

# Security Solutions Today

March / April 2015

## MANUFACTURING & INDUSTRIAL SECURITY

### Cover Focus

*Cyber Threats: Hiding In Wait, And Targeting Your Most Valuable Assets*

### Security Feature

*Security Management For Critical Infrastructures & More..*

### Speacial Feature

*HID Global Shares Top Secure Identity Trends For 2015*


### Show Preview & Review

*Secutech ASEAN 2014*

*Global Security Asia 2015*

*INTERPOL World 2015 & More..*



Scan this code &  
'Like' us on 



1080P(HDCVI)

960H

D1

# i ♥ HDCVI

## the Best and True Analogue HD

### Highlights:

#### High Definition Composite Video Interface (HDCVI)

- Fast and Fabulous to HD
- Zero Video Lose/Real-time Preview
- 3 Signals (Video/Audio/Control) in 1 Coaxial Cable
- Long-distance Transmission
- Support 1080P & 720P
- Embedded with TX chipset
- OSD Menu (Multi-language)
- HD/SD Switch

### Recommended models:



4/8/16 All Channel 1080P  
2U Tribrid(Analog/IP/HDCVI)DVR  
HCVR7804/08/16S



4/8/16CH 720P-Pro  
1U HDCVI DVR  
HCVR5204/5208/5216A-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



# Merchandise Availability Solutions



INCREASE SALES

IMPROVE ON-SHELF AVAILABILITY

REDUCE WORKING CAPITAL

IMPROVE CUSTOMER SERVICE

ENHANCE LOSS PREVENTION

DRIVE PROCESS IMPROVEMENT

APPAREL

SUPERMARKET

PHARMACY

BEAUTY

DISCOUNTER

.....

Contact Checkpoint to learn more about RFID-based solutions.

[CheckpointSystems.com](http://CheckpointSystems.com)  
[apac.marketing@checkpt.com](mailto:apac.marketing@checkpt.com)

**Checkpoint** 

# CONTENTS

March - April 2015



**CALENDAR OF EVENTS** 6

**EDITOR'S NOTE** 8

## IN THE NEWS

Around The World 10

Eye On Asia 18

## COVER FOCUS

Cyber Threats: Hiding In Wait, And Targeting Your Most Valuable Assets 22

## INSIDE LOOK

Access Control 28

Mail Screening 54

Thermal Technology 81

## CASE STUDIES

Manufacturing & Industrial Security 36

General 60

## SECURITY FEATURE

Security Management For Critical Infrastructures 32

Comprehensive Solution For Prevention Of Attempts Of Terrorist Acts 56

Delivering Enhanced Security With Hi-PoE 83

Best Practices For Key Control And Asset Management Systems 85

Why IP Surveillance Could Be The Channel's Next Big Thing 88

Revolutionary Invention Accelerates The Evolution Of Outdoor 91

And Long Distance Surveillance Applications

**PRODUCT SPOTLIGHT** 94

**PRODUCT SHOWCASE** 108

**SHOW PREVIEW** 126

**SHOW REVIEW** 134



**Meet Evolis  
at Interpol World 2015  
Booth R11**

## A CARD PRINTING SYSTEM FOR EVERY SECURITY REQUIREMENT




Customize Cards for Multiple Applications

**Printing backgrounds**

**Graphic customization**  
Texts, photos, logos, barcodes



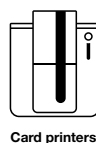
**Data encoding**

-  Magnetic strip
-  Chip
-  RFID contactless chip

**Security**

Lamination, standard or customized holograms

Much more than card printers



**Publisher**

**Steven Ooi** (steven.ooi@tradelinkmedia.com.sg)

**Editor**

**Sharon Kaur** (sst@tradelinkmedia.com.sg)

**Group Marketing Manager**

**Eric Ooi** (eric.ooi@tradelinkmedia.com.sg)

**Marketing Manager**

**Felix Ooi** (felix.ooi@tradelinkmedia.com.sg)

**Marketing Executive**

**Griselda Wong** (griselda.wong@tradelinkmedia.com.sg)

**Head Of Graphic Dept/  
Advertisement Co-ordinator**

**Fawzeeah Yamin** (fawzeeah@tradelinkmedia.com.sg)

**Graphic Designer**

**Siti Nur Aishah** (siti@tradelinkmedia.com.sg)

**Circulation**

**Yvonne Ooi** (yvonne.ooi@tradelinkmedia.com.sg)



Designed by Fawzeeah Yamin

Printed in Singapore by KHL Printing Co Pte Ltd.

**Security Solutions Today**

is published bi-monthly by  
Trade Link Media Pte Ltd  
(RCB Registration No: 199204277K)  
101 Lorong 23, Geylang,  
#06-04, Prosper House, Singapore 388399.  
Tel: 65-68422580  
Fax: 65-68422581  
ISSN 2345-7104 (Print)

The magazine is available free-of-charge to applicants in the security industry who meet the publication's terms of control. For applicants who do not qualify for free subscription, copies will be made available, subject to the acceptance by the publisher, of a subscription fee which varies according to the country of residence of the potential subscriber in the manner shown on the right.

The editor reserves the right to omit, amend or alter any press release submitted for publication. The publisher and the editor are unable to accept any liability for errors or omissions that may occur, although every effort had been taken to ensure that the contents are correct at the time of going to press.

Views and opinions expressed or implied in this magazine are contributors' and do not necessarily reflect those of Security Solutions Today and its staff. No portion of this publication may be reproduced in whole or in part without the written permission of the publisher.

**ANNUAL SUBSCRIPTION:**

- Surface Mail:  
Singapore - S\$45 (Reg No: M2-0108708-2 Incl. 7% GST)
- Airmail:  
Malaysia/Brunei - S\$90  
Asia - S\$140  
Japan, Australia, New Zealand - S\$170  
America/Europe - S\$170  
Middle East - S\$170

**ADVERTISING SALES OFFICES**

Head Office: Trade Link Media Pte Ltd.  
(RCB Reg. No: 199204277K)  
101 Lorong 23, Geylang, #06-04, Prosper House, Singapore 388399.  
Tel: 65-68422580; Fax: 65-68421523, 68468843, 68422581.  
Email (Mktg): info@tradelinkmedia.com.sg

**India:**  
Mr. Avneet Singh  
Mark Excellence Business Management  
C317 / 8 Inlaks Nagar, C.H.S.  
15 Yari Road  
Versova, Andheri (West)  
Mumbai  
India  
Tel: +91-22 325 81 747  
Fax: +91-22 263 96 204  
avneet@markexcellence.com

**Japan:**  
T Asoshina/Shizuka Kondo  
Echo Japan Corporation  
Grande Maison, Rm 303,  
2-2, Kudan-Kita, 1-chome,  
Chiyoda-ku, Tokyo 102,  
Japan  
Tel: 81-3-32635065  
Fax: 81-3-32342064

**Korea:**  
MCI  
Rm. 103-1011,  
Brown Stone, 1330,  
Baeseok-dong, Goyang-si,  
Gyeonggi-do,  
Korea 410-907  
Tel: +82 2 730 1234  
Fax: +82 2 732 8899

**Italy/Switzerland:**  
Arch. Aldo Cacchioli  
Publistein di  
Galli-Cacchioli & Co.,  
Via Borghese 11  
CH-6600 Locarno  
Switzerland  
Tel: 41-91-7516910  
Fax: 41-91-7517109  
info@publistein.com

KENWOOD

# The Next Generation

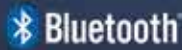
The NX-5000, with multi-digital capability in both P25 Phase I&II and NXDN™ 6.25 kHz, as well as FM analog operations, assures a seamless migration to digital on your schedule.



## NX-5000 Series



**NXDN™**



Bluetooth®



GPS FleetSync®



View NX-5000 Video



**NEXEDGE®**

NEXEDGE.KENWOOD.com

JVCKENWOOD Singapore Pte. Ltd.

1 Ang Mo Kio Street 63, Singapore 569110 Tel: (65) 6496 4500 Fax: (65) 6496 4501/509  
Email: [comsales@sg.jvckenwood.com](mailto:comsales@sg.jvckenwood.com) Website: <http://www.kenwood.com/sg/com/>

# Calendar Of Events



## Global Security Asia 2015

Date: 3 – 5 March 2015  
Venue: SUNTEC Singapore  
Contact: Joseph Yeow Kuen, Ong  
Organiser: GSA Exhibitions Private Limited (GSAL)  
Tel: +65 6392 5328  
Email: yeowkuen@globalsecasia.com  
Website: www.globalsecasia.com

## Interpol World 2015

Date: 14 – 15 April 2015  
Venue: Sands Expo & Convention Centre, Singapore  
Contact: Patricia Chong  
Organiser: INTERPOL  
Tel: +65 6393 0228  
Email: patriciachong@mpinetwork.com  
Website: www.interpol-world.com

## Cards & Payments Asia 2015

Date: 22 – 23 April 2015  
Venue: Suntec Convention and Exhibition Centre, Singapore  
Contact: Yee Lim Tan  
Organiser: Terrapinn Pte Ltd  
Tel: +65 6322 2701  
Email: yeelim.tan@terrapinn.com  
Website: www.terrapinn.com/exhibition/cards-asia/index.stm

## Secutech 2015

Date: 28 – 30 April 2015  
Venue: Taipei Nangang Exhibition Center  
Contact: Echo Lin  
Organiser: Messe Frankfurt New Era Business Media Ltd.  
Tel: +886 2 2659 9080 ext. 761  
Email: echo.lin@newera.messefrankfurt.com  
Website: www.secutech.com

## 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.safetysecurityasia.com.sg



**SINGAPORE SPORTS HUB\***  
Delta DSC2000 Barricades



**UK EMBASSY, BUDAPEST**  
Delta DSC1100 Barricade



**BERTH LIMA-SAN DIEGO**  
Delta TT280 Linear Crash Gate



**NAVY YOKASUKA, JAPAN**  
TT207S Barriers



**PORT, JAPAN**  
DSC501 Barricade



**U.S. FEDERAL COURTHOUSE-  
LOS ANGELES**  
Delta Fixed Bollards



**SINGAPORE PARLIAMENT**  
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



**UNIVERSAL STUDIOS**  
Delta Booth



**G20 SUMMIT-  
PITTSBURGH, PA**  
Delta MP5000 Mobile System



**BUCKINGHAM PALACE**  
Delta DSC720 Bollards

# 40 Years Protecting the World's Most Important Facilities

*17,000 Systems Deployed  
Around the World!*

From stopping a bomb-laden car and SUV from penetrating the entrances to the U.S. consulate in Herat, Afghanistan in September of 2013 to protecting dams, border crossings, courthouses, embassies, presidential libraries and many other important facilities, Delta's bollards, barricades, beams, barriers, gates and guard booths have helped keep people and property safe in over 130 countries throughout the world since 1974.



Go to [www.deltascientific.com](http://www.deltascientific.com) for full details & specifications.

40355 Delta Lane, Palmdale, CA 93551 ▲ 1-661-575-1100 ▲ [info@deltascientific.com](mailto:info@deltascientific.com)

\*Photo courtesy of VSL Infrastructure Protection, Installer



# Editor's Note

Dear Readers,

Welcome to 2015's March/April Issue! I hope the year has been treating you well so far!

This issue gives you an in-depth glimpse into the realm of Manufacturing & Industrial Security.

In this day and age, one of the greatest IT security and risk management challenges faced by manufacturing enterprises is maintaining a secure IT system and protecting the privacy of customer information. In this issue we explore ways that manufacturers can address these challenges to ensure that company information and communications remain confidential and secure.

To start off, we have a brilliant article on Cyber Threats in manufacturing environments by Nina Vajda from Rockwell Automation as our Cover Story. As you flip through this issue, you will also find a diverse range of articles as well as products from companies all over the globe.

2015 is going to be an exciting year in the Security industry with a line-up of large-scale exhibitions coming up in the next few months. Be sure to check out our coverage of some of these amazing exhibitions such as Interpol World 2015 and Secutech Taipei 2015, to name a few!

I've had a great time putting this issue together and I hope you enjoy this issue as well... Happy reading!

Sharon Kaur  
Editor



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

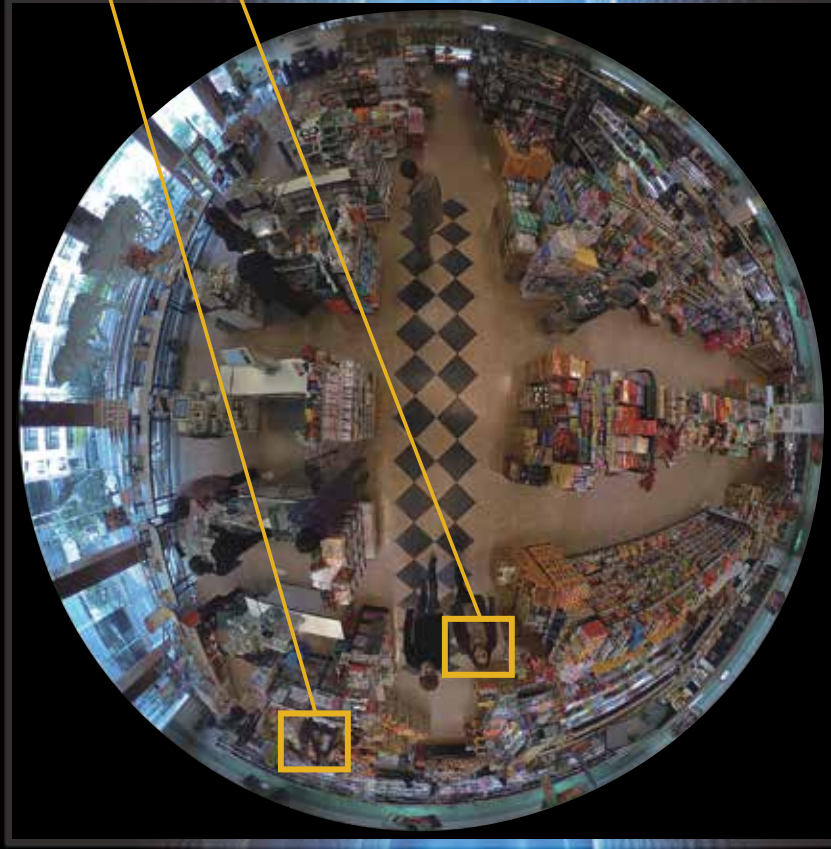
**i-PRO**  
SmartHD

ULTRA **360**

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



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



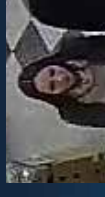
\*Sample screen from 9M Fisheye mode

● **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-SF438



● **Complete with powerful intelligent functions**

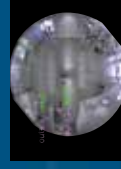
**Heat-map**

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**

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)

**02 Ultra High Sensitivity**

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.

**03 Ultra Intelligent**

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.

Panasonic Systems Asia Pacific 2 Jalan Kilang Barat, 7th Floor Panasonic Building, Singapore 159346  
Tel: +65 6270 0110 Fax: +65 6276 0330 E-mail: biz.prod@sg.panasonic.com

<http://security.panasonic.com>



<http://www.facebook.com/PanasonicNetworkCamera>

## New Silesian Museum, Poland Secured By The Powerful CEM AC2000 Security Management System

**C**EM Systems, part of the Security Products business unit of Tyco, recently announced that they have secured the new Silesian Museum in Katowice, Southern Poland. The AC2000 access control and security management system was delivered by CEM Approved Reseller Samaxon, and installed by IB Systems and Budimex.

The stunning new Silesian Museum houses 109,000 items from different fields of art, as well as archaeological, ethnographic and historical artefacts. The new museum building, opening mid 2015, has all of the Museum's exhibition space buried underground with only glass tower skylight extensions visible above.

"As an organization with a large number of important works of art and other artefacts of historical importance, security is obviously of paramount importance for The Silesian Museum. CEM AC2000 access control system was chosen because of its proven security and reliability in addition to its flexibility to integrate to third party security systems" said Philip Verner, EMEA sales director, CEM Systems. "Integration is an important part of the Museums' overall security strategy, requiring their existing intruder and CCTV security systems to work seamlessly with the access control system."



CEM Systems worked together with Samaxon to develop a software interface between CEM AC2000 and Avigilon video management system and used the AC2000 Galaxy Dimension Interface to integrate with the Honeywell Galaxy intrusion detection system.

The AC2000 Galaxy interface enables inputs from intruder panels to be placed as icons on the AC2000 AED (Alarm Event Display) application allowing for central alarm monitoring of both access control and intruder alarms. AC2000 AED provides the Museum with a powerful security management tool and provides a central command and control user interface for the access control, video and intruder systems. AC2000 AED also provides the Silesian Museum with dynamic, real-time information on all alarms and events that occur on the AC2000 system.

AC2000 comes with a range of comprehensive software applications that can enable the Silesian Museum to enhance business operations. The Museum will utilize AC2000 VIPPS (Visual Imaging Pass Production) and AC2000 Visitors. AC2000 VIPPS gives museum security personnel the ability to design and customize ID badges and AC2000 Visitors enables staff to monitor and control visitor access to the prestigious building. Visitors can be given access levels and/ or traced, allowing visitor movements to be monitored and controlled. Visitor cards can then be reused when returned, saving on visitor card costs.

The Silesian Museum has also installed CEM S610f integrated fingerprint card readers at high security doors throughout the building. This additional layer of biometric security allows for triple authentication — card, PIN and fingerprint — for highly restricted areas that require extra security. **ESST**

# MicroEngine®

Integrated Security Systems

## The Trusted Brand in Security Solutions

### Plato DesFire Reader



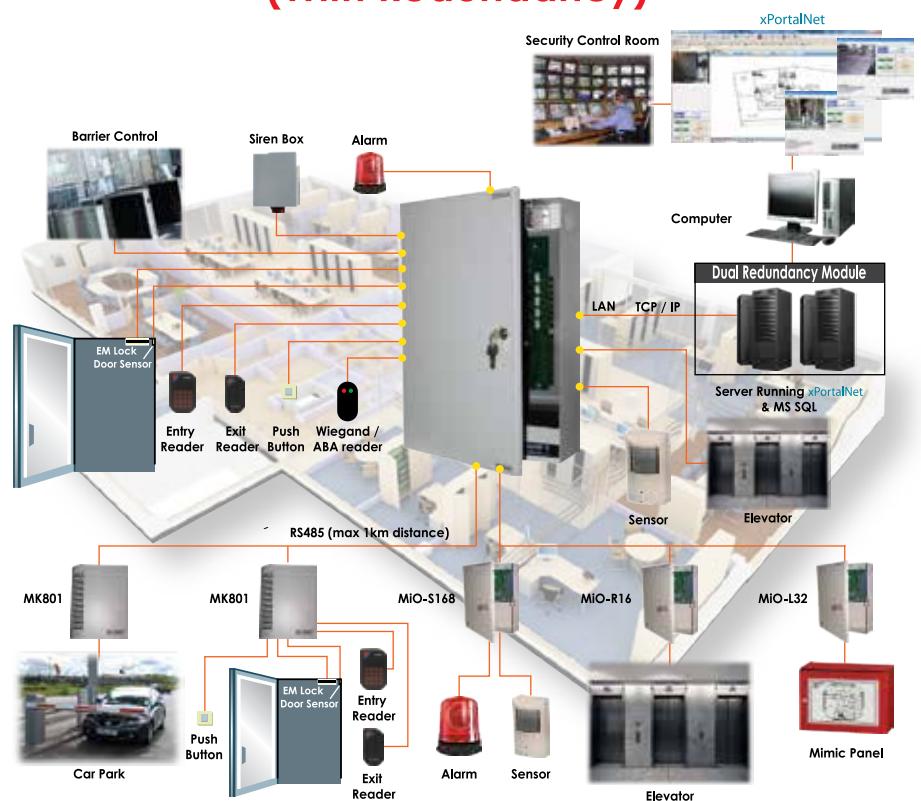
- ▶ 64 Bit Programmable Card ID
- ▶ Encrypted with 3DES
- ▶ Card ID Not by Serial Number

### P1000i PoE Controller



- ▶ PoE+ with Battery Charger
- ▶ AES128 Encrypted IP
- ▶ Support 1 Door/2 Readers

### Integrated Security System (With Redundancy)



### Projects



Commercial / Complex



Factory



Condominium

We have a strong track record in delivering projects even though the system requirement was changed

- ▶ PoE Controller
- ▶ CCTV Integration with Selected International Brand
- ▶ OPC Integration Module
- ▶ DesFire Reader

600+ readers ward access & security system on SQL Server for hospital and many more ...

1300-88-3925 or [enquiry@microengine.net](mailto:enquiry@microengine.net)

[www.microengine.net](http://www.microengine.net)



Our Office



Service Centre



REG No. 749921389

## Delta Scientific Holding Southern California Vehicle Access Equipment Demonstrations

**D**elta Scientific, a leading manufacturer of counter-terrorist vehicle control systems used in the United States and internationally, recently announced that government officials and security professionals can see demonstrations of Delta's wide line of anti-terrorism vehicle barriers, bollards, crash-rated gates and other equipment, including new products on March 5 from nine a.m. to four p.m. at Delta headquarters at 40355 Delta Lane in Palmdale. Maintenance training will also be available on-site during the Delta Trade Show Event.

"Last June, over 150 government officials, security professionals, integrators and contractors came together at our Fredericksburg, Va. office for our inaugural Delta Equipment Demonstration and visited an average of three to four hours apiece," related Keith Bobrosky, Delta Scientific sales manager. "Attendees asked that we do this event twice a year, the next time on the West Coast.

In the United States alone, Delta Scientific secures over 110 Federal buildings, including courthouses and FBI locations. Delta also provides vehicle access control for over 160 U.S. embassies and consulates in 130-plus countries as well as those of the United Kingdom and other nations. Recently, a gunman started shooting up the federal courthouse, the Mexican consulate and the Austin (Texas) Police Department headquarters. In the middle of the melee was standing a Delta bulletproof guard booth. During the shooting, nobody was injured but the gunman, who was killed. New products will also be on display such as the green-friendly new HD300 barrier, available with either a fully electric or hydraulic control unit, that 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. The maximum penetration recorded was an outstanding -1.8 m on the passenger's side. The P1 penetration rating was given because the penetration beyond the protected side of the barrier was less than 1.0 m at the lower leading edge of the test vehicle's cargo bed.

"We've already received commitments from general contractors, security integrators and government decision makers so great networking opportunities will be available," added Bobrosky.

To attend the March 5, 2015 Delta Winter Trade Show Equipment Demonstration, security administrators and officials should RSVP Delta Scientific at 661-575-1100 or contact their Delta Scientific representative. Admission is free and Western-style BBQ will be served.

For more information, please visit [www.deltascientific.com](http://www.deltascientific.com) **SST**

## Mirasys Releases New Android Application "Spotter Mobile 7"

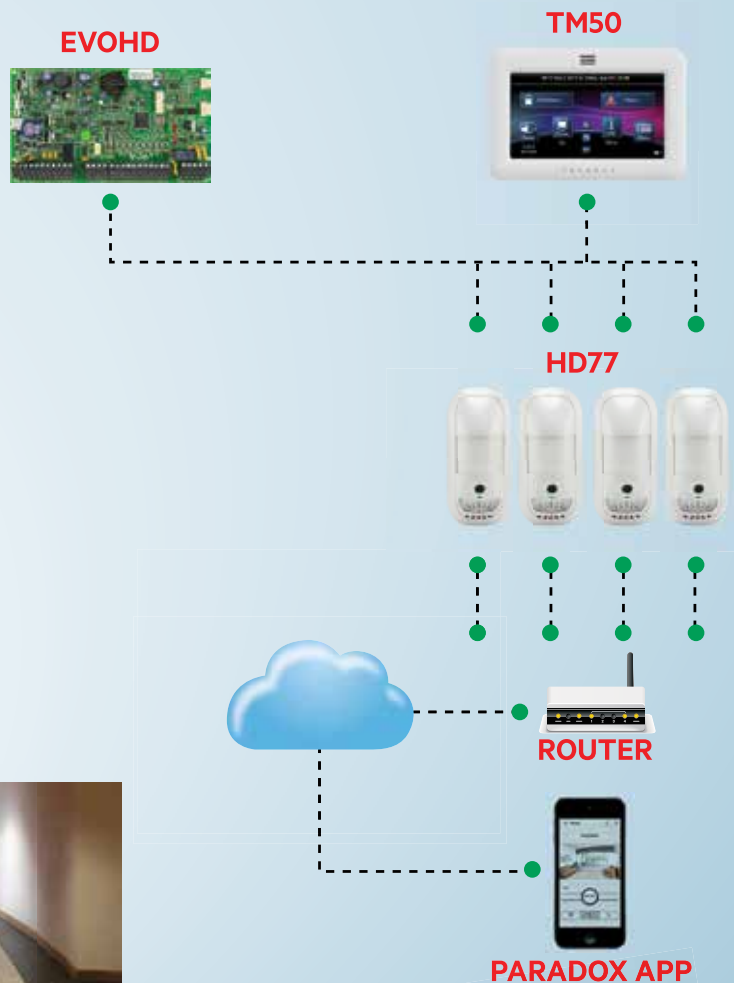
**M**irasys Ltd., one of the leading suppliers of open platform Video Management and Visual Intelligence Solutions, recently launched its new Android application "Spotter mobile 7". Powerful Spotter Mobile 7 brings true mobility and efficiency to video surveillance. It allows remote access to video surveillance footage via various mobile devices – such as phones and tablets. Mobility and remote surveillance are ever more important. Mobile video surveillance might be done in very challenging situations, hence, extreme ease and speed of use was our theme when developing the new Spotter Mobile 7. You can get a grid of four cameras visible when a tablet device is used in a landscape mode. When you navigate the device tree, cameras are automatically opened. Swiping gestures can be used to switch between camera grids and also with individual cameras to get to full screen mode. Mirasys Spotter Mobile 7 shall coexist with the previous version of other Spotter Mobile applications. The new Spotter Mobile 7 will only work with Mirasys VMS version 7.0 or higher.

For more information, please visit: [www.mirasys.com](http://www.mirasys.com) **SST**

## Real-time insight into your home or business

The first and only integrated solution of its kind to offer HD video and audio monitoring with superior security capabilities, allowing you to see and hear events and to protect your home or business anytime, anywhere, directly from your smartphone. In case of a security breach, **Paradox Insight<sup>™</sup>** provides HD videos with high-quality audio of events for visual verification and reporting.

- HD video and audio camera (720p)
- Unlimited viewing / recording of live HD video and audio streaming anytime, anywhere
- Instant video and audio notification with 10FPS JPGs for alarm verification
- Free SDK enables CMS automation software to receive both video and alarm for efficient event reporting
- User privacy protection - set of permissions limit non-master users and CMS system access
- Secure multiple locations via one app
- Self-monitoring application allows immediate access to secure locations from anywhere



## Genetec Named One Of The Top Employers In Montréal For Ninth Consecutive Year

**G**enetec™, a leading provider of unified IP security solutions, has been named as one of top employers in Montréal by the editors of Mediaworld Canada Inc., for the ninth consecutive year. Because of a forward-thinking employee program at Genetec, the Top Employer award was given based on the company's flexible hours, generous vacation and time-off, comprehensive group insurance coverage, retirement savings plan, employee referral program, on-site gym, health and wellness workshops, and a popular gourmet bistro. Consistently voted as one of Montréal's best places to work, Genetec was also praised for cultivating next-generation talent through a comprehensive internship program, with many interns returning to become full time employees after graduation.



which is essential to the growth and future of our business," added Couture.

Now entering its tenth year, Montréal's Top Employers is an annual competition organized by the editors of Canada's Top 100 Employers. This special designation recognizes the Montréal-area employers that lead their industries in offering exceptional places to work.

Employers are evaluated on criteria including: physical workspace, work atmosphere and social, health, financial and family benefits, vacation and time off, employee communications, performance management, training and skills development and community involvement. Employers are compared to other organizations in their field to determine which offers the most progressive and forward-thinking programs.

It is an honour to be recognized once again as one of Montréal's top employers for the ninth year in a row", said Joelle Couture, manager of Engagement and Employee Relations Genetec. "We constantly examine and add programs and benefits to continually offer an exceptional work environment that fosters a strong culture of innovation

Genetec has offices around the world, with its worldwide headquarters located in the Montréal Technoparc. Genetec is currently conducting a recruitment campaign to add skilled and motivated employees to its team.

For more information, please visit: [www.genetec.com](http://www.genetec.com) **SST**

---

## Boon Edam Launches Innovative New Revolving Door

**B**oon Edam Inc. recently announced the launch of BoonAssist TQ, a new manual revolving door that provides an ease of use previously not available in manual revolving doors. BoonAssist TQ offers the unique combination of three features: "push and go" power assistance, speed control, and positioning, also known in the industry as quarterpointing.

The new door was developed in response to customers asking for a revolving door that offers comfort, intuitive operation and safety, where an automatic revolving door was either too large or exceeded budget. BoonAssist TQ is also designed to serve a wider variety of applications owing to its increased available sizes, up to 10' diameter and 10' ceiling height, which provide a roomy compartment and increased user comfort.

"The potential is unlimited in terms of the types of buildings and vertical markets that can benefit from this door," said Greg Schreiber, Boon Edam vice president of Sales. "The power assist feature allows it to be bigger, up to 10 feet in diameter. This means office buildings, smaller hotel chains, specialty retail stores, restaurants and even the larger convenience stores can offer greater passage comfort and use every single square foot of their valuable space because this door keeps the outside drafts out. We're calling BoonAssist TQ 'the new standard' because we believe soon everyone will expect these features—they're not going to settle for less."

