device is powered by PoE technology, and features a slot for SD/SDHC memory cards that enable local recording; thus, no data will be lost in the unlikely instance of malfunctions. VIVOTEK FD8134 is an excellent choice for locations such as corridors, storage rooms, and staff-only areas. In Bania Hotel, VIVOTEK FD8162 was employed in areas requiring special attention, such as lobbies, entrances, and places frequently visited by guests. This full HD image quality model features a vast array of additional functions including a PIR (Passive Infrared Sensor) sensor for enhanced motion detection, WDR for processing highly contrasted scenes, and Focus Assist for quick and easy focus adjustments.

For outdoor areas, the advanced VIVOTEK IP8335H bullet camera was employed. In addition to superior image quality and rock-solid reliability, this model offers a series of advanced features including powerful WDR Pro for high contrast environments, P-iris technology to achieve sharp images under changing light conditions, and Focus Assist for quick and easy focus adjustments. VIVOTEK IP8335H also features IP67 weather-proof housing, an SD/SDHC memory card slot for local storage, PoE support, IR LED illuminators, and removable IR-cut filter for securing surveillance quality and image clarity around the clock.

Customer Feedback

VIVOTEK surveillance is, without doubt, Bania Hotel's optimal choice. Both the installing company and end-user acknowledged the high quality and exceptional value delivered by VIVOTEK products. With the assistance of specialists from SUMA, VIVOTEK's key partner and distributor in Poland, an excellent surveillance system was delivered, thus fulfilling the end user's high expectations.

"With excellent image quality and reliability, VIVOTEK cameras are the key to this successful deployment," said Pawel Dziubasik, owner of the Bania Hotel complex. "In addition, the designs of VIVOTEK cameras fit the elegant style of our hotel in both indoor and outdoor areas. The entire system is discreet yet stylish while maintaining harmony with the hotel's traditional mountain region look". **ESST**



Hyatt Regency Dallas Implements Sturdy Key Control And Asset Management System

Background

Having to abide by and work with technology and/or product choices made remotely by a head office can sometimes be a challenge for branch locations. The local situation or circumstances may be slightly different than corporate or the feature set of the product may not exactly meet everyone's requirements, leading to a less than

satisfactory solution.

The Hyatt Regency Dallas

This was not the case however for the Hyatt Regency Dallas which recently implemented the Morse Watchmans KeyWatcher Touch™ key control and asset management system per the key management policy set by corporate head office. According to Moses Barrera, director of Security

for the Hyatt Regency Dallas, the KeyWatcher Touch system features are exactly what they need to ensure key accountability and accurate reports which ultimately add to the hotel's reputation for excellence.

"A commitment to unparalleled service and amenities distinguish this iconic property from other hotels in the heart of Dallas's historic district," said Barrera. "The KeyWatcher



Hyatt Regency



system helps us achieve that same type of commitment in the back of the house by providing actionable information. Using KeyWatcher, we are able to take preventive measures rather than after the fact reactive measures.”

The Benefits

With KeyWatcher Touch installed at the hotel about a year ago, keys are secured in a locked tamper-proof cabinet and only authorized users can access those keys which they have been pre-approved to use. All key access activity is automatically documented so hotel management has an accurate record of who accessed keys and when. The system’s automatic email notification provides Barrera with instant awareness when a key has not been returned as scheduled and can even be programmed to send an alert if a key has not been accessed per the regular schedule.

Customized and scheduled PDF

reports can be automatically emailed to authorized recipients or scheduled for any frequency or specific time. They can also be accessed using the Morse Watchmans smart phone app. The managing software package runs all programming, remote functions and reports while the server performs all synchronizations of transactions as well as maintaining the SQL database.

“We use the various reports to track trends as well as follow up on any incidents or questionable activities,” he said. “The system gives us the flexibility to collect and analyse the information for whatever best suits our needs.”

Barrera confided that he had no doubts about the usability or performance of the Morse Watchmans technology based on his previous use of the key management equipment while he was located at the Grand Hyatt Seattle. He mentioned as well that the Dallas

property also uses the PowerCheck® Guard Tour Systems from Morse Watchmans and has had an equally positive experience with the system.

The computerized PowerCheck Guard Tour System is comprised of a hand-held data recorder, checkpoint stations, and reporting software. The hand-held data recorder allows the hotel’s security personnel to input incident codes on site, using the built-in keypad and display. The Tour-Pro™ Data Sorting Software is a Windows® application which converts the data recorder information into custom reports that are used by Barrera’s department.

“Information is key in a security operation and the solutions from Morse Watchmans that we are using here at the hotel give us the accurate information that we need, when we need it and how we need it,” added Barrera. “It really helps to keep our side of the house running smoothly.” **SST**



Mobile Access Makes Life Easier And More Secure for Busy University Campuses

Article courtesy of HID Global



Introduction

Industry advancements that enable smartphones to carry credentials offer the opportunity for students, faculty and staff at university campuses to use a ubiquitous device to open doors and perform other tasks that require presentation of a secure credential. University administrators know that cell phones seem to be permanently in their students' hands, making their use for access convenient and quite natural.

An ideal vehicle for secure credentials

In addition to improving convenience, mobile access enables universities to reap the benefit of cost savings on credentials. Plus, students lose their cell phones less often than they lose their cards so, ultimately, the cost for replacement credentials is reduced.

University employees also benefit from carrying credentials on their phones. They aren't required to wear their ID cards, so they may arrive at a facility without one and have trouble gaining access. But since most carry their cell phone everywhere, the ability to gain access is a given if these phones also carry their credentials.

In addition, the latest solutions enable universities to implement mobile access on a variety of smartphones without the need for any hardware add-ons or attachments, such as having to insert a handset into a sleeve or slide if it does not support certain features. Institutions that have piloted the HID Mobile Access solution say that this improves user convenience while also giving the university a greater degree of flexibility in offering students, faculty and staff the ability to use their smartphone as their credential without incurring additional expense.

Pilot findings

Pilot deployments have shown that a big requirement for mobile access adoption is the ability to use a broad range of phones without a sleeve, slide or other add-on accessory. University administrators have seen NFC pilots in the past but prefer a solution that doesn't require additional hardware to work on a wide range of handsets. And when they can build on their existing infrastructure, such as an iCLASS deployment, it makes for a natural progression.

Universities are also using pilots to see if solutions are as easy to use as they sound in theory. Unless the alternative to using an existing card is as easy and convenient as mobile access, few administrators see people actually using it. They also need to be sure that the solution is secure and easy to administer.

University pilots of HID Mobile access have met these goals. Early areas of investigation have included questions about what happens to the system if the power goes out. When door access is with fail-over generators, users can still enter buildings during a power failure. Pilot participants also realize that, when using a smartphone for mobile access, the device itself must have battery power in order to start the communication between the smartphone and the reader. Most testers report little to no change in battery life on devices that are supporting the HID Mobile Access App.

Reactions from pilot participants have been very positive. According to one university administrator, "they love the convenience – rather than having to dig out their ID cards they just use their phones, which in most cases are already in their hands."

Another popular feature has been HID Global's "Twist and Go" gesture-based capability, which offers another option for opening doors beyond the traditional "tap" model. HID Global's patented gesture technology enables users to open doors either with a "tap" of their phone to the reader like a typical contactless card or, by using their Bluetooth connection and gesture technology, to open doors and parking gates from a distance by rotating their smartphone as they approach a mobile-enabled reader. Pilot participants have said they "absolutely loved" using the "Twist and Go" capability to open the garage parking gate; as they drove up to the reader, it was incredibly convenient to not even have to roll down their window as they approached.

Pilot participants have tested a variety of security options from within the Mobile App. At one university, wireless network users are required to employ a PIN/passcode to lock the device so this also increases security. There are many layers of security to consider. Two such examples include:

- Mobile IDs are stored in an area of the device which has been designed for the storage of sensitive information. In addition, we are not storing the credential directly but rather Seos SIOs (Secure Identity Objects). These are NIST Suite B encrypted and are tying the diversified key (no master key) to the device, so that it will not work on another device
- The transaction between phone and reader is not dependent on NFC or Bluetooth Smart security. HID encrypts the data on top and also employs tamper detection, so that we know if sniffing attempts are being made. In addition, the device can be set up with a passcode, so that if lost, it cannot be used to enter the building.

Key requirements

There are four key innovations that are required to most effectively deploy mobile access:

- **The ability to use a broad range of phones without a sleeve, slide or other add-on accessory:** The mobile access control solution should support a broad selection of devices including Apple iPhone 4S, 5, 5C, 5S, 6 and 6 Plus devices and a variety of Android-based devices such as the Samsung Galaxy S4 and Mini 3S handsets. Unlike other mobile access solutions, the HID Mobile Access App supports iPhone 4S models and forward without requiring a sleeve or other add-on accessory. The HID Mobile Access App can be easily downloaded at no charge from either Apple iTunes or Google Play.
- **The ability to use a single reader that simultaneously supports existing legacy ID cards as well as Mobile IDs:** The HID Mobile Access solution is based on HID Global Seos technology that supports both traditional iCLASS smart cards and new Mobile IDs on smartphones
- **The ability to offer users a "tap" or "Twist and Go" access experience depending on their preference:** Universities are choosing solutions that support of Bluetooth Smart short-range communication technology for access control, so they can open doors either with a "tap" of their phone to the reader or from a distance by rotating their smartphone as they approach a mobile-enabled reader
- **The ability for the system administrator to easily issue Mobile IDs using a process that takes both administrator and recipient less than 5 minutes to implement:** Universities want the credential provisioning process to be fast and straightforward. HID Mobile Access pilots have

shown that it is a very straightforward process to push Mobile IDs out to user handsets and revoke them as necessary. Likewise, it is easy for the recipient to download the HID Mobile Access App from either Apple iTunes or Google Play and then accept the invitation to receive a Mobile ID

Deploying the pilot

Pilot deployment has been a step-by-step process in which the university and HID Global are closely aligned. Clear expectations are set around the desired use cases, expected performance, and other criteria. The partnership between HID Global and the university helps to ensure early success for the participants and the ability to implement improvements as they became available. The process generally works as follows:

Step #1: Review the overall solution with an emphasis on the ability to: (1) use existing smartphones; (2) support both legacy cards and Mobile IDs at the same reader; and (3) leverage the existing access control infrastructure in place on campus.

Step #2: Identify a few access points where the new system could be installed and tested. Universities generally want to put the system through its paces in a variety of environments (parking, residential hall, offices). In one example, the existing contactless HID Global iCLASS access control infrastructure was used to set up a pilot system in which six existing iCLASS readers at campus entry points and a parking garage were swapped out with the HID Mobile Access solution powered by Seos technology.

Step #3: Train system administrators on how to issue/revoke Mobile IDs, and train campus staff on how to install and field-configure readers for optimum performance in various environments, among other capabilities.

Step #4: Choose students, faculty and staff to participate in a beta program and provide feedback.

Step #5: Take the feedback and evaluate and implement continual improvements in the solution (from the manufacturer) to continue tweaking and improving its use on campus.

Results

In one pilot example, a group of 15 users (faculty, staff and students) participated, in a variety of different environments (parking gate, residence hall entries, office suites). The group brought to the pilot a range of different Android and iOS handsets (and are still using them) that were used with the piloted readers.

Mobile ID provisioning was fast and easy. The university's system administrators particularly liked how they could see the status of the invitation and each device all the way through the registration and provisioning process.

A survey of participants was undertaken by HID Global to gather user feedback to the pilot. In all cases where doors were equipped with the pilot solution, users stopped using their existing contactless iCLASS cards and started using their phones to gain access. Users said that convenience was the main reason they switched to the handset. Respondents further pointed out the benefit of using their phone as a backup in cases where their cards were lost or stolen. They also said they loved the "Twist and Go" functionality not only for convenience, but also for the "coolness" factor of opening a door while approaching it and not having to touch their card onto a reader first.

In addition, pilot participants validated the efficiency and simplicity of installing and registering the HID Mobile App, citing that it required five minutes or less to complete the process, and it was a self-explanatory and intuitive experience. Even people not participating in the pilot were impressed, and reacted with comments such as "that's so cool – I want that too!"

Future Applications

Following the conclusion of successful pilots, the next step for universities is to evaluate how to install more readers with the HID Mobile Access functionality, especially in new buildings. This allows more users to benefit from the capability with their own handsets, while still retaining interoperability with legacy card technologies.

Pilot participants have cited a number of potential future applications for Mobile Access. According to one participant, parking gates are a great use of the "Twist and Go" feature because of the way the range can be defined when the reader is programmed. Also office suites and meeting spaces are ideal especially as many universities don't require staff to display their ID cards, and yet know they rarely go anywhere without their phones. Beyond physical access control, one pilot participant said they would love to see readers available for vending, time and attendance management, point of sale, laundry access and use – in fact anywhere there is currently a card reader.

For more information, please visit: www.hidglobal.com

ESST



10 Strategies To Maximize Store Productivity With Real-Time Video Intelligence

Article courtesy of Axis Communications

Introduction

When it comes to in-store business intelligence, retailers can now literally remove the blindfold that has been holding them back. With the use of real-time, affordable visual intelligence, today's retailers can clearly see the path to understanding daily activity in the store and maximizing the use of every square foot.

New data from network-based video, combined with data from existing sources, presented in easy-to-use reports, will drive more targeted decisions about merchandising and promoting products, directing traffic more effectively through the store and maintaining best-in-class customer service at all touch points. Customers will enter the store with a clear purpose and leave happy with purchases in hand.

As retailers and brand manufacturers become more willing to collaborate, real-time video intelligence will provide the means for information sharing that will benefit both partners. Suppliers can test different promotions, packaging and product placements that will bring the most bang for the buck, creating significant upticks in sales that inevitably benefit the retailer and the supplier.

"This can be a valuable investment for both small and large retailers," noted Bart Butzer, former executive vice president of stores for Target Corporation and president of Mervyn's. "Larger chains most likely already have the resources, processes and mechanisms in place to use video intelligence internally to improve in-store marketing, and also will be able to leverage the data across the supply chain, improving collaboration with suppliers. For smaller stores I believe this system can offer great value if retailers invest the time and resources to use the information to their advantage."

With real-time visual data, store management can be empowered to make operational decisions in a timelier manner, improving operations, sales and customer satisfaction based on daily information rather than weekly, monthly or annually.

Today's best-in-class video intelligence solutions are based on IP video or network video and will be fully integratable with current in-store systems, including traffic counting systems and cameras. Built on open standards for future growth, the best system will be affordable, easily installed and user friendly.

10 strategies to real-time retail enlightenment

1. Embrace real-time retailing
2. Empower store managers
3. Monitor store touch points
4. Direct traffic more effectively through better merchandising
5. Reduce shrink with on-shelf tracking analysis
6. Enhance multichannel marketing
7. Create better retailer-supplier collaboration
8. Leverage existing infrastructure and integrate in-store systems
9. Install best-in-class equipment
10. Plan for future growth

Embrace real-time retailing

To successfully implement real-time video intelligence, retailers must first embrace the concept of real-time retailing. Instead of only viewing sales as a product of days, months or seasons, as they have in the past, retailers must narrow their view to get closer to real time.

"The Internet and the widespread adoption of broadband connectivity have introduced the notion of 'real-time' or 'near real-time' information to retailers' operational processes," according to the Retail Systems Research (RSR) report *Improving Retailer Responsiveness with Real-Time Business Intelligence*. "Many retailers want to enable their operations with near real-time alerting, reporting and performance management capabilities." This real-time actionable information can be referred to as "operationalized real-time business intelligence," notes RSR, which is "critical to improving retailer responsiveness."

With access to real-time data, retailers can respond more effectively to changes in consumer demand.

Simultaneously, retailers are able to "maximize their operational efficiency, by focusing more of their labour spend on activities that build consumer loyalty, and to lower the amount of paid-for inventory while at the same time improving (lowering) out-of-stocks on the selling floor," according to the RSR report.

The most effective way to monitor all store activity, from warehouse dock to POS transaction, is with an integrated platform that delivers daily reports and provides a user-

friendly mineable dashboard. "Combining real-time signals from the store on a consistent platform can help the retailer better understand consumer and store activity," said Hung LeHong, Gartner analyst, in an August 2009 report titled The Real-Time Store Monitoring Platform.