For more information, please visit [www.boonedam.com](http://www.boonedam.com) **SST**



SIEMENS

# Siveillance Vantage secures your critical infrastructure

Integrated security management with reliable and coordinated  
response for emergency and routine procedures

Any disruption of business, whether it is accidental or a deliberate attempt to cause damage or theft, costs industries billions of dollars, not to mention the potential cost to human lives or the environment. Siveillance™ Vantage delivers a solution to these threats by offering precisely the kind of real-time support functions and the information

needed to react effectively to security and safety incidents. The innovative command and control solution Siveillance Vantage can integrate a broad variety of subsystems and can be customized according to your organizational setup. The result: achieving the desired level of security and providing peace of mind at any time.

[www.siemens.com/siveillance-vantage](http://www.siemens.com/siveillance-vantage)

## 3xlogic Continues To Expand Sales Network

**3**xLOGIC, Inc., a leading provider of integrated intelligent security solutions, just announced Tim Bell is the latest addition to the company's growing sales team. Tim brings over 20 years of sales management experience in the Physical and IT security industries. He has spent the last 10 years managing territory start-up sales in the video analytics and video surveillance markets. He comes to 3xLogic after spending time successfully launching video analytics sales strategies with VideolQ and ioimage as well as successfully launching L3 Communications' federal product, Praetorian Video Management System, into the commercial market. Tim has accomplished sales experience in the security market as well a successful track record working with specialized Regional System Integrators, the National Dealer Channel and Manufacturer Representative firms. Tim is currently responsible for managing sales activities in the Western U.S.



"3xLOGIC experienced explosive growth in 2014, and we are poised to dwarf those numbers yet again in 2015," said Christie Walters-Hebert, vp sales and marketing for 3xLOGIC. "The addition of PacNor and Somerville and Associates late last year filled out our Manufacturer's Rep force on the west coast and Tim is the right individual to lead that team. I'm excited to welcome him to 3xLOGIC. His experience and skill set are exactly what this team needs and he will have an immediate impact on our business."

For more information, please visit: [www.3xlogic.com](http://www.3xlogic.com) **SST**

## Zwipe Introduces Genuine HID Technology™ Biometric Cards For iCLASS® And ProxCard® Readers

**Z**wipe, a global leader in biometric authentication technology, recently announced that HID Global's iCLASS® and 125kHz ProxCard® users can now easily integrate the Zwipe Access biometric card, eliminating the need to add biometric readers to an existing HID Global® iClass® or Prox-based system. "As the largest smart and proximity card provider in the world, HID Global has thousands of users who would like to upgrade to biometric authorization, but may not have the budget or the resources to invest in biometric readers," added Robert Fee, director of sales, Americas, Zwipe. "The Zwipe biometric card provides an easy, affordable option for security professionals to extend the use of their present card systems by adding biometrics for multi-factor, card-based authentication."

By providing authorized users with Zwipe Access biometric cards that interoperate with their existing iCLASS and 125 kHz ProxCard readers, these organizations can now benefit from the leading edge biometric authorization technology by simply incorporating the card into their existing systems in the same way they already incorporate proximity or HID Global smart cards. The Zwipe solution enables customers to extend the life of their existing infrastructure while simultaneously increasing its security.

With Zwipe's patented on-card authentication technology, only the authorized cardholder can activate card communication with the reader. This means no more lending or borrowing of ID badges to access buildings, university labs, hospital pharmacies, data centers or networks. By upgrading the authentication from something they carry (a card) to something they are (a fingerprint), the issues associated with a lost or stolen credential are dramatically reduced.

The problems associated with PINs and passwords are eliminated through the use of Zwipe's biometric authentication technology. The on-card fingerprint scanner with 3D capacitive technology resides on the contactless smart card that utilizes an embedded HID Global 13.56MHz iCLASS or 125kHz Proximity transponder. The Zwipe biometric card is also compatible with MIFARE Classic™ and DESFIRE™ EV1. By incorporating Zwipe's biometric solution to access control, organizations can increase the security of their systems, their employees and their assets by changing the authentication from something you carry to something you are without any modification to their existing infrastructure.

For more information, please visit: [www.zwipe.com](http://www.zwipe.com) **SST**

# Security.

At the Center of Your Business.

Genetec Security Center is the leading enterprise-class security platform deployed by some of the world's most demanding organizations, governments and cities.

From video surveillance and license plate recognition to access control and intrusion detection, Security Center unifies the security systems that are critical to your operations, so you can see the big picture and make better security decisions – both today, and tomorrow.

**Start Here. At Your Security Center.**

Learn more at  
[genetec.com/mysecuritycenter](http://genetec.com/mysecuritycenter)



Video Surveillance | Access Control | Automatic License Plate Recognition

© 2015 Genetec. All rights reserved. Genetec, and the Genetec logo are either registered trademarks or trademarks of Genetec. All other trademarks contained herein are the property of their respective owners.

[genetec.com](http://genetec.com)

**Genetec**  
Innovative Solutions

## Dahua Signs Strategic Agreement With Exar To License HDCVI Technology

**D**ahua Technology, a world-leading manufacturer and supplier of video surveillance products headquartered in Hangzhou, China recently announced that they have signed a strategic agreement with Exar to license High Definition Composite Video Interface (HDCVI) technology. Under the terms of the new agreement, Exar is licensed to design, manufacture and sell high-definition analog video solutions utilizing HDCVI technology.

As the HDCVI technology inventor and patent owner, Dahua has made it a global open standard, providing open access for any third party, including competing manufacturers, to use HDCVI. Partnering with the HDcctv Alliance allows manufacturers to better collaborate on implementation of HDCVI 2.0 technology – carving the path for wider and quicker market acceptance.

Zhu Jiangming, executive vice president at Dahua Technology, pointed out that since HDCVI is now a global standard instead of being merely one of various HD analogue solutions in the industry, Dahua is even more confident about CVI's prospect. Partnering with Exar is another good example to show their open mindedness and strong determination.

Louis DiNardo, president and CEO of Exar Corporation, commented, "by upgrading analog cameras and video recorders to HDCVI at sites where coax has already been pulled, customers can now enjoy all the benefits of a high-definition video with a very modest investment. HDCVI technology enables transmission of HD video at distances over 500 meters on standard coaxial cable."

Exar joins Dahua to champion HDCVI technology in establishing the industry standard for HD analog video surveillance. Both companies are members of the HDcctv Alliance which promotes adoption of and adherence to the HDCVI standard. Exar HDCVI products are fully compliant with the HDCVI 2.0 standard, ensuring performance specifications and interoperability with other products that adhere to the HDCVI standard. Exar's first HDCVI product, a 1080P camera module, will be demonstrated this month.

Todd Rockoff, HDcctv Alliance executive director, said: "Specialized HD local-site transport solutions have made HD surveillance as reliable, as convenient, and as affordable as sub-HD surveillance. This license agreement between Dahua and Exar opens a new chapter for analogue HD transport: Equipment makers will soon have a choice of suppliers for HDCVI 2.0-ready components. Exar's and Dahua's mutual commitment to the HDCVI standards creates value for end users: It drives multi-vendor Plug 'n' Play while simultaneously creating efficiencies for both equipment manufacturers and their customers.

For more information, please visit: <http://www.dahuasecurity.com> **SST**



# PACIFIC-TEC SCIENTIFIC PTE LTD

## YOUR AWARD-WINNING SCIENTIFIC AND RADIATION PARTNER



### OUR PRODUCTS

- ▶ Radiation Detection Instruments
- ▶ Homeland Security Equipment
- ▶ Search Instruments and Isotope Identifiers
- ▶ Radiation Area and Gate Monitors
- ▶ Spectrometers for Alpha-Beta-Gamma-Neutron Radiation
- ▶ Lead Shielding and Protective clothing
- ▶ NDT Equipment - XRF and Industrial NDT sources



### OUR SERVICES

- ▶ Radiation Awareness & Safety Training
- ▶ Radiation Testing
- ▶ Thermo Niton XRF Training & Testing
- ▶ NDT Testing
- ▶ Repair & Calibration
- ▶ Seminars / Workshops / Industrial Talks
- ▶ Consultancy / Laboratory Setup



Radiation Detection Instruments

NDT Testing Equipment

Radiation Testing

NDT Testing

Radiation Safety and NDT Training



## OUR RADIATION DETECTION PRODUCTS

Alarm . Detection . Location . Measurement . Identification  
End to End Solutions to Ensure Nuclear Protection and Radiation Safety



Spectroscopic Personal Radiation Detector



Multifunctional Radiation Monitor



Contraband Detector



Isotope Identifier



Chemical Agent Detector



ARDMS



Gamma Neutron Spectroscopic Detector



Gate Monitor



Portal Monitor



Metal & Radiation Detector



Gamma Detector for iPhone / Android



Vehicle Monitor



Gamma-X Ray Survey Meter



Alpha/Beta/Gamma-X Ray Survey Meter



Explosion-Proof Dosimeter



Wrist watch Dosimeter



Gamma-X Ray Dosimeter



Vehicle ARDMS



THE RADIATION INDUSTRY STANDARD

**Pacific-Tec Scientific Pte Ltd**

33 Ubi Avenue 3 #06-48 Vertex - Singapore 408868

Tel: 65 6342 1530 - Fax: 65 6342 1531 - Email :sales@pacific-tec.sg

## AG Neovo Displays Serve Taiwan's Kaohsiung International Airport

**A**G Neovo has played a crucial role in keeping many public transport systems around the globe run smoothly and safely. The latest addition to its clientele in this sector is Kaohsiung International Airport, the second-largest international airport in Taiwan.

As Taiwan's national gateway in the southern part of the country, Kaohsiung International Airport knows it must keep up an equally deserving image. To this end, it has ushered in premium LCD displays from AG Neovo to construct video walls for flight information, doing away with increasingly out-dated rear projection displays.

A total of 42 units of AG Neovo's PN-46D are installed to form four video walls at the airport. Intended to display arrival and departure schedules and other flight information, two four-by-three video walls are placed at the information desks of two leading airlines; two of a three-by-three configuration are placed at the departure hall.

The PN-46D has been chosen for good reason. To serve public settings like airports, displays need to be of premium quality and be trusted to keep the incidence of malfunction to a minimum. Displays meant for such applications invariably stay on duty for long periods of time, and glitches are the last thing operators want to cope with too frequently. What's more, even a single display going out of order easily stands out on a video wall.

Crafted precisely for 24/7 operations, the PN-46D is built with a 10-bit premium-grade MVA panel and other rigorously selected components. Further bolstering its nonstop operability are metal casing and AG Neovo's proprietary Anti-Burn-in™ technology that helps prevent burnt-in images.



The PN-46D is designed not only to last long but also to look good. A virtually non-existent bezel-to-bezel width, or rather narrowness, makes it an ideal video wall component. Moreover, the LED-backlit display comes with a 450 nits brightness that suffices to accord it an exceptional competence in creating airport bulletin boards and serving other indoor purposes.

"The PN-46D proves a totally fitting choice to give Kaohsiung International Airport a modern and professional look," says Allan Hsu, sales manager of AG Neovo Taiwan. "The super narrow bezel display promises to do the same—configuring neat and competent video walls—in other public transport hubs, control rooms, shopping malls, and the like."

For more information, please visit: [tw.agneovo.com](http://tw.agneovo.com) **SST**

---

## New Artesyn Embedded Technologies 10 W dc-dc Converters Feature Medical Safety Approvals

**A**rtesyn Embedded Technologies today announced the AEE10W-M series, new 10 watt dc-dc converters that provide OEMs with an economical solution for demanding applications in industrial and medical instrumentation requiring a certified supplementary or reinforced insulation system to comply with industrial or medical safety standards. Encapsulated in a compact 2x1 inch industry-standard package, the AEE10W-M series offers up to 92 percent efficiency and covers a wide input voltage range from 9 to 75 Vdc with three 2:1 input voltage ratings (9 to 18 V, 18 to 36 V and 36 to 75 V). The series has fully regulated single or dual output voltage models.



For more information, please visit: [www.artesyn.com](http://www.artesyn.com) **SST**

## VIVOTEK, At The Forefront Of IP Technology Development, Unveils The World's First L2 Poe Gigabit Switch With Unique IP Surveillance Management Functions

**V**IVOTEK recently announced the launch of its AW-GEV-264A series, the world's first L2 PoE Gigabit switches with IP surveillance management functions. The AW-GEV-264A series, referred to as the VivoCam PoE switch, is

a 24-port managed L2 PoE Gigabit switch. In addition to comprehensive features of a L2 PoE Gigabit switch, the AW-GEV-264A is easy to manage, configure, and monitor VIVOTEK IP cameras, video servers, NVRs and central management software.



Tim Su, director, Marketing Division, VIVOTEK, stated, "As a total solution provider, VIVOTEK has accumulated profound expertise in surveillance system implementation and provided the market with our comprehensive product offerings. Based on innovative spirit and design talent, VIVOTEK adds several unique and exclusive features to the existing capabilities of the L2 Protocol and creates the VivoCam PoE switch product line, allowing users to discover all VIVOTEK devices and deploy a surveillance network topology automatically. Today, we are pleased to be the first in the market to launch PoE switches with IP surveillance management functions, reaffirming VIVOTEK's leading position in the industry. In order to make the surveillance system management easier and more intuitive for users, we will keep bolstering our VivoCam PoE switch product line in the future."

The AW-GEV-264A series is comprised of the AW-GEV-264A-185 and AW-GEV-264A-370, which support a 185-Watt power supply and 370 Watt power supply respectively. The AW-GEV-264A series adopts a unique graphic management approach, enabling users to view the entire surveillance system structure and device conditions by either topology or floor plan. Moreover, users can also map their outdoor surveillance application via Google map. In addition to this unique graphic management, the AW-GEV-264A series offers troubleshooting and traffic monitoring functions, helping the user to clarify connection problems or device issues. The backup function for the IP camera configuration files is another important design, facilitating the batch reboot and restoration of camera devices. With all of these features and more, the AW-GEV-264A series is the best PoE solution for managing VIVOTEK cluster network surveillance devices.

In order to enhance efficiency of surveillance system implementation and create a more robust system for global clients, VIVOTEK has started offering comprehensive Power-over-Ethernet (PoE) solutions from commercial to industrial applications. The commercial series includes a wide range of managed PoE switches, unmanaged PoE switches, PoE extenders, and PoE injectors while the industrial series includes industrial PoE switches and industrial media converters.

For more information, please visit VIVOTEK website: [www.vivotek.com](http://www.vivotek.com) **SST**

# CYBER THREATS: Hiding In Wait, And Targeting Your Most Valuable Assets

By Nina Vajda, Global Industrial Cybersecurity,  
Rockwell Automation on behalf of Industrial IP Advantage



It's an easy, if not familiar, scene to imagine: An employee sitting at his or her computer receives an email message from the corporate CISO advising the release of a critical security patch and mandatory action for all employees to immediately install it by clicking the provided link.

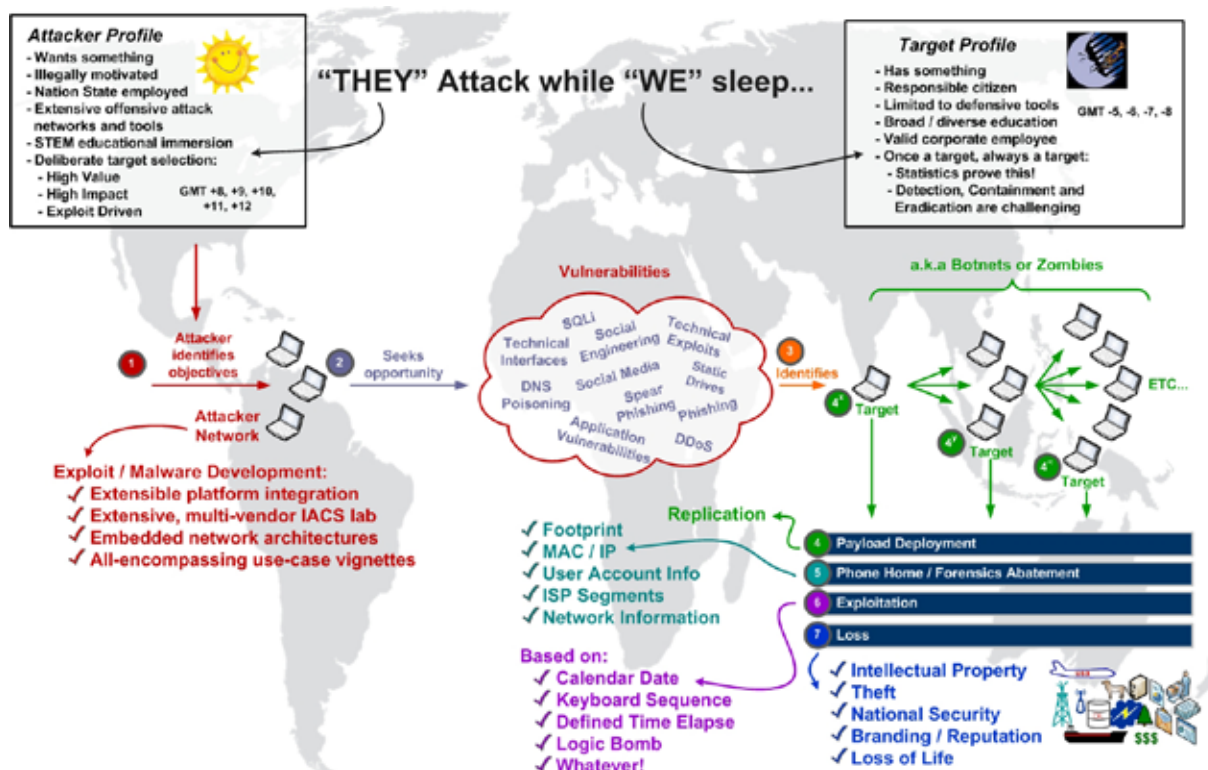
Cyber attackers bet with the odds. In a corporation of possibly thousands of employees, it only takes one well-intentioned employee to click a seemingly legitimate link to initiate a cyber-attack. Unfortunately, that is just the beginning, and the end is now beholden to malicious, executable code replicating inside corporate network boundaries, defeating investments in expensive security assets such as firewalls, intrusion detection and prevention systems and vulnerability management software.

By definition, zero-day attacks are not discoverable until after exploitation and resulting losses are measurable. Subject to the attacker's motives, loss may be quantified in units of:

- loss of life;
- currency theft;
- damage to reputation or brand;
- achievement of intellectual property advantage; or
- impairment to critical infrastructure assets.

Incident response to zero-day attacks is marginal and complicated because of malware's "cloak and dagger" design features, specifically architected to defeat forensics capabilities and manipulate trusted consumer, electronic enterprises such as banking, social media and ecommerce web sites established for legitimate purposes.

Here's how it works: After the attacker determines his or her objective(s), zero-day malware is deployed by taking advantage of a vulnerability in the target network and, most often further enabled as a result of a user's lack of understanding and awareness of the indicators of a tampered email message or file. Malware code is sophisticated: Upon successful implementation, the compromised asset becomes a botnet or zombie machine and searches for other at risk devices on the network and replicates the malware code to those assets. Further exploiting the effectiveness of malware's impact, network characteristics are then transmitted back to the attacker.



Such cyber-attacks are part of a larger and thriving multibillion-dollar global business. Tens of thousands of new malware (“malicious software”) variations are developed and proliferated each day by a range of parties, including independent opportunists, politically motivated organizations, distraught employees, government-sponsored entities and terrorist organizations.

Malware’s impact capacity is further exacerbated by sophisticated and complex network architectures enabling anonymous access to hidden services through covert channels. Developed decades ago to support legitimate law enforcement and Department of Defense objectives, Anonymity as a Service (“AaaS”) networks and tools are open access to all users of Internet-facing computers and employ layered encryption shields around data in transit to conceal critical forensics identification elements associated with data source addressing and user identification.

Unfortunately, “AaaS” networks have also been credited for enabling some of the most expensive and destructive cyber-attacks to the critical manufacturing, infrastructure and defence industries, effectively marginalizing entitlements to due process and maximizing efforts to enable future attacks.

## Protecting Manufacturing Assets

The threat that cyber attacks pose to manufacturers can be seen, literally, in the plethora of counterfeit products that flood the global marketplace every year, from popular automobiles to highly sophisticated military equipment. Manufacturing companies must accept that all products

and intellectual property are targets in the eyes of cyber criminals.

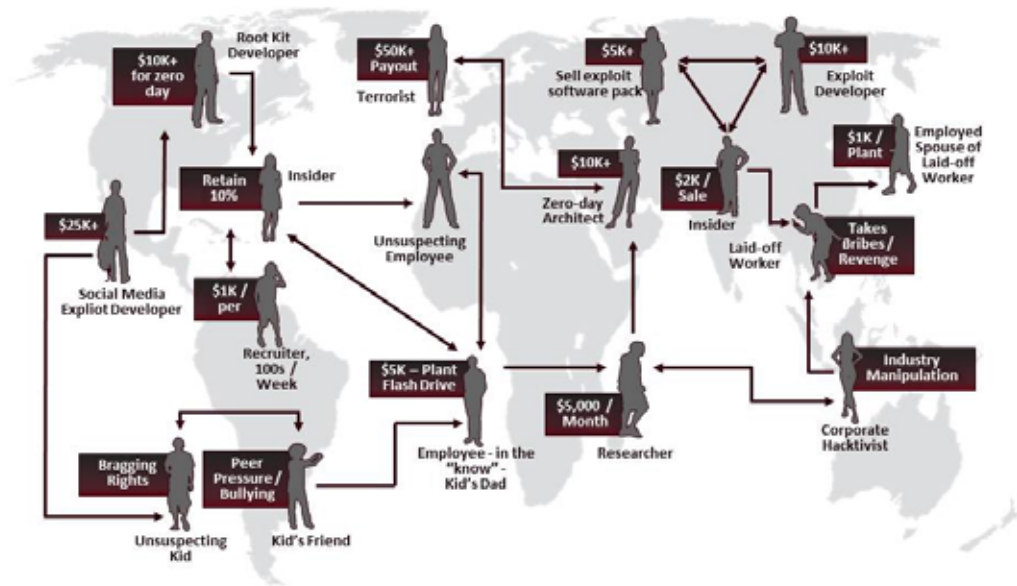
Every manufacturer’s products and the process by which they are developed are unique and require significant investments in manufacturing equipment and industrial automation controls to be competitive and profitable in the marketplace, and evaluation of the unique characteristics of each shop floor asset reveal the threat, vulnerability, risk profiles each manufacturer must address to protect investments and intellectual property.

## Industrial IP to the Rescue

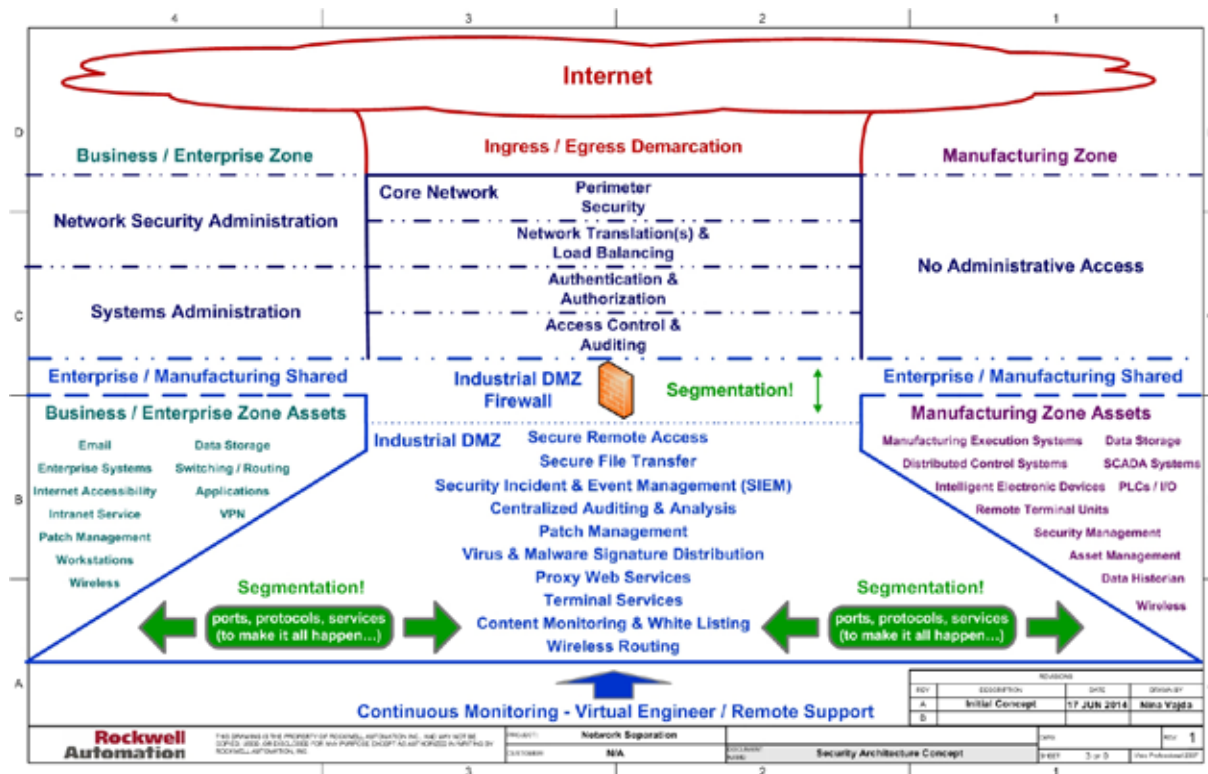
Manufacturers and other companies previously attempted to take on cyber threats themselves, independently developing and implementing proprietary solutions to protect their assets and respond to threats.

However, the massive growth of these threats combined with the evolution of technically complex malware has demanded a change in strategy. Manufacturers cannot rely on “security through obscurity” while maintaining production requirements. Instead, they increasingly are turning to industry solutions that utilize open standards, tools and best practices such as:

- Segmentation:** This capability is at the heart of network security and should be utilized in every plant. Segmentation supports security and management efficiency by creating an industrial demilitarized zone (IDMZ), which divides the network into smaller segments, or sub networks. Through this process,



“AaaS” Global Network



security is built into layers of switches to control user access to specific and defined segments.

- Know Your Users:** Generally, “users” are defined as either people or operating system services having access to assets on a network. The larger the network, the more difficult it is to keep track of the unique access requirements needed by employees, vendors, OEM suppliers and contractors to effectively execute job tasks. Services are used by operating systems to authenticate and validate applications and are considered “users” because the same principles are employed by systems and network administrators to assign service privileges and access to resources. A common malware exploit manipulates switch and router access control lists to escalate service account privileges, permitting an attacker to use that service as an administrator user account to access critical manufacturing assets. Consistent and routine auditing of user and service accounts against documented policies and device specifications is one recommended activity to quickly identify an escalated user account system vulnerability.
- Evaluate the Supply Chain:** All manufacturers are reliant upon equipment and products from other vendors. And those vendors are subject to the same cyber-attacks as manufacturing companies. Perform due diligence when selecting vendors

and partners by requesting they disclose their own security policies and practices.

- Be Wary of “Situation Normal”:** “Normal” network operations are not necessarily indicative of a threat free environment. Today’s cyber threats are stealthy and are specifically designed to defeat electronic security defenses. Routinely check audit logs and registry date / time stamps for unexpected changes, which could help to identify nefarious activities.
- Assign Knowledgeable Resources:** Just as technology advancements are dynamic, so are malware variants. To keep pace with cyber threats requires continued science, technology, engineering and mathematics (STEM) knowledge infusion on the part of the technical staffing resources entrusted by corporations to protect manufacturing intellectual property. Investments in education are far less expensive than production outages and theft of the crown jewels.

Industrial IP enables manufacturers and their IT departments to take advantage of the vast amount of work being done by the cyber-security experts and industry. Their job, after all, is to stay one step ahead of the threats. And the threats are growing every day.

For more information, please visit: [www.industrial-ip.org](http://www.industrial-ip.org) **ESST**

# HID Global Shares Top Secure Identity Trends For 2015



By: Dr. Selva Selvaratnam,  
Senior Vice President and  
Chief Technology Officer  
with HID Global

**H**ID Global®, a worldwide leader in secure identity solutions, today issued its outlook on technology trends for 2015, as well as other anticipated developments across key vertical industries in the secure identity marketplace. The annual assessment is intended to help organizations understand and take advantage of the latest advances to improve security, convenience and the user experience.

“This past year laid the foundation for what we expect to be an exciting 2015 for our customers and partners as they continue to benefit from the flexibility, adaptability and new capabilities made possible with award-winning Seos® technology,” said Dr. Selva Selvaratnam, senior vice president and chief technology officer with HID Global. “Whether it’s moving campus IDs onto smartphones, or

centralizing all identity management for protecting doors, data and cloud-based applications, or securing electronic medical prescriptions and ATM transactions, we will see the transformation of our customers’ experience using secure identities during the coming year, and beyond.”