Retailers should aim to collect all available real-time signals into an integrated platform, including:

- Point of sale transaction log (POS TL)
- Customer traffic
- Video over IP (network video)
- Radio frequency identification (RFID)
- Location-aware applications
- Remote monitoring of appliances, including heating, ventilation and air conditioning (HVAC)

Taking the lead from the online channel, brick-and-mortar retailers are becoming more attuned to the benefits of real-time data. Although until now many of the technology offerings that facilitate real-time retailers have been cost prohibitive, recent additions to the marketplace are making them affordable and cost-effective for retail stores.

"In the past, real-time in-store data has been collected through expensive processes," said Alexei Agratchev, founder and CEO of BVI Networks. "Now improvements in cameras and video analytics have made it possible for retailers to track the data, design better store layouts and maximize in-store real estate with better-placed fixtures and signage. Then retailers can test these new strategies to determine how well they perform, completely transforming the way retail business is done" in the marketplace and to protect and enhance the value and integrity of its trademarks.

Empower store managers

The most forward-thinking retailers will now take a fresh look at the role of the individual store managers and begin to arm them with real-time data, empowering them to make actionable decisions in a timelier manner.

Successful retail executives will work with store management to execute strategies that deliver immediate results from the store floor.

"CIOs and their team should work with their business

counterparts in store operations, merchandising and marketing to determine what business processes can take advantage of real-time signals," said LeHong.

A system that enables information flow to multiple levels of the organization at the same time can facilitate the cross departmental collaboration that creates a high performing retail business. American Apparel has taken this concept even further, by charging store associates with store success. "Access to real-time video intelligence is helping us track associates on their levels of customer service," said Stacey Shulman, director IT – Retail, for American Apparel. "In our test store we are reporting better customer service and our conversion rates are up pretty drastically from when [video intelligence] was first implemented." American Apparel, both a retailer and supplier, began a single store pilot of the integrated video intelligence solution in June of 2009 and rolled out 25 additional stores in October.

Monitor store touch points

The key to optimizing customer service inside a store is to attend to every square foot in the store. With video intelligence technology, retailers can get valuable data and insights on every part of the store, from entrances and aisles to customer service, dressing rooms and even bathrooms. In addition, while creating a better customer environment retailers also can save time and money by improving labour scheduling throughout the store.

"We are monitoring and better managing wait time in customer service areas, for example the service deli and checkout," said Gary Hawkins, CEO of Green Hills Supermarket and President of Hawkins Strategic in Syracuse, New York. "We then leverage that information, received in regular reports, to improve wait time for customers. We also can link this information to labour scheduling to improve labour efficiencies throughout the store."

Video intelligence also provides valuable information on customers' movement throughout the store – including where they stop for a significant amount of time. Called dwell analysis, this lets retailers know which aisles and products are attracting consumers. American Apparel is planning to use dwell analysis to evaluate employee productivity. "We will look at how much time managers spend in their office versus on the store floor, and the effectiveness of customer interaction with new staff

members," said Shulman. "This is valuable feedback we could not get without a system like this."

Beyond the store floor, video monitoring can improve customer satisfaction in other vital areas, such as the bathroom and fitting room areas. "If the fitting room or bathroom is not clean it definitely affects customer satisfaction," said Michael Anderson, vice president of field services at Lifetouch. This is particularly useful for retailers who have unattended fitting rooms. "We see significant value with this system," said Hawkins. "We are able to monitor traffic flow across our two entrances and review customized reports by hour or by day, to understand when the optimum times are to open and close each entrance. We now have benchmarks that we can work against."

Direct traffic more effectively through better merchandising

Marrying the art of retail with the science of retail is an on-going struggle. Acknowledging the experience and expertise of retail managers and buyers, it can be valuable to give them some leeway when it comes to inventory selection, merchandising and promotion. But the value of factual information about customers' movement through the store, dwell analysis and overall in-store behaviour cannot be minimized. Putting that data in the hands of these talented individuals is where the real improvements can be created.

Using video intelligence, retailers can track shopper behaviour using analytics that are integrated with in-store data sources such as point-of-sale. The result is on-going traffic and conversion-rate analysis, not only for the store, but also by aisle, display and down to the SKU level. This data allows a retailer or manufacturer to optimize layout, shelving, displays and packaging based on real data, minimizing the guesswork that has long been an art form in the retail business.

"With the video intelligence system, we can find out how many customers go down the cereal aisle when entering the store, and how many actually spend some dwell time in front of Kellogg's or certain categories, then how many make a purchase," noted Hawkins. "That's the information that helps us understand traffic flow around the store and allows us to make better merchandising decisions."

In-store video intelligence is a competitive differentiator because it enables a much deeper understanding of how

consumers respond to products, product placement, packaging and promotions," added Leslie Hand, research director, Global Retail Insights. "For example, intelligence regarding a product promotion that seemed successful on the surface may reveal that 50 per cent of customers that stopped to look at the promotion compared it to something else, or simply changed their minds after reading the ingredients."

Reduce shrink with on-shelf tracking analysis

When integrated with on-shelf tracking systems, video intelligence can provide information on out-of-stocks and loss prevention analysis. For example, certain products are considered "high shrink" items, which are pilfered more often than others, such as razors, high-end cosmetics and alcohol. With visual information on how and when the shrink is happening, retailers can make changes to minimize the problem.

"By integrating different data sources into one platform, our system can track products all the way through from the dock to the stockroom to the floor and the POS," said BVI's Agratchev. "With this information in hand, retailers and suppliers can make better decisions about what to stock and where to merchandise it."

For retailers who already have loss prevention systems and cameras in place, a best-in-class video intelligence system can be integrated with loss prevention and monitored independently by different groups in the organization. "Different groups in our organization can view data based on permissions programmed into the system," noted Shulman. And everyone is happy, she added, because the video intelligence system provides better-quality images and is easy to maintain.

Enhance multi-channel marketing

The multitude of information gleaned from online marketers has motivated brick-and-mortar marketers to meet the challenge and find ways to gather the same type of granular information at the store level.

Integrated video intelligence answers that call. "In-store video intelligence does for in-store customer marketing what social media and Web analytics does for on-line commerce, levelling the playing field between channels to a certain degree," noted Hand.

As stores become able to gather more detailed information, the entire multichannel experience is enhanced. "Use of video intelligence in a brick-and-mortar environment designed to capture customer activities can be blended and compared with similar data available from the online channel through Web analytics to help formulate more effective multichannel retailing analysis," said Janet Sherlock, AMR research analyst.

"Retailers can expand learning from Web analytics such as time on site, shopping funnel, abandonment and product conversion by applying in-store analytics from video intelligence to optimize enterprise merchandising and customer experience. For example, a merchant that knows her in-season key item top converts 50 per cent more in stores when displayed on a main aisle display table with a mannequin may choose different online merchandising tactics to achieve the same conversion rate." "Ultimately, a multichannel retailer will build a platform that looks at real-time signals from many different customer touch points — such as combining signals from the Web, mobile devices and the store," noted LeHong. "This would allow retailers to monitor cross-channel processes, such as order-on-the-Web/pick-up-in-the-store."

Create better retailer-supplier collaboration

Video intelligence offers a significant opportunity for retailers and suppliers to work together, improving the bottom line for both partners. And often the supplier will be willing to contribute financially to facilitate a video intelligence project. "If supplier partners want a direct line to consumer responsiveness to their promotions, there is no better opportunity than in real (not test market) in-store video monitoring," said Hand.

Currently, a major consumer goods supplier is working in partnership with a large U.S. grocery chain using video intelligence analysis to test in-store stimuli such as different signage and displays — ways to attract consumers to the products. This is similar to A/B testing done online. Now brick-and-mortar retailers can use control stores to analyse differences between one promotion and another, or one type of end-cap versus another.

Manufacturers typically welcome any consumer information that retailers are willing to provide. With access to information on consumer traffic patterns and dwell time within aisles, manufacturers can adjust product displays

and in-store merchandising to better serve consumers, retailers and the manufacturers' own interests.

Leverage existing infrastructure and integrate in-store systems

One of the reasons some retailers may be resistant to adding a video business intelligence solution to their in-store technology mix is the concern of having too many different systems functioning at the same time. But today's best-in-class video intelligence system can be integrated into the existing store infrastructure for a seamless transition.

"An integrated video intelligence platform should support multiple use cases including loss prevention, traffic counting and POS data," said Hand. "It does not make sense to require multiple replicas of video or POS data to support discrete video analytics applications." This is where the strength of network video makes the difference.

For the Green Hills implementation, Hawkins was able to leverage existing loss prevention cameras and integrate them with new cameras from Axis Communications. "The integration went very smoothly," noted Hawkins. "It was a matter of running Cat 5 Ethernet cable from different locations back to the server room where the BVI video analytics technology was installed." This type of network video solution runs on standard Ethernet networks, works with retailers' existing infrastructure and is based on open standards for ultimate compatibility with current and planned store equipment.

American Apparel took a similar approach. "When we started looking at video intelligence solutions, we wanted to be able to consolidate the technology in our stores," said Shulman. "I'm not a fan of having five different servers in one store. It was tough to find." Shulman chose the BVI/Axis Communications solution.

"The system we chose ties in sales transactions with loss prevention and traffic counting," Shulman continued. "We can watch videos of transactions and analyse the discounts taken at the POS to determine any patterns that may be affecting sales and the bottom line."

When solution providers, such as BVI and Axis, are able to facilitate the delivery of the video intelligence system as an integrated component into the existing channels that retailers already use in their stores, it is easier for retailers to expand their systems. American Apparel was able to

integrate all the systems together with the help of Retail Information Systems (RIS), who supplies them with their POS system, as well as its BVI/Axis video intelligence system.

Install best-in-class equipment

When researching video intelligence solutions, retailers should look for cameras with high-quality video and analytical solutions that can provide a complete store-monitoring platform. The BVI Networks' RetailNEXT product brings the real-time signals together and presents them in a user-friendly and highly scalable dashboard.

To make the system work, retailers should look to combine the analytical solution with intelligent cameras that provide network video. Intelligent cameras accommodate on-board embedded applications such as business intelligence analytics that can analyse traffic counting and customer dwell time. "Retailers now have the capability to deploy cost-effective analytic applications processed by the camera, working in parallel with the overall solution," said Patrik Pettersson, business development manager, Axis Communications.

Cost also is a key factor when choosing video intelligence systems. Purchased separately, video intelligence and loss prevention systems would have cost American Apparel up to 40 per cent more, said Shulman. "We were able to bring in something we didn't have before and got better quality at a lower overall price," she noted. "With the IP cameras it is a lot easier to maintain and monitor the system."

"The cross-functional use of the video surveillance solution allows teams to collaborate and share deployment cost," added Pettersson. "The result is added coverage for loss prevention while providing valuable information to merchandizing, operations and marketing."

Plan for future growth

A significant advantage of implementing an integrated video intelligence system is that it can grow with the retail organization. "I was looking for a system that could grow with our needs," said Shulman. Shulman is initially using the system for traffic monitoring and loss prevention, then plans to add dwell analysis to examine employee productivity.

Beyond the basics, retailers have a long list of in-store data that can be leveraged today and in the future using the

right system. "The sources of available real-time data in retail stores have been steadily increasing over the last few years," reported LeHong. Current data sources include POS data, customer traffic data, queue data, electronic article surveillance (EAS) data and IP-based video feeds. Emerging technologies include RFID, the ability to locate mobile phones via GPS, cell tower or Wireless Fidelity (Wi-Fi) triangulation, plus new in-store shopping devices such as shopping cart computers and handhelds. "It's obvious that, in the future, retailers will need to have some kind of platform that integrates, manages and makes sense of these real-time signals in the store."

Conclusion

The amount of data available today and in the future could make any retailer's head spin. The trick is harnessing that data, analysing it properly and using it to the benefit of the business. Integrated video intelligence that can combine disparate technology sources within the store and deliver customized reports and a data mining dashboard give headquarters and store management the information they need to make real-time business decisions. This is a strategic imperative most retailers cannot ignore and many are building into their near-term plans.

As a best practice, retailers should strongly consider systems that are designed and built for the retail environment, not adapted from unrelated industries to partially fit the retail needs. Systems that automate major components of the data collection and information delivery will ensure a higher degree of adoption, which ultimately means a higher success rate for the retailer. By embracing the role of real-time data from within the store – similar to the online commerce environment – retailers will be able to differentiate themselves from the competition, creating high-performing retail stores that dwarf those that manage business under an older paradigm of data sampling, occasional shopper feedback and data visibility.

The combination of best-in-class video equipment and video intelligence analytics will provide both large and small retailers with a system designed to improve customer service, enhance retailer/supplier relationships, create more effective labour utilization, promote multichannel marketing and reduce losses and out-of-stocks – creating a retail organization that is poised for continued success and growth.

For more information, please visit: www.axis.com **SSST**

City of Mission Viejo In Southern California Puts In Place Strong Video Management System

Background

Often when a video management system (VMS) is deployed, it is for the purpose of a single application or to resolve a particular problem. A university wants to better safeguard the security of students, staff and campus assets; a casino needs to monitor more of the facility without tying up valuable time scanning all of the video streams; a women's shelter requires improved situational awareness inside and outside the facility; a retail store wants to reinforce its risk prevention and incident management measures, and so on.

One standout implementation of a video management system that does not fit this mould is at the City of Mission Viejo in Southern California. Forward-thinking city officials have taken advantage of the wide range of benefits offered by their OnSSI Ocularis VMS for multiple applications beyond traditional security and surveillance, with plans to further expand its use in the future.

Live Streaming to YouTube

According to Jackie Alexander, director of Information Technology, City of Mission Viejo, the City uses their OnSSI Ocularis ES system on an on-going basis both for conventional traffic management applications and to monitor cameras installed at the City's animal services centre. In 2013, the City went beyond traditional VMS utilization and leveraged the capabilities of Ocularis for recording and managing live video from the ITF (International Tennis Foundation) Masters Tournament, as well as a doubles wheelchair tennis tournament held in Mission Viejo in 2013.

Ocularis functions seamlessly and flawlessly in this creative application, delivering value beyond that typically expected from a VMS. With Ocularis, additional cameras and other devices could be added with ease, without having to replace or significantly change anything at the head end. The system implemented at Mission Viejo includes live streaming, recording and management of an unlimited number of cameras as well as dual streaming capability for improved hardware utilization.



Managing City Services

The City's initial implementation of video management about two years ago came in response to the growing number of video surveillance cameras that were being planned for use in traffic management. Working with NIC Partners, a Southern California system integrator, they looked at several software solutions before making their decisions. In particular, the City's use of a variety of cameras, brands and recording devices ruled out proprietary VMS solutions, while others did not have the features and functionality they needed.

Once the decision was made and the software installed, cameras were quickly added to main streets and intersections throughout the community. Traffic and transportation personnel monitor the cameras, looking for congestion and visual data so that decisions regarding synchronizing the flow of traffic can be made. The City also makes the recorded video available to law enforcement and on some occasions to members of the public. A secondary purpose for the original implementation of the video management system was to provide better surveillance and improved security at the City's animal control centre, which also serves the neighbouring communities of Laguna Niguel and Aliso Viejo.

Centralized Control

The VMS is installed at the data centre in Mission Viejo's City Hall building where it is centrally managed, although each facility monitors its own cameras. The City's network carries traffic for video, voice and data. While it is a shared network, it is segmented virtually to control the traffic. Bandwidth required by the cameras can be easily configured to minimize any congestion problems. For example, images from the traffic cameras are transmitted at 10 frames per second for live views and fewer for archiving, which helps in managing storage.



The ease with which the cameras can be viewed or managed was another critical aspect for Alexander's department. This was particularly important in the traffic management application for when operators need to see the various views of the intersection either individually or with all four views on the monitor. They can now quickly switch cameras, zoom in for a closer look or play back the video. Different groups can also be created. For

example, certain users may have restricted views, while others may have a higher level of security that allows them to create their own views by adding more cameras. Centralized intelligent command and control enables a large number of viewers to have simultaneous control over an unlimited number of cameras. To increase public safety measures, Ocularis ES comes with a built-in failover for recording. **SST**

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IP Video Surveillance For Building Complex Security And A Deterrent Against Petty Crime

Mission

The Aventis TecnoLiving housing complex, recently constructed in the new heart of Brescia, Italy, in a strategic position for access to amenities and key locations within the city, aims to give residents and visitors the opportunity to make use of underground parking areas with total peace of mind, at any hour of the day or night. It became apparent that a security system was needed that would both serve to protect people and property within the complex, and act as a deterrent against petty crime and vandalism.