## Driving new capabilities across markets are a set of six key technology trends that Dr. Selvaratnam has identified, including:

- Increased innovation fuelled by interoperable technologies that enable partners to build new solutions (secure print authentication, EV charging station access, and more) that can be accessed with the same smart card or smartphone used to open doors.
- The adoption of new credential form factors.
- Additional ways to open doors and other entrance systems.
- Advances in how to manage identities.
- Using biometrics to help change security from a barrier to a guardrail.
- The growing popularity of interconnected devices and the Internet of Things (IoT), where Wi-Fi locks, RFID-enabled devices, online hotel locks, and mobile keys are all connected ways of interacting or capturing data for the benefit of companies or consumers.



**In addition, Dr. Selvaratnam highlighted a number of trends to watch across the following eight vertical market segments:**

- Banking and financial institutions:** Physical and logical security will continue to converge into unified solutions, against the backdrop of a mobile transformation in consumer banking, the U.S. move to EMV credit and debit cards, and the early phases of biometric authentication at the ATM.
- Hospitals and healthcare institutions:** The latest secure identity solutions will play a pivotal role in securing the facility, narcotic prescriptions and personal health information, and will also be used outside the hospital to verify “proof of presence” for home health service delivery.
- Education:** As the transition from magnetic stripe (magstripe) and proximity (prox) to high-frequency contactless smart cards continues, universities will also move campus IDs onto smartphones and other mobile devices using systems that can manage multiple ID numbers for multiple uses on multiple platforms.
- Federal government:** Government-wide upgrades to new, more secure access control technology will extend beyond the desktop to the door, using both cards and mobile phones, and rigorous secure issuance requirements will drive the growing need for certified and approved printers.
- Government ID:** Worldwide demand will grow for end-to-end, highly secure government-to-citizen ID solutions, along with small-footprint, industrial-strength printers that combine flexibility and security, reduce infrastructure investments, and maximize throughput.
- Transportation:** IP-based access control will grow in importance across the transportation segment, improving security by integrating a physical access control system (PACS) with other solutions on the same network. Meanwhile, biometric systems will offer an opportunity to increase security and profits in both commercial and personal transportation applications.
- Enterprise:** Organizations will increasingly need to improve security at the door, for their data, and in the cloud, and will move to converged solutions while simultaneously accelerating the move beyond passwords to strong authentication across numerous physical and logical access control applications.
- Retail:** The biggest focus will continue to be defending against threats such as those experienced by Target Corporation and other major retailers. Other growth areas include mobile IDs, the Internet of Things, integrated biometric authentication, brand protection solutions that validate the authenticity of goods, trusted “proof of presence” applications for digital out-of-home (DOOH) media campaigns, and instant issuance solutions for branded credit and loyalty cards.

For more information, visit [www.hidglobal.com](http://www.hidglobal.com) **SST**

# ACCESS CONTROL

Article courtesy of Evolis



## Access control market

Access control remains a major segment of the physical security market and is expected to enjoy continued growth. Access control badges are used in numerous sectors such as companies, education institutes, administrations, events, and healthcare to track access and identify people. Badges allow securing and prioritizing access to any place through visual identification associated with the data encoded in the magnetic strip or contactless chip of the badge.

As the first level of the access control, visual identification alone does not offer high level of security and still require hiring dedicated headcount to monitor and control access of visitors. On the other hand, cards equipped with contactless chip present the optimal solution and offer more security and peace of mind for companies.

Additional applications in the access control are developed to help enterprises better manage staff access and facilitate day-to-day operations. Tracking of employee time and attendance can be helpful in tightening security and it allows employers to identify instantly who is in the company premises and record all arrivals and departures at any time. Other applications include cards configured to limit staff access to specific company assets such as the access to photocopiers. Depending on intended usage, these access cards can also be encoded for use as electronic payment cards where employees are able to load the card with credits, thereby allowing them to use it like a debit card at vending machines to make purchases.

## Evolis expertise

As a leader in plastic card identification solutions, Evolis has developed expertise and recognition in the access control field. The card printers provide all options required to personalize cards and badges and use a wide range of technologies: visual identification with graphic personalization for high-definition and photo-quality printing of pictures, logos, texts and backgrounds. In addition, data encoding is available through barcodes, magnetic stripes, smart cards and RFID encoding on the cards.

Evolis provides customizable printing systems and turnkey solutions built according to the requirements of end user.

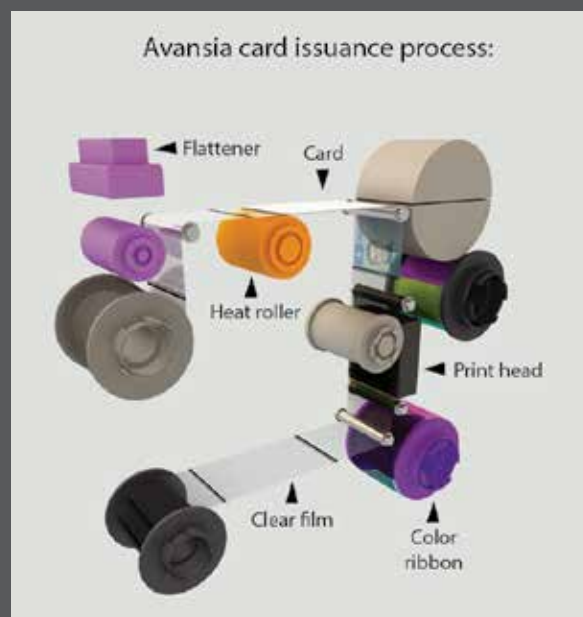
With the flexibility to integrate with third-party components such as encoders or scanners, Evolis has close working relationships with system integrators, enterprises and users related to a variety of card-based projects worldwide.

## The Evolis solution

From the extensive range of card printers, Avansia and Securion are two printers designed to issue secured access control badges with high print quality and enhanced security features.

The Avansia card printer is extremely robust and is capable of issuing more than 140 single-sided colour cards per hour, which is ideal for card issuance in medium and large quantities.

This printer uses the Retransfer technology (Reverse Transfer) and prints a card through two phases: first, the card design is printed by dye sublimation on a transparent film. The printed film is then fused to the badge using a thermal bonding process. With this technology, it allows the Avansia to print on all types of cards (PVC, PET, polycarbonate, ABS), including uneven card surfaces, such as smart contact and contactless cards.





In addition to Avansia, the Securion printer is one of the best solutions for personalizing and laminating highly secured for instant issuance. It caters to the growing need for security printers capable of printing cards that are fraud resistant and lasts longer. The Securion comprises of a colour print module and a laminating station which enables encoding and laminating on both sides of the card in a single pass when operated in dual-sided mode. The printer applies a layer of film such as a simple varnish or patch film with ultra-high security custom hologram over the entire surface of the card to produce highly secured cards used for government applications such as national drivers' license.



### Seamless access control during world-class events

By working together with local distributors and system integrators to tap on their expertise and knowledge, Evolis has successfully designed several major solutions in the access control field. In October 2013, PT Smart Identification Solutions, the official distributor in Indonesia has designed an attendance and registration management system for the APEC CEO Summit held in Bali to support a variety of requirements in personalizing delegate badges. Through the use of the Primacy printer, more than 15,000 badges were issued meeting the requirements in terms of print quality and personalization of badges by incorporating the necessary technologies to ensure that security and safety of all attendees are not compromised at the event.



### Three questions for Eirik Bakke, Global Sales Director, Evolis



#### What is the trend of the access control market?

The badge has become the norm for access control management in organizations and attendance management at events such as the APEC CEO summit. Companies and organizations today engage several solutions to ensure access tracking and identification of employees and visitors, and we notice the raising use of contactless technologies in the access control cards which

offers reliability and security.

#### What are the Evolis assets to design an access control solution?

One of Evolis' key assets is the intuitiveness and ease of use of our products. Card printers are used by wide group of users, including non-technology-savvy employees and our products are designed to be easy to operate. Our printers offer an intuitive interface where printer ribbons are automatically recognized and housed in easy-to-handle-cartridges.

In addition, Evolis has established worldwide recognition and awareness due to our continuous dedication in ensuring superior product quality and reliability. Since 2012, the Group has been awarded ISO 9001 certification, reflecting our overall dedication towards quality management and continuous improvement policy. To provide high quality services to end users across the world, we have developed a certified training program for distributors and resellers to ensure channel partners are empowered with the necessary technical skills and know-how to handle local technical service calls in quick

response time with maximum quality.

#### As a European manufacturer, what's your key success factor in the APAC region?

Through our international presence with five regional offices and an established distribution network covering 125 countries, Evolis has the necessary resources and expertise to carry out standard access control projects even at the international scale. With three sales subsidiaries operating in Singapore, India and China, together with the well-established distributor network in APAC, Evolis is able to provide local and responsive support to any end users of our products.

In Evolis, ensuring successful customer experience is of utmost importance to the Service team which consists of engineers and technicians who are dedicated to providing valuable assistance and services. This ensures that Evolis is able to answer the needs of any access control project, be it a single-site access control or a multiple-site and multiple country deployment.

#### About Evolis

Ever since its establishment in 2000, Evolis has designed and manufactured a full range of printing systems and solutions for plastic card personalization. The identification solutions designed by Evolis are geared to deliver personalized cards that are encoded and secured to support multifarious applications such as identification badges, payment cards, access control badges, travel passes, loyalty cards, official identification documents, and more.

The Evolis headquarter is located in Angers (France) and the company is publicly listed in the Paris Stock Exchange (Alternext) with earned sales of EUR 60.1 million in 2014 posting a 6.9 per cent increase on a year-to-year basis. With its proven expertise, the Evolis Group today is the industry frontrunner with the number of card printers delivered.

For more information, please visit [www.evolis.com](http://www.evolis.com) **SST**



# CARDS & PAYMENTS

Asia 2015

22 – 23 April 2015, Suntec Convention Centre, Singapore

## Welcome to the future of payments

**200+** SPEAKERS **120** SESSIONS **8,000+** ATTENDEES

**Cards and Payments Asia 2015** is the perfect place to help you navigate the complexities of the new payments era and ensure you make the right decisions for your business. We're flying in some incredibly inspirational speakers from around the world:

### The Futurist



**Robert Scoble**  
Author, Age of Context

### The Innovator



**Anthony Thomson**  
Atom Bank

### The Disruptor



**Mike Brown**  
Uber

### The power of sharing!

Cards and Payments Asia runs alongside four complimentary events – one ticket buys you all access. Special promotion for **Security Solution Today** readers. Enjoy **15% off** existing Conference Rate.

BOOK ONLINE NOW AT [www.terrapinn.com/reg15sst](http://www.terrapinn.com/reg15sst)



Scan here to get a copy of the event brochure sent to your email. Or visit [www.cardsasia.com.sg](http://www.cardsasia.com.sg) for full details.

Co-located with

**RETAIL** WORLD  
ASIA 2015

**E**COMMERCE  
SHOW  
Asia 2015

**FUTUREBANK**  
ASIA 2015

**THE CASH**  
HANDLING  
SHOW  
Asia 2015

# SECURITY MANAGEMENT FOR CRITICAL INFRASTRUCTURES



By Ralph Müller, Market Manager Utilities,  
Siemens Building Technologies

## **Critical infrastructures**

Critical infrastructures ensure the survival of a functioning community. At the same time, they are exposed to any number of hazards. Experts around the globe are working on organizational as well as technical responses to these challenges. At the core is the implementation of systematic security management for critical infrastructures.

Critical infrastructures are institutions and facilities that are vital to the functioning of a public community. If they fail partially or even completely, major supply bottlenecks

and serious disruptions to public safety and security can result. Because critical infrastructures are increasingly interwoven and interdependent, serious incidents can set in motion cascade or avalanche effects. Last but not least, terrorist threat scenarios are bringing the security of critical infrastructures to the fore in national and private-sector security policy. Institutions and facilities that need safeguarding include energy supply, information technology, telecommunications as well as transportation and traffic, e.g. airports.

The mutual interdependence of critical infrastructures is not limited to individual sectors but, because of globalization, is increasingly transnational in nature. For example, countries purchase energy from neighbouring nations to

ensure a continuous supply. If the energy supply in one country is compromised, bottlenecks arise in neighbouring countries. Because protecting critical infrastructures is not just a national issue, higher-level organizations such as the European Union have started to focus on it as well.

### Safeguards are growing in importance

A recent incident highlights how dire the need for action is when it comes to critical infrastructures. In the spring of 2013, a transmission substation near California's third largest city of San Jose was the target of a night-time attack. Unknown gunmen opened fire on the facility and destroyed 17 out of 21 major Silicon Valley transformers valued at several million dollars each. With a minimum of effort, the culprits took down the entire facility. The attack immediately raised fears in the U.S. that the national power grid could become a terrorist target. These fears were not unfounded, considering it took 27 days to restore operations. Similar cases of intentional sabotage of substations have also occurred in Europe, such as in Great Britain.

Even less dramatic incidents can have serious consequences for critical infrastructures. Remote substations, railway tracks and power transmission lines are not only vulnerable to vandalism and sabotage, but also at risk of theft of valuable metal cables. Rising metal prices worldwide have substantially driven up the number of thefts in recent years. The methods used by thieves, who primarily target copper and nickel are becoming more professional and aggressive; even armed attacks are no longer rare. The damage total amounts to several hundred million euros annually. Even more serious, however, are the associated disruptions in businesses and public rail traffic.

The introduction of smart grids, intended to optimize the balance between energy supply and demand, will make the overall energy supply network even more complex. Electronic security solutions can minimize the potential threats in this network infrastructure, thanks to technology such as access control and video surveillance systems.

### Research programs on critical infrastructures

Because of this growing risk, government agencies worldwide have begun to define minimum security standards for critical infrastructures. The North American Electric Reliability Corporation (NERC), for instance, is currently working on a security standard for substations. Large-scale security exercises, such as GridEx II in



November 2013, produced valuable insights. This effort simulated cyber and physical attacks on U.S. energy supply facilities and tested emergency measures.

In the European Union, numerous research programs are focusing on the protection of critical infrastructures, with cross-border infrastructures of particular interest. The European Reference Network for Critical Infrastructure Protection (ERN-CIP) established by the European Commission aims to strengthen relations between public institutions responsible for protecting critical infrastructures and the private sector. The ERN-CIP project launched in 2011 uses models and simulations to map cross-linked dependencies so sensitivity analyses can be performed. The design and processes of European energy, information and transportation infrastructures are being reviewed to determine if they are adequate for protecting critical infrastructures. The goal of these efforts is to ensure the uninterrupted availability of critical infrastructures.

### Siemens study defines security management requirements

From a strategic point of view, it is absolutely essential that risk analysis, planning, communications and coordination of security measures for critical infrastructures be performed centrally. Siemens has been intensely engaged in security management issues for some time. In a recent study, the Building Technologies Division investigated how operators of critical infrastructures manage risk and what they expect from software solutions for security management designed to support them in their tasks. Four areas particularly at



risk were studied: energy production and transmission facilities, airports, chemical and pharmaceutical plants, and campus-like environments such as universities.

The vast majority of those surveyed want security management software that first and foremost ensures the safety of individuals. In addition to protecting people, energy suppliers want to ensure a continuous supply of energy to the public as well as to fulfil official compliance regulations. Airport operators, on the other hand, see maintaining air traffic in accordance with official regulations and guidelines as especially important.

What special requirements do the study respondents have for security management software? Modular design that can be customized as needed is at the top of the list. The software also needs to accommodate the growing need for technical consolidation of command and control stations. This is particularly true for air traffic as well as energy supply.

### **Siveillance Vantage as a central security solution for critical infrastructures**

Over many years Siemens has gained a wealth of experience managing the security of critical infrastructures. This knowledge of precise customer needs was built into the Siveillance Vantage command and control solution. This software is specifically designed to support security management in critical infrastructures such as energy supply, airports, seaports, transportation, industrial complexes and campus environments. Whether for daily routine processes or in crises and emergencies, the solution provides real-time, targeted support for a reliable, scalable and efficient response to security incidents. The software solution is designed for installation in existing IT infrastructures. Open interfaces and integration technologies support the integration of a wide range of security systems. By consolidating these subsystems on one platform and combining all the data in one control point, security officers can quickly assess the current situation, make informed decisions and coordinate the necessary

measures. This integrated communication approach saves critical minutes and seconds, thereby ensuring very quick response times to keep the situation under control.

A Geographical Information System (GIS) shows the incident location and the current position of security and safety resources on overview maps. Security and safety personnel and vital equipment can be pinpointed within a building using floor plans. In addition to displaying the status, availability and current position of resources, the system suggests the best available intervention forces for the task at hand.

Siveillance Vantage offers integrated phone and emergency call handling on a failsafe and networked platform. The software not only sets up connections to the police and fire departments, but also supports radio communication with internal company security personnel. It also offers individual interfaces to internal telephone, communication, alarm, access control, video surveillance and fire detection systems.

In addition, Siveillance Vantage can display messages from the various alarm systems with defined priorities to ensure that the most critical incidents are addressed first. Each alarm and incident can be associated with defined actions, which are then suggested to the operator as the situation warrants or carried out automatically. The software can be adapted to internal security policies, and appropriate measures for daily routines, time-critical procedures, and emergency and crisis situations can be defined.

### **Conclusion**

More than ever before, critical infrastructures are tied to a multitude of security-related challenges. Intelligent software-based command and control solutions like Siveillance Vantage help infrastructure operators face these challenges.

For more information, please visit [www.siemens.com/buildingtechnologies](http://www.siemens.com/buildingtechnologies). **SST**

**BOOK YOUR  
STAND  
NOW!**

**3 - 5 March 2015  
Singapore**



# GLOBAL SECURITY ASIA 2015

International Exhibition & Conference on Counter Terrorism & Security



**Asia Pacific's Premier International  
Exhibition and Conference on Counter Terrorism,  
Internal State Security, Law Enforcement and Civil Defence**

Organised By:



Supporting Organisation:

Held in:

Media Partners:



[www.globalsecasia.com](http://www.globalsecasia.com)

# One Of The World's Largest Express Delivery Companies Installs A Cost-Effective System With Superior Image Quality

## The Customer

As one of the world's largest express delivery companies, TNT Express moves 4.7 million parcels, documents and pieces of freight every week to more than 200 countries. TNT Express operates air and road transportation networks in Europe, China, South America, the Asia-Pacific and the Middle East. To more efficiently manage shipping operations in the Asia-Pacific area, TNT Express Worldwide (HK) Ltd. in Hong Kong opened a new 70,000-square-foot hub facility.

## The Challenge

TNT Express Worldwide needed a surveillance system to heighten security efforts at its new hub facility in Hong Kong. When reviewing video surveillance alternatives, the company prioritized high resolution and superior image quality for identification and incident detection. TNT Express also favoured using fewer cameras for greater system efficiency, and had the need to include remote monitoring / camera setting management capabilities.

## The Solution

ADT Security designed an IP-based networked surveillance system and





performed the installation for TNT Express as part of new construction. According to Tyn van Amelsfoort, regional security support manager at TNT Express Worldwide (HK) Ltd., TNT Express had evaluated several megapixel cameras related to another project with ADT Security, enabling a quick decision to go with Arecont Vision for the new facility. Willie Hong, senior sales engineer of ADT Hong Kong Limited, said TNT Express chose Arecont Vision megapixel IP cameras for their outstanding resolution and as a means to “future-proof” the system for future expansion.

Arecont Vision’s five-Megapixel (MP) AV5115DN MegaVideo® Compact cameras are installed at high traffic

locations where high-resolution images are required for monitoring purposes.

Arecont Vision AV8185DN SurroundVideo® Day/Night eight-Megapixel 180-degree panoramic cameras are installed to monitor handling activity in the hub. The 180-degree panoramic camera can substitute for multiple analog cameras providing a cost-effective solution for applications where mechanical pan-tilt-zoom (PTZ) devices might otherwise be used, or where multiple cameras would be needed to view an expansive area. The AV8185DN incorporates four two-Megapixel CMOS image sensors that can be switched between day and night manually or automatically

to provide 6400 x 1200 pixel panoramic images at 5.5 frames per second (fps). The panoramic view can also be set at lower resolutions to provide faster frame rates, such as 1600 x 1200 pixel images at 22 fps. Low-light sensitivity is 0.2 lux at F2.0. The AV8185DN incorporates surface-mount or in-ceiling mounting options, an IP66-rated environmental chassis and a 5.5-inch polycarbonate dome that needs no external housing.

Arecont Vision AV8365DN SurroundVideo® Day/Night eight-Megapixel 360-degree panoramic cameras are installed in locations where wall mounted cameras would not provide clear views at all times during operations. The ceiling

mounted cameras provide clear views of large areas of the facility at all times and due to the installation height offer a discrete surveillance solution.

Arecont Vision's AV1115DN MegaVideo® Compact cameras are used to monitor emergency exits and areas with less traffic. The cameras capture 1280 x 1024 pixel images at 42fps and offer day/night functionality.

Instek Digital provided the video control, management and recording solution at the TNT Express hub facility, including network video recorders (NVRs), storage and HDD (hard disk drive) control. The system

is currently monitored locally within the facility as well as remotely.

### The Benefits

TNT Express especially likes the high-resolution image quality of the Arecont Vision cameras and appreciates the broad range of model choices. Also, the availability of higher resolution images can provide key evidence in case of investigations. Arecont Vision cameras' higher resolutions enable customers like TNT Express to minimize the number of cameras deployed without compromising coverage. The ability of fewer megapixel cameras to take the place of multiple standard-resolution network cameras or analog cameras

contributes to overall lower system cost. The use of fewer cameras requires less labour and cabling while providing high resolution. Using fewer cameras to cover larger areas also translates into cost savings related to infrastructure (cables, mounts, housings, etc.) which makes it easier to realize a system Return on Investment (ROI).

TNT Express expects future manpower and equipment savings to help offset their investment in the surveillance system, but those calculations have yet to be made because the cameras were installed as an addition to manned guarding. Expected system longevity will also contribute to ROI. **SST**





# IFSEC Southeast Asia

COMMERCIAL & GOVERNMENT SECURITY • FIRE • SAFETY

## Your route to the Southeast Asian Security, Fire & Safety market

**2-4 September 2015**  
Kuala Lumpur Convention Centre

As part of the world's leading series of security events, IFSEC Southeast Asia brings together security, fire and safety professionals from across the ASEAN region.

**IFSEC Southeast Asia** provides the perfect platform to:

- Win new business
- Launch your latest security, safety or fire innovations
- Conduct market research
- Develop your market entry or expansion strategy
- Establish and strengthen your supply chain by meeting existing and prospective partners
- Network and position your brand within the industry
- Showcase and sell your solutions to senior end users from the private and government sectors as well as the installation and consultant community

### Contact Us:

#### MALAYSIA ENQUIRIES

Ms. Rina Fadzil  
+6-03-2176 8876  
Rina.Fadzil@ubm.com

#### ASEAN ENQUIRIES

Mr. TJ Tan  
+6-03-2176 8788  
TJ.Tan@ubm.com

#### INTERNATIONAL ENQUIRIES

Richard Mackintosh  
+44 (0) 20 7921 8510  
Richard.Mackintosh@ubm.com

Part of:



Incorporating:



Organised by:



[www.ifsecsea.com](http://www.ifsecsea.com)

# Electricity Generation Plant Implements Remote Monitoring System For Greater Security

## Mission

The Aeropila project, developed by the engineering company BESEL, offers a clean, innovative and non-polluting power solution to ensure the future of power generation in a context in which it is essential to make changes to benefit our environment.

Aeropila is an electricity generation plant integrating renewable energies (photovoltaic and wind energy) relying on weather, for the production and storage of hydrogen, and incorporating a fuel cell. It generates electricity in a completely clean cycle. The original idea was based on closing the hydrogen cycle; in other words, a system capable of:

- Producing power by means of photovoltaic plates and a wind turbine which allows the energy needs of a particular load to be covered, including the various components for the plant, since it operates with complete autonomy.
- Whenever there is an excess of production, the remaining energy is stored as hydrogen by means of a process of electrolysis (dissociation of water into hydrogen and oxygen by applying electricity) and the hydrogen is stored in pressurized cylinders.



Whenever there is no excess of production of renewable energy, the stored hydrogen is used, transforming it again in electricity by means of a fuel cell, and it is employed to cover the energy demand of the load to which energy is being supplied by means of the generating plant.

Aeropila is thus able to obtain a system of clean and continuous power generation in which the only waste product is water.

The engineering firm that developed Aeropila, BESEL, is based in a technology park in Boecillo, Spain (Valladolid) and the prototype was built in an area of this park. For a period of one year, it was subjected to evaluation in the various possible

climate scenarios, carrying out tests and correcting the possible defects.

The need to maintain detailed control of the processes being executed in the facility and the fact that, in real-world conditions, this type of facility is generally set up at remote



locations that are difficult to access, require that a system be found that allows remote monitoring.

On the other hand, the need to increase the safety of the facility, as pressurized gases are stored there, was among the determining factors that led to the selection of network cameras from Axis Communications as a key project component.

**The Solution**

An engineering firm from Vallisoleta specializing in industrial applications, Proxima Systems, proposed the development of a remote monitoring system especially

designed for Aeropila, which may be extrapolated to any type of industrial facilities. The system includes Axis network cameras as a value-added complement to carry out process control in the testing area authorized by BESEL.

The facility is monitored by two AXIS 207 Network Cameras, which are especially fast for remote indoor monitoring applications, and an AXIS 221 Day and Night Network Camera for the external surveillance of the perimeter.

The monitoring tool developed by Proxima Systems also includes a web viewing interface to make

inquiries via a computer, with multi-platform support (Linux, Mac OS X and Windows) and a simplified WAP interface to make inquiries from a mobile phone or PDA.

**The Result**

The experience gained after one year of operation shows that the facility is perfectly capable of supplying power continuously. The monitoring system, in addition to offering a greater level of security for the facility, contributes to more precise control and widens the access capabilities with the possibility of sending alerts if necessary and executing security protocols automatically. **SST**

# We've got the touch



Store, manage and control keys, cards and small assets more securely and efficiently with KeyWatcher Touch. Access is limited to authorized users, and all transactions are recorded with detailed reports available. The system will even automatically email transactional information to any user – at any time. And KeyWatcher's convenient touchscreen makes removing and returning keys easier than ever. With our modular design and full scalability, it's easy to see how we keep making key management better. That's Morse Watchmans' outside the box thinking – right inside the box.

*think inside the box.*



morsewatchmans.com • 1.203.264.4949

# Ellwood Group Heightens Security With Megapixel Technology

## Background

Headquartered in Ellwood City, Pennsylvania, Ellwood Group, Inc. (EGI) produces engineered, heavy metal sections for capital specialty equipment manufacturers in the United States and around the world. The company's nine operating business units—encompassing multiple plants in Pennsylvania, Michigan, Ohio, Texas and Canada—are dedicated to solving customers' needs for specially engineered forging steels, iron castings, forgings, and other alloy parts.

## The Challenge

When making a single speciality steel product that can cost tens of thousands of dollars, it is essential to have the capability to monitor the manufacturing processes and if a problem is experienced downstream, to then have the ability to go back and find the root cause. If a manufacturer can implement process-monitoring technology that quickly, accurately solves manufacturing problems, the system pays for itself in short order.

## The Solution

Ellwood Group, Inc. has installed over 250 IQeye HD megapixel cameras and growing, in order to monitor and improve manufacturing processes, in addition to meeting security needs. "We have moved from a test environment over five years ago to now having megapixel cameras deployed at about 20



different locations in our various plants," said Eugene Spadafore, senior network administrator, EGI. "We started out asking, 'How can we improve quality for process X?' Rather quickly we saw the value of closely monitoring manufacturing with the IQeye cameras and now it's a standard in our environment, we use the cameras at every facility." In what is a growing trend, EGI uses its megapixel technology 75 per cent for process control and only 25 per cent for physical security. As a result of using megapixel technology for process control, EGI has seen measureable improvements in efficiency and productivity, resulting

in substantial savings. As one EGI location or division discovers the benefits of this kind of manufacturing process monitoring—both live and post-event—invariably they, too, request cameras.

EGI stores video at each location anywhere from three days to three months, depending on the manufacturing process being recorded. The majority of the cameras are 2.1 MP IQeye Sentinel and 700-series cameras, the newest utilizing H.264 compression.

"Our growth is typically through acquisition," said Spadafore, "once



a new company is acquired, the next question is, 'When can we get cameras installed?' We are quite satisfied with how the IQeye cameras have performed in meeting our sophisticated needs. As a result of using megapixel technology for process control, we have seen improvements in efficiency and productivity and that translates into real money." To successfully manage the expansion of the use of IQinVision technology, Spadafore's division has developed a de facto standard, scope of work, and set of specifications for how to successfully deploy the IQeye cameras in each new location. "To maintain consistency and best practices, we elected to be the overall project manager for camera deployment." **SST**

**FUJIFILM**  
Value from Innovation

**CCTV LENSES**  
For Security & Surveillance

**FUJINON**  
**CCTV LENS**  
for Security & Surveillance

**BINOCULARS**  
For the Specialists

**FUJIFILM** Asia Pacific Pte Ltd  
10 New Industrial Road  
Fujifilm Building Singapore 536201  
[www.fujifilm.com.sg](http://www.fujifilm.com.sg)  
Tel: (65) 6383 9933 Fax: (65) 6383 5666

# Taminco Chemicals Rely On Milestone Video For Employee Safety And Federal Regulation

## Background

Taminco manufactures compounds and solutions for agricultural, personal and home care, energy and water treatment chemicals. To research and develop these essential compounds, Taminco uses a wide variety of solutions, powders and other substances for its manufacturing sites. The Department of Health, Department of Homeland Security and Department of Transportation heavily monitor the shipping of these substances, so it is essential that a sophisticated surveillance system monitor every step of the process, from delivery of raw materials to the shipment of end products.

## Managing employee safety and upholding federal regulations

To monitor and record all daily activity in its US manufacturing facilities, Taminco has deployed Milestone XProtect® video management software (VMS) for overseeing employee safety while delivering hazardous chemicals to and from manufacturing, and ensuring compliance with the strict federal regulations.

“Our products are manufactured and loaded for shipping every day into rail cars and trucks, all of which are thoroughly regulated by the Departments of Transportation and Homeland Security. With the Milestone video system, we can increase safety and help save time and energy. We can adjust camera views and record every second of a load to ensure there is no spillage while keeping our inventory counts accurate,” said Matt Bodi, IT manager, Taminco USA.

For distribution around the globe, Taminco develops both simple and complex chemical solutions that are used for applications in many industries. The raw materials and end products manufactured in the labs can pose a threat if handled inappropriately or misused,



so regulations imposed by the Department of Homeland Security and Department of Transportation (such as the Chemical Facility Anti-Terrorism Standards or CFATS) ensure that the transfers of barrels, jugs and vats are well-documented and monitored for national security purposes. Keeping its efficient yet cautious staff adhering to regulations is a top priority for the company.

Milestone XProtect® Enterprise video management software has been deployed by Milestone Partner MMR, to address an outdated analog camera system in Taminco's Louisiana and Florida factories. With the Milestone open platform technology, Taminco was able to test and choose the highest quality cameras - including a Bosch explosion-proof model. Milestone's central, remote and mobile monitoring abilities assist in the safe and compliant conveyance of chemicals to and from the factories.

**Milestone's intuitive interface**

In such a hypersensitive industry, knowing what happens during an incident, which chemicals are involved and where contamination occurred are crucial in maintaining a safe environment for employees during rare emergencies. Milestone's intuitive interface provides the administrators ease of use and ongoing upgrades. Another benefit is the ability to manage a mix of cameras, thanks to Milestone's open platform support of thousands of devices.

Being a company dealing with specialized equipment, chemicals and potential threats made the installation a challenge. In the St. Gabriel, Louisiana factory, 35



digital cameras are installed, while the Pace, Florida, factory has nearly 75. A combination of fixed and pan-tilt-zoom cameras continuously monitor Taminco: Sony SNCRZ50N and SNCEP520, Axis Q1755 and P5534, Bosch EX72 (Explosion Protected) and Axis encoders 243Q and P7210.

Taminco's two U.S. plant locations use the video surveillance for both traditional security and monitoring everyday activities. From watching parking lots, gates and exterior fences to examining every step of the transportation and manufacturing processes in its busy facilities, the company takes great pride in ensuring the safety of its employees in the work environment.

Asset security is also a high priority, second only to personnel safety, as many raw materials and products are

more interesting to criminals than some of the expensive equipment used to develop, manufacture and transport the chemicals.

"When it all comes down to it, the video is used for more than just security," continued Bodi. "There's another type of surveillance we provide: managing efficiency in our detailed manufacturing processes. The production of our products is vital to the company's success, so we keep an eye on the process, monitoring stations for quality and effective techniques." **SST**

# World's Largest Builder Of Diesel-Electric Locomotives Strengthens Security With Megapixel Surveillance

The enhanced video quality of IP cameras and megapixel recorders are beneficial for various industries and facilities because of the wider monitoring area and longer recording retention period that are required. "With the proven end to end solutions provided by Surveon, it is possible to ensure monitoring of the entire premises with limited number of guards and save our client on resource and maintenance costs," said the security project manager for EMD.

## The Customer

Electro-Motive Diesel (EMD), a subsidiary of Progress Rail Services, is a business entity originated in Caterpillar Group. Located in Sete Lagoas, Minas Gerais, Brazil and covering 15,000 metres of built area, the factory planned to

expand its capacity to be able to manufacture 100 locomotives a year with 4,000 HP power. The number of employees should reach 600 before the completion of the project.

## The Challenges

### Broad and Uncovered Space

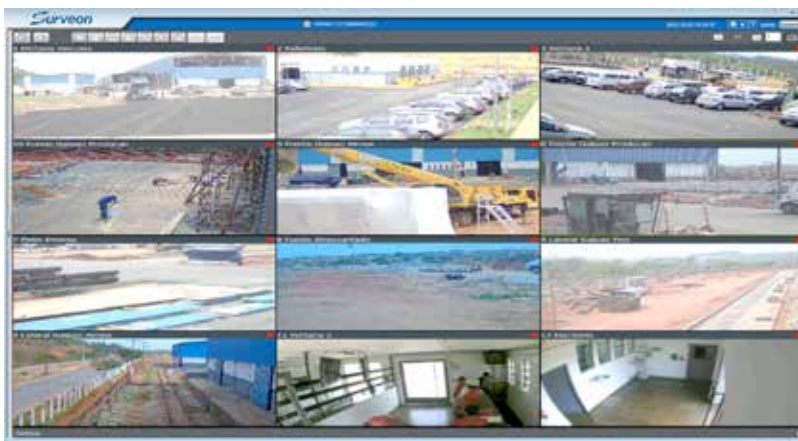
The size of the property is about 400 x 200 metres, where four sheds, a storage area without coverage, three buildings (office, cafeteria and locker room) and two entrances (people and vehicles) are located. The areas to be monitored are as follows: two corners, backyard, area in front of the sheds and the front part including concierge and the three buildings. Also, the entrances and exits of the production halls and warehouse areas have to be included.

### Integration for Megapixel Solutions

Megapixel solutions offer significant benefits for surveillance operations, but the large number of megapixel cameras and the need for 24/7 recording present many difficult issues for the system integrator: I/O performance of traditional NVRs, stable integration of storage solutions, and overall installation of a proven solution that can assure end-to-end integration. To successfully deal with all these issues, Surveon's eminent end-to-end megapixel solution was adopted including cameras, SMR and enterprise VMS solutions.

### Complicated Installation and Configuration

Integrators have difficulty in installing and configuring products



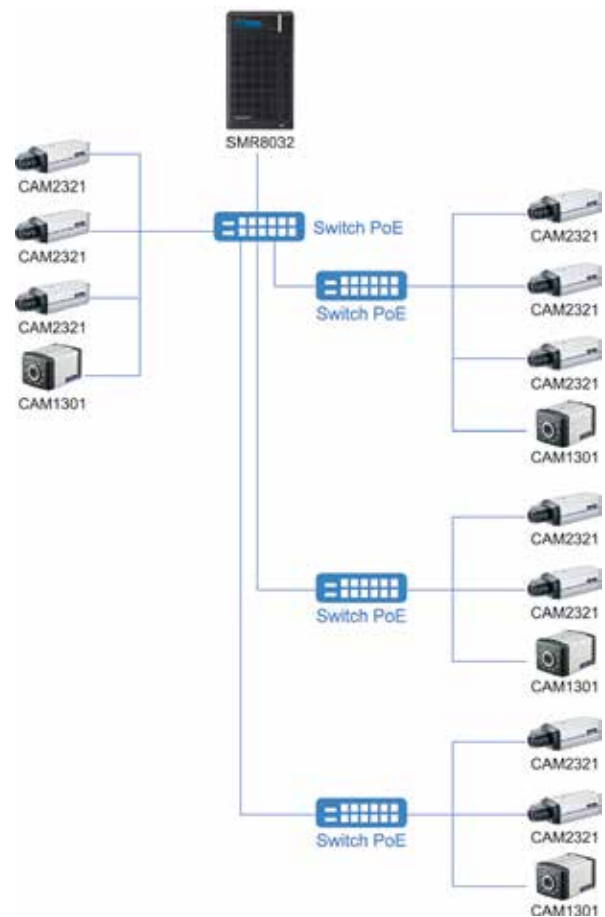


from different vendors. The reliability of the system comes from using cameras from a single manufacturer that are compatible with the management software. All-in-one, non-COTS system and 100 per cent in-house design featured in Surveon's SMR offer a highly integrated and proven solution, reducing the installation, compatibility and maintenance issues associated with traditional PC+software solutions and enable system integrators to easily upgrade to professional, small- to-medium-sized megapixel surveillance.

### Solutions

The first phase of the project was primarily deployed to monitor the security perimeter around the sheds and their access routes. The final project did not just monitor safety but it was also put in place to take care of the equity for keeping excellent manufacturing process quality. The system is connected to the corporate data network which allows monitoring in real time the production line worker's safety, management departments, and the status of the entire plant without compromising data transmission. Surveon's SMR8032 was installed in the data centre, while CAM1301 and CAM2321 box IP cameras were connected to four network racks installed in the sheds and were interconnected via fibre optics. This configuration has created a dedicated VLAN for security equipment and the cameras were powered via PoE.

CAM1301 offers a wide array of features including the compact size, 1920x1080 video resolution, H.264



**Figure 1: Distributed Architecture for Advanced Applications**

simultaneous video streams, PoE and backend video analytics capability. CAM2321, equipped with the Sony Exmor image sensor, provides high image quality and low light performance. With maximum 2048x1536 resolution and Full HD video performance, in addition to features such as DC iris and WDR, the cameras are ideal solutions for high-level security applications.

The Smart Megapixel Recorders (SMR) are embedded with Surveon's intuitive VMS software and provide enterprise-level features such as local live viewing with megapixel quality, real-time analytics, multi-display, video bookmarking, instant playback, remote monitoring, web client, mobile client, HTML overlay and domain management. It comes with an easy-to-use desktop form factor and provides high I/O rates, large capacities, and overall system stability necessary to help system integrators easily meet the demands of megapixel environments.

## The Benefits

### True Megapixel and Night Time Image Quality

"We chose the complete IP solutions from Surveon for EMD due to the capability of using IVA (Intelligent Video Analytics) and digital zoom without loss of picture quality. The image quality and functionality exceeded expectations. Night-time images were configured to display colour images even at dark and sharpness is top-notch. Handling the system is easy and retrieving recorded images is very simple. Besides, CAM1301 is in a very competitive price range but nevertheless features D/N and IR LED. That is why I consider CAM1301 as an excellent solution for upgrading from analogue to megapixel," said security project manager.

### Highly Integrated and Reliable Solutions

Surveon's SMR series, a professional video recording system, can be combined with cameras to create highly integrated and reliable surveillance solutions. Compared to PC-based solutions, Surveon's key value lies in the production process which ensures that every "integration point" comes with reduced possibility of problems and risks.

### Real-Time Recording

A dedicated SMR ensures recording of all the images with high resolution for a period of seven days with stability and reliability. With Surveon systems, it is possible to ensure the monitoring of the entire premises with limited number of guards. All images are viewed live in two monitors where the guards can see all terrains and receive intrusion alerts through real-time video analytics and therefore act more assertively and effectively. **SST**

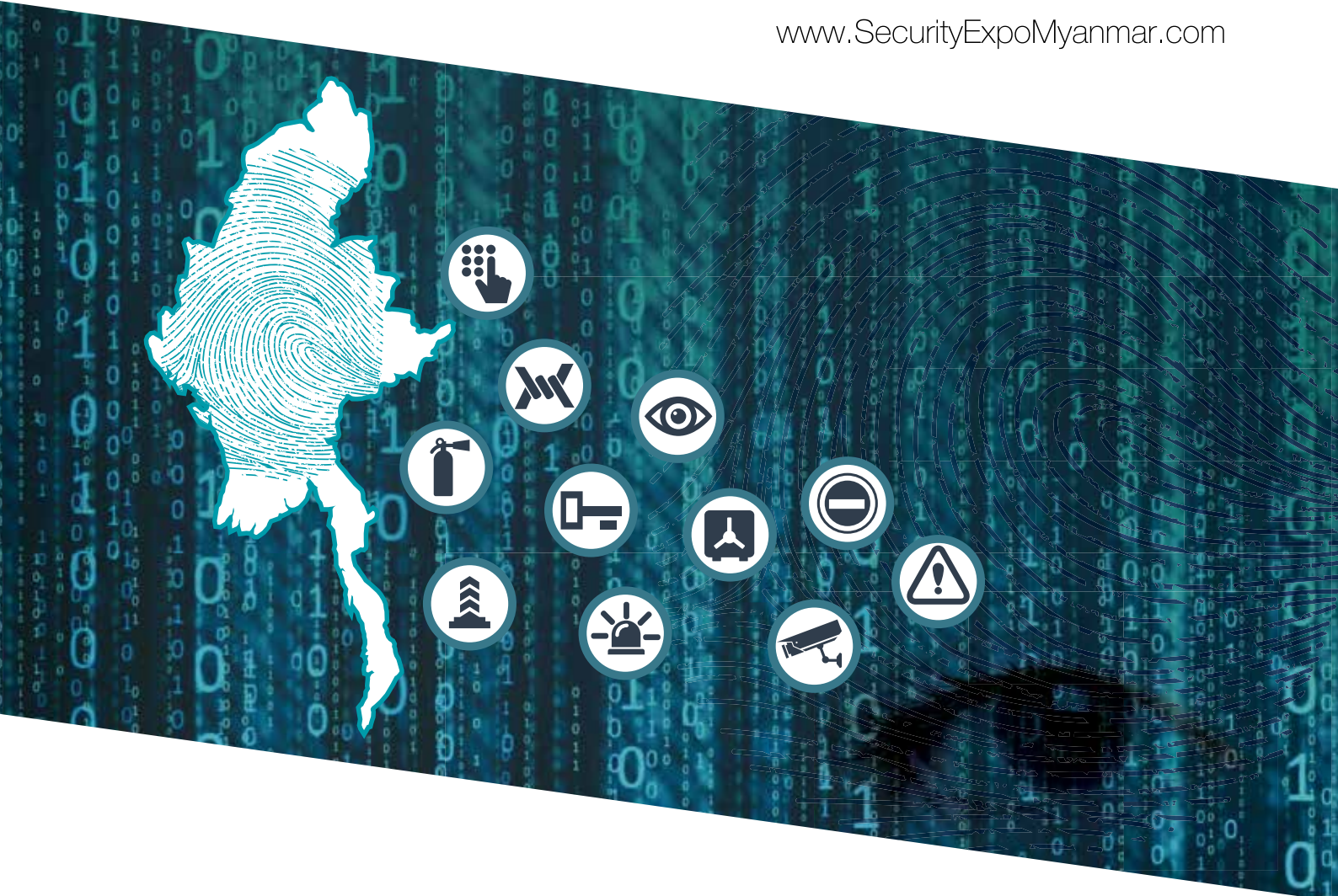




**MYANMAR  
SECURITY EXPO**

**26 - 28 October 2015  
Myanmar Convention Centre, Yangon**

[www.SecurityExpoMyanmar.com](http://www.SecurityExpoMyanmar.com)



Your springboard  
to the emerging  
**Myanmar security market**

Myanmar's first dedicated  
trade exhibition for the security industry

*For exhibition space, please contact:*

**Michael Ng** | Tel: +65 6393 0251 | Email: [michaelng@mpinetwork.com](mailto:michaelng@mpinetwork.com)  
**Lindsay Teopaco** | Tel: +65 6389 6629 | Email: [lindsayteopaco@mpinetwork.com](mailto:lindsayteopaco@mpinetwork.com)

# New Jersey Based Private Wholesale Food Distribution Company Boosts Security With 350 New IP Surveillance Cameras

## The Customer

General Trading Company is a private wholesale food distribution company that has been in business for more than 65 years. The full-service grocery and dairy distributor, wholesaler and exporter carries more than 10,000 grocery and 2,000 dairy items. In addition to brand name products, General Trading Company's private labels are the "Parade" and "Better Valu" brands. Its 350,000 square foot distribution centre in Carlstadt, NJ, includes both dry and refrigerated areas.

## The Challenge

Previously, surveillance of the General Trading Company distribution centre was provided by 90 VGA analog cameras. However, Frank Covello, director

of Security at General Trading Company, sought to expand coverage of the facility. Specifically, the company needed a system that could provide an overview of employee performance and productivity, the ability to review inbound and outbound shipments for quality control, and the capability to review door access control events using video.

## The Solution

Rather than add to the existing camera system, General Trading Company opted to do a "rip and replace" installation. The analog cameras and servers were completely removed and 350 new Arecont Vision IP megapixel cameras were installed in their place.

Megapixel IP cameras provide better picture quality, and IP connectivity

lends itself more to an enterprise network video recorder (NVR) system – all cameras can be viewed from the same program rather than operators having to go to separate analog servers to view live video and history. General Trading Company chose Arecont Vision cameras in part because of their H.264 compression, which minimizes bandwidth and storage needs while providing quality comparable to motion JPEG, according to Gene Kowalski, network engineer. In addition to better image quality, the IP system allowed the company to store 30 days of video centrally using iSCSI IP-based storage. The company also realized it could install a single megapixel panoramic-view camera instead of four individual cameras. Having determined that Arecont Vision equipment offered the best value and overall picture quality, Covello and Kowalski designed the new system and Arecont Vision worked closely with them to understand the needs specific to the business. "It has been a new venture for us and for Arecont Vision," said Covello.

An Arecont Vision AV10005 MegaVideo® camera provides quality assurance in the pallet reconciliation area at General Trading Company. The AV10005 is an H.264 dual mode 10MP/1080p camera that combines



the resolution of a 10-Megapixel camera and a full HD (1080p at 30 frames per second) camera into one system. Merging the functionality of two cameras, it provides the unique ability to operate in either full HD mode or at 10-Megapixel resolution (3,648 x 2,752 pixels), offering 33 times the resolution of standard-definition cameras.

For situational awareness in the warehouse loading docks and parking and truck lots, General Trading Company uses Arecont Vision's SurroundVideo® AV8185, an eight-Megapixel panoramic view camera that offers 180-degree images using four two-Megapixel sensors. Enclosed in a six-inch dome on an IP66-rated environmental chassis, the camera can be surface-mounted, pendant-mounted or installed in a ceiling. The camera provides up to 6,400 x 1,200 pixel images at 5.5fps or can be set for lower resolutions at higher frame speeds, such as 1,600 x 1,200 pixel images at 22fps or 800 x 600 pixel images at 88fps.

Arecont Vision's AV5105 MegaVideo® camera is used in the warehouse aisles and on the loading docks to provide detail of pick selection and pallets leaving through truck doors. The five-Megapixel camera provides 2,592 x 1,944 pixel images at 9fps. Also ensuring pick selection in the warehouse aisle are Arecont Vision AV3105 cameras, supplying 2,048 x 1,536 pixel images at 15fps.

Arecont Vision AV2815 MegaVideo® cameras, which are 1080p compact H.264 IP cameras delivering 24fps of full HD 1080p video, view the warehouse aisles for pallet reserve location. Covering the offices are recessed domes and Arecont Vision AV1315 MegaVideo® Compact

cameras, which provide full HD 1080p video images at 32fps. Arecont Vision AV1355 1.3-Megapixel H.264 MegaDome® network (IP) cameras provide 1,280 x 1,024 pixel images at 32fps to cover cafeterias and entrance/exits. Outdoor parking lots are covered by Arecont Vision's AV2825IR, a full-HD mode, 1080p H.264 MegaView™ IP all-in-one bullet-style camera that includes an infrared (IR) illuminator.

The cameras incorporate Arecont Vision's MegaVideo® image processing at 80 billion operations per second. Features include forensic zooming to zero-in and view the details of a recorded image, motion detection and image cropping. The cameras can output multiple image formats, allowing the simultaneous viewing of the full-resolution field-of-view and regions of interest for high-definition forensic zooming.

ExacqVision provided the NVR software. Six servers are used for centralized monitoring. Video signals are transmitted across a 10-gig fibre backbone and Cat-5E camera connections using Power over Ethernet (PoE) and Dell Powerconnect switches. Disk storage uses a white box iSCSI array.

## The Benefits

Megapixel cameras provide better image quality and a larger field-of-view. Megapixel imaging enables the company to identify and view any case, pallet or person with clarity beyond the capabilities of the previous VGA system. The new system at General Trading Company also provides efficiency benefits related to time and attendance, safety, production, quality assurance and customer service.

The new system enables General Trading Company to boost quality control by making sure the correct case is selected using the Arecont Vision system tied into voice picking timestamps. Reviewing the truck door video history confirms the number of inbound and outbound pallets. To ensure safety, the Arecont Vision system enables review using clear video images of accidents indoors and in the truck and parking lots. To promote quality and to deal with customer service issues and requests for customer credits, video history allows General Trading Company to review the condition of a product when it left the building and address employee training, if necessary. Related to time and attendance, video history enables supervisors to review productivity based on timestamps from the warehouse management system.

Confirming a fast return on investment is easy for the General Trading Company system. Specifically, the use of 350 Arecont Vision megapixel cameras – ranging from one to 10 megapixels in image size – provides the same coverage as thousands of conventional cameras. Also, the video system has taken the place of – and saved the expense of – several security personnel who would otherwise have to be stationed throughout the building 24 hours a day.

Additional benefits of the system include improvements in employee productivity and the ability to identify causes for unproductive time. As a tool for safety education, the system has helped to identify and eliminate safety violations. The video also helps to control the opening and closing of doors, and is used as an investigation tool for accidents that happen in the parking and truck lots. **ESST**

# Chemical Products Manufacturer In Johannesburg Elevates Security With Enhanced Perimeter Protection



## Background

AECI's Chemserve Systems (Pty) Ltd provides chemical products to a diverse range of industries. Their site at Chloorkop, a small industrial town just outside of Johannesburg, was being monitored by four different analog camera systems, making effective security surveillance extremely difficult. Hence, a decision was made to consolidate and upgrade the existing solution.

## The Solution

Seasoned IP CCTV and systems integration provider, SLA Group, designed and installed a cohesive solution, using Axis network cameras, which offers complete perimeter

coverage and extensive internal monitoring capabilities. The main entrance control room maintains centralised control of the entire system, while the IT server room records and acts as a main buffer for the whole system, thereby reducing the risk of an incident or intrusion, failing detection by security personnel.

## The Result

The vacant land that borders the north and west sides of the Chloorkop AECI's site no longer poses a threat to the security of the premises. Previously this open area was responsible for continuous trespassing and the removal of large quantities of valuable stock. Thanks to the installation of Axis thermal network cameras, even complete darkness cannot offer criminals a place to hide.

## Protecting essential stock

AECI – Chempark Division's supply an extensive range of specialty chemical products and related services for industrial use across a broad spectrum of customers in the manufacturing and mining sectors, mainly in South Africa and in Southern Africa.

- 1. Chemsystems:** provides chemical products to a diverse range of industries.
- 2. Akulu Marchom:** supplies chemical raw materials and value-adding services to the cosmetics, toiletry and detergent industries in South Africa.
- 3. IU:** manufactures and supplies a range of polyurethane products, technologies, systems and solutions in Southern Africa.
- 4. Plastamid:** plays a leading role in the manufacture



and supply of thermoplastic compounds to a diverse range of industries.

- 5. **Chemfit:** has 30 years' experience in supplying traded and blended specialty chemicals to a broad range of industries including water treatment, soil fumigation, petrochemical, lubricants, polymers and plastics.

"It is imperative that warehouses, administrative buildings, workshops and storage tankers are under 24-hour surveillance. This ensures that our customer has complete control of the entire site at all times," remarked SLA Groups Alexandre Teixeira. "Any movement after working hours will automatically trigger an alarm that security officers can react to immediately. The Axis PTZ network cameras provide a visual of what security can expect to encounter during these responses."



### A fortified boundary

SLA Group has over 24 years' experience in the design, manufacture and installation of CCTV and automation systems for the power generation, mining, iron and steel and chemical industries. This sustained involvement allows SLA Group to offer best value for money solutions without compromising on quality, reliability or long-term stability.

"We realized that AECI - Chempark perimeter was a major security issue that required careful attention and meticulous product investigation," said Teixeira. "The AXIS Q1910-E Thermal Network Camera presented itself as the most intelligent option." AXIS Q1910-E uses thermal imaging to detect people objects and incidents in complete darkness or challenging conditions such as smoke, haze, dust and light fog.

For a long time thermal imaging was too costly for any application outside of the military, however, as price is driven down by improved technology, it is rapidly becoming a force to be reckoned with in the security and surveillance industry. Creating images based on the heat that is generated by any object, person or vehicle and requiring no additional light source, thermal cameras are ideal for securing perimeters and dark or shadowed areas.

### Crisp, high definition images

The main entrance to the site and the internal roads are monitored by AXIS P1344 Network Cameras. The first-rate HDTV image quality of AXIS P1344 ensures that control room personnel are able to view video surveillance of the highest possible resolution in the zones where clarity and detail are absolutely critical.

"Picture quality and ease of installation were just two of the many reasons that we selected Axis as our IP partner for this project," remarked Teixeira. "Every single corridor, intersection, entrance and exit needs to be accessible by the surveillance cameras. The versatility of the Axis-based solution makes this entirely possible." **SST**



# Mail Screening



By: Derek Gotts, Managing Director,  
Todd Research

## Introduction

Despite the plethora of modern technology available, most modern business environments still rely on the delivery of letters and parcels. With this in mind the mail route into any organisation is destined to remain the preferred method for anonymously targeting a person or individual associated with a particular company or facility. By its nature it requires few resources and the desired effect to disrupt and deter the business from its daily activity can be achieved by the deployment of dummy devices such as live ones with little or no risk to the perpetrator.

## Risks

Historically these attacks have been administered by organisations such as animal rights groups targeting pharmaceutical and medical research organisations. Following the aftermath of the banking crisis this pathway has been utilised by lone individuals seeking revenge, possible disaffected employees, including those wishing to extort money. Many businesses have started assessing their mail screening function which is being further complicated by the growth of staff who shop online and have their items delivered to the workplace. In addition, the risk from dissident terrorist organisations has not gone away as was recently demonstrated by the series of crude bombs sent to Armed Force's recruiting offices; the

devices bore a Republic of Ireland postmark and were subsequently confirmed to be the work of the republican terror alliance known as the new IRA.

## How to alleviate such risks

Before any processes are established consideration should be given to undertaking an assessment of the threat or risk potential to the company and specifically what or whose mail should be screened as well as the anticipated volume. Only after this can the correct screening equipment be specified. The best practice is to screen all mail coming onto the site using X-ray technology operated by vigilant well-trained staff. Particular attention should be given to parcels arriving from random sources such as couriers and those wishing to leave mail for individuals at reception that may result in items circumnavigating the screening process.

Any equipment deployed is of course only as good as the staff operating it, so a solid understanding of the operational capabilities of the equipment coupled with regular training in understanding the characteristics of possible threat items is essential to avoid unnecessary and highly expensive evacuations due to misinterpreted or misidentified items.

At Todd Research the installation of the equipment is only the first step, the next is to ensure the staff from the mailroom, security team and anyone involved in



the escalation process understand the nature of threats to be encountered, how to deal with them and actions to mitigate false alarms. Todd Research works with the organisation through its support programme ensuring new staff and those requiring refreshers have regular exposure to training.

Advice on how to formulate a robust process for the screening of mail can be found via companies such as Todd Research with over 50 years experience in the screening of mail, national bodies such as CPNI (Centre for the

Protection of National Infrastructure) as well as Counter Terror Security Advisors in organisations such as the City of London Police. Users should be aware that there are also health and safety requirements to operate X-ray equipment and good suppliers should assist with the provision of radiation protection training and compliance with IRR1999 (Ionising Radiation Regulation 1999) advice can also be sought via The Health Protection Agency (HPA).

When choosing the supplier to provide screening equipment look at their history, do they have experience of dealing with similar organisation in your sector? Do they offer a complete solution from assessment of risk, capability of supplying the correct configuration of scanner, training, and of course the ability to support the equipment over its life? This is particularly important, as it will be a critical piece of your organisations security infrastructure; even then it is worth talking to other organisations to learn what they have implemented and how well it works.

The experience of Todd Research goes right back to the height of IRA activity and the need for Government to deploy equipment to combat the postal threat. This led to the development that continues today of a range of cabinet scanners capable of accommodating a single item or mail bag, the user in a matter of seconds can see the contents of the package and via image enhancement tools further interrogate the item confirming it "Safe or Suspect". One particular enhancement is EPD™ (Enhanced Powder Detection) gives the user greater ability to see items containing "powder" which in the case of the US has seen an increase in attacks. For facilities requiring the ability to scan constant volumes, a conveyor airport style unit



can be the preferred option often having algorithms to assist those screening to rapidly identify threats. When it comes to cost, conveyor scanners typically have higher capital and running costs because of their complexity moving components and size.

For more information, please visit [www.toddresearch.co.uk](http://www.toddresearch.co.uk) **SST**





**The Comprehensive  
Solution For Prevention  
Of Attempts Of Terrorist Acts  
And Counteraction To Illicit  
Trafficking Of Radioactive  
Materials**

Article courtesy of Pacific-Tec Scientific Pte Ltd

## Basic principles of the control

Polimaster, a leading manufacturer of Radiation detection instruments in Minsk, Belarus suggests some solutions for radiation control over transportation and carrying through the borders of objects, airports and seaports and other for safety, radiation protection counteraction to Illicit trafficking of radioactive materials.

### The typical algorithm includes three steps:

#### 1. Alarm at presence of radioactive materials.

This problem can solve a stationary system of the radiating control called **Radiation Portal Monitor (RPM)**.