The Solution

The company which owns the building opted for the creation of a closed-circuit video control system based on a one-GBPS LAN

network with around 40 Axis mini-dome cameras, four 10-inch LCD monitors positioned by the elevators as a deterrent, a control room with remote connection and AXIS Camera Station video management software.

The system covers both underground parking levels, the first of which is reserved for residents and the public, and the second, used almost exclusively by the stores that are located within the complex.

The Result

The positive results achieved within the Aventis TecnoLiving structure are deemed more than satisfactory. The solution adopted led to the perpetrators of a car theft being identified, and the system guarantees the safety and security of the entire area without the need for on-site

staff. Looking at the future, the client has requested that a further extension of the system be considered.

Synonymous with safety

Train station, metro station, shopping malls, multiplexes and other focal points of the city in walking distance, with ring roads and motorways just minutes away: these are the key benefits offered to those who have chosen Aventis TecnoLiving, the new residential and business development within a stone's throw of Brescia.

For a centre of excellence like this, made up of housing and commercial space constructed in compliance with earthquake regulations, a cutting-edge video surveillance system is a must, to safeguard the peace of mind of those living and working within the complex.

The two underground parking levels, for both residents and owners of businesses in the complex, were therefore equipped with a system consisting of 39 Axis fixed network cameras positioned to cover areas of particular risk: three cameras for each of the four sets of stairs present at every level, six cameras for the passageways on each floor, one for the entry and exit ramps on the first floor and two for those on the second. "Point-to-point" architecture is used for this system, which means that each station functions completely independently of the others.

The control room in the stairwell uses AXIS Camera Station software, offering easy and intuitive interfacing





P3364-VE Network Dome Camera, which allows one-Megapixel day and night video capture, was installed in the complex. With Lightfinder technology, this equipment delivers high-quality video, through cameras with exceptional light sensitivity, providing color images even in low light conditions, a feature which can prove to be particularly useful for identification purposes.

which allows users to schedule recording as required, making video data available in real time, and permitting 24-hour remote viewing.

The model chosen was AXIS P3344-VE, which, thanks to high-quality HDTV and Wide Dynamic Range functionality, provides exceptional image definition in both normal and low light conditions. Furthermore,

this system is capable of handling multiple video streams in H.264 and Motion JPEG, both at maximum transmission rate in frames and at customized speeds. The protective housing of the equipment is vandal-proof and resistant to extreme temperatures, to enable full operational functionality of the cameras within a temperature range of -40 to +55 degree Celsius. AXIS

In addition to providing effective protection and acting as an impressive deterrent due to the presence of wall monitors placed in elevator waiting areas, the video surveillance system can also identify the location of traffic jams in the car park and detect the reason for these in real-time, while simultaneously collecting anonymous data for the study and analysis of vehicle flows. **SST**

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Texas Government Department Upgrades Security System By Deploying 3,200 H.264 Megapixel Cameras At 336 Locations

Background

The Texas Department of Aging and Disability Services (DADS) was established in September 2004 by the Texas Legislature, when it consolidated the Mental retardation services and state school programs of the Department of Mental Health; Community care, nursing facilities, and long term care regulatory services of the Department of Human Services; and Aging services and programs of the Department on Aging. DADS administers long-term service and support for the aging and for persons with cognitive and physical disabilities. DADS houses and provides badly-needed services to more than 2,000 residents in 12 State Supported Living Centres (SSLC).



The Challenge

The Texas Department of Aging and Disability's mission is to provide a comprehensive array of aging and disability services, support, and opportunities that can be easily accessed in local communities. In June 2009, to further support the DADS mission, the 81st Texas Legislature passed Senate Bill 643, requiring that video surveillance equipment be installed in all DADS facilities for the purpose of detecting and preventing the exploitation or abuse of residents and clients.

After passage of the legislation, DADS issued a Request for Offer to provide all the "...hardware; software; labour; and materials to install, configure, test and maintain complete turnkey video solutions for video surveillance systems at the 12 SSLCs of the DADS network throughout the state of Texas.

The Solution

The DADS installation, which started in January 2010, utilizes IQinVision HD Megapixel cameras, OnSSI Ocularis video management software, Zyxel network switches, and Dell Servers to provide the interactive video-monitoring interface.

The installation comprises more than 3,200 IQeye H.264 HD Megapixel cameras installed in 336 buildings on the 12 campuses. The project includes IQeye Alliance-pro and four-Series dome cameras, and an end-to-end network infrastructure with 35 miles of fibre optic cable to connect all the buildings together on each campus. Knight and IQinVision won this high-profile contract by offering a scalable solution using new technology that achieved DADS' security goals while saving the state money in terms of number of cameras needed and in installation and long-term maintenance costs.

"The timing of the project allowed us to do a couple of interesting things that yielded significant benefits to the state," said Chris Hugman, vice president at Knight Security. "Image quality is critical to this customer, so we used IQeye Megapixel resolution cameras throughout. The result has been superior quality images with manageable network and storage requirements—the customer has been very pleased with the clarity and performance.

The DADS project is one of the largest, all-Megapixel camera installations in the world. Over 3,200 IQeye HD Megapixel cameras were installed in 336 different buildings, on 12 separate campuses, over the span of just one year.

The overall project was completed on budget, ahead of schedule, and the reports from DADS to date are that the primary project objective to ensure quality care for all residents is being met in full.

Knight chose IQinVision HD Megapixel camera technology to achieve project objectives because they were confident in the IQeye camera's superior area of video coverage and the quality of the camera's images to ensure accurate observation of staff activity. By choosing IQeye HD Megapixel cameras, DADS installed substantially fewer cameras compared to SD cameras, and still covered more area in each building. This saved installation time and cost and cut future maintenance expenses.

The IQinVision cameras selected feature H.264 Main Profile compression, the highest performing H.264 compression profile with the most efficient bandwidth consumption—enabling the state to maintain an extended video archive without paying for exorbitant storage capacity.

Chris Hugman, Knight Security's executive project manager, "We weren't the lowest bid, but we received high marks on our management approach and our overall project design. We were convinced that Megapixel quality images were essential to DADS objectives to carefully monitor the quality of care for their residents. With the IQeye cameras you can zoom in to get the details of activity anywhere in a room." **ESST**

Spring Mews Secured By Integrated RFID Access Control System

Background

Spring Mews, a recently completed mixed use scheme consisting of 378 en-suite student bedrooms together with a 93 bed suite hotel and office development, itself a central part of one of London's largest regeneration projects, is using advanced contactless access control technology from SALTO Systems to control security throughout the site.

Developed by CLS Holdings plc, a FTSE 250 company, in partnership with Fresh Student Living and Staybridge Suites London, the £50million Spring Mews site on Glasshouse Walk which forms part of the regeneration of the Nine Elms area of Vauxhall, is one of more than 20 interconnected development schemes that are changing the face of this largely industrial, riverside district.

As property prices in central London continue to rise, the regeneration of formerly neglected areas is moving outward to bring new homes, jobs and business opportunities to underutilized areas.

The regeneration area in which Spring Mews is located spans 195 hectares on the South Bank of the River Thames – within walking distance from the Houses of Parliament, Sloane Square, Tate Britain, Battersea Park and the Oval Cricket Ground.

The district extends from Lambeth Bridge in the north, to Chelsea Bridge in the south, covering the Albert Embankment, Vauxhall and a large slice of north Battersea. Westminster lies directly opposite on the north bank of the Thames. Its many brownfield sites are now being transformed and it is by far the largest regeneration zone in central London and includes the last remaining industrial stretch of the South Bank.

The development potential of this prime, central London location has attracted billions of pounds of private sector investment and the area-wide regeneration programme has begun to transform the district on an extraordinary scale.

The Challenge

Combining a student accommodation complex and a hotel into one development within demanding construction and fit-out timescales was a challenging brief. Having taken the decision to ensure security at the development used the latest technology, the search began for a reliable and economical electronic system that could efficiently run and manage multiple rooms in both developments and be fully integrated with the Axis CCTV and Galaxy intruder alarm system while all being controlled from one front end Maxxess E-Fusion' Graphical User Interface (GUI).

The essential requirements were: the



need to secure all internal doors, simple and quick installation, the use of RFID escutcheons for the doors so there would be no need to flood the buildings with wiring, scope for expansion of the system if the need arose, future-proofing of the



investment through use of the latest technology which had to offer easy upgrade paths, integration with other systems notably CCTV and intruder alarm, to be easily able to track and replace key cards in use and to be able to remotely manage the access

control system across both the student accommodation and hotel properties from one central location if required.

The 378-bed student accommodation complex has been designed to relieve

pressure on local housing stock and is ideal for students preferring to be closer to the cultural, social life and job opportunities of central London. It is configured so that 75 per cent of the rooms are cluster beds, to be shared by either seven or eight students, each with their own en-suite bathroom and shared kitchen facilities. The remaining rooms are studio apartments, each with large en-suite bathrooms and kitchenettes. Facilities include: gym and swimming pool, common rooms, study areas, high speed broadband, games rooms, laundry facilities, cinema, secure cycle storage and 24 concierge and security. It is only a few minutes' walk away from Vauxhall tube and national rail station, giving easy access to a large variety of London Universities including Kings College, Imperial, University of Roehampton, University of the Arts and Southbank.

The 93-bed "Staybridge" suite hotel provides modern and comfortable studio or one-bedroom rooms designed for residents with longer stay requirements. Guests benefit from a large breakout and eating area on the ground floor, and there is also wireless internet throughout, a private gym, laundry and storage facilities in the lower ground floor area.

Through a partnership between SALTO Systems, Maxxess and ABCA Systems (an approved SALTO Service Centre and a UK wide specialist electrical systems provider chosen to design, supply, install and commission the various security components) CLS Holdings plc were able to find both a suite of systems and suppliers that delivered on all of these requirements and more.

The Solution

CLS Holdings plc selected SALTO's Aelement product as the access control platform for their door security solution. This not only

complements the modern aesthetics of the building and its design, but operates seamlessly and discreetly in the background while giving users reliable, unobtrusive 24/7 protection.

Aelement has been developed with the hospitality-specific applications in mind including the ability to control the security of the entire building from a single location. This includes granting access privileges to individual rooms and gathering audit trail data from every door in real-time. Other benefits include instant room move and instant extended stay abilities as well as lost card cancellation, intrusion alarm, door ajar alarm, remote opening, audit trail, passage mode activation for meeting rooms and automated low battery reporting.

And not only that but Aelement is also NFC (Near Field Communications) enabled. So as this technology appears on more smart phones users, if they wish, will be able to use their NFC enabled smart phones to emulate a Mifare smart card turning the phone into their room key. This in-built technology gives building operators the ability to continuously upgrade their security without having to upgrade their locks, saving them long term operating costs while providing them with what they need most – total control.

Phillip Miller, managing director, ABCA Systems, said "With young students in the accommodation, many of whom will be living away from their parent's homes for the first time, and longer term guests using the hotel space, it was vital that any security system installed provided complete protection to ensure their security at all times. Spring Mews will be a very busy

environment with lots of traffic on its doors so it was vital that the solution we recommended was robust, technologically advanced, scalable and capable of standing the test of time, which is why we chose to put forward the SALTO Aelement platform."

Alan Horrobin, SALTO area sales manager, commented "SALTO Systems are world leaders in advanced wire free and wireless access control solutions for the education and hospitality sectors. We have vast experience of working with universities and hotels and understand the challenging security issues faced by these properties.

Our Aelement electronic escutcheon platform provides them with the means to operate a totally keyless, secure environment. It provides a full audit trail of all door access including what has been granted as well as rejected and provides staff and students with access to all the areas they need automatically – removing the need for ad hoc access decision making.

In conjunction with SALTO's Virtual Network (SVN) Data-on-Card technology it allows the stand-alone locks to read, receive and write information via their operating smart cards or 'intelligent' keys. It works when this data is captured from the cards at doors and SVN online IP wall reader access points around the building. The SVN wall readers upload and download user related information that is then used to permit, control or deny access."

The Result

David Towse, project manager at CLS Holdings plc said "Residential accommodation be it in universities or in hotels can face a number of

security issues so ensuring the safety of students and guests and their assets is a high priority.

Controlling access therefore plays a very important role in securing and protecting both elements of this development at Spring Mews. The SALTO Aelement solution, in conjunction with other elements of the security product platform is secure, reliable and infinitely configurable allowing us to set up, manage and control the properties securely and easily.

Now that the system has been implemented, we're pleased with the quality and efficiency of the product. Besides helping us move closer to our vision for utilizing RFID technology and providing a keyless environment, the new Aelement system neatly leverages this technology, while helping us meet our goal to provide a safe and secure environment for our users." **SST**



Missouri State University Looks Ahead With Ocularis Video Management System

Background

The history of Missouri State University is one of continual growth and development to better serve the needs of both the student body and the larger Missouri community. From its founding in 1905 to its distinctive mission and identity in public affairs today, the University has spread across four physical campus locations, including the main campus in Springfield, MO, a satellite campus in West Plains, MO that offers two-year associate's degrees, and a satellite campus in Mountain Grove, MO that focuses on fruit science and agricultural research. The fourth campus is located in Dalian, China in partnership with Liaoning Normal University. A total of 23,838 students are enrolled in Missouri State in the University's domestic campuses with approximately 4,000 students living in University housing and approximately 4,000 faculty and staff members.

The Challenge

Protecting the collective 30,000-plus students, faculty and staff is a daunting job that requires the best in personnel and technology.

The Solution

One of the most recent enhancements to the University's safety program occurred when the video surveillance and security system was upgraded from an analog to a digital platform. The new video surveillance system has been initially deployed at the main campus in Springfield, MO where a centralized Public Safety Dispatch centre was installed. At the heart of the Public Safety Dispatch centre is a video wall that displays feeds from the more than 500 constant and motion-activated cameras located throughout the 225-acre campus. To efficiently control, manage and record the large number of cameras deployed in the system, the University installed OnSSI's best in breed Ocularis video management system (VMS).

"Much of the credit for MSU moving towards OnSSI rests with our own university telecommunication specialists," said Jay L. Huff, assistant director, Department of Safety and Transportation, Missouri State University. "Their technical knowledge and assistance has been instrumental in making this transition happen."

CASE STUDIES GENERAL

The University's cameras are monitored live on a 24/7 basis and recorded to a server. The video wall in the Public Safety Dispatch center has eight 55-inch monitors and four 32-inch monitors, with two 19-inch monitors each located at operators consoles. Video can be pushed back and forth between the monitor wall and the operator consoles to track specific activities of interest.

"One of the things that really intrigued us was the ease in pulling up individual camera feeds to specific monitors in our dispatch centre," said Huff.

Live feeds are directed to the Public Safety Dispatch centre, where they can be viewed on two desktop monitors on both dispatch consoles. Satellite monitoring stations are located in the various academic buildings allowing campus security and/or administration personnel to view cameras locally as well as from the Public Safety Dispatch centre.

"Compared to the older analog matrix switching system we were using, the new digital architecture and video management platform is very user friendly and much



more efficient," said Jacob Welch, radio communications supervisor, Missouri State University. "We can now easily scan through the live or recorded video, or move it from the monitor wall to a console monitor for up-close viewing."

The conversion of the video surveillance system to digital is an on-going process that started more than two years ago and is being handled by Netwatch, Inc., a local systems integrator. To date, more than 300 of the 500 video surveillance cameras have been converted to IP. Future plans include integrating the video surveillance system with other security systems around the campus, such as the blue light and emergency phones, as well as the access control system. The system will also eventually be expanded to include the additional satellite campuses using the new IP architecture and video management system.



Missouri State's Public Safety Dispatch Center houses a video wall, controlled by OnSSI's Ocularis Video Management Software. The video wall displays feeds from the more than 500 constant and motion-activated cameras located throughout the 225-acre campus.



“Our goal is to have less infrastructure and more security,” added Welch. “IP surveillance with the Ocularis video management software is a cost-effective and efficient solution to achieve this goal.”

The Ocularis video management platform is designed with open architecture to optimize and ease system integration and bring all facets of the campus security under one umbrella for improved control and access. The system is also highly scalable and will enable Missouri State University to continue adding IP and/or analog cameras as needed without having to incur substantial costs for cabling, power or installation. Once all of the campuses on are the network, any of the cameras at any of the locations will be accessible via a web browser by authorized personnel.

When ready, the University will also be able to deploy the system as a mobile application using OnSSI’s Ocularis Mobile. The mobile client allows real time wireless streaming in HD of up to 16 cameras simultaneously onto an iPad or iPhone. Mobile apps can be used for security at special events or in emergency response programs. The video is recorded live and sent to the server with the capability for reviewing footage captured up to 20 minutes prior to an incident.

Currently, video footage from the system is used by Missouri State University for a number of purposes including to promote and publicize the school’s extensive security measures. For instance, the communications personnel in the dispatch centre often observe suspicious activity in parking lots that leads them to dispatch field officers to further investigate. In another case, video footage captured by the University’s video surveillance system was instrumental in providing evidence about a work related accident. According to Welch, when a security officer fell on an ice-covered parking deck, the incident was captured by their video surveillance system, and the footage helped to substantiate his claim.

“We are excited about all the potential and continuing improvements that OnSSI provides,” said Huff. “I feel that we are moving from an older standard system to a more modern, advanced system that will enhance our campus safety platform.”

Universities today are facing challenges that range from safety and security to financial and academic misconduct. The vision and integrity of Missouri State University have put the school on a solid track to keep these issues at bay, and the Ocularis video management platform from OnSSI is playing an important role in the process. **SSS**

3D Face Recognition And Scanning Technologies

By Konstantin Ershakov, Solution Architect, Artec Group

Face Recognition

Recognition based on facial features is the first and most natural way of recognition between people. Even in most cases under “recognize someone”, we mean to look at the person and determine who he is. Naturally, during such common recognition no one checks fingerprints or scans iris. There is another illustrating example. We used to prove our identity by presenting the documents, and generally, all such proof documents present a photo of the owner. It helps to determine that the bearer of the document is its legal owner. It is not surprising that the idea to use an image for recognition always seemed so natural.

Since 60s of the last century, engineers took attempts to recognize a person by his image automatically. However, the first commercial products were introduced to the market only in the 90s, and they could be evaluated differently. Experts in the field of biometrics accused (and often reasonably) the accuracy of recognition, stability of such systems to external factors, etc. However, the technology had a number of undeniable benefits. First, facial recognition is contactless. This is a big advantage for users of the system (since it is comfortable and hygienic) as well as for owners (contactless system

is more durable). Second, this method does not imply a complex recognition scenario. Precise positioning in front of the reader is not required, no need to direct the view and try to catch markers in the camera (as in the case of iris recognition) or placed the finger or palm on a device. With some limitations, a user may not notice the recognition system, and sometimes be even not aware of its existence. Third, recognition does not require additional scanning of human biometric features. User database with pictures present at many sites long before the installation of a biometric system.

Nevertheless, despite of all the advantages of the technology, it has not been widely adopted like fingerprint recognition. As it often happens, a good idea happened to be technically weak. Most experts in the industry, as well as facial recognition systems' users, noted significant weaknesses, and recognition accuracy as the most critical one. 2D systems work well in laboratory conditions, with constant and correct level of illumination, but in real conditions accuracy of such systems falls from "good" to "satisfactory" if the best happened. It is not only because the light conditions has changed at a single access point. Sometimes the differences of illumination on different access points led to faults like: the person was successfully recognized at terminal A, and not recognized at terminal B. Besides, the seemingly convenient recognition process discovered many difficulties. On the one hand, the user had no limitations on behavior. From the other one, certain restrictions existed: inclination of head, facial expression, change of hairstyle, makeup - all these could significantly decrease the accuracy. As a result, users felt deceived in their expectations.

The world of 3D

Finally, the solution, which eliminates the above disadvantages, was found. The first R&D works over the system utilizing not a general flat (2D) image, but a three-dimensional face model started in the late 90s. The first 3D recognition system entered the market at the beginning of a new millennium.

The technology of three-dimensional recognition is based on the principle of face uniqueness of each person caused by structural features of the skull. In the middle of the last century Canadian scientists proved that the skull structure of every person is unique, and this property can be described with a few dozens of parameters. Using this principle, and also the works of anthropologist Mikhail M. Gerasimov, A4Vision specialists developed a technology that allows reliably identify the person by comparing the 3D image of his face with a pre-stored in the database

template. A4Vision company was the first one in the world who achieved a high-quality facial recognition, with only two years spent on the development process. According to Douglas Carlisle, one of the oldest partners of Menlo Ventures (an investment fund investing into A4Vision and included in top-five of Silicon Valley funds), the company has created a unique solution for biometric recognition. This technology was primarily used in access control tasks at premises, and even computers. Later A4Vision was acquired by L1 (a developer of fingerprint biometric solutions) and merged with Boiscrypt. The founders of A4Vision set up a new company – Artec Group – and created a new generation of 3D sensors, as well as a new recognition algorithm for 3D face recognition.

There are various 3D scanning technologies. We will not compare them here. Let us just note that the majority of 3D face recognition products currently present on the market use the same principle - structured illumination. What is it about? Imagine a light source located in front of the filter. Filter is an opaque barrier with straight strips transparent to light cut in it. If you put a light source with this filter in front of a flat wall, we will see straight light strips on the wall. However, what happens if the wall has some relief? Instead of straight light strips, we will see curves. If we analyze the curvature of the light mesh projected on the wall, we can calculate the curvature geometry of the wall. In fact, 3D scanner is a much more complex device. Light grid projected on the object (in our case, a face) in IR consist of not just straight lines, but tens of thousands of polygons. The image of the object coated with such light mesh is being shot with a camera, and then digitally processed. It allows getting a live 3D video. 3D video frames are used to build a 3D model of face surface with submillimeter accuracy, which is then used as a basis for biometric template construction. Biometric template contains anthropometric information obtained from a scanned three-dimensional model, which hardly changes with time. Template accuracy is so high that allows distinguishing twins. Size of a template is several times smaller than of a 3D model. For instance, size of template made by Artec Group, technological followers of A4Vision, is 3.5 kb. Moreover, the inverse transformation (template into a 3D model) is impossible, which is an important factor in personal biometric data protection issues.

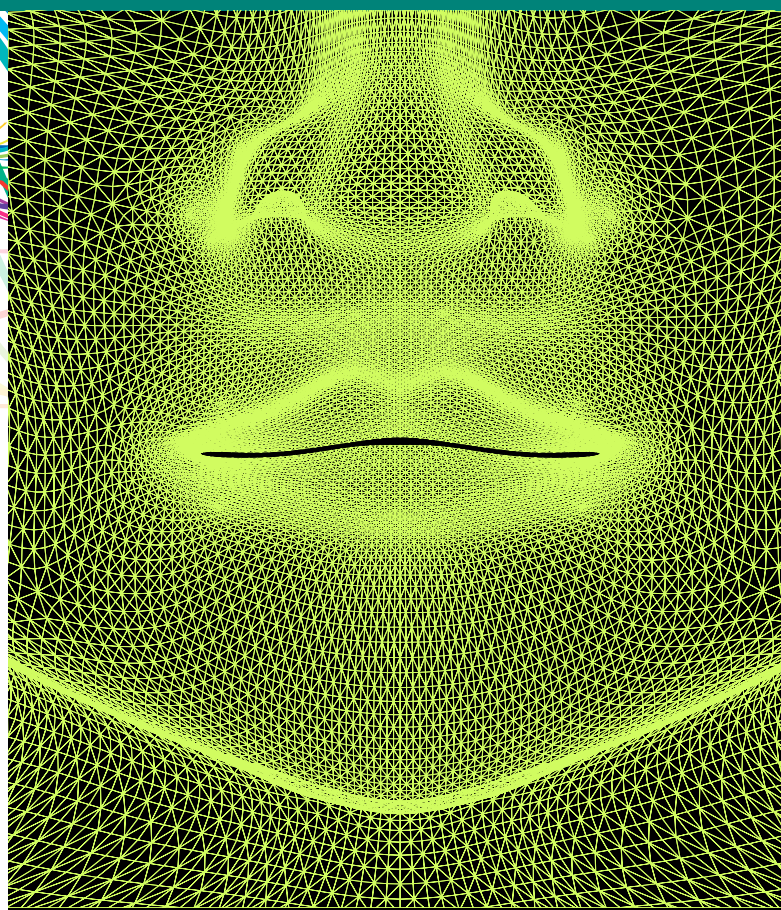
The use of 3D scanning in face recognition helped eliminate multiple disadvantages of systems, working with 2D images. 3D systems based on the method of structured light analyze only face geometry. Texture does not affect recognition process, which reduces the importance of make-up (or greasypaint if there is any fraud attempt) to zero. Moreover, it is enough to detect a certain similarity

between a biometric template and a face scanned in order to make a successful recognition. As a rule, this similarity is sought for static and the least variable surface areas (like nose, cheekbones, brows) which allows identifying people with beards, wearing glasses, hats, and also allows (with reasonable limits) facial expressions. The speed of 3D scanning systems has also increased significantly: the whole set of advantages allows the most technologically advanced 3D systems identify people on the move. Generally, 3D systems are more resistant to abnormal user behavior. For instance, if at the time of recognition the head is tilted, it will not be an obstacle, because system itself is capable to turn the scanned front surface to the correct position. Also compared with two-dimensional systems, 3D ones perform reduced sensitivity to changes in ambient lighting, until the capacity to work in complete darkness. 3D system cannot be fooled by presenting a picture of a face. Finally, the recognition accuracy of a 3D system is much higher in 3D than of a 2D one. The probability of the second kind error (when a system allowed a stranger, FAR – False Acceptance Rate) equals less than 10^{-6} (one in a million), and first kind error (when a system fails to recognize the enrolled user, FRR – False Rejection Rate) equals 10^{-3} (one in a thousand) – in such case the user simply has to repeat recognition session.

The advantages of 3D recognition systems

The advantages of 3D recognition systems define their application areas. They are typically used in scenarios with high security requirements (causing the use of biometric readers), combined with high bandwidth. 3D systems able to recognizing on the move are ideal for installation on the facility's entrance (office buildings, factories, plants). There is hardly another technology now, which is more suitable for deployment of access point equipped with biometrics scanning and providing a throughput capacity of 2000 people per hour. It takes less than a second to verify (if ID card are applied additionally) or identify (find the one matching template in a huge database) a user with a 3D system. The positioning in front of the camera at the time of registration takes no more than two seconds. There is another important reason to apply biometrics: biometric systems are often preferred due to convenience reason, in order to abandon the cards. Here again 3D systems win the competition.

Due to its characteristics, the 3D recognition technology can be applied not only in scenarios related to access control. For example, the possibility to implement this technology in large-scale governmental projects (passport program, monitoring the voting in elections, verification of bank operations) is being researched. 3D scanner is an

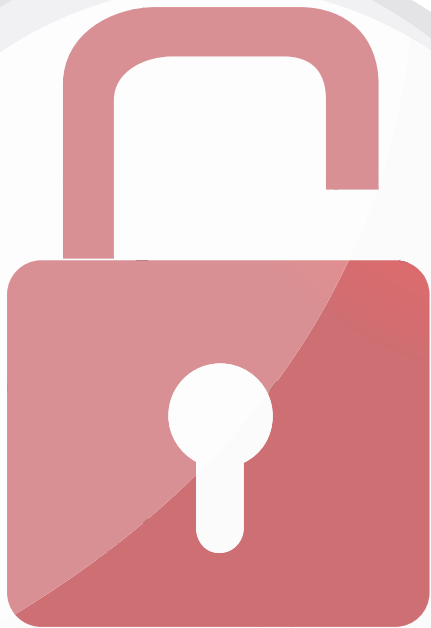


ideal biometric sensor for integration with e-gates, which can be used within transport infrastructure like airports for automatic check-in of frequent flyers. The concept of using biometrics in logical access systems acquires wide development too opening multiple scenarios. Unlike other types of sensors, 3D camera is capable to recognize a user working at the computer periodically without distracting for regular scanning. If the camera detects another person in the view, the situation can be interpreted as «spying», and the computer can be locked. As the size of 3D-sensors constantly decreases, they soon might be used in mobile devices.

Compared with 2D systems, 3D ones have probably the only shortcoming. A regular photo cannot be used for detecting within a 3D system. Therefore, the next important step we could project is creation of the combined system: two-dimensional and three-dimensional algorithms integrated. This system will be able to receive frames with the best parameters for 2D recognition automatically. As already mentioned, the angle of the head stays one of the most serious problems for 2D systems, and thanks to 3D algorithms, it can be solved successfully. Such system could independently rotate a scanned 3D model in order to get the ideal angle. Thus, we obtain a system able to recognize within 2D technology, at the same time having all the advantages of 3D recognition.

For more information, please visit: www.artec-group.com

SST



Business Continuity And The Need To Protect Data



By Emelie Andrén Meiton,
Product Line Manager,
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Technologies

Introduction

In the modern world data is at the heart of commerce with very few businesses which are not in some way reliant on data. There are an estimated 30 million servers worldwide processing ever-increasing quantities of video, voice and data through a global network of several billion devices. It is therefore not surprising that business continuity and disaster recovery plans often originate from a corporate data centre position since an incident here has such far-reaching consequences. Central to this is the provision of effective safety and security, including the protection of data from the threat of fire.

One of the most likely causes of a catastrophic failure is fire yet its threat is often underestimated. Housing as they do such sensitive, vital information and systems essential to the survival of their clients, data centres present a greater need for absolute protection whilst



Effective fire safety systems are a fundamental requirement in achieving maximum system uptime and availability.

paradoxically demonstrating an enhanced level of fire risk. The electrical power and extensive cabling that drive the computing systems provide a constant source of potential ignition, particularly under the raised floors, while the many thousands of plastic components supply a plentiful source of combustible materials. Given that an estimated 80 per cent of fires are caused by electrical faults, the role of effective, intelligent and safe distribution of power is itself a vital consideration in safety terms.

Cooling requirements impact on fire safety

Both preventive and active fire protection is therefore particularly relevant in such vulnerable locations. The newer high-performance equipment, such as multi-processor servers and high-speed communications switches are raising rack densities well above 30 kW (equivalent to the drive output

of an electric car). In ever more densely packed layouts, today's servers necessitate air-cooling up to 8600watts/m². To help put this into context, on a cloudless day in mid-Europe, the sun will typically generate 700watts per square meter. The equivalent of a cooling power of 8400watts/m² would therefore be like lowering the temperature from 12 suns burning down on one square meter. The resulting higher air exchange from cooling will partly remove any smoke with the airflow, making early detection by traditional systems even more difficult, as well as increasing the risk of the fast spread of fire to other areas. Even a smouldering fire without flames can damage hardware through sooting, corrosion and toxic gases. The time between the initial outbreak of fire and its successful extinguishing after detection is the critical factor when attempting to prevent operational failure of a data centre.

The earliest possible warning

Given the susceptibility of data centres to the threat of fire, even in its early incipient stages, detecting it at the earliest possible point is the objective. It is generally accepted that aspirating smoke detection (ASD) is one of the technologies which provides the earliest detection of the incipient stages of combustion. ASD is therefore very widely used to protect IT and telecommunications facilities – the applications for which it was originally developed – protecting the highly ventilated atmosphere which typifies the data centre environment.

Aspirating smoke detection systems can detect smoke before it is even visible to the human eye. The systems generally consist of a network of independent pipes with one or more sampling apertures that actively draw air into a highly sensitive smoke-

sensing chamber. There, the sampled air is precisely and accurately analysed by a scattered-light detector for smoke particles. If smoke particles beyond a pre-set threshold are detected, the system triggers an immediate alarm. In that way, a timely warning is given - along with the opportunity to fully investigate the cause of the alarm. The most appropriate response can then be initiated to stop the fire gaining a hold and thus prevent injury, damage and disruption to business.