RPM can be used for radiation monitoring of vehicles, trains, pedestrians, cargoes and luggage. As a rule, the construction is based on the high-sensitivity gamma radiation detectors (gamma channel) and special neutron detectors (neutron channel). RPM are also supplied with the audible or/and visual alarm, can be supplied with systems of video observation and of the operator's workstation for control and documenting of the information about the object which has caused alarm. Also the detectors are easily integrated to the computer network for transmitting the data to the united centralized system.

#### 2. Localization of the source.

Alarm itself caused by presence of radioactive materials cannot be the reason to suspect their unapproved transportation through controlled border. For the localization survey instruments such as **Personal Radiation Detector – PRD** are used. At RPM alarm, search and localization of the source is carried out with the help of PRD. On the other hand, if during the object's inspection with the PRD the radiation source is detected, one could suspect the presence of the anomaly demanding the further examination. The new generation of PRD is called **Spectroscopic Personal Radiation Detector (SPRD)**. This is a combined instrument with functions search, localization and identification mode in one unit.

#### 3. Source identification.

To carry out the identification, special instruments such as **Radionuclide Identifiers** or **RID** are used. The main purpose of primary identification is to find out the type of the source. Under the international classification accepted by IAEA all radioactive sources are divided into following

groups (only as examples, not full list):

1. Naturally occurring radioactive materials - NORM;
2. Medical isotopes - MED;
3. Industrial isotopes - IND;
4. Nuclear Materials - SNM.



### Polimaster suggests to use this set of instruments for prevention of attempts of terrorist acts and counteraction to Illicit trafficking of radioactive materials:

#### 1. Alarm Radiation Portal Monitor (RPM) category –

Installation of the radiation control PM5000A / PM5000B series represents a complex of independent units (gamma and neutron) which can form various configurations of the fixed radiation monitors providing an effective control over Illicit trafficking of radioactive and nuclear materials through the borders of objects. It's a high sensitive system - depending on the configuration it allows to detect various types of sources, including special protected sources.



#### 2. Localization Personal Radiation Detector (PRD) category –

The most popular search instruments of the series **PM1703M / GN, PM1703MO-1** and Spectroscopic **PRD PM1704A / M / GN /GNM**





The basic purpose is search and localization of gamma and neutron radiation sources. The high-sensitivity detector for gamma channel and for the neutron channel allow to effectively detect and quickly localize the source even of a rather small activity.

Combined model **PM1703MO-1** may be used for search and measurement gamma radiation.

New series Spectroscopic **PRD PM1704A** with gamma or gamma-neutron channels intend for search and identification radionuclide. This is a latest generation search instruments.

### 3. Identification category with combined survey meter and Radionuclide Identifier (RID)

#### **PM1401K-3 and PM1403.**



Both are the complex instruments for searching, localization and the express identification of the radioactive and nuclear materials. Instruments equipped GPS module. The joint characteristics of the instrument allows us to consider it as a mini-laboratory for the express radionuclide analysis under field conditions.

PM1401K/KM are energy saving – lifetime of the standard AA type battery is 1000 hours of continuous work, while PM1403 has rechargeable battery. It is provided with the hermetic shockproof housing. Nowadays it's the most small-sized and low-weighted commercially produced identifier with such technical possibilities.

For more information, please visit [www.pacific-tec.sg](http://www.pacific-tec.sg) **SST**



# SAFETY & SECURITY ASIA 2015 SINGAPORE

THE 14TH INTERNATIONAL SAFETY & SECURITY  
TECHNOLOGY & EQUIPMENT EXHIBITION

Marina Bay Sands, Singapore  
29 September - 1 October 2015  
[www.safetysecurityasia.com.sg](http://www.safetysecurityasia.com.sg)

## Safety & Security Asia 2015 Returns to Singapore! 10,000sqm exhibition area • 250 exhibitors • 9,000 visitors

### Join SSA 2015 today to:

- ✓ Expand your business contacts and networks!
- ✓ Market your products, technology and services to local and regional trade professionals!
- ✓ Keep abreast on industry trends and knowledge on all levels and areas of safety and security matters!

## Reach out to your target customers and potential business partners!

For Sales & Sponsorship Enquiries, please contact:  
[ssa@cems.com.sg](mailto:ssa@cems.com.sg) | [ssa\\_sponsorship@cems.com.sg](mailto:ssa_sponsorship@cems.com.sg)  
Tel: +65 6278 8666 | Fax: +65 6278 4077

Organiser



Conference & Exhibition  
Management Services  
Pte Ltd

Host



Security Systems  
Association of  
Singapore

Concurrent Conference



Security Industry  
Conference 2015

Concurrent Event



Merlion Awards  
2015

Concurrent Exhibitions



ArchXpo 2015  
The 2<sup>nd</sup> International Exhibition of  
Architecture & The Built Environment



WORK SAFE  
ASIA 2015  
THE 6<sup>th</sup> INTERNATIONAL WORKPLACE SAFETY  
TECHNOLOGY & EQUIPMENT EXHIBITION



# College in Tennessee Upgrades Existing Access Control System



**Built in 1871, Anderson Hall is currently undergoing a 7 million dollar renovation including the addition of a Galaxy controller and prox readers.**

## Background

Located near Knoxville in Maryville, Tennessee, Maryville College is a private four-year liberal arts college. Founded in 1819, the college is one of the fifty oldest in the United States and home to approximately 1,100 students.

## The Upgrade

In 2003, Fleenor Security Systems, an integrator providing custom security solutions to eastern Tennessee for three decades, upgraded the college's existing access control system with Galaxy Control Systems. Working first through the school's IT department and subsequently with physical plant and security staff, Fleenor was able to demonstrate

the benefits of evolving to System Galaxy.

The upgrade began with the conversion of all the school's controlled doors, encompassing several dorms and an office building. Initially Fleenor utilized the existing mag stripe readers, supporting these for three to four years, before upgrading them to prox readers. Over time, the access control system has been expanded to include both new buildings and the renovation of older buildings on the campus. A total of 12-13 buildings now make up the system, with certain larger buildings incorporating up to 15 readers. Six residence halls utilize a total of 10 prox readers, since several of the halls need multiple readers for lobbies, stairwells and elevators (students use physical keys for their individual dorm rooms).



**Maryville College is improving security on campus with Galaxy Control Systems hardware and software.**



**Gibson Hall, Maryville College's newest dormitory, is more secure with System Galaxy.**



**Students use university-issued ID as prox cards to enter the residence halls.**

**The Benefits**

One extremely convenient feature of the system is the use of student ID cards as prox cards; the cards are also used in the cafeteria and library. Each student's card enables access only to their his/her residence hall; staff

and maintenance personnel have access to all buildings. The ID cards are issued to students and staff by ResLife, which allocates dorm space before each school year. When a student graduates or leaves school for any reason, ResLife turns off permissions for the cards as well. Temporary deactivation for students leaving in the spring



**Each building on the campus including Fayerweather Hall has its own locking and unlocking schedule.**



**Each student's ID card enables access only to their own residence hall.**

and returning in the fall has been greatly simplified by the Galaxy software. Formerly, school personnel would have to purge hundreds of departing students from the database each spring, only to have to rebuild the database with many of the same names each fall. Now they can simply remove privileges from individual users by unchecking one box on screen, and restore privileges in the fall by checking the box again. This has resulted in a major time savings for Maryville personnel.

Access to each door on the campus is tailored to fit the needs of the students and provide optimum security. For example, for Sutton Hall, the science building, doors are kept open during the day. Evenings and weekends doors are locked, but the ID cards of students with on-going activities (including feeding and caring for salamanders and mice) are activated for the duration of their projects. At the Clayton Centre for the Arts, a new \$50 million building project, public areas are kept separate from the educational wing using access control permissions. As with the science hall, administration can activate individual students' cards so that they grant entry to the

arts building to rehearse or work on projects after hours. The Galaxy System software can be useful for purposes of identifying individuals who may have been involved in an incident. Jack Piepenbring, director of Safety and Security at Maryville College, said, "If there is an investigation and we want to find out who came into a residence hall or academic building during a certain period, I can look and see the names of people that use their access card to enter at what times at each particular building."

With each building having its own locking and unlocking schedule, there are many hours of the day that each door is meant to be locked. Residence halls all have prop alarms with sounders, so that if a door is kept open for longer than the setting allows, an alarm will alert the administration to monitor the situation and close the door.

According to the integrator, Phil Roberts of Fleenor Security Systems, the software is highly intuitive. "Someone with very limited knowledge of access control or System Galaxy can sit down and just scroll through the menu options and the drop downs and icons," he said. "Most people can figure out how to carry out whatever function they need it to do. With other software we've used, if you don't use it day in and day out it is very confusing; often the customer ends up getting frustrated and we have to send out tech support to guide them through it. System Galaxy is very intuitive."

"It's easy to deploy," Roberts continued. "I think the architecture is set up very well with the different two door to 16 door controllers. We found that the bandwidth requirements are very minimal as well. When we first started using those controllers on their network a lot of IT folks were very resistant to that. I remember one actually doing a test and reporting back that he couldn't even detect the network traffic because there was such a little amount of band-width required. So it's very network friendly."

With so many benefits and advantages, Maryville College plans to add more doors to their Galaxy system as the school continues to grow. **SST**



**Maryville College plans to continue adding to its Galaxy system at the scenic campus near Knoxville, Tennessee.**



Smart Home Int'l Conference & Exhibition 2015

YOUR  
**Wonderland**  
*TO SOURCE*  
**Technology Service Providers**  
OF  
**HOME SECURITY &  
SMART HOME**

The expo connects global smart home & security pros to:

- Taiwan's IT and networking leading makers, eg. D-Link, Sercomm, Inventec, Chicony, Quanta, Gemtek, Accton, Pegatron, etc.
- Asia's top 100 manufacturers of home cameras, smart locks, doorbells, sensors, gateways, etc.
- Full product selections from DIY home gadgets to project-based solutions

**April 28-30, 2015 | Taipei, Taiwan**

**Register Now! [www.secutech.com/smahome](http://www.secutech.com/smahome)**

Organizer  
Messe Frankfurt New Era Business Media Ltd.  
+886-2-26599080 SMA-pr@newera.messefrankfurt.com

Concurrent with

**secutech**

# Bosch Fire Alarm Systems Secure Shangri-La Hotel In Surabaya, Indonesia



## Background

The only luxury hotel in Surabaya, the Shangri-La is a sanctuary within a bustling city. Known for their focus on the security of their guests, Shangri-La Surabaya takes a professional and responsible approach for their security and safety planning.

## The Challenge

With a fire alarm system that was installed close to 20 years ago, Shangri-La, Surabaya recognized the need to install a new system to ensure the highest level of safety is provided to their guests. Bosch fire alarm systems that are installed in various Shangri-La properties globally were recommended by their headquarters.





## The Solution

After assessing the requirements of various locations within the hotel compound, from guest rooms to kitchens and machine rooms, installer, Pusaka Graha Teknik proposed a Bosch fire safety solution with customized specifications for each area. In the kitchen, gas, heat and smoke detectors were installed. In the guest rooms, dual optical smoke detectors and base sounders were installed.

A total of 2200 dual optical FAP-DO420 smoke detectors were installed across all 17 floors of the hotel. One of the best features of the Bosch fire detectors is its dual-ray technology that minimizes false alarms. This means relaxed holidays with minimal disruption to guests during their stay at Shangri-La. To control the whole system, two FPA

5000 modular fire panels, one FMR-5000 remote key were also installed. The FPA 5000 has a modular configuration and easily adapts to local circumstances and regulations. The FMR 5000 remote keypad offers decentralized operation of a control panel or control panel network so several panel controllers and remote keypads can be interconnected. So the fire safety system can be controlled both centrally and at different locations like in the car park compound and the main hotel building.

## The Results

The Bosch fire alarm system in Shangri-La Surabaya now provides optimal protection that safeguards life and property. It meets the current requirements of the hotel and is also scalable enough to expand according to their needs. **SST**

# Radiation Security In Airports In Belarus

## Background

Radiation security is a crucial part of the homeland security system of each country.

The Republic of Belarus has radiation detection equipment (radiation portal monitors and search instruments) on all road border crossing points which are integrated in a sole system for detection of and response to criminal or unauthorized acts involving nuclear or other radioactive material using Polimaster Nuclear Protection Network (NPNET).

The headquarters of the system with data processing centre is placed at the Border Control Committee.



In 2014 during the preparation to the Hockey World Cup Championship the authorities of the republic decided to add an additional element to the country's radiation security system and equip the national airport Minsk-2 with radiation detection equipment. Today the airport has operational complex radiation detection system with consists of three parts:

### 1. Primary detection of radioactive and nuclear materials is provided with Polimaster Pedestrian Portal Monitor PM5000P.

These highly sensitive devices contain one multipurpose gamma radiation detector module and are intended to monitor the passengers and luggage for presence of gamma radiation sources. The monitors are installed in Minsk-2 airport arrival and departure terminals as well as in VIP and SIP lounges. In addition PM5000P has been integrated into the baggage handling system



## 2. Localization of the source.

When the presence of a gamma radiation source is detected it is needed to figure out its exact location. In other words – to localize the gamma radiation source. For such purpose Polimaster gamma and neutron personal radiation detectors (PRDs) PM1703GNA has been supplied to be used by the responsible specialists.



## 3. Primary identification.

The next step is the identification of the detected radionuclides and their classification as medical, industrial, naturally occurring radioactive materials (NORM) and special nuclear materials (SNM). This allows specialist to determine the hazard level of the detected radioactive source and if needed secure the area around it to avoid the damage to the people's health. To solve this task Polimaster Spectroscopic PRD PM1704M is used.



The expert team arrives to investigate each case of detection of the presence of unauthorized radiation sources. The experts use specialized vehicle - PM6000 Mobile Laboratory® which is equipped with professional radiation detection and identification equipment and special containers for transportation of the detected radiation sources.



The results of work of the system are obvious: about 80 cases of detection of illicit radiation sources on Belarusian borders annually which would remain unrevealed without the national radiation monitoring system.



A Singapore-Indonesian delegation was recently trained at Polimaster facility while commissioning some portable radiation detection devices to be deployed in about 40 airports in Indonesia.

More information about Polimaster products and homeland security application can be found on: [www.polimaster.com](http://www.polimaster.com) or for S.E.Asia contacting the official distributor Pacific-Tec Scientific Pte Ltd, Singapore, +65 6342 1530 or [sales@pacific-tec.sg](mailto:sales@pacific-tec.sg) **SST**



# University In Texas Boosts Security To Keep Pace With Rapid Growth And Expansion

## Background

In 1899, the Texas Legislature authorized the formation of the Southwest Texas State Normal School, which opened in San Marcos four years later. At the time, the school's mission was to prepare Texas public school teachers, but over the years, it has undergone several expansions and name changes to reflect its evolution into the major multi-purpose university Texas State has become.

From its humble beginnings located in a single building, Texas State's original San Marcos campus has grown to cover a 485-acre campus that is home to 267 buildings, as

well as an additional 5,038 acres of recreational, instructional, farm and ranch land. The university added a second campus in Round Rock, which has grown from 15 temporary buildings to a 101-acre campus with state-of-the-art facilities.

## The Challenge

Texas State's student population has kept pace with its physical expansion, growing from 303 in 1903 to more than 35,546 in 2013 – marking the 16th consecutive year of enrolment growth for the university.

Anticipating major physical and population growth to continue into the future, Texas State reviewed its

security policies and determined the necessity of implementing electronic key control systems in sensitive areas. Based on its size, the understanding was that as many as 85 of these systems could potentially be needed as part of this initiative.

Texas State was faced with a particularly challenging growth-related issue in September 2013, as its freshman enrolment surged to more than 5,000. Like many universities, Texas State requires its freshmen to live on campus, which it sees as a tool for retention. That policy seems to be working, with approximately 80 per cent of freshmen living on campus technically returning for the following semester.



**The Solution**

To accommodate the growing ranks of on-campus residents, the university has pursued an aggressive construction campaign, building a new residence hall complex every two years to house approximately 600 additional students with plans to break ground this fall on a third new housing complex. In all, Texas State spent more than \$190 million on new or renovated buildings, with more construction planned into the foreseeable future.

With a large number of individuals requiring access to so many facilities, the university recognized that key management had the potential to become a high-risk issue and determined to become proactive in reducing that risk. Maintenance

staff members would often reach for the key to a particular building they needed to access, only to find it was already checked out. They would then be forced to go through the time-consuming – and frustrating – process of determining who had the key last and tracking that person down to retrieve it. The decision was made to update key management policies and practices to make them more efficient and effective.

To combat these problems and increase the security and effectiveness of its key management, Texas State charged its University Police Department and other stakeholders with undertaking an extensive review of the available options for key management systems on the market. This exhaustive process involved gathering research from printed

# TRUSTED. TESTED. **PROVEN.**

For more than 25 years, NABCO has provided proven solutions to manage, treat and contain explosive and CBRN threats for defense, homeland security and law enforcement agencies around the world.

Strengthen your capabilities with:

- ▶ Effective Containment & Sampling
- ▶ Unmatched Safety & Readiness
- ▶ Total Threat Management



For more information, please visit:  
TJ website at [www.tj.com.sg](http://www.tj.com.sg)  
or email [joachimseng@tj.com.sg](mailto:joachimseng@tj.com.sg)



**TOTAL CONTAINMENT VESSEL**  
Including WMD Upgrades



**MOBILE THERMAL TREATMENT UNIT**  
Ammunition treatment with blast containment & filtration



**EOD GRABBER POLE**  
Lightweight with no electronic components



**SUSPECT LUGGAGE AND PARCEL CONTAINMENT VESSEL**  
Minimize disruption in screening areas



**TOTAL CONTAINMENT EXPLOSIVE MAGAZINE**  
Ideal for storage of breaching/SWAT ready kits



materials and online research, having discussions with current customers of the various vendors, and listening to on-site presentations from the companies under consideration. At the conclusion of its review of key control cabinets and systems, Texas State chose KeyWatcher Touch from Morse Watchmans.

The main factors that led Texas State to choose KeyWatcher Touch systems were its robust feature set and competitive pricing. The school was also impressed by Morse Watchmans' receptiveness to its specific needs – a six-digit user ID, for example – and ability to implement changes quickly. Access to support was also a main consideration, so Texas State appreciated that the system was produced domestically by a company with a 130-year history.

Of the KeyWatcher systems to be



implemented, the largest number were to be deployed for Texas State's Department of Housing and Residential Life, which provides housing and services to approximately 7,000 residents in 25 facilities. The department also operates a facilities service group consisting of 110 full-time employees and a staff of 170 building paraprofessionals.

### The Benefits

Because of the personnel changes the department experiences on an annual basis, the system's enterprise management capability has been a valuable feature, as have its robust reporting capabilities, said Kyle Estes, Texas State's associate director of Housing Facilities Services. Having keys available in each residence hall for use by maintenance staff has made the department more efficient and reduced their liability; staff no longer need to carry multiple master keys across campus for different buildings.

"Because the system automatically generates a log of who has each key, we've been able to establish much better employee accountability for key usage," Estes said. "The ability to set a maximum duration that each key can be checked out and to receive alarms when that limit is exceeded has eliminated the problem of having keys unnecessarily checked out and as a result inaccessible when someone needs them."

All KeyWatcher Touch systems deployed at Texas State are

connected to the university's network and interface with its card access and email systems. The ease of use and centralized management features provided by the system's network capabilities have streamlined the once cumbersome process of generating reports and reviewing incidents. One particular feature, the ability to access the system from anywhere, has made the system even more effective, Estes said.

As one of the earliest adopters of KeyWatcher Touch, the Housing and Facilities Department served as a test case of sorts for the system. Based on the success the department has had, combined with its continued rapid growth and expansion, Texas State University's 85-system implementation is on-going. As more systems are added, expansion will be a consideration moving forward, but Estes doesn't anticipate that being a problem. **SST**



# secutech

## VIETNAM

August 18-20, 2015  
Saigon Exhibition & Convention Center (SECC)  
Ho Chi Minh City, Vietnam

### The 8th International Security & Fire Safety Exhibition & Conference

[www.secutechvietnam.com](http://www.secutechvietnam.com)

#### Global Contact

Messe Frankfurt New Era Business Media Ltd  
Trade Fair Sales Dept.

Ms Echo Lin, Manager (ext. 761)

Ms Eva Tsai, Project Manager (ext. 668)

Tel: +886 2 2659 9080

E-mail: [stvn@newera.messefrankfurt.com](mailto:stvn@newera.messefrankfurt.com)



 messe frankfurt

## Entrance / Entrada 2



# Qylur Security Systems Implements Its Qylatron™ Entry Experience Solution For Security Screening At The 2014 FIFA World Cup™ In Brazil

## Background

Qylur Security Systems, an intelligent systems technology company based in Silicon Valley, recently deployed its Qylatron™ Entry Experience Solution for security screening at the 2014 FIFA World Cup™ held at the Arena da Baixada stadium in Curitiba, Brazil. The newly renovated Parana-state venue is one of the most modern and best-appointed soccer stadiums in Brazil, with a capacity of 43,900. The World Cup mega event followed a strenuous effort in Brazil to revamp civil infrastructure as well as stadium capacity and quality. Among these were heavy investments in security technologies and





GENERAL CASE STUDIES

equipment being implemented around the cities and the stadiums.

**The Qylatron entry experience solution**

The Qylatron Entry Experience Solution, which combines guest greeting, access control and multi-threat screening, was publicly launched in 2013 to intense global interest. Elevating the whole entry experience, the solution benefits address branding and marketing at the entry point as well as customer service, operational efficiency and security screening. The Qylatron is designed for

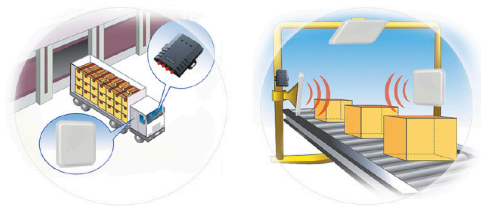
sports and entertainment venues, monuments, airports and public transportation hubs.

The most advanced entry screening solution for bags and IDs on the market, The Qylatron comprises of five screening pods operating concurrently. Leveraging technologies such as intelligent machine learning and fused multi-sensors, the solution tackles the ever-changing face of security threats. At the World Cup The Qylatron was used to screen the bags of thousands of fans and detect threats as well as prohibited items, allowing both automated and collaborative detection.

**PROMAG™**

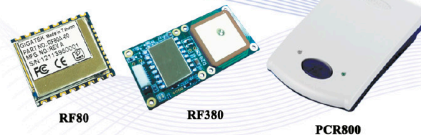


**A 4-Port Ultra High Frequency RFID Reader**



Promag's UHF RFID Reader is ideal for inventory control, cargo tracking, warehouse management, shop floor management, class management and other applications.

It has a range of 5 meters with ports to connect 4 matching ANT800 antennas.





The local operating company of the World Cup games in Curitiba contracted Qylur to improve the security-screening experience for thousands of fans attending the group play matches at Arena da Baixada. With its self-service operation concept, the Qylatron brought about a solution that went well beyond what the standard requirements were for entry screening. It enabled staff to handle a large flow of incoming fans, reliably detect threats, stop prohibited items per the stadium policy, all while maintaining the festive atmosphere and supporting the entertainment and welcoming aspect of an entrance to a world class event.

### The Benefits

“The Qylatron automated detection system not only provided highly reliable bag screening, it also put fans ‘back in charge’ of their own belongings as the nature of the Qylatron allowed fans to place their items into the honeycomb shaped device - that conducts five concurrent bag scans - and expedite their entry into the stadium,” said Hugo Ramos, director for Agogo Marketing Promocional. “Rather than having stadium officials hand search personal bags, the Qylatron protects the personal dignity of fans and preserves the entertaining aspects of mass sporting events like the World Cup.

The process of installing and providing the equipment for the stadiums, from arrival to the stadium through deployment, was speedy and straightforward, with the local staff helpful and actively assisting. Some tasks were



even easier to accomplish than anticipated: Physical installation, electrical connection, availability of security personnel for training, weather protection setup, as well as flexibility of stadium operations staff in responding to suggestions for layout and signage improvements.

In addition to ensuring an expanded inflow of fans, the Qylatron – with its unique convenience features designed into the solution – also made it the top choice for servicing fans requiring special assistance due to disabilities, as well as seniors. The colorful front and back panels of the Qylatron made for an attractive showpiece that helped the stadium stand out at the entry point, and also raised the overall level of fan enjoyment as they got to experience the security checkpoint of the future. Fans were fascinated with the Qylatron and many stopped to take photos and “selfies” with the striking entry system.

“We heard from dozens of soccer fans at the World Cup about how much fun they had personally interacting with the Qylatron. This is especially gratifying as it validates the core principle of why I founded Qylur – to preserve human liberty while offering the most advanced security-screening technology in the industry,” said Lisa Dolev, ceo and founder of Qylur. “We have made a major impression at arguably the most high-profile sporting event in the world, and have shown the transformation we are bringing to venue security and guest experience. We look forward to more commercial deployments at large public venues this year.”

Following the successful implementation at the 2014 World Cup, similar mega events in the future have a model to follow, with Qylur suggesting some ideas for taking up a few notches. Mega events can work with Qylur ahead of deployment time to take advantage of the many advanced features of the Qylatron, including: connection to customer ticketing and other security systems in the perimeter for a tighter, more comprehensive solution; integration with the command post; and personalizing messages for guests to enhance guest experience.

Feedback from the inviting company was not limited to the event itself. “We look forward to working with Qylur again as we set a new standard for fan experiences around the world,” said Ramos. **SSST**



**Operation Shield Video Integration Center (VIC)**

# Integration Of Video Surveillance Systems At Atlanta's Schools And Police Enhances Public Safety

## Background

Launched in 2007, Operation Shield is an initiative of the Atlanta Police Foundation and the Atlanta Police Department (APD) to generate effective communication between the APD and both the public and private sectors and create a force multiplier for crime prevention and emergency preparedness. Through the Operation Shield Video Integration Centre (VIC), APD officers are able to use state-of-the-art software to monitor video feeds from both public and private sector cameras. The video surveillance network system is an open platform, allowing existing cameras to be integrated and monitored at one location.

Among the organizations whose video surveillance systems are tied in to the VIC are the Georgia

Aquarium, the CNN Centre and Hartsfield Jackson International Airport. Also on this list is the Atlanta Public School System, which has integrated its video surveillance systems as part of an overall process of gradually upgrading from analog to IP video technologies over time.

## Enhancing Emergency Preparedness

A main driver behind integrating the schools' video surveillance systems into the police department's integration centre – and a driver for Operation Shield as a whole – has



**Application photo of surveillance cameras at schools.**



**Application photo of surveillance cameras at schools.**

been to enhance emergency preparedness by enabling police, fire and other emergency professionals to better assess, prepare, respond and communicate prior to arriving at the scene of an incident. The enhanced situational awareness these integrated video systems provide is made possible using OnSSI's Ocularis video-centric PSIM (physical security information management) software. As a result, the school system and police department benefit from an efficient, cost-effective IP video surveillance solution that provides police with real-time access to video feeds directly from more than 150 of Atlanta's public schools in the event of an incident or event. "By integrating the video surveillance systems from the public schools with the police department's system, we've significantly enhanced safety and security at Atlanta schools," said Tony Hunter, chief information officer for Atlanta Public Schools.

When a predetermined event triggers an alarm at one of the schools whose video surveillance systems have been integrated, operators in the APS monitoring centre receive an alert and notify the Atlanta PD. Video from the school is pulled up in the integration centre, and officers there are able to view live and review recorded video from cameras in the zone within the school where the alarm was triggered to assess the situation and determine what, if any, response is needed. In the event of an emergency situation, dispatchers can continually deliver up-to-the-minute updates based on live video to first responders to provide immediate situational awareness to assist in the response.

### The Benefits

"The ability to relay real-time situational awareness about what is going on inside a school to those in the field not only improves the effectiveness of the response but also ensures the safety of both first responders and those who are inside the school," says Lt. Leanne Browning of the Atlanta Police Department. "The added capability to push live video to our mobile command vehicle and allow those in the field to control the cameras and move them as needed is an even more powerful tool for mitigating the situation as quickly and safely as possible."

The system has also proven effective in non-emergency situations, as the school system and police department have been able to capture video of break-ins and identify individuals involved in incidents. The system has also been credited with solving an on-going problem at Atlanta's public schools. Prior to implementing the



system, several schools faced a number of copper thefts from schools' HVAC systems.

"The mere presence of cameras with motion detection capabilities and increased lighting in previously vulnerable areas has reduced the number of thefts dramatically," Hunter said.

"Privacy is of the utmost importance to us, and the attitude has always been that our interaction with the APS system should only be in the case of a dangerous situation or to help them out if a crime has occurred," Browning said. "As far as monitoring goes, if an emergency arises the VIC will be alerted and officers will begin to access the cameras at the location where the incident is taking place."

So far, roughly 1,000 analog cameras have been upgraded and integrated into the APD system, but there's still more work to be done. In order to maintain the budget-friendly nature of its system-wide analog-to-IP upgrade, APS has been converting a school or two at a time.



**Lt. Leanne Browning and Dave Wilkinson, CEO of the Atlanta Police Foundation**

The ultimate goal, Hunter says, is to get all schools in the APS upgraded and integrate those systems into the APD system. An additional goal is to integrate alarms directly into the VIC as well as to the APS monitoring centre.

"Right now, we already have the capability to view video from the schools in our centre, but the alarm function is not integrated with the police department side yet. Where we'd like to go is to integrate those alarms in such a way that if an alarm goes off in one school, the video from the camera automatically pops up in the integration centre for an

officer to review," Hunter says.