Aspirating systems can be up to a thousand times more sensitive than a standard point detection system. By combining this level of sensitivity with an environmental learning capability,

it is possible for such a system to provide and maintain the optimum operating level and keep unwanted or 'false' alarms to an absolute minimum - without external input. Aspirating systems also usually have the capability to monitor their own integrity and, in the event of the system's ability to detect smoke being compromised for any reason, an alert is raised.

Intervention and extinguishing

Shutting down equipment at the earliest indication of fire will stop even corrosive combustion gases developing further. However, in order to prevent false alarms, standards still often require

two separate detectors to sound an alarm before the extinguishing system is activated - a single detector causes the system to go into a state of pre-alarm, and only if the alarm is reconfirmed the extinguishing agent will be released. Thanks to modern technology though and to the high detection reliability of today's point type detectors and ASD, false alarms can be excluded, even when using just one detector, without an alarm verification system.

The method of delivering the extinguishing agent and selecting the correct agent for the given application is a very important factor in optimizing protection. In critical applications, a dry extinguishing system is essential



The seamless interaction between fire detection and extinguishing is a basic requirement for ensuring effective fire safety and minimum downtime.

SECURITY FEATURE BUSINESS CONTINUITY AND THE NEED TO PROTECT DATA

because of the sensitivity of the IT infrastructure. Water is generally not used as an extinguishing agent in data centres, the only exception being in generator rooms in which combined gas/water solutions are used because of the thermal risk. Two types of gas extinguishing systems are especially suited to data centres: chemical extinguishing agent systems and inert gas systems. The latter tend to be employed in medium to large-sized data centres while chemical agents

are used in small to medium-sized data centres.

Since the server rooms are the *raison d'être* of a data centre, special solutions have to be employed even on the hardware side of extinguishing: recent studies have shown that the noise of conventional gas extinguishing systems could affect the performance of the hard disk drives. That is why today silent extinguishing systems with purpose-built silent

nozzles are the solutions of choice for data centre extinguishing, with both natural gas and chemical agents.

In other critical applications such as generator rooms, uninterrupted power supply (UPS) systems ensure continuity in case of power cuts. As alluded to above, in such situations extinguishing agents are available which combine nitrogen and water – the excellent extinguishing characteristics of nitrogen with the addition of water mist to cool



Aspirating smoke detection (ASD) from Siemens will provide the earliest possible warning even when the smoke is barely discernible to people.

down hot surfaces, thereby putting out the fire faster and avoiding re-ignition.

The seamless interaction between fire detection and extinguishing is a basic requirement for ensuring effective fire safety and minimum downtime. Analyses by leading independent testing institutions in fire protection and security worldwide consistently highlight that the prime cause for fire safety system failure is the interface between detection, alarming, control

and extinguishing. Early, reliable detection of a fire and the initiation of appropriate extinguishing measures are critical factors in an effective protection concept. Fire detection, evacuation and extinguishing systems must therefore be fully compatible with each other. Systems with real interoperability from a single source are therefore the preferable option in such a mission critical environment as a data centre, requiring a partner with competence not only in the detection

and extinguishing technologies but in the interoperability processes themselves.

Integrated solutions

Electronic security and safety solutions can help protect a data centre and in doing so protect an organization's application availability, its confidentiality, its integrity and, ultimately, its ability to function. Integration of security and safety



measures is one of the prime methods of enhancing business continuity through protection of business-critical data. Central management of operational systems provides a more efficient and dynamic use of resources, focusing them when and where they are needed. Fire safety and security can be integrated through danger management stations. This allows for centralized supervision and alarm handling from a number of different sources, including fire detection, video surveillance, access control and intrusion detection.

The benefits of integrating fire safety and security are numerous: video surveillance allows the danger zone to be viewed immediately, offering a visual means of verifying and assessing the situation; integrated access control provides monitoring of escape routes and the means to quickly open or close doors, an important part of the evacuation process; integrated intrusion detection means that data and electronic equipment are protected not only from the threat of fire but also against unobserved theft or sabotage. All of this through a single, centralized station which guides personnel through the step-by-step processes to be followed in the event of an incident. This integrated view of what is happening not only helps to resolve an incident but also provides the capability to learn from incidents which is crucial in enabling process adaptation in the very dynamic risk landscapes which characterize today's business environments. Although safety and security are not a direct part of IT operations, they definitely help to ensure the business continuity environment of a data centre.

Also building automation and control systems can be integrated to enable control of heating, ventilation, air conditioning, lighting and blinds to optimize energy efficiency - a vital consideration when growth in data centre infrastructure requirements suggests power needs may necessitate the construction of 10 to 15 new power plants over the next decade in each high density region.

Safe Host

An example of how an integrated approach to safety and security can optimize protection is illustrated by Safe Host, a Swiss data centre comprising a six story building, five of which are occupied by approximately 12,000 servers and storage devices containing the data of more than 140 customers. The expansion of the data centre was driven by demand - the facility being equipped floor by floor with the latest technology, as and when required. For this reason, Safe Host's building now contains different generations of fire detection and extinguishing equipment. Some floors use detectors and control panels from Siemens older AlgoRex line, while most are equipped with devices from Siemens' current Sinteso family. All security devices are managed using a central Siemens' management station that collects information from more than 2,800 data points and visualizes them on 60 graphical displays of all the floors.

The Safe Host building is today divided into 350 fire detection zones and uses no fewer than 830 highly sensitive fire detectors from Siemens' Sinteso and AlgoRex families. They are supported by approximately 30 aspirating smoke detectors (ASDs) that continuously analyse air in the rooms for smoke particles. All detectors throughout the

Safe Host building are connected to four fire control panels, supplemented by floor repeater displays. Some 50 manual call points are also installed at strategic locations and in an emergency, 65 alarm sounders ensure that the building is evacuated effectively.

As already stated, solutions using water or water mist are not recommended in data centre applications. The moisture could potentially cause more damage to the servers' sensitive electronics than the fire itself. For this reason, Safe Host uses a Sinorix gas extinguishing system. If the fire detectors confirm a fire, the system automatically triggers the extinguishing process. Valves on the gas cylinders in the basement of the building are opened and nitrogen, as an inert natural gas, flows through a network of pipes to wherever it is needed. There, the nitrogen displaces oxygen, depriving the fire of one of its essential components. Once the oxygen level is reduced from 20.9 per cent to under 14 per cent any fire is extinguished and re-ignition is impossible. This all happens in a matter of seconds and it is an effective way to extinguish both open and smouldering fires. Nitrogen also poses zero risks to human health or well-being.

For more information, please visit www.siemens.com/buildingtechnologies **SST**



Safe Host, a Swiss data center, uses a Sinorix gas extinguishing system.

AN INTERVIEW WITH...

DR. MADAN OBEROI, DIRECTOR OF CYBER INNOVATION & OUTREACH DIRECTORATE AT INTERPOL GLOBAL COMPLEX FOR INNOVATION, SINGAPORE



The INTERPOL Global Complex for Innovation will be launched in April 2015. What does INTERPOL hope to achieve by starting this Complex and how will this Complex help INTERPOL tackle security threats of the 21st Century?

The INTERPOL Global Complex for Innovation (IGCI) is a cutting edge research and development facility for the identification of crimes and criminals, innovative capacity training, operational support and partnerships. It will develop initiatives and outreach programmes to aid the global law enforcement community to better target and investigate cybercrime and improve cyber security.

The IGCI will house Digital Crime Centre and Cyber Innovation and Outreach directorate that will enable international law enforcement agencies to exchange information, understand emerging trends, research and provide innovative solutions to combat cybercrime at a global scale, through strong partnerships.

Located in Singapore, the IGCI will tackle new and emerging crimes in Asia Pacific and around the world, whilst working alongside INTERPOL's General Secretariat headquarters in Lyon.

But more importantly, in order to tackle modern security

threats, a larger multi-stakeholder collaboration and partnership between law enforcement agencies, governments and industry is needed. It is to this end that we launched INTERPOL World, a unique platform to connect all the stakeholders involved, to identify security challenges and co-create innovative solutions.

Could you tell us a little about your role as Director of Cyber Innovation and Outreach at the INTERPOL Global Complex for Innovation?

In my role as director of Cyber Innovation and Outreach at the INTERPOL Global Complex for Innovation, I currently supervise two sub-directorates including 'Strategy & Outreach' and 'Research & Innovation' sub-directorates. The directorate focuses on providing, besides innovative research based solutions for the needs of law enforcement agencies, the strategic foresight in the continuously changing environment. The directorate also aims to strengthen the capacity of law enforcement agencies in member countries to combat cybercrime.

As one of the spokespeople for INTERPOL World 2015, please highlight some of the key issues you spoke about at this show?

INTERPOL World 2015 is a platform to bring together

private sector, global policy makers and law enforcement agencies. As part of the cyber security panel, we focused on building capacity of Law Enforcement Agencies to combat cybercrime through training, research based innovative solutions and multi-stakeholder approach.

Can you describe the evolving cyber threat landscape in the 21st Century? Are cyber attackers getting more sophisticated or are our defences getting worse?

The Internet has created borderless societies, providing unprecedented opportunities to generate wealth and stimulate economics, but the increased connectivity and reliance on the Internet has also created unexpected vulnerabilities.

Cyber-attacks have definitely become more sophisticated over the years. Often, these advanced hackers target higher levels of victim, mainly from financial sector, critical infrastructure providers, and Fortune 500 businesses.

The very nature of the threats facing the digital landscape means that it transcends national boundaries and the growing interconnectedness between countries means that everyone is just as susceptible to crimes committed in the cyberspace. Hence, security platforms such as *INTERPOL World* that have governments sharing knowledge and experience of each other are very valuable in the global fight against cybercrime, particularly since some countries are more advanced than others in this area.

INTERPOL World addresses the vulnerabilities in the cyberspace and what governments and private organizations can do to protect themselves and secure their communications and transactions.

Is cybercrime an issue that only affects larger companies or should smaller companies be more concerned and pro-active as well? What measures can these companies put in place to alleviate such threats?

It is often difficult to estimate the global impact of cybercrime in organizations, due to its scale and incidents often being publicly unreported. Given that crimes in cyberspace are truly a global threat, a

global response is required. This calls for larger multi-stakeholder collaboration and partnership between law enforcement agencies, governments and especially with industry.

Threats to cyber security are also changing rapidly. However, government effort alone is insufficient to keep up with and deal with the pace at which these threats evolve.

INTERPOL believes firmly in the need to use technology to fight crime in the cyberspace as they take place in a matter of seconds. It is equally important to engage the private sector in co-creating innovative solutions to address cyber security issues, and for governments to share best practices and learn from one another.

Geographically, which places are the hacking “hotspots”?

It is difficult to place a “hotspot” on a map because each attack is highly subjective and aimed at multiple actors who are not necessarily within one state. The attacks can be aimed at a particular geographic region, but often they are positioned target specific businesses, governmental agencies, consumers on a mass scale, and even prominent individuals.

It has to be also understood that the cybercrime does not respect any territorial boundaries, and due to interconnected nature of cyber space, all spots are connected and almost equally vulnerable.

What are some of the security risks ahead in 2015 as cyber criminals become more sophisticated?

As we become increasingly integrated with the Internet in a phenomenon referred to as the ‘Internet of Things’ – with over 10 billion of our devices holding sensitive information on our daily activities, from bank and credit card transactions to social and government interactions – there is a multitude of opportunities for cyber criminals to exploit. Some of the security risks expected in 2015 come from botnets, DoS attacks, hacking, keystroke loggings, phishing, and through malware.

In this respect malware today represents a considerable security risk. Malware is a generic term covering a range of software programs designed to attack, degrade, or prevent the intended use of information communications

technology (ICT) systems or computers. It also extends to mobile devices, including smartphones and tablets. This translates into a massive increase in the number of potential breaches of personal information.

The advances in the technology, besides increasing the ease of using the Internet and providing new and innovative services, is also providing new attack vectors, waiting to be exploited by cyber criminals.

The theft of financial information is nothing new, with stolen credit or debit card data on the black market a well-established and lucrative business for cyber criminals.

As new ways for paying for goods, such as contactless and mobile payments become the norm for consumers around the world, how can retailers protect themselves and their customers from hackers?

Cyber security threats are accelerating in terms of quantity and severity, and no cyber defence is fail proof. The most important thing that companies can do is to not exclusively focus on only 'protecting' their networks, but also to enhance their capabilities to 'detect' and 'respond' to threats which have made it past their defences. Only then will any organization be able to develop an integrated strategy to combat cyber threats. Under the traditional approach of 'Protect', the method to combat cybercrime was using antivirus programs, which were developed to detect and screen malicious code from infecting devices. However, as mentioned earlier, the increasing sophistication of cyber-attacks have started to break down this approach. It is estimated that antivirus programs only detect approximately 45 per cent of all cyber-attacks.

Instead, the new approach acknowledges that completely protecting against the exponentially growing threats is almost impossible, and focuses on 'Detect and Respond'. This involves responding to attacks by tracking data breaches, hacking attacks, and putting in place measures to mitigate the effects of the attacks.

Retailers have to be proactive in identifying potential threats and thinking about preventive measures to safeguard their organization and their customers against cyber-crime. The other important aspect to

protect various e-services is related to the effective and successful prosecution of cyber criminals. This is the most effective deterrence in the long term. There is need to work on technologies and policies, which promote better attribution in the cyber space.

Where does INTERPOL see itself in five years in terms of tackling cyber security around the world?

It is difficult to be certain of the developments that will take place in digital space in five years, in terms of what threats will still exist, and what form and intent they will take on. But it is certain that it will become even easier for criminals to operate as the world becomes more globalized and interconnected, and as borders and geographic space become increasing irrelevant.

Crime committed within the cyberspace is not contained by national or geographical boundaries. For example, a crime may have been committed in a first jurisdiction or country while the victims are in a different jurisdiction. In this case, law enforcement regulations may differ. And given that crimes committed over cyberspace, across borders, within cities and via supply chains are truly global threats, a global response is required. This calls for larger multi-stakeholder collaboration and partnerships between law enforcement agencies, governments and especially within the industry.

INTERPOL believes firmly in the need to use technology to fight crime in cyberspace, to also engage with the other stakeholders like private sector, academia and research organizations in co-creating innovative solutions to address existing and emerging security issues, and for governments to share best practices and learn from one another.

To that end, the launch of INTERPOL *World* this year is very timely. It will serve as a unique platform to connect governments and national law enforcement agencies with the private sector to identify security challenges, co-create innovative solutions and improve the detection and prevention of digital crimes around the world.

For more information, please visit: www.interpol-world.com. **SST**

VIVOTEK Debuts The World's Smallest Fisheye Network Camera FE8180, Unveiling A New Era For Simple But Powerful Panoramic Surveillance

VIVOTEK, with solid R&D resources and extensive experience in fisheye technology, recently announced the launch of the world's smallest five-Megapixel fisheye network camera, the FE8180. The FE8180's extremely low profile, with a diameter of only 90mm, further bolsters VIVOTEK's fisheye network camera products portfolio and satisfies diverse market needs. The launch of the FE8180 signals the dawn of a new era of simple but powerful panoramic surveillance.



Featuring a detailed five-Megapixel resolution sensor, the FE8180 is able to deliver clear and detailed images. When combined with WDR Enhancement and 3D Noise Reduction features, unparalleled visibility and image quality can be guaranteed around the clock while simultaneously improving on bandwidth efficiency. Designed with a 1.57 mm fisheye lens for 180-degree panoramic view (wall mount) or 360-degree surround view (ceiling/floor/table mount) with zero blind spots, the camera is able to provide coverage of wide, open areas, such as airports, shopping malls, parking lots, retail stores, offices and more. Add to this local or client side-dewarp functionality and hemispherical images captured from the FE8180 can be converted into conventional rectilinear projection for viewing and analysis.

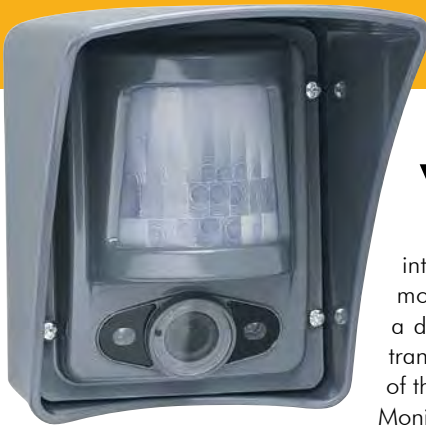
Further, by utilizing the ultra-smooth ePTZ and cutting-edge Pixel Calculator functions, users can easily zoom in and focus on a region of interest (ROI) and be confident that the image

will remain clear and of the highest quality. In order to make the installation and surveillance even more flexible, a flat back-panel mounting bracket for the FE8180 is also available. This bracket allows the FE8180 to be mounted on walls or a ceiling with a 15-degree tilt mount bracket.

Currently available VIVOTEK fisheye network cameras include the five-Megapixel FE8174/74V and FE8181/81V. In addition to five-Megapixel and fisheye fixed dome features, FE8181/81V are equipped with a removable IR-cut filter for Day and Night functionality, and a built-in 10-metre IR Illuminator for uniform lighting across a 360-degree surround view. Additionally, in order to deliver even more value to our customers, the full VIVOTEK video content analysis suite, including Field Detection, Line Crossing Detection, and Object Counting modules, is available immediately on VIVOTEK's FE8174 and FE8174V cameras.

For more information, please visit www.vivotek.com. **SST**

VIDEOFIED, The REVOLUTION In The Alarm Systems Industry



Outdoor MotionViewer

Video verification is a fast growing concept and an intelligent method for alarm monitoring, merging a panel, a digital camera and a video transmission technology. One of the biggest problems for the Monitoring Stations is the amount of false alarms. It is proven that most of them, over 98%, are false alarms.

The VIDEOFIED Solution

Launched by RSI VIDEO TECHNOLOGIES in 2002, VIDEOFIED is a totally wireless, battery powered (panel and peripherals) alarm system offering the following advantages:

- High Quality of service to the end-user
- Reliability
- Reduced operating costs

Service to the end-user

The fundamental element of the VIDEOFIED concept is the wireless MotionViewer detector, which is composed of a PIR movement detector with a built-in digital camera. In case of detection the camera captures a 10 second video clip, consequently recording the cause of the alarm. The video is transferred to the panel over using the military grade radio technology operating on 868 MHz, and then from the panel to the Monitoring Station over the GPRS (Cellular/Mobile) network. The MotionViewers are of course also equipped with infrared illuminators for night/dark conditions. The monitoring operator therefore receives an alarm signal but also related videos. A single VIDEOFIED panel supports up to 24 MotionViewers, it is therefore fitted for the residential, small and middle business markets. Through video verification, VIDEOFIED offers optimum security services:

- False alarms are verified (animal, user mistake...): the customer is not disturbed and intervention is not charged without justification.
- In case of confirmed break in: police or private patrol can be dispatched with a precise description of the situation. The actions thus undertaken are adapted to the type of intrusion (number of intruders, site classification (standard or under special surveillance...)).
- In case a "Panic" button is triggered the system automatically captures a video which allows the monitoring operators to confirm a dangerous situation.

Reliability

The VIDEOFIED systems, relying on the two-way radio communication (868 MHz) between the panel and all the devices without exception, guarantee this reliability.

The panel also informs all the peripherals of its status. Hence, if the system is disarmed, all the detectors (PIRs, magnetic contacts ...) stay in idle mode, avoiding any unnecessary energy consumption while the users are within the protected premises. VIDEOFIED assures an impressive battery life of up to 4 years for both the panel and peripherals on one set of batteries thus ensuring communications in all situations.



Indoor MotionViewer IMV

Minimum operating costs

Video verification and reliability of VIDEOFIED systems allows to radically reduce the operating costs:

- False alarm: avoidance of costly intervention (time, gas, limitation of patrols for the other sites).
- Wireless system: fast and easy installation without damaging the premises
- Reliability and extended battery life: up to 4 year battery replacement intervention satisfies both the installers and the end-users by its rarity
- In case of verified break in: fast dispatch of adapted intervention forces, intervention cost reimbursed by insurance companies, arrests of the intruders
- New sales offers: unlimited intervention included in the monitoring service, the customer pays only for the necessary interventions, construction site protection, protection against metal theft ...

Outdoor Protection

Since 2008, VIDEOFIED also offer the outdoor MotionViewer detector which allows to open new markets:

- Construction sites protection
- Protection and Monitoring of high security sites (communication antennas, electric substations...)
- Protection against metal theft
- The ease of installation (wireless 868 MHz communication and lithium battery power) makes VIDEOFIED an efficient solution to the topics of outdoor and remote sites protection (lack of electricity, construction evolution...).

For more information, please visit www.stratel.com.my **SST**



Dahua Completes New HDCVI Lite Series Line-up

Dahua Technology, a world-leading manufacturer and supplier of video surveillance products headquartered in Hangzhou, China just introduced a new 1080p HDCVI solution with a more affordable price, which consists of 1080p 1200-Lite-series HDCVI cameras and S2-series tri-brid DVRs.



The camera 1200-Lite-series includes IR-bullets and dome cameras, fixed and vari-focal lens are optional. The camera adopts a powerful chipset, incorporating advanced sensor and ISP, which not only provides outstanding image quality with vivid colour and abundant details, but also offers a wider angle of view. An addition, the in-house TX chipset is embedded in the ISP, making the camera quite compact.

The camera also adopts smart IR technology, along with photoresistor, making day/night switch more accurate; what worth a mention is their superb noise reduction ability, which can not only save HDD storage capacity, but also help deliver a benefit of rendering brilliant visual effect even under low illumination, which is suitable for applications such as underground parking lot or anywhere in dim-light surroundings.

In addition to the HDCVI cameras, Dahua also presents tri-brid HDCVI S2-series DVRs (HCVR S2 series). "We have indeed introduced some HCVRs before, but what makes S2 different is that this series is ready to replace all the conventional DVRs," said Jason Zhong, product manager at Dahua Technology. "S2 has the best colour reproduction than ever."

Thanks to the enhanced ultra UTP EQ function, the S2-series is able to support even longer transmission distance, for example, 1,100 metres for 720p with clear images and 800 metres for 1080p; meanwhile, this series supports 4G/Wi-Fi, making transmission more smooth and faster.

For more information, please visit www.dahuasecurity.com **SST**

Arecont Vision® MegaView® 2 Megapixel Cameras Offer New Features And Functions

Additions Include STELLAR™ Low Light
Technology And On-Board Storage



Arecont Vision®, the industry leader in IP megapixel camera technology, has added a number of significant features to the company's popular MegaView® 2 Day/Night bullet style megapixel cameras. The new MegaView® 2 features include Arecont Vision's groundbreaking STELLAR™ (Spatio TEmporal Low Light ARchitecture) Low Light Technology, optional on-board storage up to 32GB via an SDHC card slot; CorridorView™ capability that allows the camera's image to be rotated 90 degrees for better coverage in hallways and corridors; and an extended ability to scale images to different resolutions to better meet system bandwidth and storage requirements.



Additional performance features found in MegaView® 2 Day/Night megapixel cameras include remote focus/zoom p-iris lenses, Wide Dynamic Range (WDR) up to 100dB, integrated infrared illuminators, and wide angle or telephoto options. MegaView® 2 Day/Night megapixel cameras are available in a wide range of models with resolution up to 10-Megapixel. The 1.2 megapixel MegaView® 2 camera now incorporates Arecont Vision's innovative STELLAR™ Low Light Technology, which expands low-light performance by reducing motion blur, noise and storage requirements while also enhancing contrast and allowing color imaging in near complete darkness.

In addition to these new features, MegaView® 2 cameras feature Arecont Vision's wide dynamic range (WDR) technology which provides a dynamic range of up to 100dB at full resolution without lowering frame rates. By combining long and short exposures in the same field of view, WDR maximizes the amount of detail in both bright and dark areas of a scene. The WDR performance of Arecont Vision cameras represents up to 50dB improvement (300X) in dynamic range compared to conventional cameras.

Additional performance features found in MegaView® 2 cameras include: H.264 (MPEG-4 Part 10)/MJPEG dual encoders; privacy masking; extended motion detection with 1,024 distinct motion detection zones; pixel binning for increased light sensitivity (three-Megapixel, five-Megapixel and 10-Megapixel models); IP66 environmentally rated housings for use in harsh environments; flexible cropping to adjust image sizes; and the ability to choose PoE (Power over Ethernet) or external power. MegaView® 2 Telephoto cameras are available with integrated long distance infrared illuminators in resolutions of 1080p WDR, three-Megapixel WDR, five-Megapixel and 10-Megapixel.

For more information, please visit: www.arecontvision.com **SST**

MicroEngine Technology Launches PoE Powered Encrypted IP One Door Access Controller: P1000i

MicroEngine Technology, a trusted brand in Integrated Security Solutions in Malaysia and Singapore with plenty of experience in many large-scale projects has recently launched the PoE powered encrypted IP one door access controller P1000i with an on-board integrated PoE power supply circuit with charger and dedicated Fire Alarm Input.



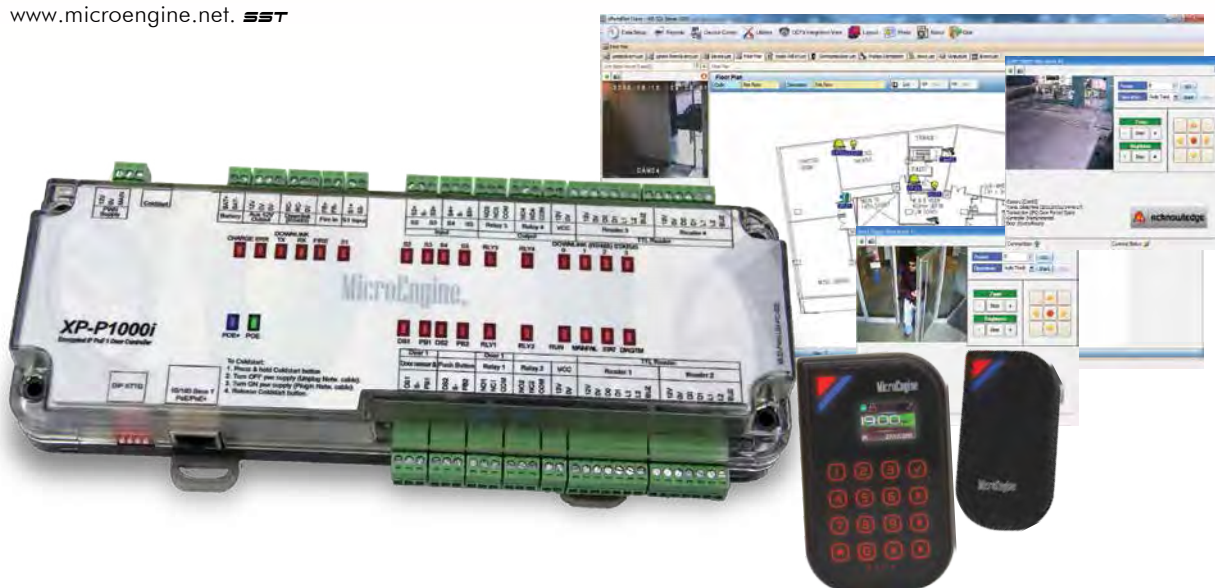
People are more sensitive about the environmental impact of their actions, and are more interested in using greener products. In security systems, Power over Ethernet (PoE) is one of the solutions to this. PoE is a technology that provides both data and power connections in one cable. Doing so minimizes the number of wires that must be strung in order to install the network and power. Hence the result is more cost-effective, there is less downtime, it is easier to manage and maintain, there is better configurability and greater installation flexibility than with the traditional wiring.

The P1000i PoE Access Controller supports MicroEngine’s in-house PLATO readers on RS485 connections, which gives you the option of multiple mode of readers only, reader + keypad or a reader + keypad + colour LCD operation, which means the door, can be configured to operate on different entry access modes at any time.

The PT1000i PoE Access Controller has four supervised inputs, one for door sensors, one for the push button. The other two are general-purpose inputs which can be used as alarm inputs or event triggered inputs. It also has a built in DEDICATED Tamper Switch input and Fire Alarm input for higher standard requirements. In addition, the IP communication is encrypted with AES128 with dynamic key exchange to increase security. P1000i supports both push and pull communication methods.

On top of this, it provides two Wiegand / ABA reader inputs that support 64 bits card numbers for better security, the more digits it can read, the lower possibility of reading duplicate card numbers. This will reduce the chances of card number duplicates in large card based installations. P1000i supports up to 10,000 card-user databases and 50,000 transaction records. The PLATO reader has the options of Prox, Mifare and Mifare DESFire.

For more information, please visit www.microengine.net. **SST**



The Most Affordable, Reliable And Efficient Digital Transceiver Is Now Available From KENWOOD!

JVC Kenwood recently unveiled the new NEXEDGE® UHF Digital & FM Portable Transceiver (NX-340).

Some of the specifications include:

- Audio output: 1W Enhanced Audio Quality with AMBE+2™ VOCODER technology
- Output Power: 5W (Five to Ten Kilometres coverage depending on the surrounding conditions)
- Channels: 32 Channels / two Zones
- Air Interface: NXDN® Digital Conventional
- High Security with NXDN Encryption
- Switchable Digital and Analogue Dual Modes
- GPS Connectivity
- Ergonomic Design

The NXDN® Digital Trunking Radio and Nationwide Network in Singapore are also available for purchase.

For more information, please visit: <http://nexedge.kenwood.com> or www.kenwood.com/sg/com **ESST**

KENWOOD





EA MSC Releases All New RAIN TAG Automatic Vehicle Identification System

EAMSC is one of the leading companies in the ASEAN market that has designed, developed and manufactured the long range RFID Automatic Vehicle Identification (AVI) system. Due to the product's superior performance it has a wide market appeal making it the best long range RFID AVI system in the region and worldwide.



RAIN TAG is equipped with the latest and innovative RFID (Radio Frequency Identification) technology to identify moving objects at long distances. This makes RAIN TAG the ideal choice for vehicle tracking and other applications requiring high-speed detection.

RAIN TAG especially works best in the parking and vehicle access industries because it provides the solution for secure and convenient hands-free access control. It can penetrate easily through a vehicle's heavy tinted solar film to allow a "truly hands free" operation as it eliminates the need to wind down windows.

The RAIN TAG demand has extended beyond the AVI market. RAIN TAG is now widely used in commercial buildings and corporate parking areas, gated communities, airport parking, university parking, hospital parking, factories, hotels and many other areas where the reliable tracking and management of objects using long range RFID is required.

A new generation of Readers, Tags and Tag Holders

A completely new generation of RAIN TAG long-range RFID readers, tags and tag holders are now being introduced to the parking and vehicle access industries all over the world. The new generation of long-range reader incorporates the latest cutting edge technology with several innovative features and a clean and modern design. The new generation reader and tag is fully compatible and can be installed in existing installations.

For more information, please visit www.eamsc.com **ESST**

Model: Five-Megapixel Box Type PoE IP Camera with Video Analytics

By: AirLive (OvisLink Corp.)

① www.airlive.com

- Five-Megapixel high resolution sensor
- 15 FPS at five-MP, 25 FPS at three-MP, 30FPS at 1080P
- Optional Wireless-N function
- WDR support
- Clear motion technology
- DC Iris support and IR-CUT Removable (ICR)
- SD/SDHC memory card slot for local storage
- Compatible with ONVIF standard
- 802.3af/at Power over Ethernet port
- Built-in Intelligent Video Analytics including face detection, iMotion detection, trip zone, object counting, face recognition, e-Fence (to prevent intruders)



Model: Arecont Vision® 4K MegaVideo® Cameras

By: Arecont Vision

① www.arecontvision.com

- The MegaVideo® 4K (3,840 x 2,160 pixels) Ultra High Definition (UHD) camera provides a total resolution of 8.3-Megapixels (MP) at 30 frames per second (fps) to deliver spectacular images
- The camera's exceptional resolution and fast frame rates are ideal for mission critical applications where the fastest and most subtle movements need to be captured
- The MegaVideo® 4K UHD camera features a highly sophisticated one-inch 8.3-Megapixel image sensor and extremely fast internal processing that runs quadruple the speed of conventional megapixel cameras to deliver unparalleled performance in both bright and low light environments
- The camera also features true Day/Night capabilities to capture UHD colour images during daylight hours and high-resolution black and white images in low lighting conditions
- The superior image performance provided by the new 4K camera can reduce overall system costs by covering larger areas with fewer cameras
- In fact, one Arecont Vision® 4K camera can replace several 1080p cameras that produce 2MP images at 30fps



Model: LN-803 EX-SDI

By: Hong Kong LNTech Security Co., LTD

① www.LNTech.com.cn

- Three-Megapixel HD Motorized Zoom Lens
- 2.4-Megapixel Panasonic progressive CMOS
- Long signal transmitting distance: 350m(75-3)/500m(75-5) via RG59 Coaxial Cables
- White and black frost housing, the first choice for high-end atmosphere. three-axis anti-cut bracket, easy installation and free directing
- Super WDR function, mild and clear image, comfortable for human eyes
- PAL and NTSC free switching, easy-operation menu
- High Definition without compression, real-time transmission



Model: RX-24

By: Associated Industries China, Inc.