"The issue of safety in all schools is one that I consider to be very important", said Olufemi Aina, executive director, IT Infrastructure & Production Services, Atlanta Public Schools. "The fact that the Police Department 911 centre now has the ability to quickly access our video cameras to provide tactical support to officers real-time (in an emergency) is something that I think all K12 schools should consider or aspire to achieve. Being on the front seat of an initiative that impacts our kids in such a manner is personally satisfying."



**From top left to right: Moe Ismail – IT Director for APD; Lt. LeAnne Browning  
From bottom left to right: Officer Stephanie Brown; Officer Crystal Johnson; Officer Charles Schiffbauer; Officer A. D. Williams**

For the City of Atlanta, implementation of the Ocularis solution across so many diverse organizations within the municipality helps to create a collaborative environment which enables law enforcement to improve awareness and response to unfolding events. Such a cooperative approach to security creates a new and evolving model for many other municipalities, organizations and enterprises. By enabling numerous entities to join together through the use of video surveillance, the Operation Shield initiative is promoting the concept of a connected community where strength is amplified through the participation of many. This model is certain to continue to gain traction as successful case histories continue to demonstrate its utility. *SST*

# Indonesian Bank Implements Synergis IP Access Control System To Restrict Access To Vulnerable Areas And Extends BRIZZI One-Card Application To Include Employee Access

## Background

Bank of Rakyat Indonesia (BRI) is one of the largest government owned banks in Indonesia. Incorporated in 1895, BRI was originally established in Purwokerto, Central Java, as a financial institution serving the people of Indonesian nationality. Today, BRI has over 10,000 outlets serving 30 million retail clients and a growing corporate clientele. BRI's headquarters are located in Jakarta and serve as the centre of their national operations in a state-of-the-art 35-story building.

## The Challenge

As one of Indonesia's largest banks, the organization places a very high importance on security; not only to ensure its proprietary business information stays safe but also to protect employees and visiting clients. With the aim of enhancing its headquarter security, BRI was looking to expand its physical access control system.

While server rooms were restricted with a stand-alone access control system, the technology was extremely basic and could not accommodate their plans to implement access control enterprise-wide. BRI also wanted a more advanced and



feature-rich IP-based access control system to protect main entrances and exits and other sensitive areas. An open-architecture system was also important to accommodate device selection and other system integrations in the future.

## The Solution

With the help of local integrator, Golden Solution Indonesia, BRI chose Genetec Security Center, the unified security platform with Synergis IP access control. According to Yusuf, head of Security at BRI, "Security Center met

all of our needs in terms of system functionalities within our budget. It also gave us the flexibility to leverage advanced card technology for a unique one-card application with our BRIZZI payment card."

## One-Card BRIZZI application showcases innovation and simplicity

Today, Security Center manages 114 doors throughout BRI headquarters, securing access to server room areas, offices and VIP guest locations. HID Global VertX® controllers and readers were chosen to secure all

doors. The Synergis IP access control system is also managing 12 tripod barrier gates at the main entrances of the headquarters.

Since all employees and some customers already carry the BRIZZI payment card from BRI, the bank wanted to leverage the flexibility of the system and the hardware to use this card for access credentials as well. Today, the 32-bit smartcard not only serves as a pre-paid debit card but is also used by employees to access various areas of the office building.

“The BRIZZI card is designed to serve multiple functions including a prepaid debit card for purchases and for road tolls from merchants who are affiliated with the bank,”

said Yusuf. “By choosing Synergis and HID, we were able to add the access control application within our headquarters. This makes it easier for our employees who now only have to carry one card and this also helps us build on this bank-affiliated innovation.”

**Granular access privileges and visitor management secure vulnerable areas**

In order to ensure employees only have access to the areas and floors that are necessary to their functions, BRI was able to create access control groups and pre-assign specific access control privileges to each group for easy cardholder enrolment. Special after-hour privileges are provided

to senior-level employees who may require access beyond regular office hours.

The ability to pull detailed access control reports from Synergis has been instrumental to the security team at BRIZZI. During any active investigations, access control event reports provide a clearer timeline of when events might have occurred. Creating monthly reports on visitor access, event logs and system health status have become routine for the BRI security team.

For clients and business affiliates who visit the headquarters regularly, the built-in Visitor Management feature in Synergis has facilitated the check-in and checkout process. “The enrolment process for our visitors is

# RAINTAG<sup>®</sup>

A TRULY HANDFREE AVI SYSTEM

**A new generation of reader, Tag and Tag Holder**

A completely new generation of RAIN TAG long-range RFID reader, Tag and Tag Holder is now being introduced to the 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.



**NEW GENERATION**

**SECUTECH EXHIBITION**  
 28 - 30 APRIL 2015 TAIPEI, TAIWAN  
 TAIPEI NANGANG EXHIBITION CENTER, TAIWAN.  
 BOOTH NUMBER : 3518



**RAINTAG READER**



**RAINTAG TRANSPONDER**



**RAINTAG HOLDER**



**DUAL TECHNOLOGY WITH INTEGRATED MIFARE OR DESFIRE. (one card solution)**



**READING RANGE OF UP TO 5 METERS. (with auto tuning)**



**BETTER PENETRATION THROUGH VEHICLE'S WINDOW TINTING. (truly handfree)**



[sales@eamsc.com](mailto:sales@eamsc.com)



[www.eamsc.com](http://www.eamsc.com)



+603 8994 9722



quick and easy, and having the ability to assign access control rights ensures our most vulnerable areas will always be secure.”

## Growing into the future without restrictions

Beyond ensuring BRI headquarters are safe from any potential vulnerabilities; the security department is exploring the use of Synergis for a time and attendance application, which will involve multiple departments. Integrations with video surveillance and fire detection systems are also on the horizon for BRI. Since Security Center is a unified platform, BRI is looking forward to managing all security and business systems from in one easy-to-use solution. Syncing events and alarms with video will further simplify investigations for the security team.

BRI is also looking to upgrade access control at other locations and centrally manage these sites from the main headquarters by implementing the Genetec Federation feature. “Synergis IP access control is a very effective



product and has met all of our needs in helping us secure our headquarters. We look forward to expanding on the system by adding more advanced functionality, system integrations and other sites. The Genetec solution has given us the freedom to grow, without restrictions, so we know our investment is protected,” concluded Yusuf.

## Infrastructure at a glance

Synergis is managing 114 doors throughout the BRI headquarter building and 12 tripod turnstiles within the lobby. 126 HID Global VertX® V100 Door/Reader Interface are installed with five HID Global VertX V1000 controllers. Security and IT departments manage and maintain the system from a central location within the building. **SST**

# 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.

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.

'Like' us on facebook!

**bathroom + kitchen**

WE ALSO PUBLISH

**building**

**SOUTH EAST ASIA CONSTRUCTION**

**lighting today**

**TRADE LINK MEDIA PTE LTD**

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

# Thermal Technology

Article Courtesy of  
Axis Communications

**T**hermal technology enables security cameras to see in the dark. Patrik Anderson, director business development transportation, at Axis Communications looks at how this technology can help public transit authorities keep the transit system safe and secure.

All transport networks the world over are notoriously difficult to police. By their very nature they are huge and all encompassing. Transport for London, for example, covers an area of around 600 square miles. That is a huge area in which London's burgeoning metal theft industry can practise its dark arts. The New York City subway offers of 842 miles of track onto which graffiti artists can trespass. Sweden has 13,000 kilometres of public transport that it needs to protect from potential saboteurs who might envy the Swedish reputation for efficiency.

## As darkness falls...

One of the problems for the security enforcers of any transportation system is that many incidents take place under the cover of darkness. Even the highest resolution digital cameras will struggle to provide images from dimly lit corners of a network. The cost of illuminating every nook and cranny of every station, depot and goods yard makes night lighting unfeasible, not to mention environmentally unacceptable. Every bus, tram or train stop, or junction box offers a target for metal theft or vandalism.

The types of incidents that take place in the shadows are some of the most disruptive to the service and can pose real danger to passengers and workers. In Sydney, graffiti vandals are deliberately tripping rail signals and stopping commuter trains in order to gain kudos for a riskily sprayed tag. This is clearly dangerous but passengers also feel less secure in a heavily sprayed or vandalised system.

Severe delays are caused by metal theft. In the UK passengers on trains were delayed by over 6,000 hours in 2010. As well as the disruption there is the escalating cost. Network Rail in the UK spent £16.5 million last year in cable replacement and compensation to train operators. The problem is expected to cost around £20 million by 2014 if it continues at the current rate. These sorts of incidents not only cause delays but may also cause serious accidents.

Great danger is present on high speed rail networks due to the fact that even a small incident can have potentially devastating consequences when it occurs at such high speed. These networks require a much higher level of security, day and night.

### How do thermal cameras work?

One of the most powerful tools for detecting these types of incidents is thermal imaging. Like any other camera, a thermal camera collects electromagnetic radiation which is formed into an image. However the thermal camera is able to function outside the range of visible light, functioning in total darkness. This is possible because all objects emit a certain amount of infrared radiation as a result of their temperature. This is true even in very cold conditions, such as an arctic setting in winter.

The camera detects this radiation and displays it as a black and white image. This is typically digitally coloured with red and white representing objects with higher temperatures, such as people or running vehicles. The hotter any object becomes, the more infrared radiation it emits. Not only do these cameras perform well in total darkness, they also perform well in extremes of weather or environment such as dust, haze, rain, snow and smoke.

### What goes on in the shadows?

A thermal camera is able to detect a person from a kilometre away. Axis thermal cameras operate across an IP network which means that the images can be viewed remotely and in real-time. An operator in a security control room can easily see what's going on, regardless of the time of day and the weather and make a decision on how to deal with a potential problem. These cameras come equipped with applications such as motion sensors and tripwires. Once the camera senses that something is not right, it will send an automatic alert across the network so that the operator is immediately aware of the incident,

can view it live and choose the right response.

If a person approaches the rail tracks intent on stealing some cabling or tagging a train, their entry is noted and the security team can respond in a timely fashion. The cameras are tamper resistant, making it difficult for graffiti artists to obscure their view.

Thermal cameras are perfect for deployment in dark tunnels, for perimeter surveillance, activity along the tracks and in deserted areas at night that are prime targets for vandals. The danger in some of these cases may not only be that of disruption of service or a costly mess to clean up. Approaching live tracks can pose great danger to the vandal or thief.

Thermal cameras are particularly useful when placed along a high speed rail network. Operators can view potential threats – whether they may be cattle straying on to the tracks or people or vehicles at level crossings – and alert the security centre and even the train driver, allowing them to avert potential disaster. Sometimes the cameras are intelligent enough to manage their operators. Many of Axis' partners offer software with, for example, pre-defined action lists, so that security officers can be automatically instructed how to act.

### An affordable means to keep the network safe and secure

Thermal imaging sounds like it might be complicated and expensive? Not necessarily. Thermal imaging is becoming cheaper and also a more integral part of video surveillance systems. By using thermal cameras, transit authorities can make savings on other more expensive means of

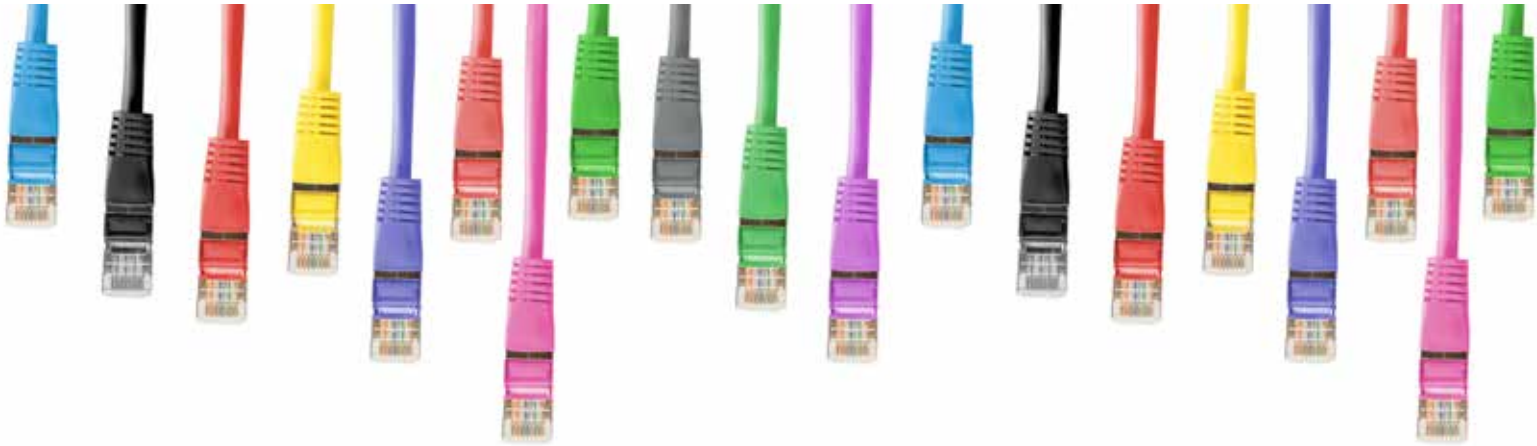
surveillance such as helicopters and security patrols.

Surveillance cameras can be enormously sophisticated, working in any light conditions, and highly intelligent and yet enormously durable. They can resist all kinds of weather challenges and will function at both extremes of the temperature scale. This makes them ideal for infrastructure monitoring and areas that are prone to vandalism and graffiti.

In transport, Axis's thermal technology gives management the opportunity to avoid danger, disruptions to service and helps save money on costly clean ups.

For more information, please visit [www.axis.com](http://www.axis.com) **SST**





# DELIVERING ENHANCED SECURITY WITH HI-POE

**P**ower over Ethernet (PoE) continues to impact industry mind-sets on how system designers and installers think about deploying power for professional security applications. Rather than specifying conventional power supplies, integrators are increasingly using PoE network switches or incorporating PoE midspan injectors, which inject power into an Ethernet cable after it leaves the switch and before it reaches the connected edge devices.

When working with PoE, it's easy to underestimate power consumption of the system's edge devices. That's why it is important that the power sourcing equipment matches the specifications of each powdered device.

There are presently two established standards for PoE: IEEE 802.3af (PoE) and IEEE 802.3at (PoE+). PoE provides 15 watts with 12.95 watts available to power network cameras and other devices over either the data pairs (mode A) or spare pairs (mode B), depending on the design of the power source. PoE+ provides up to 30 watts over either mode with 25.5 watts available to provide the extra power needed to operate PTZ cameras with heater/blowers for outdoor application, as well as other devices.

While these are the only official standards presently, there is also a third PoE option, referred to as Hi-PoE that provides even more power to be delivered over the same infrastructure used for PoE and PoE+. Because devices can receive power in either mode A or mode B, special midspan injectors make Hi-PoE possible by allowing



By Ronnie Pennington,  
National Accounts Manager,  
Altronix Corporation

transmission using both methods and deliver 60 watts – twice the capacity of PoE+.

Additionally, Hi-PoE (60W) can be delivered to the edge and distributed to multiple devices using solutions such as the NetWay4ES PoE switch from Altronix.

This increased power has several positive implications for our industry. With the additional power available from Hi-PoE, surveillance cameras and other edge devices can now incorporate more features and functions with increased performance.

Outdoor installations are the most ideal uses for Hi-PoE today. In general, a standard camera with a heater/blower will operate well using PoE+. However, in extreme environments where the temperature may get much higher or lower than typical locations, more power is required to keep the camera warm or cool enough to function properly. With PoE+, a separate power supply with a dedicated cable – and the added cost of installing it – would be needed to operate the larger, more powerful heaters required for extreme conditions. With double the wattage available versus PoE+, Hi-PoE can easily supply the power required by heater/blowers.

Another practical use for Hi-PoE is to provide enhanced infrared (IR) lighting. Naturally, the size and intensity of an IR illuminator built into a camera is restricted by the available power, making it challenging to integrate high-intensity IR illumination with PoE and PoE+. The only option in these cases would be an external illuminator with a separate power source. Hi-PoE can eliminate that restriction, allowing manufacturers to incorporate higher-intensity IR illuminators into their cameras without fear of compromising performance. Because more IR illumination allows a camera to see better and further in low-light or total darkness, Hi-PoE can theoretically increase a camera's performance and effectiveness without additional infrastructure and equipment costs.

There are a number of midspan injectors on the market that provide Hi-PoE functionality, many of which are manufactured for indoor use, meaning they simply will not perform adequately outdoors. In order to successfully deploy Hi-PoE solutions in outdoor environments,

it's crucial to use an injector that is designed specifically to withstand the elements and provide adequate power.

Another important thing to note about Hi-PoE is that while the total output is technically 60 watts, this is primarily delivered using two separate 30-watt PoE+ feeds transmitted from a single port. The main reason this method is used is because IEEE currently has no established standard for the technology. So while manufacturers know that "pure" Hi-PoE works, they may be cautious about implementing it into their devices without a standard in place. Instead, they typically are adhering to existing standards by delivering 60-watt PoE using two PoE+ feeds.

As a result of this methodology, even though a specification may say 60 watts – which is 100 per cent accurate – it's important to account for voltage drop along CAT5E or CAT6 applying distance limitations associated with the PoE+ standard.

As we've seen in the industry in recent years, there are myriad security solutions that take advantage of PoE and PoE+, including video surveillance, access control, infrared illumination and more. Hi-PoE enables manufacturers to increase the capabilities of their cameras without the added cost of extra power sources and the cabling to support them. These additional functions enable more powerful, effective and high-performance security solutions. Once it becomes a recognized standard, Hi-PoE will see more widespread adoption allowing end users to reap the benefits of increased power and enhanced security without extra costs.

For more information, please visit [www.alronix.com](http://www.alronix.com) **SST**



# Best Practices For Key Control And Asset Management Systems



By: Fernando Pires, VP,  
Sales and Marketing,  
Morse Watchmans

**K**ey control and asset management technology is a reliable and cost effective method to improve security by ensuring that facility keys are properly managed with regard to access, storage and tracking. Key management systems can reinforce access control policies that are already in place and can also help to reduce the costs associated with lost keys or unmanaged access.

## Technology inside the box

Tamper-proof systems are designed so that only authorized users – using pre-programmed PIN codes, access cards or biometrics – can access keys, while on-board advanced technology automatically records all access activity.

A basic system typically consists of a computerized key storage cabinet, a key locking mechanism and a tracking system. From this basic package, several options and design variations can be added to customize the solution and help protect the investment as needs grow and change. For networked installations, management software can also be included in the system. Permission levels can be established for each user and data can be monitored

from any desktop connected to the network. Additionally, the software can run activity reports, sort based on different criteria and view and print reports, among other uses.

Today's key control and management systems have become a higher-level management tool for effectively addressing the safety and security of building occupants and the security of the building assets. Knowing the identity of authorized key holders, which keys they have in their possession or have access to and when they were used are all essential pieces of information needed to help ensure a safe and secure environment. Further, technological developments and open protocols have made it possible to integrate key control with access control and other security systems as part of a facility's networked security system. Now, a user who has taken a specific key can be denied egress from the facility until the key is returned – and selected management can be alerted via email if a key has not been returned on time.

## Easy implementation

Implementing a key control and management system is a straightforward process that involves a few basic steps:

take inventory of the facility to identify all access points and installed locks; ascertain the operational needs of employees as well as of others who may need access to the facility (e.g., service repair or cleaning crew); and establish a policy with easy to follow procedures for effective key control and management.

Having the ability to add on the exact components you need, or change modules where and when you need, helps protect your investment. This way you will avoid having to rip and replace an entire key control and asset management system because the current system cannot accommodate lockers for securing cell phones or other valuable items, or does not integrate with a new access control system that's just been installed.

If a networked key control system is planned, a review of the network topology will reveal any configuration and performance alterations that may need to be applied. Compatibility with other security systems should also be reviewed to maximize interoperability for more comprehensive integrated operations.

A simple but strong set of guidelines for administration and use of the key control system will help to define areas of responsibility and enable better control of the keys.

### Setting up your system

Configuring a key control solution is as easy as identifying needs and then building the system with modular components that meet those needs. Choices for modules may include key storage modules, lockers, credit card modules or simply blank modules (to be filled at a later time). The combination of modules is entirely up to the user, providing the ability to customize and also change the system



to meet growth or other specific needs.

Key control and asset management systems can also be configured with additional security features to help enhance the integrity of the system. For example, where protection of asset lockers itself is mission-critical, installation of a remote access device provides an additional layer of protection by enabling the locker system to be placed in a secure room. A second individual's PIN input and verification are then required in order for an authorized employee to access the contents of a locker.

Access to the key and asset cabinets can also be customized, with options including a built-in keypad, biometrics such as a fingerprint reader and a magnetic or proximity card reader. Systems that integrate card readers for access can often utilize the access control cards that are already in use throughout the organization, making the system implementation easier and

more convenient. Changes to an individual's access authorization can be made instantly by program administrators. The optional user interfaces can be integrated directly into the cabinet for easy accessibility or they may be separate. In either design, users can access only the stored items that they have been authorized to remove or return.

### Integration potential

A key control and asset management solution can usually be integrated with the existing physical security system without costly upgrades or overhauls. For example, asset control systems featuring alarm and relay inputs/outputs can be integrated with existing video surveillance systems for additional security measures. Ethernet and USB capability help to ensure system compatibility and integration. Key management systems can also integrate with a facility's existing identification cards. The compatibility with other security

systems and network access offer an added richness and usability and integration with existing databases saves time and money. Ethernet or TCP/IP communications ports allow ease of use for direct connectivity to printers or other devices, or networked connectivity via Ethernet.

### Management software tracks and analyses

One of the enabling factors for successful key control implementation is the ability to manage all programming, remote functions and reports for the system with a software-driven solution. Similar in concept to popular access control systems, the PC-based package of key management software helps make day-to-day operations and activities easier and more fluid. Users can be added from a global list and all specific settings (added or modified) will be automatically synchronized across the system. Profiles can be assigned for improved user control, and administrative



access levels have various options to be tailored to specific needs such as reports only or alarms only.

Built-in schedulers can be programmed to automatically download all data to a secure PC as required by the user. With this capability, management can better sort and analyse information to

maintain maximum control of access and security issues.

Scheduled email reports, detailing what keys are in or out and who has/had them, keeps security management informed and up to date. If an incident occurs, management can query the system for specific details. Together with the audit data from an access control system, a key control system's reporting system provides a strong evidence trail.

### Key control goes mobile

Advanced communication capabilities also enable key control systems to be monitored and administered remotely from PDAs or smartphones as well as from the desktop. Authorized personnel can check key status, cancel an alarm, and even remotely disable user access. These features, along with multiple others, provide the mobile user with another level of convenience and control when it comes to key control management.

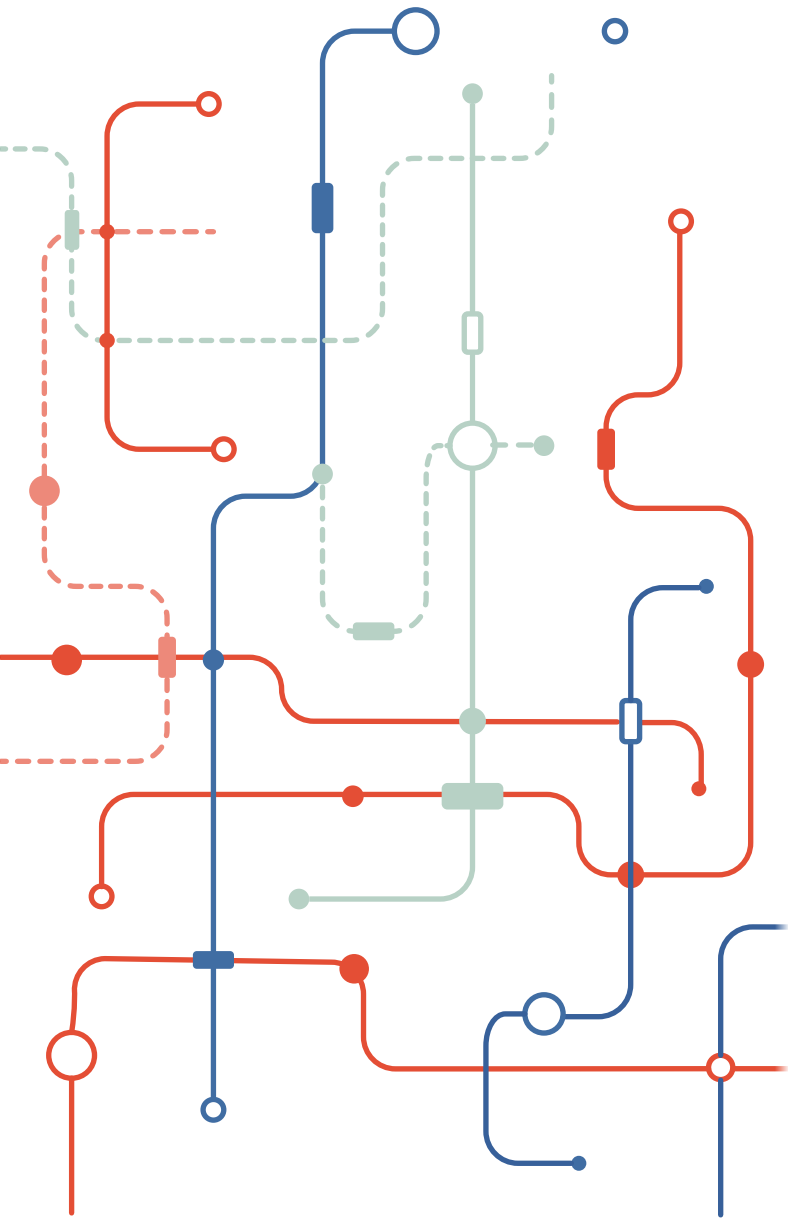
For more information, please visit [www.morsewatchmens.com](http://www.morsewatchmens.com) **ESST**





# WHY IP SURVEILLANCE COULD BE THE CHANNEL'S NEXT **BIG** THING

Article Courtesy of Axis Communications



## The surveillance market

The surveillance market was never really considered a major cash cow for the IT channel. But as more and more organizations adopt IP- rather than traditional analog-based cameras -- and those cameras, as a result, become more intertwined with corporate networks than ever before -- all of that is starting to change, according to network camera manufacturer Axis Communications.

"When you look at the surveillance market, in general, its kind of the last to the party in terms of going digital," said James Marcella, director of technical services at Axis. "We had Voice-over-IP, our telephones have moved over to the network, and just about every other aspect of our corporate and personal lives are on the network. Surveillance was really late to that party."

But now, Marcella said, Axis is seeing an uptick in IP or network camera adoption, thanks largely to these cameras having better resolution, built-in analytics engines and other next-generation features their analog-based counterparts can't deliver.

Industry numbers support that claim. According to analyst firm Research and Markets, the IP or network video surveillance market is projected to grow nearly fourfold in terms of overall revenue by the end of 2018, representing a CAGR of around 25 per cent throughout the next five years.

Axis itself said the IP video surveillance market today represents a \$12.5 billion opportunity, with that figure expected to double by 2017.

## The transition from Analog to IP

And as this transition from analog to IP continues to crash over the surveillance market, Marcella said many organizations are looking to the IT channel, rather than legacy physical security providers, to help install and provide services around these next-generation devices. This, he said, is because IP cameras are essentially another node on the network, meaning the expertise of IT solution providers, especially those with roots in infrastructure, is more valuable than ever.

Marcella likened this transition, and the opportunities it presents to the channel, to the widespread emergence of VoIP.

"The early integrators who jumped onto that [VoIP] bandwagon made a lot of money off of it, just like the early integrators jumping on this [transition] are doing very well," Marcella told CRN.

Axis, headquartered in Sweden, sells 100 per cent through the channel with roughly 55,000 partners worldwide. Marcella said Axis' channel is starting to employ a greater mix of IT solution providers in light of this IP adoption, and that he hopes the trend continues. Not only do IT resellers have the networking know-how needed to install and maintain IP cameras, Marcella said, but they are more familiar with things like recurring revenue streams and annual service contracts -- two items that come with most IP camera sales -- than legacy security installers.

"We are really starting to embrace the IT channel to drive this transition," Marcella said.

Ned Fasullo, chief marketing officer at Global Data Systems, a Lafayette, La.-based solution provider and Axis partner, said he is seeing "enormous growth" in his IP video surveillance business.

"We think in the next two to four years, we are going to probably see our own security sales grow at least 20 to 30 per cent," Fasullo told CRN. "And that's an easy, easy target, because now so many people are faced with either having to implement [IP surveillance], or are understanding that they need to implement it to differentiate themselves."

Fasullo said vertical markets like retail and education are especially hot spots for IP surveillance sales, particularly as these markets start to view surveillance as a "big, big piece" of their overall IT deployments.

Global Data Systems, like many of the IT solution providers jumping on the IP video surveillance trend, has roots in the infrastructure and networking space. In fact, Fasullo said Global Data Systems is one of "the oldest" Cisco Gold partners, with that networking DNA fueling much of its success in the surveillance market today.

"That's the beauty of IP," Fasullo said. "The network doesn't care what it is. As long as it has an IP address, it's good to go."

Fasullo said that, in addition to basic installation services, Global Data Systems often wraps remote monitoring, analysis and other services around its IP surveillance sales. "It's been a huge differentiator for us," he said.