① www.agneovo.com

- NeoV™ Optical Glass provides extra-hard protection and is easy to clean for multi-user and public environments
- Anti-Burn-in™ technology prevents the burnt-in ghost images, allowing the real-time images at even the most demanding work place
- Advanced Image Platform™ (AIP) technology: PIP and PBP functions; 3D Comb Filter/ Deinterlace/ Noise
- Versatile inputs: VGA, DVI, HDMI, S-Video, CVBS in/out (BNC x 2), Audio in/out
- BNC video out passive looping
- Rigorous component selection for mission-critical 24/7 operations
- Durable metal housing



Model: JVS-H210

By: Jovision Technology Co., Ltd.

① <http://en.jovision.com>

- One-Megapixel network camera
- Supports Wireless 802.11n
- Built-in MIC and speaker and Two-way talk
- Day and Night monitoring with IR-Cut upto 10M IR
- Remote viewing on smart phone using keyword: CloudSEE
- Mobile App supports remote playback and recording on the phone.



Model: Full HD IR bullet IP camera (BL810F1IR)

By: Siquira B.V.

① www.siquira.com

- 1/2.8" Progressive scan CMOS imager
- 3.6 mm fixed lens
- Full HD 1080p resolution
- Dual-stream H.264 and MJPEG video
- Day/night with IR-cut filter
- Built-in IR illuminator (effective distance: 15 m)
- Sunshield and cable management
- IP66 Ingress protection rating
- 12 Vdc / 802.3af PoE
- ONVIF Profile S conformant



Model: DC470MM2

By: Nanjing Odin Technology Co., Ltd.

① www.njodin.com

- Resolution: 1920*1080
- Brightness: 500cd/ m2
- Backlight: LED
- Viewing Angle: 178°/178
- Bezel: 4.9mm
- Power Input: AC 100~240V, 50/60, Universal, ±10 per cent



Model: IES2010-2GS-4F

By: Shenzhen 3onedata Technology Co., Ltd

① www.3onedata.com

- Supports four port 10/100M Ethernet, four port optic fibre 100M (SC/ST) and two port gigabit (SFP slots)
- DIN Rail mounting, W×H×D: 136mm×52mm×105mm, Weight: 800g
- Support 10/100M, half/full duplex, MDI/MDI-X, 1000BaseSX/LX/LHX/ZX (LC)
- Supports broadcast storm shield
- Redundancy DC12-48V Power input
- Supports industrial grade four level
- IP30 protection, metal shell, DIN Rail
- FCC, CE, RoHS approvals



Model: UV-AHDBM709

By: Shenzhen Unique Vision Technology Co., Ltd

① www.unique-cctv.com

- Clearer, advanced bright colour separation, signal filtering, 3D noise reduction technology, higher image resolution and better image reducibility
- Longer transmission, coaxial transmission common 75-3 cable up to 500 metres
- Zero delay, front-end data without coding compression to the back-end, real-time, high fidelity
- Good compatibility. Compatible with ordinary D1/960 h, and with analog peripherals (including distributors, matrix, etc.)
- Easy operation, supports OSD menu design, with what you want and need
- Affordable and high quality
- High integration, AHD front-end chip prices, high quality products
- Open standards, third-party open standards, compatible with AHD from other manufacturers products, accelerate the market progress
- AHD - M definition, 42pcs IR Leds, Max 30m IR Distance, 2.8~12mm Varifocus lens, IP66 waterproof metal casing



Model: DH-HCVR4204/4208/4216A-S2

By: Zhejiang Dahua Technology Co., Ltd

① www.dahuasecurity.com

- Supports HDCVI/Analog/IP Video input
- H.264 dual-stream video compression
- HCVR4204/4208/4216A-S2: All channel 720P recording 4/8/16 channel synchronous playback
- GRID interface and smart search
- HDMI/VGA simultaneous video output
- Supports two SATA HDDs up to eight-TB, two USB2.0
- ONVIF Version 2.4 conformance
- 3D intelligent positioning with Dahua PTZ dome camera
- Multiple network monitoring: Web viewer, CMS (DSS/Smart PSS) and Smart Phone (DMSS)

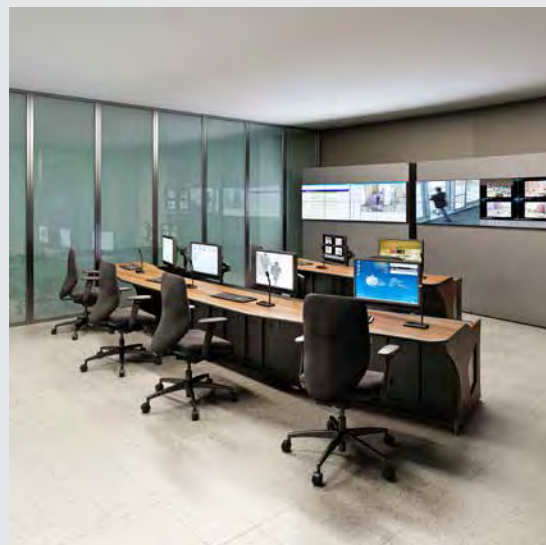


Model: Sight-Line Control Room Console

By: Winsted

① www.winsted.com

- Modular and reconfigurable to fit any installation no matter how large or small
- Versa-Trak monitor mounting system offers the ultimate in flexibility
- Integrated data/power rail is conveniently located at the back of the work surface
- Easy-access cable management makes installation and maintenance fast and easy
- Extra-sturdy doors can support a CPU shelf or file bin for convenient "swing-out" access
- Multiple work surface options are available to meet the demands of any installation



Model: InfinityLens (IL-52-M18-CSIR)

By: WARP INTERNATIONAL OPTICS COMPANY LIMITED

① www.warptics.com

- Infrared corrected
- Enhance depth of field
- Compatible with CCTV cameras up to 10mp
- Supreme iteration of day and night-time imaging
- Innovative design
- Precision engineering
- Utilizing premium glass in an apochromatic design

Model: BOSP-S2812IR30212WDOW-000

By: Ubiquity Smart technology Inc.

① www.ubiquitysmart.com

- Adopt world leading and best noise-resistant HD-DTV (ccHDTV) digital transmission technology
- World longest 1,000M w/o repeaters 1080P HD video, audio transmission and return-channel control
- Multiple full 1080P HD video streaming (48Ch full HD) over one single coaxial cable
- Enable 1080P HD upgrade, expand and deploy on existing aged coaxial cables
- Enable 1080P HD upgraded and mixed installation with HD IP solution
- Various 1080P HD installation topology including Daisy chain, Star, Tree, Star & Tree, Ring, Wireless and etc.



Model: LTX-EM560

By: Jackwell Limited

① www.locktronixusa.com

- Dimensions: 250L x 42W x 25H (mm)
- Holding Force: 280kgs (600Lbs)
- Voltage: 12/24VDC+10 per cent
- Door Status Sensor: (NO/ NC/ COM)
- LED Indication: Green – Door lock;
Red – Door unlock
- Weight: two kilograms

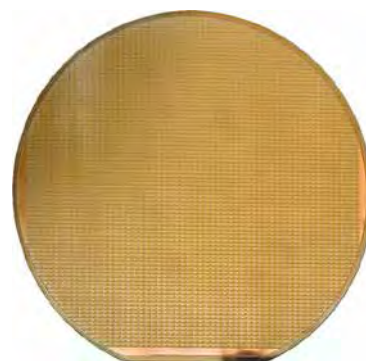


Model: ATC1024 MV010

By: LEGIC Identsystems Ltd.

① www.legic.com

- Based on ISO 15693
- Identification of persons or objects in a range of up to 70 cm
- Top modern and highest cost efficiency
- Fast and reliable processing
- Unique Master-Token System-Control™ supported



Model: SM201 wireless fingerprint reader

By: Maxis Biometrics Co. Ltd

① www.miaxis.net

- The wireless interface (Bluetooth WIFI) is compatible with the interface of mobile platforms
- The power charging is done via the USB connection with PC or adapters
- The USB interface is compatible with the USB interface of the terminals
- It is maintenance free and supports hot plug and works as plug-in
- High security
- Strong extensibility
- Operate convenient, simple and fast
- Non-repudiation and traceability
- Small volume, slim, beautiful appearance



Model: KeyWatcher Touch

By: Morse Watchmans

① www.morsewatchmans.com

- Now with new, easier-to-use onscreen icons, Morse Watchmans' KeyWatcher Touch enterprise key control and management system has a large touchscreen and user-intuitive interface
- KeyAnywhere lets you return a key to any KeyWatcher in your enterprise
- Locate which KeyWatcher a specific key is in or find who has it with KeyFind
- Every transaction is automatically recorded
- With improved integration capabilities, patented SmartKey system, modular design and full scalability, we just keep making key management better



Model: OSDP Networked Controller (AC-825IP)

By: Rosslare Enterprises Ltd.

① www.rosslaresecurity.com

- Four-door (In/Out) networked access controller
- Backbone of medium to high-scale security system
- One onboard expansion slot – further 16-board expansion via OSDP
- Driven by AxTraxNG™ – powerful, flexible, and easy-to-use software (FOC 64 panels)
- Modular/expandable solution up to 74 doors per panel
- Perfect for commercial and enterprise applications
- AES 128-bit encrypted TCP/IP communication to AxTraxNG™ server

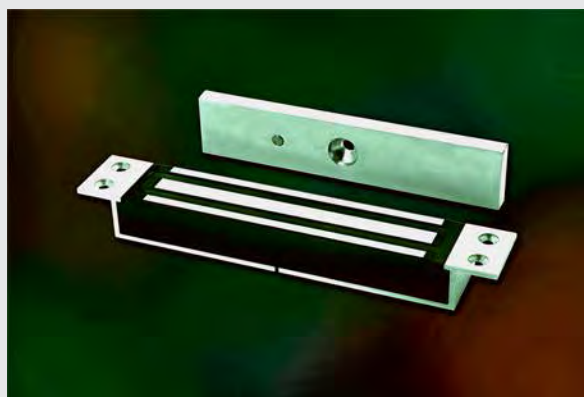


Model: MORTICE SERIES ELECTROMAGNETIC LOCK

By: UWC Electric (M) Sdn. Bhd.

① www.uwcelectric.com

- Designed for flush mount application access control
- Integrated Lock Status Monitoring feature (LSMF) - Monitored type with built-in reed switch
- Available with holding force up to 300lbs, 600lbs and 1200lbs
- Fail Safe
- Zero residual magnetism
- Dual Voltage Input, 12Vdc or 24Vdc selectable
- Ease of installation with low maintenance and low energy consumption made it a cost saving product
- This EM Lock operates quietly



Model: PM910C Central Payment

By: Xiamen DASHOU Technology Ltd.

① www.dashou-china.com

- Power Supply: 88-264V/AC, 47-63Hz
- Power Consumption: Entry Station 350W Max. (No Heater), Exit Station 200W Max. (No Heater), POS 100W Max
- Working Temperature: Entry and Exit Station -10-55 degrees Celsius and up to -4 degrees Celsius with heater, POS 0-55 degrees Celsius
- Working Humidity: 10 – 95 per cent
- Thick Ticket Capacity: 3000 PCS. Barcode
- Card Reader: Proximity / Long Range RFID
- Outdoor protection: IP54
- Communication: CAN and RS485 and RS232

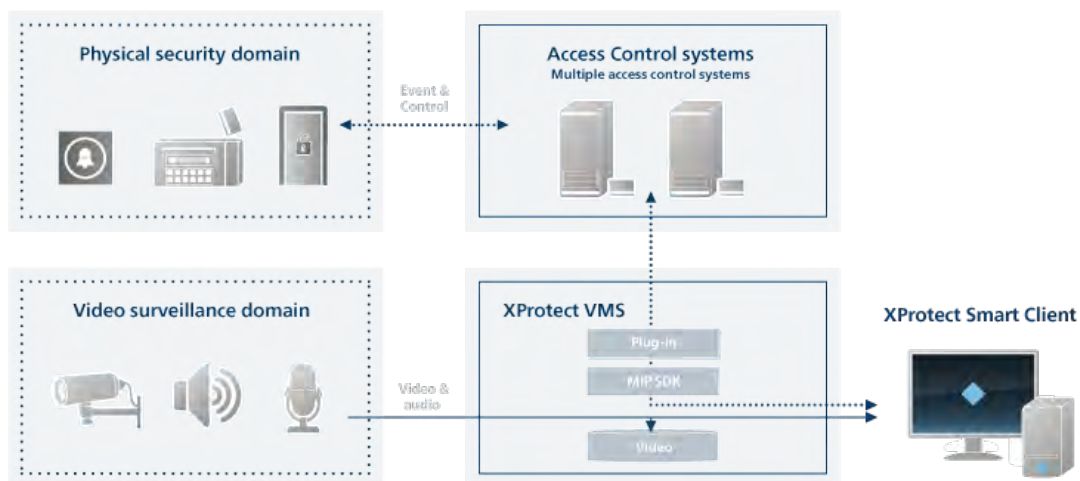


Model: XProtect® Access Control Module

By: Milestone Systems

① www.milestonesys.com

- An add-on product to the XProtect VMS product suite
- It offers a new and more efficient way to operate access control and video surveillance systems through a unified interface, XProtect® Smart Client. The ability to tie video and access events together greatly enhances the investigation of incidents
- XProtect Smart Client provides a consolidated interface for operating integrated access control systems with functions to effectively monitor access events, manually assist passages and conduct investigations of specific access points or cardholders
- XProtect Access Control Module 2014 eliminates the need for users to work with multiple independent systems because the primary and most commonly used access control functions are an integrated part of XProtect Smart Client
- XProtect Access Control Module 2014 makes it possible to integrate different access control systems within the same customer installation
- Dedicated functions make it easy to export video evidence and generate reports, further easing incident investigations
- XProtect ACM is compatible with the 2013 versions of XProtect® Enterprise, XProtect® Professional and XProtect® Express and available in the XProtect Smart Client 2013 R2.



Model: Bluguard Senseries Pro 10

By: Archtron Research & Development Sdn. Bhd.

① www.bluguard.com.my

- 32 zones for security devices
- 32 home automation points
- Smart scene control for automation
- Smart phone application ready for iOS and android
- Video intercom system within the premise
- Smart interface for CCTV camera to link third party camera
- Messaging system within premise or gated community
- User friendly interface for easier configuration



Model: Z10 Tension Sensor

By: Gallagher

① www.security.gallagher.co

- Provides continuous, real-time, wire tension measurement displayed in kg or lb
- Detects both fast and slow attacks
- Generates attack alarms based on single or multi sensors
- Differentiates between environmental changes and attacks
- Self-aligns to optimize performance and to allow for variation in mounting angle
- Has a seven to sixty kilograms continuous operating tension range (15 to 130 lb)
- Provides overload protection to 200kg (440lb)
- Delivers high, and low, wire-tension maintenance alarms
- Enables fast installation using new Pivot Mount Technology as well as plugged and IDC connectors
- Can be retro-fit to existing Gallagher perimeter security systems
- Integrates with Gallagher Command Centre (v7.10 and v7.20)



Model: AdvanceGuard Radar - Perimeter Intrusion Detection System (PIDS) and Wide Area Surveillance and Security

By: Navtech Radar Ltd.