Brian Thomas, president of A3 Communications, a Columbia, S.C.-based solution provider and Axis partner, also said selling IP video surveillance has been a major differentiator for A3, which, like Global Data Systems, also specializes in network infrastructure.

"We are seeing a huge increase in requests for IP surveillance," Thomas said. "We've seen an increase this year of approximately 150 per cent over last year in sales."

Thomas, who also compared the transition to IP surveillance to the transition to VoIP, agreed that vertical markets, like retail, are the biggest adopters of IP surveillance technologies, not only for security reasons, but to leverage the analytics capabilities now offered by these IP-based cameras. He said retail stores, for instance, will use IP camera heat maps to identify the parts of a store where customers spend the most time.

"People aren't necessarily using cameras for security at all times now, and we are starting to see more of a demand for the analytics," Thomas said.

Jason Schmitt, ceo of Technology Resource Advisors, a Milwaukee-based solution provider and Axis partner, said his company formed a dedicated physical security practice in 2010, after realizing the significant opportunities stemming from the IP surveillance market.

Today, Schmitt said, Technology Resource Advisors sees major demand for IP-based cameras, particularly among local government, higher education and K-12 organizations. He said he expects to see "triple-digit percentage growth" in sales, year-over-year, in 2013.

In addition to helping customers migrate from analog- to IP-based video systems, Schmitt said a lot of the growth Technology Resource Advisors sees in this space stems from its ability to wrap managed services around these IP systems.

"We've taken the blueprints that we're using to deliver managed services to small business, and we've replicated that for physical security," Schmitt told CRN. "Last year, we didn't really have any recurring revenue when it comes to physical security clients, but now, in 2013, we have generated, I would say, probably close to \$100,000 in annual recurring revenue around supporting these security systems."

### Conclusion

Despite the growing number of IT solution providers entering the surveillance market, Axis emphasized that traditional security integrators are still seeing opportunities from the emergence of IP, as well. The ones who do, though, seem to boast a level of networking know-how similar to that of an IT solution provider.

"When we talk about deploying surveillance or access control, we are always talking about leveraging the infrastructure they already have in place. It always came back to their network," said Andrew Bowman, president of SiteSecure, a Sanford, Fla.-based security integrator. "We are always selling, to some degree, to the IT directors, not the security directors."

Craig Bowman, vice president at SiteSecure, said SiteSecure, which specializes in the design, construction and maintenance of IP-based security solutions, often partners with IT solution providers to help manage larger networking projects, as customers demand them.

"We have to be familiar with lots of different networks – HPCisco, Brocade," Bowman said. "And we actually partner with a couple of Cisco VARs in the Tampa area to support large network deployments because we don't want to be the experts there."

For more information, please visit [www.axis.com](http://www.axis.com) **SST**

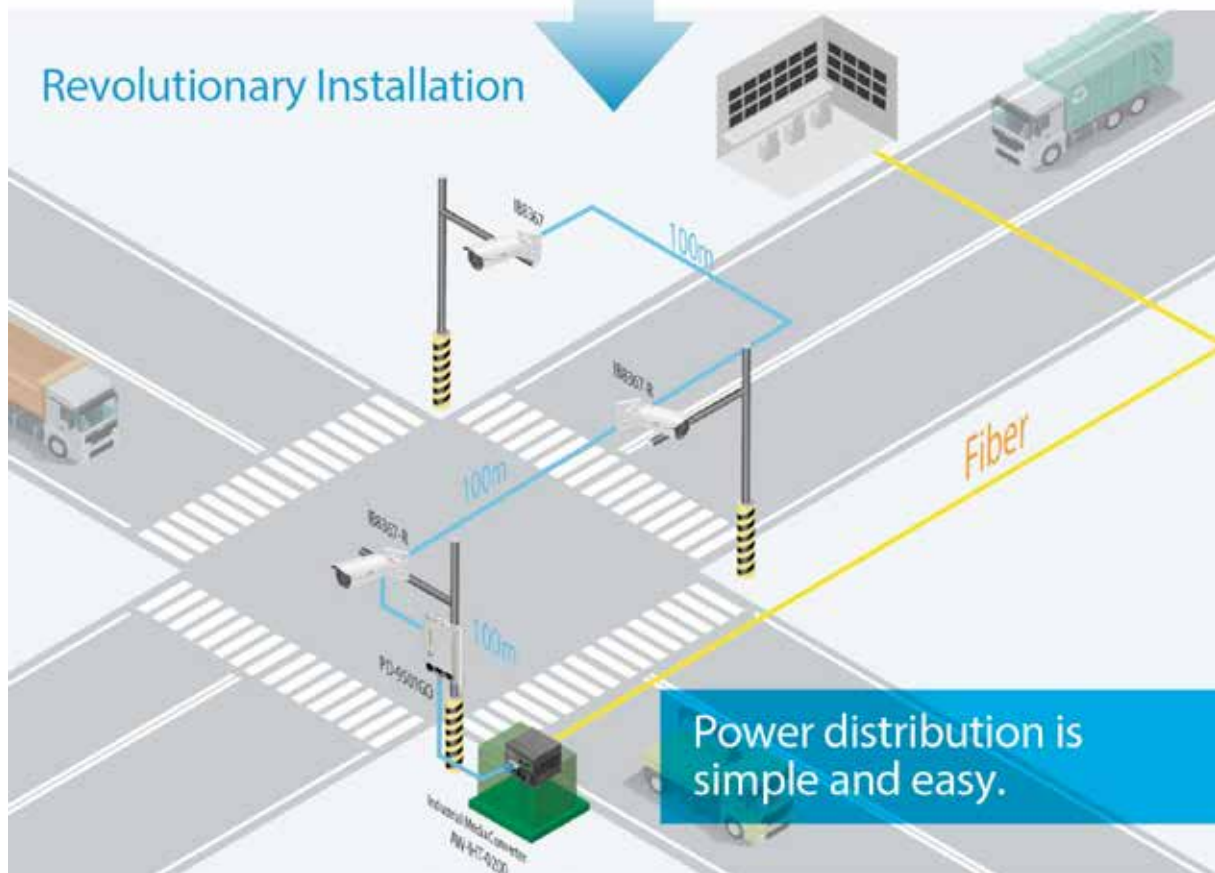
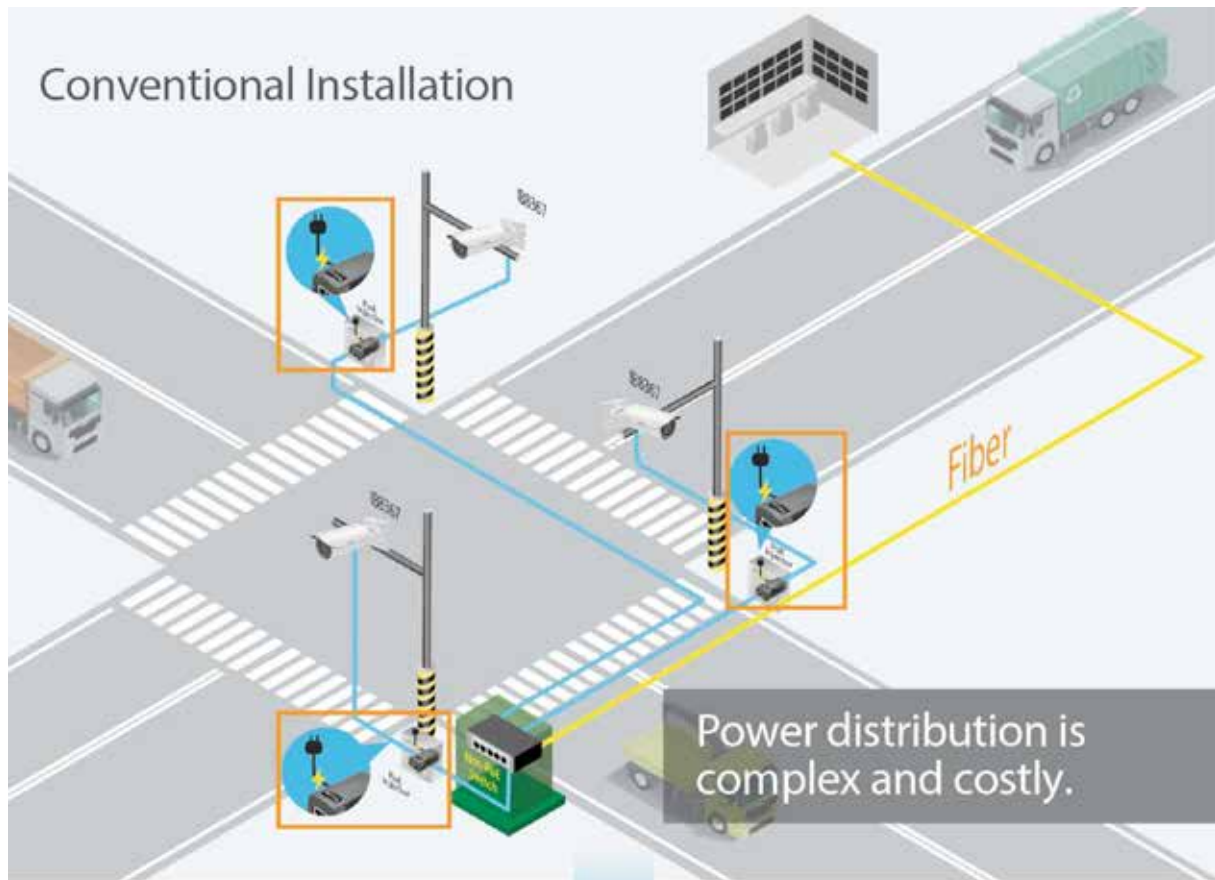
# Revolutionary Invention Accelerates The Evolution Of Outdoor And Long Distance Surveillance Applications

Article Courtesy of VIVOTEK Inc.

**W**hen it comes to outdoor surveillance applications or those covering large areas, such as wide-open factory sites, large-scale production lines, main intersections and outdoor parking lots, the installation of a surveillance system is always more challenging than indoor implementation because of a shortage of power supply, and unpredictable weather and lighting conditions. Particularly, a constant and stable power supply is always the first issue during system implementation. Installers usually have no choice but to adopt additional and excessive hardware such as PoE switches, extenders, injectors or splitters in order to ease power deployment and provide reliable power and therefore consistent surveillance. Now however, thanks to VIVOTEK's new R series cameras, system implementation can be much simpler, easier and provided at a lower cost without sacrificing quality of surveillance coverage.

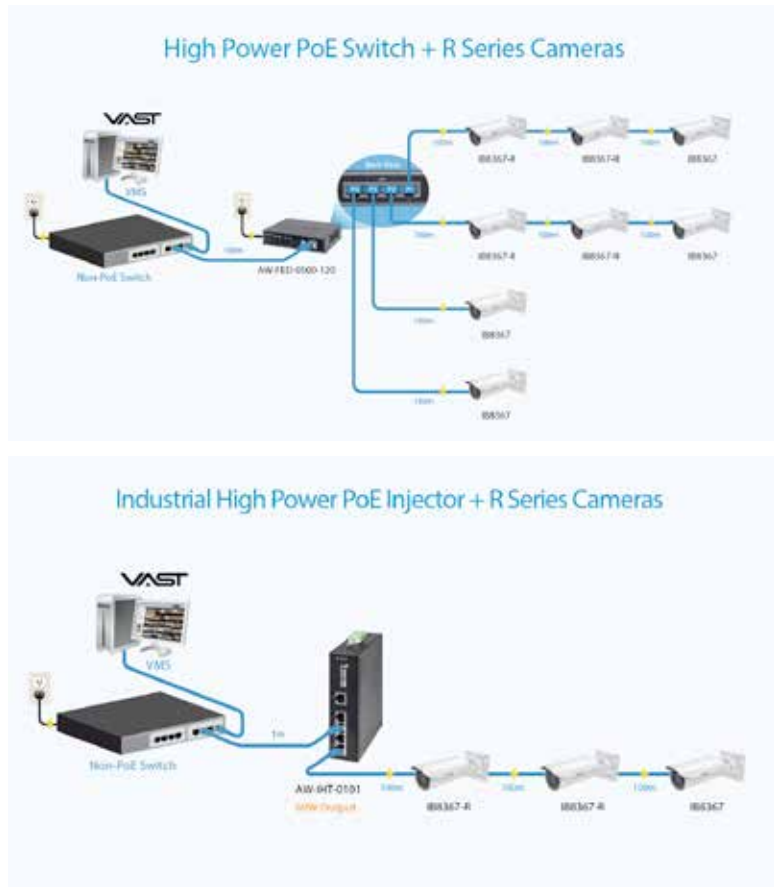
# SECURITY FEATURE

REVOLUTIONARY INVENTION ACCELERATES THE EVOLUTION OF OUTDOOR AND LONG DISTANCE SURVEILLANCE APPLICATIONS



VIVOTEK has innovatively designed a series of cameras with embedded PoE extenders, which enable a surveillance system to be extended to up to 300 meters without the need for additional power supplies. The uniquely-designed PoE extender embedded within these camera models allows for both PoE input and output and direct connection with other PoE network cameras without an additional power source. VIVOTEK's network cameras with embedded PoE extender revolutionize the establishment of long distance network surveillance systems by eliminating excess cables and power devices and significantly reducing the total cost of implementation. VIVOTEK is proud to offer its customers a more streamlined network surveillance system, which significantly elevates business efficiency and reduces the total cost of ownership of our state of the art systems.

The IB8367-R, IB8367-RT and IB8338-HR are VIVOTEK's three new network cameras with embedded Poe extender. The embedded PoE extender design facilitates long-distance surveillance system implementation in factory areas, parking lots, crossroads, and outdoor sidewalks.



	1 Megapixel	2 Megapixel	
	IB8338-HR	IB8367-R	IB8367-RT
			
	<b>WDR</b>	<b>SNV</b>	<b>SNV</b>
<b>Lens</b>	2.8~12 mm Manual Focus, P-Iris	2.8~12 mm Manual Focus, P-Iris	2.8~12 mm Remote Focus, P-Iris
<b>Max. Frame Rate</b>	30 fps @ 1280x800	30 fps @ 1920x1080	30 fps @ 1920x1080
<b>Minimum Illumination</b>	0.27 Lux @ F1.8 (Color)	0.06 Lux @ F1.8 (Color)	0.06 Lux @ F1.8 (Color)
<b>Image Capability</b>	<b>WDRPro (100dB)</b>	WDR Enhanced Supreme Night Visibility	WDR Enhanced Supreme Night Visibility
<b>3DNR</b>	V	V	V
<b>Built-in IR range</b>	30 m	30 m	30 m
<b>Power &amp; I/O</b>	UPoE, PoE 802.3at RJ45*2, Audio input/ output, DI*1, DO*1	UPoE, PoE 802.3at RJ45*2, Audio input/ output, DI*1, DO*1	UPoE, PoE 802.3at RJ45*2, Audio input/ output, DI*1, DO*1
<b>Operating Temperature</b>	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)

For more information, please visit: [www.vivotek.com](http://www.vivotek.com) **SST**

# Dahua's iHCVR Offers Face Detection Function

**D**ahua Technology, a world-leading manufacturer and supplier of video surveillance products headquartered in Hangzhou, China recently unveiled their new iHCVR series products.



iHCVR, based on Dahua's in-house High Definition Composite Video Interface (HDCVI) technology, new generation of smart face detection which realizes 1ch face detection, instant playback and face index playback. iHCVR series products not only support face detection but also can realize face image snapshot and face image 20 seconds playback assisted by software.



## HD Performance at 720P

Dahua iHCVR product family is based on HDCVI technology and it retains the ease to use of an analog system while offering up to 720P HD video output.

## Easy Space

Detected face images, motions, alarm snapshots and video can be uploaded to the free "Easy Space" (Network Cloud Disk) such as Skydrive and Dropbox to keep data safe and save storage space. Also the recorded data can be searched easily.



## P2P

P2P allows simple and easy connecting between client-end and mobile apps. Dahua iHCVR can realize p2p network connection through scanning QR code and logging website. ([www.easy4ip.com](http://www.easy4ip.com))

The iHCVR family includes 5104/5108H-F and 5104/5108HE-F. Among these models, different hardware case is not the only way to differentiate them but also with different functions, such as iHCVR5104/5108HE-F supports 4/8-ch alarm in and three-ch alarm out. Furthermore, the sync software will be available for mobile phones in January. With mobile device viewing support, it will be much more convenient to use. As for the users, iHCVR is cost-effectiveness, easy-to-use and high performance solution.

## Key features

- Support face detection, instant playback and face index playback
- Detected face images can be uploaded to the free "Easy Space"
- Support P2P network connection through scanning QR code
- All channel@720P real-time recording
- 1HDMI,1VGA,1Audio,1SATA,2USB,1RJ45(100M), Alarm (HE Series optional)

For more information, please visit [www.dahuasecurity.com](http://www.dahuasecurity.com) **SST**

## Axis Announces Innovative Surveillance Solution With Full 360° Overview & Detailed Zoom



**A**xis Communications, the world leader in network video, has just announced AXIS Q6000-E, an outdoor-ready 360-degree network camera that integrates seamlessly with the AXIS Q60-E Series of PTZ dome network cameras, providing a unique surveillance solution. With just a single click, operators can optically zoom in on details of interest with high precision while at the same time being able to maintain an overview of large areas of up to 20,000m<sup>2</sup> (215,000 sq. ft.) – about the size of four football fields. This makes the AXIS Q6000-E ideal for city surveillance applications such as monitoring of public squares and parking lots, as well as food courts in shopping malls and other open areas.

This new product will open up new opportunities to solve a common problem, for example in the city surveillance field where there is a need for both a PTZ camera to provide detail, and for a full overview camera to cover the entire area. A single click on any object in AXIS Q6000-E, using the one-click PTZ control feature, will trigger the AXIS Q60-E allowing operators to optically zoom in on the specific object of interest. The use of two screens gives a full 360° overview from AXIS Q6000-E, and a zoomed-in view from AXIS Q60-E, providing operators with a high level of detail while simultaneously being able to maintain an overview of the entire monitored area.

AXIS Q6000-E provides multiple, individually configurable video streams in H.264 compression to greatly optimize bandwidth and storage without compromising image quality. Motion JPEG is also supported for increased flexibility.

Any AXIS Q60-E camera is quickly and easily mounted inside the AXIS Q6000-E, allowing also existing AXIS Q60-E installations to be upgraded to monitor wide areas, while simultaneously capturing every detail of interest, with just one click. There's no need for any mounting brackets or extra equipment as AXIS Q6000-E uses the same brackets and network cable as the AXIS Q60-E, minimizing time and cost of installation. Furthermore, AXIS Q6000-E is supplied with Power over Ethernet Plus (PoE+) through AXIS Q60-E, eliminating the need for power cables.

AXIS Q6000-E is supported by the industry's largest base of video management software through the Axis Application Development Partner Program. The camera includes support for AXIS Camera Companion, AXIS Camera Application Platform, ONVIF specification for interoperability of network video products and AXIS Video Hosting System (AVHS) with One-Click Camera Connection.

AXIS Q6000-E is planned to be available in Q4 2014 through Axis distribution channels.

For more information, please visit: [www.axis.com](http://www.axis.com) **SST**



Paradox HD77 Camera

Paradox *Insight*  
Designed for your lifestyle

3-in-1 solution offering: HD video/audio monitoring, superior security capabilities, and remote accessibility - anytime, anywhere

P ▲ R ▲ D ▲ O ▲ X



Paradox EVOHD



Paradox Insight™ Self-Monitoring Application



Stratel's Paradox Insight™ is the first and only integrated solution of HD video/audio monitoring with superior security capabilities that allows users to see and hear what is going on and protect their home or business anytime, anywhere right from their smartphone. In a case of a security breach, Paradox Insight™ provides HD videos with high quality audio of events for visual verification and reporting purposes.

### Paradox HD77 Camera

HD77 Camera is a highly reliable HD video (720p) and high-quality audio PIR camera that delivers unlimited live HD video and audio streaming for monitoring and verification of alarm events. These features help users instantly detect potential problems the second they occur, thereby reducing the amount of false dispatches.



When an alarm is triggered, the HD77 camera sends a pre-recorded video (360p) in color or black and white (night vision) to allow users to view what triggered the alarm, with images (jpegs) 10 frames per second. User can also access HD 720p video and audio recording, as required, and only authorized users (set by the master user) can access live video streams. The HD77 camera can also be set to Record on Motion (ROM) and Record on Demand (ROD) according to individual user needs.

### Paradox EVOHD

EVOHD is a robust security and access control panel with a powerful processor to support the enhanced functionality of the Paradox HD77 camera. The control panel's redundant communication methods generate reports to the Central Monitoring System (CMS) over IP, GSM, GPRS, landline or any combination.

Designed for easy installation and expansion of additional products, the EVOHD can support up to 254 security devices and 192 zones.

The control panel's flexible zone assignment allows any detector to be assigned to any zone regardless of the physical location of the connection.



### Paradox Insight™ Self-Monitoring Application

Paradox Insight™ self-monitoring app allows immediate access to the HD77 camera/s to efficiently manage multiple secure locations (e.g. home, office, elderly parents' home). With Insight mobile app, users can:

- Watch up to four live streaming videos simultaneously on a single screen unlimited time from each secured site
- Manage the entire system from a mobile device including arm/disarm, user permissions, and media files
- Leverage Video on Demand (VOD), Record on Demand (ROD), or Record on Motion (ROM) to view and record events at each secured location
- Receive and respond to alarm notifications - contact police, fire department or the CMS via a panic button inside the app
- Access system event logs to quickly verify or monitor the reason for the alarm, enabling immediate response

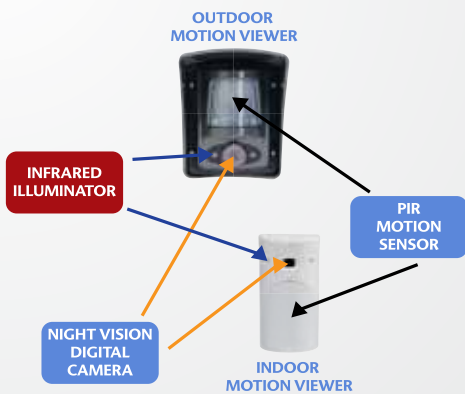


For more information, please visit [www.stratel.com.my](http://www.stratel.com.my) SST

# The Ideal Solution For The Challenging Outdoors



## Videofied Security Systems Schematic Diagram



## Videofied's Wireless Video Verification Security Concept

- Completely 100% wireless, self-powered security system with video verification
- Motion viewer with built-in night vision camera
- Recording up to 10 seconds video clip upon alarm triggered for commercial, residential & outdoor applications
- IP / GPRS alarm transmission
- Bi-directional radio range in 868 mhz European operating frequency
- Up to 4 years battery life span



## Videofied Security Systems

**Operates up to 4 years on one set of batteries. Videofied marks a real turning point in the alarm systems market!**

- Quick installation without wires or power
- Video of alarm sent over GPRS or IP networks
- Affordable, portable, anywhere

## How Does it Work?

1. On detection, the wide-angle camera records a video clip.
2. The video is sent to the monitoring station.
3. The monitoring operators can watch the video of the intrusion in real time, eliminating false alarms.
4. When there is a genuine intrusion, the monitoring station calls the police or required response.



For more information, please visit [www.stratel.com.my](http://www.stratel.com.my) SST



**Panasonic**

## Panasonic Unveils All-New Super Dynamic Full HD Weather-proof Long Focus Type Network Camera (WV-SPW631LT)

- **1080p Full HD / 720p HD** -SPW631LT: 0.06 lx (Colour), 0.02 lx (B/W) at F1.6
- **IRLED** equipped: The equipped infrared LED makes it possible to take pictures at zero lx.
- **IR LED** is controlled to match the environment, thereby the camera provides clear images of human faces without white blur.
- **High Speed ABF (Auto Back Focus) and Motorized Zoom** ensures easy installation.
- Newly developed lens with aperture control function realizes the best focus in any environment.
- **VIQS** (Variable Image Quality on Specified area) technology allows the designated **eight areas** to retain higher image quality while the excluded area will have a decreased image quality, which enables to use lower image file size and bit rate.
- Cropping function enables to provide whole image and the part image simultaneously. Up to four image capture areas can be specified, and it is also possible to control the sequence.
- **Face Super Dynamic** technology ensures clear face image.
- Lens distortion compensation for the distorted images can be adjusted 256 steps.
- Electronic sensitivity enhancement: Auto (Up to 16/30s) / OFF
- Selectable light control modes: **Outdoor scene, Indoor scene (50 Hz) / Indoor scene (60 Hz), Fix shutter** Indoor scene (50 Hz/60 Hz): Flicker caused by fluorescent lightning will be automatically compensated.
- 3x extra optical zoom at 640 x 360 resolution
- 2x, 4x digital zoom controlled by browser
- VMD (Video Motion Detection) with four programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 8 private areas, such as house windows and entrances/exits.
- Camera title display: Up to 20 alphanumeric characters on the browser
- Alarm sources including three terminal input, VMD and Panasonic alarm command can trigger actions such as SDXC/SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic alarm protocol output.
- Full duplex bi-directional audio allows interactive communication between camera site and monitoring site.
- JPEG Image compression ratio can be changed by alarm so that higher quality image can be provided.
- Prioritized stream control: One of the video streams can be prioritized when multiple recorders or client PCs are accessing the camera so that the recorder or the client PC can maintain the frame rate.
- **Double SDXC/SDHC/SD Memory card slots** for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (H.264 / JPEG). Realize long-term recording and auto backup function.



For more information, please visit: <http://security.panasonic.com> or <http://www.facebook.com/PanasonicNetworkCamera> **SST**

## OpenVision™ OVCF-SEC Live Video X-Ray By QSA GLOBAL Inc.

OpenVision™ is a lightweight live video X-ray imaging system that provides real-time video X-ray safely for hand held use without the need for evacuation of public areas. It is portable, effective, safe, and fast. Whether using the OpenVision™ in hand held mode, an inverted position, or fully robot integrated, its ease of deployment allows for rapid x-ray inspection at different angles around the package. A portable LCD with an optional 150 ft. cable for remote hard-wired viewing can be used to prevent EMR exposure to unattended packages. A highly sensitive imager with a laser pointer is used to show the radiation hazard area. OpenVision™ can be unpacked, set up, and ready to use in less than two minutes.



- Unattended bag and parcel inspection
- Inspection of vehicle panels
- Inspection of walls
- Static/fixed installation
- Checkpoint/Entry point inspection
- Electronic surveillance sweeps



For more information, please visit [www.qsa-global.com](http://www.qsa-global.com) or contact Joachim Seng, General Manager, TJ Technology Pte Ltd, at (65) 6273 7787. Please visit their booth at Global Security Asia on March 3 – 5 (Booth no.: 1610). SST

# PM1401K-3 Multipurpose Instrument For The Tasks Of Combating Illicit Trafficking And For Radiological Emergency Response



- Communicates with a PC via USB port and built-in software.
- Uses a sensitive CsI spectroscopic detector and GM tube
- Built-in detector for detection of alpha and beta detection radiation.
- Identifies most common radionuclides
- Has enhanced algorithms for identification and processing of spectrum of multiple isotopes



An effective response to a radiological emergency incident requires using the appropriate equipment to detect radioactive or nuclear sources with subsequent localization, identification of its type and intensity.

During this procedure the working personnel has to take care of the radiation protection and control current dose rate.

**PM1401K-3** combines in itself several types of radiation detection equipment allowing the users to perform various radiological tasks.



**Instrument modifications:**

- PM1401K-3 equipped with built-in 3-He neutron detector
- PM1401K-3P equipped with built-in Lil neutron detector.
- PM1401K-3A with built-in Lil neutron detector of reduced sensitivity
- PM1401K-3M without neutron detector

**Main specifications:**

- Dose rate from 0.1  $\mu$ Sv/h up to 100 mSv/h
- Energy range from 0.015 to 15 MeV.
- Typical sensitivity to gamma-radiation : 200.0 cps per  $\mu$ Sv/h (137Cs)
- Relative energy resolution 9.0 % (relative to 0,662 MeV of 137Cs)
- IP 65 protection class
- Operating Temperature range: -32°C to 50°C.

**Main Uses for Homeland Security:**

PM1401k- 3 can be used for front line operations for combating the illicit trafficking of nuclear materials, and is not limited to be used by following organizations:

- Departments of Defense
- Departments of Homeland Security
- National Security Organizations
- Customs and Border Control
- Emergency Response Teams
- Civil Support Teams
- Emergency Management Teams
- Police Departments
- Nuclear Dismantling Companies

**PM1401K-3 major features:**

- All-in-one type: combines the functionality of personal radiation detector, survey meter, activity monitor and radioisotope identifier
- searches (detects and locates) for radioactive and nuclear materials by detecting gamma and x-ray , neutron, alpha - and beta radiation;
- Reliable Quick and Expert radioisotope identification on the screen of the instrument
- Measures of Dose rate of gamma Radiation
- Measures of alpha- and beta- surface contamination levels
- Measures of volume and specific activity of isotopes
- Binding of data to the geographical coordinates of GPS

For more information, please visit: [http://www.polimaster.com/products/hand\\_held\\_radionuclide\\_identification\\_devices\\_rids\\_/pm1401k-3\\_a\\_p\\_m/](http://www.polimaster.com/products/hand_held_radionuclide_identification_devices_rids_/pm1401k-3_a_p_m/)  
 S.E. Asia Representative: Pacific-Tec Scientific Pte Ltd, Singapore **SST**

# Bosch Tinyon Ip 2000 Cameras: Professional Video Security Solution For Homes And Small Businesses



The TINYON IP 2000 WI (wireless) and TINYON IP 2000 PIR cameras from Bosch offer a cost-effective, reliable and comprehensive solution to easily set-up a professional system to secure homes or small businesses.