① www.navtechradar.com

- Provides combined Perimeter Security and Wide Area Surveillance
- Unlimited virtual fences and multiple detection zones
- Advance warning and "Stand Off" threat detection providing increased response times
- 24/7 operation in all weather and climatic conditions
- Automatic real time tracking reducing operator burden and the reliance upon manned monitoring of CCTV
- Determine the size/type/number of approaching threats
- Low false alarm rates, reducing operator burden
- Effective over land and water, detecting vessels at sea and vehicles and people on land



Model: Evolution 360-Degree Indoor Mini Camera

By: ONCAM GRANDEYE

① www.stratel.com.my

- Constant 360-degree surveillance, no blind spot
- Mini enclosure ideal for discreet mounting
- No moving parts; no maintenance; silent operation
- 30fps @ one-MP and 1/4-MP, 15fps @ two-MP, 10fps @ four-MP
- 0.2 lux minimum illumination; providing clarity in low light
- PoE powered; with integrated RJ45 flying lead
- Three-year warranty



Model: Outdoor Dual Tech Detector (SOD-212AM)

By: **SUNWAVE ELECTRONICS CO., LTD.**

📍 www.sunwave.cc

- Microprocessor CPU
- Special optical filter lens, white light immunity at 10000LUX
- Waterproof function for outdoor environment
- Using Doppler effect and energy analysis
- Microwave using X-band planar antenna
- Alarm output NC/NO optional, suitable for different alarm control panel
- Pulse count optional and Anti-masking
- Whole seal for insect immunity function
- Temperature auto-compensation, strong ability to avoid false alarm

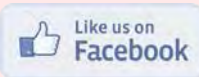


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101 Lorong 23 Geylang, #06-04 Prosper House, Singapore 388399 T: (65) 6842 2580 • F: (65) 6745 9517 / (65) 6842 2581 • E: info@tradelinkmedia.com.sg

Model: RAINTAG AVI SYSTEM

By: EA MSC

① www.eamsc.com

- Adjustable reading range of up to five metres
- High immunity to noise
- Integrated antenna
- Wireless communication design for retrofitting
- Low operating frequency
- Better penetration through vehicle's window tinting
- Automatic tuning technology to reduce interference
- Dual technology with integrated Mifare or Desfire (one card solution)



Model: ALINK-A300n R2

By: ALCON Technology Corporation

① www.alcon.tw

- Ideal wireless solution for IP surveillance
- Dual frequencies with Giga port interface
- Stable transmission with high bandwidth
- Compatible with all IP devices (IP camera, switch, NVR etc.)
- IP68 graded true outdoor enclosure for all outdoor environments
- Built-in lightning protection circuits
- Fast and easy installation



Model: Fido B2

By: FLIR Systems, Inc.

① www.flir.com/threatdetection

- Provides near real time warning capability for biological aerosol threats
- Government validated with over 3,000,000 hours of run time in relevant environments
- Alert can automatically trigger a particulate sampler for subsequent identification
- Operates unattended 24/7 without consumables
- Complete self-diagnostic system
- Battery or line powered with up to 16-hour run time per battery charge
- Easily integrated with most building monitoring and control systems
- Alert algorithms validated for both indoor and outdoor environments



Model: IriShield™ Series

By: IriTech, Inc.

① www.irittech.com

- Secure on-board processing - All key functions like this capture, iris recognition, key generation, encryption, and digital signature are done on-board in a secure environment
- Secure data and communication - each IriShield device has its own 2048 bit RSA key securely generated on-board for encryption and digital signature
- Key device in IriTech's secure end-to-end biometric solution.
- OTP/Password/Timestamp can be seamlessly integrated with IriShield
- Ultra compact and light-weight
- Low power consumption and tamper-proof
- Cost effective - Most economical for projects of any size
- Various OS supported - Windows Family, Linux Family, WinCE, Embedded Linux, and Android



Model: Ixm Touch

By: **CARDZ**

① www.cardzme.com

- Android Operating System
- Capacitive touch screen 2.4"
- Corning Gorilla Glass 3
- 500dpi fingerprint sensor
- Presence Detect technology
- Wi-Fi
- Battery Back up
- Power over Ethernet



Model: IW-100GX-N

By: **Cerio Corporation**

① www.cerio.com.tw

- Operation Modes: Pure AP+WDS Mode, Pure WDS Mode, Client Bridge Universal Repeater Mode, WISP Repeater + AP Mode
- IEEE 802.11n 1Tx / 1Rx Design, Bandwidth of up to 150Mbps(Tx), 150Mbps(Rx) link rate
- 800mW at 2.4Ghz Output High Power
- Supports eight Multiple-BSSID and supports IEEE802.11f IAPP
- Maximum Security with 802.1X, WAP, and WPA2
- Integrated IEEE 802.3af Power over Ethernet (PoE)
- Max WDS Link x 8 (Wireless Distribution Service) for Pure WDS Bridge
- Build in Wireless RF Signal Enable and Disable by time scheduling function
- Integrated IGMP v1/v2/v3 snooping functions and Support Web management



Model: Leadtek POS Solution

By: **Leadtek Research Inc.**

① security.leadtek.com

- Two individual POS systems connection at the same time available
- POS information shown on video live display and recorded in RAID storage
- Instant smart search for user desired POS information
- Flexible POS protocol for integration



Model: BioSurveillance NEXT

By: Herta Security

① www.hertasecurity.com/en

- High performance video-surveillance solution for facial recognition
- Specially designed for simultaneous identification of subjects in crowded places
- Optimized for GPU architectures
- Works 40 times faster than traditional systems
- Works with very high-resolution video streams
- Ideal for crowds in constant movement such as airports, metro and train stations, shopping centres, sports stadiums and urban centres
- Possibility of enrolling subjects on-the-fly
- Works correctly even with partial occlusions of the face



Model: LEX Twitter 3847NM - PoE IP Surveillance system

By: LEX COMPUTCH CO., LTD

① www.lex.com.tw

- 4 x 802.3af PoE ports as compact and all-in-one PoE / NVR platform
- Intel® Celeron® Processor 1047UE (option available with i3/i7) + Intel® BD82HM76 PCH
- MB size 3.5" 146 x 102mm; Twitter chassis dimension: 210W x 125D x 55 H mm
- Graphic: Intel Ivy bridge Integrated Graphics chipset
- Memory: On Board 4G, DDRIII 1333 & 1600MT/s
- Features: VGA, HDMI, 4 x IEEE 802.3af PoE Lan, 1 x Gb Intel Ethernet, 2 x Mini PCIe, 1 x SIM card socket, 7 x USB, 2 x COM, Wide Range DC-In, CPC-Car power control



Model: iSTAR

By: Omni Integer Pte Ltd

① www.omni-integer.com

- Instant fully automatic fast capturing 360 degree images
- Ruggedized, weather-proof and portable for quick deployment
- Integrated Wi-Fi, compass and tilt sensors and plugin GPS
- Live spherical real-time viewing and streaming
- Internal automatic stitching of images
- Open file format to integrate to any existing software



Model: ED12

By: Powerbank Electronics Corporation

① www.powerbank.com.tw

- DC UPS / adapter with battery
- Changeable for Battery
- Over Discharge, Overload, Short Circuit, Surge Protection
- Two hours back up time
- 2600mAh battery
- 5-12V DC voltage

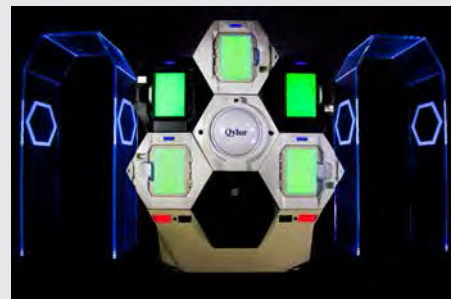


Model: Qylatron™ for Secure Facilities

By: Qylur Security Systems, Inc.

① www.qylur.com

- Automated self-service screening and access control creates a streamlined convenient and private process
- Simultaneous operation of five individual baggage cells
- Scan rate: 750 to 1,000 item per hour within a four m² footprint
- High people flow: 600 average, up to a maximum of 1,000 people per hour
- Multi-threat detection by integrating multiple complementary sensors including multi-view dual-energy X-ray
- Direct link between person ID and bag screened
- Command and control integration for enhanced response protocols





Secutech Opens On 28 April With 420 Exhibitors From 15 Countries And Regions

The 18th edition of Secutech will take place from 28 – 30 April 2015 at the Taipei Nangang Exhibition Centre in Taiwan. Organised by Messe Frankfurt New Era Business Media Ltd, the annual show features 420 exhibitors who will showcase an array of the latest components, finished products and integration solutions in electronic security, home security, info security and fire and safety. There are 15 countries and regions featured across the fair's 30,275 sqm of exhibition space, including China, Denmark, Hong Kong, Japan, Korea, Lithuania, Malaysia, the Netherlands, Russia, Singapore, Spain, Taiwan and the US.

Sharing the highlights of the upcoming show, Parson Lee, managing director of organiser Messe Frankfurt New Era Business Media Ltd, said: "As always, Secutech 2015 is offering a premier networking platform to connect global security professionals with Asia's top-tier original manufacturers and service providers. This year, we are launching SMAhome Expo, a new show component featuring over 200 booths distributed in three categories,



SHOW PREVIEW

SECUTECH TAIPEI 2015

secutech



namely Home Security, Home Control and Connected Home. Visitors will be able to view the latest innovations in ultra HD, NFC, cloud storage, smart smoke detection and more at the designated areas, making their sourcing experiences more effective."

Show's comprehensive programme facilitates market information exchange

In addition to sourcing, Secutech offers a series of concurrent events with substantial support from the industry's foremost brands and associations. A number of product presentations, forums, seminars and networking platforms not only increase knowledge between professionals, but also provide an important avenue for business growth. For the 2015 show, scheduled complimentary activities include:

- **SMAHome International Conference**

Held alongside the SMAHome Expo from 28 – 29 April, SMAHome International Conference features two tracks, Technology and Marketing. Over 10 speakers from design solution providers, manufacturers and leading brands from Europe and the US will discuss the latest technology in intelligent home components, parts and products, as well as share market forecasts and product applications in the near future.

Secutech Excellence Award 2015

Focusing on "Ultra HD", the fifth edition of the Secutech Excellence Award will be presented to the best brands of UHD IP cameras, panorama IP cameras and NVRs. Buyers will be able to witness demonstrations and vote for the winners. Participating brands include Brickcom, Dahua, Honeywell, Merit Lilin, Panasonic, QNAP, Synology and Vivotek. The award presentation ceremony is scheduled to take place at 11:00 on 30 April.

- **HD-over-coax Live Demo**

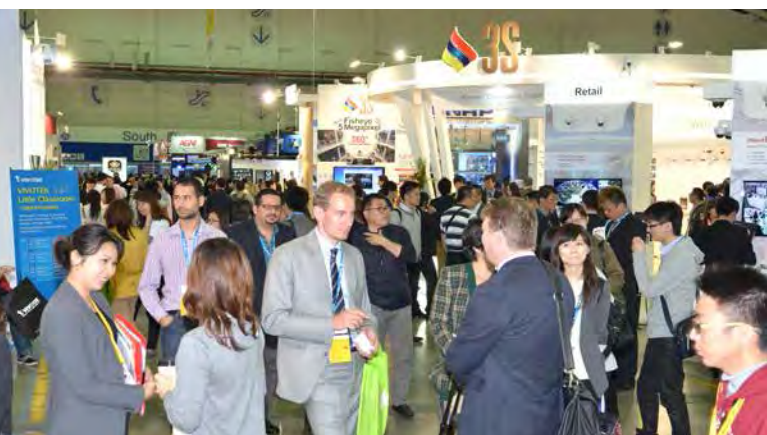
This year's Live Demo will enable visitors to have an all-round comparison among five major types of HD-over-coax solutions, including CVI, TVI, AHD, cchDtv and Ex-SDI.

- **Composec Conference**

This conference consists of three tracks, covering IP Ultra HD Solutions, HD over coaxial, and Transmission and Storage. Key speakers representing brands such as Dahua, Eyeenix, Toshiba and Western Digital will take part.

- **Global Digital Surveillance Forum (GDSF) Asia**

This year's GDSF Asia is comprised of 18 sessions over the first two days of the show, and will cover the latest innovative integrated solutions and new applications for the banking, retail, city surveillance and transportation sectors. Speakers include representatives from Panasonic, VIVOTEK, FLIR and other world class brands.



Secutech Taipei 2015

Date: 28 – 30 April 2015

Venue: Taipei Nangang Exhibition Centre

For more information, please log on to:
www.secutech.com **SST**

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Security Sector Abuzz At GSA 2015 – Asia's Leading Homeland Security Event

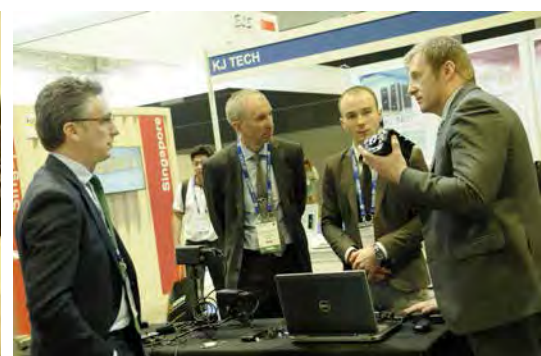
Exhibitors Showcase New Technology While Experts Assess The Regional ISIS Threat

Global Security Asia (GSA) 2015 recently concluded its sixth successful iteration in Singapore. The event, which ran from 3 - 5 March 2015 at Suntec Singapore Convention and Exhibition Centre, showcased the latest trends and technologies in homeland security and addressed the key issues surrounding the ISIS threat to the region.

The exhibition saw more than 5,000 visitors over three days and featured nearly 200 exhibitors from 32 countries. There to see the latest in security hardware and software

were also 58 VIP delegates in attendance from 11 Asia-Pacific countries, including Cambodia, India, Republic of Korea, Malaysia, Myanmar, Pakistan, Philippines, Sri Lanka, Taiwan ROC, Thailand and Vietnam.

VIPs, delegates and trade visitors got first-hand demonstrations from bellwether exhibitors such as Adani, SAAB, Lockheed Martin, Rafael, Cobham, Condor, iRobot, Cellebrite, Scott Safety, Glock, Norinco and others as they put advanced technology and equipment on display at what is the leading exhibition and conference covering all





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aspects of counter terrorism, internal state security, law enforcement and civil defence in the Asia Pacific region.

"We are really excited to be represented here at GSA 2015 and show that Rafael remains at the cutting edge of defence and security technology," said BG (Ret) Zion Sapir, general manager of Rafael Singapore. "It has been a very successful outing for us this year and it was an honour to demonstrate our systems to the many visitors at the show."

Guest of Honour Masagoes Zulkifli, senior minister of State, Ministry of Home Affairs and Ministry of Foreign Affairs, officiated the opening ceremony and had a tour of the exhibition.

VIPs and delegates were also enthused about the event. "This is an

excellent event in terms of speakers and providing us with the opportunity to improve on global security issues and knowledge and the exhibition has given a significant boost to the importance for our business contacts and established good relationships with them", said brigadier Jayampathi Tilakaratne of the Sri Lankan Army. GSA 2015 also addressed key issues surrounding the ISIS threat to the region at its conference entitled "The New Asian Threat Landscape". The two-day conference was attended by over 300 representatives from commercial and government organisations, who gathered to discuss the region's threats and how best to mitigate, prevent and react to them.

Other speakers highlighted the prevalent threat of radicalisation via social media and the possible use of biological agents such as smallpox or anthrax as the key challenges facing national security efforts.

Andrew Marriott, managing director of GSA Exhibitions Pte Ltd looked forward to continued growth of the show in the years to come, "Our exhibitors and delegates were very positive about what they took away from our show. The various threats to national security keep evolving and growing in new ways and there is no doubt that we will see even stronger interest in MILIPOL Asia-Pacific in 2017, incorporating Global Security Asia, in Singapore, as collaboration across the region deepens."



Global Security Asia 2015

Date: 3 – 5 March 2015

Venue: Suntec Convention and Exhibition Centre, Singapore

For more information, please log on to:
www.globalsecasia.com **SST**

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