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 known from Bosch. 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.

In case of an alarm, 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 (free-of-charge) cloud accounts allowing for fast alarm verification by or response from the users.

The efficient usage of available storage capacity and network infrastructure is guaranteed by built-in Intelligent Dynamic Noise Reduction (IDNR) specific to Bosch IP cameras. With this, the cameras continually analyse the scene, distinguishing between relevant information such as moving objects from image noise.

The TINYON IP 2000 WI can be used as a stand-alone solution or added to an existing security installation thanks to its wireless connection – easily installed and set-up via the WPS (WiFi Protected Setup) function, it is ideal for areas without evident network cabling. The TINYON IP 2000 PIR offers Power over Ethernet (PoE) functionality ensuring that audio, video and power all are transmitted via the network cable (CAT5).



For more information, email Bosch at: [enquiry.apr@sg.bosch.com](mailto:enquiry.apr@sg.bosch.com) or visit [www.boschsecurity.asia](http://www.boschsecurity.asia) **SST**

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



**V**IVOTEK, 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 is extremely low profile, with a diameter of only 90mm, and 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](http://www.vivotek.com) **SST**

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

**M**icroEngine Technology, a trusted brand in Integrated Security Solutions in Malaysia and Singapore with plenty of experience in many large-scale projects, has just 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.



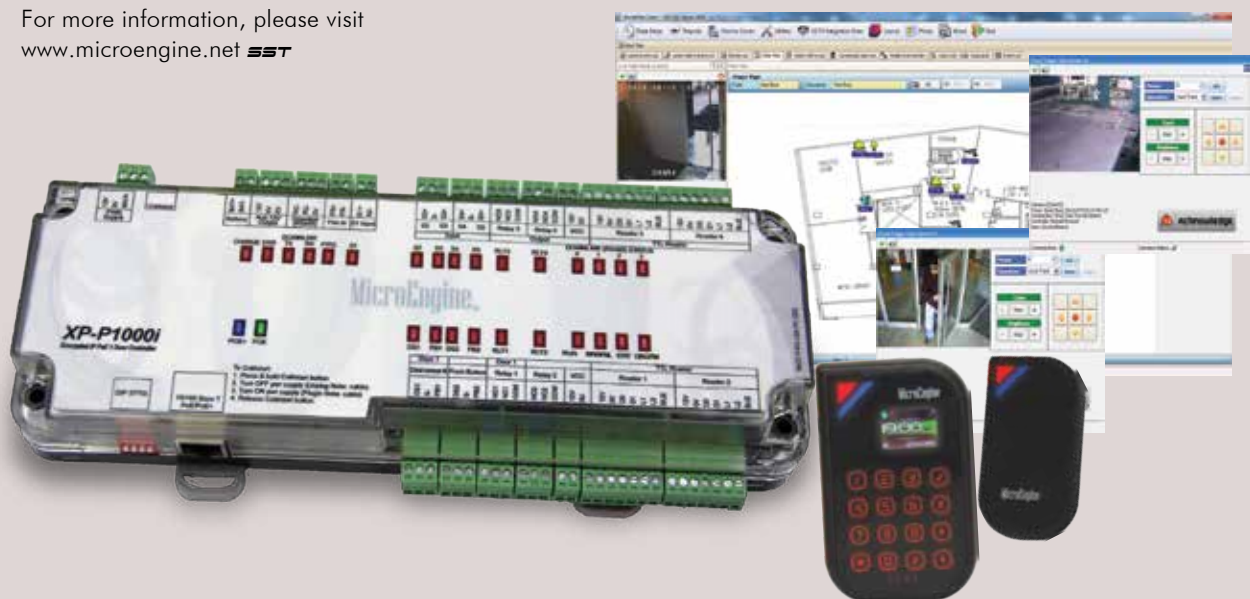
People are more sensitive about the environmental impact of their actions, and are more interested in using greener products. In security systems, Power over Ethernet (PoE) is one of the solutions to this. PoE is a technology that provides both data and power connections in one cable. Doing so minimizes 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](http://www.microengine.net) SST



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

**J**VC 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](http://www.kenwood.com/sg/com) **E8T**

# KENWOOD





## EA MSC Releases All New RAIN TAG Automatic Vehicle Identification System

**E**AMSC 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.



**EA MSC**  
Striving For Excellence

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](http://www.eamsc.com) **ESST**



# 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](http://www.arecontvision.com) SST



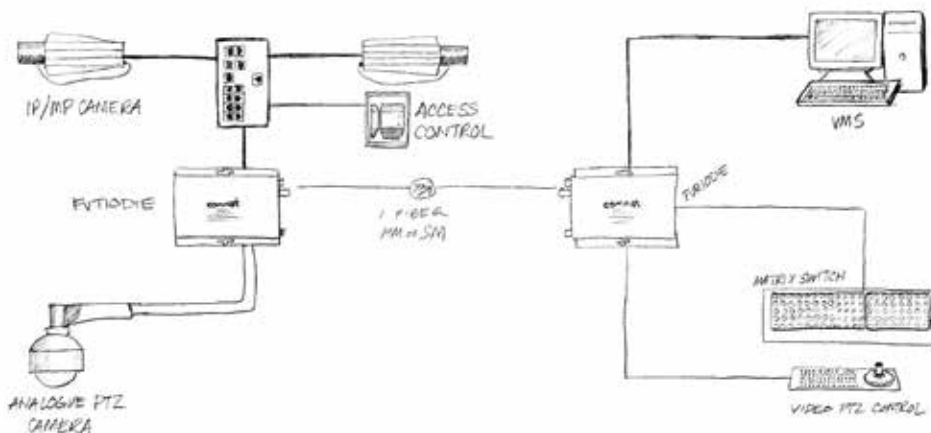
**T**echnology evolution is forcing system changes from historical signaling types to Ethernet based transmission.

ComNet's hybrid transmission helps you upgrade with no added fibre infrastructure cost and less technical headaches.



**With ComNet's hybrid equipment, you can:**

- Mix analogue and IP technologies on a single fibre
- Maximise the potential of your installed fibre
- Cost effectively add IP technology in the field
- Reduce costs and spending



For more information, please visit [www.comnet.net](http://www.comnet.net) **SST**

## Model: EMV1601 Hybrid Mobile DVR

By: EverFocus Electronics Corporation

① [www.everfocus.com.tw](http://www.everfocus.com.tw)

- Hybrid mobile DVR (supports both Analog and IP cameras)
- Up to 1080p resolution recording
- H.264 dual-stream video compression
- Supports HDD up to 4TB
- Three-axis G-sensor embedded
- Internal temperature control (two built-in heaters)
- IR remote control function
- Archives recordings to the USB storage device
- Multiple network monitoring: Web viewer, Genie XMS xFleet (Server System), EF xFleet Lite (Windows Application)



## Model: IP NetworkBox Camera With WDR 3D DNR (H.265HEVC 3 MP CMOS)

By: Aventura Technologies

① [www.aventuracctv.com](http://www.aventuracctv.com)

- |                                 |                               |
|---------------------------------|-------------------------------|
| • Three-Megapixel (2048 x 1536) | • DC 12V / PoE                |
| • 1/2.8" Progressive Scan CMOS  | • H.265HEVC / MJPEG           |
| • Wide Dynamic Range / 3D DNR   | • ONVIF/ PSIA / CGI Compliant |
| • Up to 64GB SDXC Storage       | • Noise Reduction             |
| • Automatic Back Focus          | • Tamper Detection            |
| • Adaptive Imaging Technology   | • Face Detection              |
| • Triple Stream Scalable Coding |                               |



## Model: AW-GEV-264A series

By: VIVOTEK

① <http://vivotek.com/>

- Auto Search for all VIVOTEK IP Cameras, Video Server, NVR and VAST
- Surveillance Topology/Floor/Google Map View
- Batch F/W upgrade
- Easy Grouping, VLAN Setup and QoS
- Traffic Monitor & Trouble Shooting
- PoE Status



## Model: NV3452

By: **CTRING CO., LTD.**

① [www.ctring.com](http://www.ctring.com)

- Powerful recording performance
  - Not only real time recording for live mode also playback supports 480fps@1080p 30
- Convenient local setting ever
  - Most of local controls are supported as well, especially motion detect function.
- Smart and thumbnail functions
  - Our various search modes will make you convenient, Smart and Thumbnail modes are newly updated.
- Easiest network handling
  - You can connect the NVR very easily by just clicking 'Scan' in a few seconds



## Model: HS-AHD721W

By: **Hi Sharp Electronics Co., Ltd.**

① [www.hisharp.com.tw](http://www.hisharp.com.tw)

- HD Analog hybrid camera
- Dual light LED
- Warning purpose
- Lighting Auxiliary
- IR Cut



## Model: Sony SNC-WR632

By: **D-Ron Technology Co Ltd**

① [www.d-ron.com](http://www.d-ron.com)

- Wide dynamic range of 130dB for a FHD camera
- An industry-leading pan speed of 700°/s
- Defog Image Processing feature uses powerful image processing to enhance pictures in fog, smog and haze conditions for clearer video images
- On-board gyroscopic image stabiliser
- Focal Plane Distortion Correction
- Edge Storage allows recording of video and audio
- Support HPoE+
- IK10-rated for vandal resistance and IP66-rated against ingress by water and dust. It can operate reliably in extreme temperatures from -40 to +50 degrees Celsius



## Model: GTC 182 (Full HD 1080)

By: **Global Top Technologies (M) Sdn Bhd (GTC)**

📍 [www.gtc.my](http://www.gtc.my)

- Palm-sized and stylish design with unique interior IR performance and excellent PT reliability
- Two-Megapixel FULL HD Indoor Pan/Tilt IR/ICR Motion Tracking Dome IP Camera
- Take apart the cover with only one finger push
- Support unique features for auto tracking function of moving objects
- Support H.264 / MPEG4 / MJPEG multi-codec and multi-streaming
- Built-in microphone, Micro SD Card slot
- 64 pre-set points for auto patrol mode
- Motion detection and email notificatio
- 30 fps at 1920 x 1080 of video resolution
- Motorized Pan / Tilt range -- Pan: 200°, Tilt: 70-degrees
- Dimension: 63mm (H) x 92mm



## Model: SurroundVideo Omni

By: **Arecont Vision®**

📍 [www.arecontvision.com](http://www.arecontvision.com)

- Arecont Vision's SurroundVideo® Omni Cameras feature four multi-megapixel sensors that can be individually adjusted to capture different fields of view within a full 360-degree range
- This allows a single camera to provide detailed coverage of a wide area including the ability to provide views directly under the camera or multiple fields of view using a variety of lens options
- The cameras are available in five-MP, eight-MP, 12-MP and 20MP configurations
- SurroundVideo® Omni Cameras feature Arecont Vision's WDR technology in the 12-MP configuration, which delivers a dynamic range of up to 100dB at full resolution without lowering the frame rates
- Popular configurations of the unique SurroundVideo Omni cameras include 270-degree panoramic coverage using three image sensors and the fourth image sensor that looks straight down
- This configuration is ideal for placement on the corners of buildings. Hallway intersections are another popular configuration, as four telephoto lenses can be used to obtain full coverage looking down separate long hallways
- The added versatility provided by SurroundVideo Omni cameras eliminates the need for multiple cameras, reducing overall system costs



## Model: HLC-79GDS

By: Hunt Electronic Co., Ltd

① [www.hunt.com.tw](http://www.hunt.com.tw)

- Maximum resolution of 1920 x 1080 pixels
- Exmor™ CMOS sensor
- 60 Frames per second (fps)
- Face detection
- True WDR
- Built-in IR LED, 35M available
- IP66



## Model: Two-Megapixel Embedded PoE Extender Outdoor Bullet Network Camera (IB8367-RT)

By: IWATCHS Sdn Bhd

① [www.iwatches.com](http://www.iwatches.com)

- Two-Megapixel CMOS Sensor
- 30fps @1920 x 1080
- 30 Metres IR Distance
- Two-way Audio
- World 's first embedded PoE extender camera
- Allow direct connection between embedded PoE extender camera without any additional power source
- Good for long-distance surveillance implementation such as parking lots, outdoor sidewalks



## Model: Day & Night 1080p 60 Fps HD IP Camera (SG1122)

By: Merit LILIN Ent. Co., Ltd

① [www.meritlilin.com](http://www.meritlilin.com)

- 60 fps @ 1080P True H.264 AVC High Profile video compression\
- 3D noise reduction (MCTF)
- HDR function
- Defog function
- Digital PTZ supported
- Tampering / Audio / Motion detection alarm function
- Two-way audio supported
- ONVIF supported



## Model: VPort 66-2MP Series

By: Moxa Inc.

① [www.moxa.com](http://www.moxa.com)

- -40 to 65 degrees Celsius operating temperature
- Maximum 1920x1080 resolution at 60 FPS (single stream)
- Supports 360-degree endless PAN and - 6 to + 96-degree TILT
- 22X, 30X optical zoom, and 20X digital zoom
- DNR, BLC, and image stabilizer for superb image quality
- Built-in 4.3 to 94.6 mm (22X) or 4.3 to 129 mm (30X) focal length lens with ICR (IR-cut filter removable)
- Triple video streams with H.264 and MJPEG
- RJ45 Gigabit Ethernet port



## Model: Industrial EoC Converter with PoE+ & PoC (ET1100CPp)

By: OT Systems Ltd.

① [www.ot-systems.com](http://www.ot-systems.com)

- Industrial 10/100Base-TX Ethernet Over Coax Converter with PoE+ & PoC
- Data rate up to: 90Mbps(Downlink) / 90Mbps(Uplink)
- Support PoE+(30W) and Power over Coaxial
- Maximum 1000m over Coax(RG-59/U)
- 802.3af/802.3at compliant
- Compatible with four-port standalone receiver and rack-mount 8/16-port receiver
- Accepts 48VDC external power input or PoE power input from RJ45 port



## Model: Surveon NVR5000 Enterprise RAID Server NVR

By: Surveon Technology Inc.

① [www.surveon.com](http://www.surveon.com)

- Support 16/24/32/48/64 CH 1080P recording
- Scalable client-server architecture
- Support 16-bay SATA hard disk
- Built-in RAID function for data protection
- Support enterprise-grade RAID subsystem
- Built-in Real-time Video Intelligence Detection
- Support Surveon Control Center (SCC)
- Two redundant power supplies



## Model: Impulse Dual Sit/Stand Consoles

By: **Winsted**

① [www.winsted.com](http://www.winsted.com)

- Two independently adjustable work surfaces
- Electric-lift legs with three programmable settings
- Versa-Trak monitor mounting system
- Ergonomically curved, high-pressure laminated work surfaces
- Integrated easy-access cable management
- Perforated privacy panel
- Two redundant power supplies



## Model: InfinityLens (IL-05-M18-CSIR)

By: **WARP INTERNATIONAL OPTICS COMPANY LIMITED**

① [www.warptics.com](http://www.warptics.com)

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



## Model Name: VideoXpert

By: **Pelco by Schneider Electric**

① [www.pelco.com](http://www.pelco.com)

**PELCO**

by Schneider Electric

- New scalable platform from mainstream applications to mission critical sites
- Intuitively designed user interface for ease of operation
- Seamless integration with third party providers
- Scalable among multiple platforms, across multiple locations
- Designed with an open architecture for a unified experience and optimal flexibility
- Enhanced feature capabilities for Digital Sentry and Endura via VideoXpert platform
- Complete and intuitive end-to-end video solution

## Model: Open to Secure (O2S) MIFARE Plus®/ DESFire® EV1 Readers

By: Rosslare Enterprises Ltd.

[www.rosslaresecurity.com](http://www.rosslaresecurity.com)

- Highly secured smartcard solution with minimum effort
- Simple operation
- Easy installation and card enrollment – no need for a programmer
- Transmission format flexibility meeting virtually all customer requirements
- Fully compliant with ISO 14443A
- Next-generation OSDP support to move beyond Wiegand



## Model: MORTICE SERIES ELECTROMAGNETIC LOCK

By: UWC Electric (M) Sdn. Bhd.

[www.uwcelectric.com](http://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: SuperGLASS 7

By: Zucchetti Axess spa

[www.axesstmc.com](http://www.axesstmc.com)

- Capacitive touchscreen display
- Ready-to-use device, thanks to the embedded T&A and access control application
- Fully configurable and manageable via web and compatible with the range of Zucchetti Axess X1, X2 readers
- Fully programmable in .NET Microsoft to meet any data collection need
- Server/client FTP connection for the automatic transfer of files to and from a server
- Multimedia functions: VOIP with video, playing of audio files, Text to Speech, video streaming on the web
- Long-life battery for operation during power outage



## Model: uPASS Access

By: **Nedap Identification Systems**

① [www.nedapidentification.com](http://www.nedapidentification.com)

- Convenient hands-free access
- Smallest UHF reader in the world
- Consistent reading up to two metres (6.5 feet)
- Operates with passive UHF cards (EPC GEN 2)
- Supports combi-card technology (UHF + Mifare, HID, Legic, Felica, EM, Nedap)
- Easy integration with industry standard protocols
- Three colour LED and beeper indication
- Indoor and outdoor mounting (IP65 rated housing)



## Model: Touch03-2NF

By: **Newict Marketing (M) Sdn Bhd**

① [www.senzo.com.my](http://www.senzo.com.my)

- Light control
- Smart phone control
- Energy Saving
- 24-Hour timer and delay timer
- Wireless sensor and alarm interface
- Remote control
- Touch screen
- Changeable skin

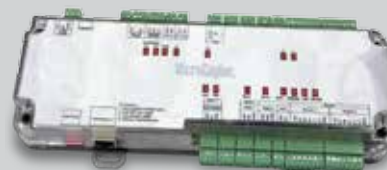


## Model: GLS100 Encrypted IP DesFire 1 Door Controller

By: **MicroEngine Technology Sdn Bhd**

① [www.microengine.net](http://www.microengine.net)

- Next generation IP based access control solution
- 64 Bits unique card ID matching
- End-to-end security
- Triple Des (3DES) & AES 128 Encryption
- Plug and Play easy system setup
- Not identification by serial number



## Model: Acsys CGS Lock & Key

By: **Acsys technologies Ltd.**

① [www.acsys.com](http://www.acsys.com)

- One key can open up to 100,000 locks, Locks can be programmed to accept the entry of 1,000,000 keys
- Keys can be programmed to work at different times or days for different locks
- Keys are encrypted with AES 128bit so they cannot be copied
- Keys and Locks keep track of the last 1,000 events
- Keys power the lock. Typical battery life is two years
- Acsys locks need no maintenance, Locks are wire-free and easy to install
- Locks cannot be bumped, picked and hard to drill
- Acsys Locks are available in different sizes, types and as padlocks
- Lost/stolen keys can be deleted from the system without changing the lock
- Keys can be fitted with Mifare® coil and used as badges in traditional access control system



## Model: PC-30/N

By: **PONGEE INDUSTRIES Co., Ltd.**

① [www.pongee.com](http://www.pongee.com)

- Small size of 40mm diameter with 30.2mm length for easy installation
- With 1,000-card capacity to be added, deleted and cleared all by master card programming. (EM, Mifare, HID)
- With inherent form A relay to offer dry contact output
- Adjustable releasing timer by VR (rotation variable resistor) from 0.5~100 seconds
- No PC or other terminal is needed for parameters programming
- With three colours LED and buzzer for programming & access indications
- Water proof for flush mounting
- Low cost and simple access controller for door, lift, cabinets, drawers, coffer, handle locks



## Model: System JABLOTRON 100

By: JABLOTRON ALARMS a.s.

① [www.jablotron.cz](http://www.jablotron.cz)

- Up to 120 wireless or bus wired zones
- Up to 300 users
- Up to 15 sections
- Up to 32 programmable outputs
- Inbuilt GSM/GPRS/LAN communicator for voice, SMS or GPRS communication with end users or Alarm Receiving Centres (ARC)
- Certification to EN 50131 grade 2



## Model: ARTECO NEXT – THE Video Event Management Software platform

By: ARTECO

① [www.arteco-global.com](http://www.arteco-global.com)

- Complete situational awareness with 360 degree fisheye camera compatibility with dewarping functionality
- Windows 8 embedded Operating System
- 64-bit version available for lower CPU usage, more cameras detectable, and higher performance
- User Policies and roles defined for greater streamlined user management
- Mapping functionality to easily plot, trace, and activate I/O devices visually on 3D maps
- Intrusion detection alarm panel detectable through Contact-ID protocol
- Continuous performance by assured data integrity guaranteed with Failover functionality
- Arteco LPR License Plate recognition compatible for detection alerts directly on the VEMS platform
- Arteco VERITY IP Video Door station compatible for streamlined recording and id alerts
- Arteco EVERYWHERE IP controller adaptable POE to access devices remotely through the VEMS platform



## Model: Enforcer 32-WE APP

By: Pyronix Ltd

① [www.pyronix.com](http://www.pyronix.com)

- Compatible with HomeControl+ smartphone applications for iOS and Android
- Control your home remotely from anywhere in the world
- Highly secure communication encryption
- Two-way wireless
- Signal Strength Indicators (SSI) on the control panel and all wireless devices
- Internal and external cameras that can be integrated, viewed and controlled through the HomeControl+ app
- Control automation outputs directly from your app



## Model: ADPRO PRO-E PIR

By: Xtralis

① [www.xtralis.com](http://www.xtralis.com)

- High performance outdoor PIR detectors for the protection of commercial, industrial and defence-grade facilities
- Covers long perimeter distances up to 150m right down to small volumes of space
- Maximum tamper protection with 360PROtect – eliminating all creep zones surrounding the pole or wall
- One-man commissioning and maintenance available via free iCommission™ app
- Up to four metres (13 feet) mounting height to minimise risk of vandalism
- Completely wireless operation soon to be available – delivering significant installation and labour cost savings



## Model: FP1400

By: **Optellios Inc.**

① [www.optellios.com](http://www.optellios.com)

- The system is sensitive to the vibration of the fiber optic cables and is capable of locating the point of vibration
- By mounting the sensor cable on and in direct contact with a perimeter fence, the motion and/or vibration of the fence is monitored
- The system is capable of being deployed with multiple intrusion detection zones and is expandable as needed
- The system is capable of being deployed in cut-immune closed-loop architecture  
Consists of field components, which perform the sensing function and head-end components which perform signal processing and reporting



## Model: IUT200/600/700 Universal Indoor Radio Transmitter

By: **RSI Video Technologies**

① [www.videofied.com](http://www.videofied.com)

- The Videofied S2View® Spread Spectrum Interactive AES Encrypted Wireless technology provides optimum signal integrity and security
- Supervised - transmits a check-in/status signal every eight minutes indicating detector state, tamper conditions, serial number, date of manufacture, software revision and battery status
- Dual tamper - provides detection for both wall and cover tamper
- External input - accepts normally closed (NC) dry (no power) circuits from standard hardwire intrusion devices, including fast response devices
- Lithium battery - up to four years



## Model: Thermal Intrusion Detection Camera (TC620-PID)

By: Siquira B.V.

📍 [www.siquira.com](http://www.siquira.com)

- Highly reliable Perimeter Intrusion Detection (PID)
- Optimized thermal camera with embedded analytics
- Based on I-Lids certified video analytics for sterile zone
- Simple installation – Easy in use
- Full featured PID in combination with VDG Sense
- Compact outdoor camera system
- Complete range of lenses, 336x256 thermal resolution
- The TC620-PID is fitted with the industry standard long wave infrared thermal imaging cores



## GET YOUR PERSONAL E-COPY OF TRADE LINK MEDIA PUBLICATION FROM: [www.tradelinkmedia.com.sg](http://www.tradelinkmedia.com.sg)



4 easy steps:

- Register yourself by filling up our online form.
- Choose your preferred publication titles.
- Authenticate your email through the verification process.
- Get ready to download your chosen e-magazines.

**FAST DOWNLOAD, NO WAITING FOR POSTAL MAIL,  
READER-FRIENDLY PDF FORMAT, REGULAR UPDATES,  
HYPERLINKS TO ADVERTISER'S WEBSITES, EASY ACCESS  
FROM ANYWHERE AT ANYTIME WITH INTERNET CONNECTION!**

We recommend fast download with ADSL speed and above.  
Users can read PDF copy with Acrobat Reader Version 7 and above.  
Acrobat Reader Version 7 can be downloaded from our website.

SOUTHEAST ASIA **building**

• S O U T H E A S T • A S I A •  
**CONSTRUCTION**

**Security Solutions** today

**lighting today**



**bathroom + kitchen** today

## Model: 2 Alarm Attack Spider Wrap

By: Alpha High Theft Solutions, a division of Checkpoint Systems

① [www.alphaworld.com](http://www.alphaworld.com)

- If your profits are under attack, attack back with the new and improved 2 Alarm Attack Spider Wrap. It's the perfect solution for versatile protection on packaged merchandise
- 66 per cent faster to apply and remove than the previous Attack Spider model
- Push button cable release
- Stronger locking mechanism
- Smaller profile for maximum merchandising
- 7x7 strand aircraft grade cable
- Protected speakers with a 95 dBA alarm
- Long-lasting Lithium battery



## Model: FLIR FC Series

By: FLIR Systems co., Ltd

① [www.flirsecurity.com](http://www.flirsecurity.com)

- On-board video analytics with ability to classify human or vehicle intrusions
- Calibrated temperature measurement for fire detection, safety, and thermal monitoring of equipment (FC-Series R camera only)
- Multiple alarming notification options, including email, edge image storage, digital outputs or VMS alarms
- Ideal for use with third-party analytics, including those provided by FLIR's partners around the world
- Camera configuration via web, mobile apps or FLIR Sensors Manager (FSM)
- Simultaneous IP and analog video outputs



## Model: NUUO Crystal Titan

By: NUUO Inc

① [www.nuuo.com](http://www.nuuo.com)

- **Server Highlight**

- System Navigator: centralized management for multi-sites; managing unlimited devices and events from multiple management servers on unified NuClient
- Diagnostic Service: retrieving important logs from server and client for troubleshooting Linux based system
- High throughput: supporting up to 64 channels of 5-Megapixel cameras, 250~550Mbps (CT-8000R/CT-8000RP).
- Built-in Management Server, Recording Server, Recording Failover Server and Metadata Server in one Crystal

- **Client Highlight**

- Open Platform: support more than 80 IP camera brands and over 2000 models
- Third party integration platform supported
- Cross platform for Windows and Mac
- All in one NuClient for remote configuring and viewing
- Generic Fisheye Dewarp technology for all fisheye cameras
- NUUO Image Fusion Technology stitch up to 10 cameras together
- Layout Wizard - customized layout for viewing
- Twin Clients to support identical, full featured software client and web client



## Model: TASSTA App

By: TASSTA GmbH

① [www.tassta.com](http://www.tassta.com)

- Connects radio with mobile networks
- Enables PTT communication from radio to Smartphones and vice versa with many features
- Group Calls, Individual Calls, Priority Calls, GPS tracking, In-house tracking, Order-Management, History, Alarm, Remote control, Data & picture transfer, NFC & QR-Scanner, ID Management and many more
- Worldwide coverage; works on the lowest connection – only 16 Kbit/s needed
- Tailor-made adjustments to your companies needs
- Connection to external systems possible
- 100 per cent safe, all data are encrypted on a separate server



## Model: Protector's Fire Sprinklers

By: PROTECTOR SAFETY IND. CO.

① [www.protector.com.tw](http://www.protector.com.tw)

- UL Listed / FM Approved
- Upright / Pendent / Concealed / Sidewall
- 135F(57C) / 155F(68C) / 175F(79C) / 200F(93C)
- Standard and Quick Response
- K Factor: 5.6 / Standard Orifice / Glass Bulb Type
- Finishes: Brass / Chrome / White / Custom
- Recessed Escutcheon available as option
- Light and Ordinary Hazard



## Model: RAINTAG AVI SYSTEM

By: EA MSC

① [www.eamsc.com](http://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: IriShield™ Series

By: IriTech, Inc.

① [www.irittech.com](http://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: CTX 5800

By: Morpho Detection LLC

① [www.morpho.com/detection](http://www.morpho.com/detection)

- Small footprint CT system with over 400 bags per hour throughput
- Flexible deployment ranging from integrated, semi-integrated and stand
- 85cm bore - largest bore in its class
- High-resolution 3D imaging system provides high detection with low f
- Low power consumption and requirements
- TSA Certified and meets ECAC Standard three requirements



## Model: carXray

By: HomeLand Technology Sdn Bhd

① [www.homeland.com.my](http://www.homeland.com.my)

- Screen moving light vehicles, including occupants
- State of the art X-ray imaging, provides high resolution images
- High throughput
- Extremely low radiation
- Unique capability to discriminate organic and inorganic material
- Capability to integrate with HomeLand UVSS and LPRS



# Global Security Asia 2015: Asia Pacific's Premier Exhibition & Conference On Counter Terrorism And Security

**G**lobal Security Asia (GSA) will be held from 3 – 5 March 2015 at the Suntec Singapore Convention and Exhibition Centre in Singapore.

GSA has achieved an enviable reputation and established itself as the premier “must-attend” International Exhibition and Conference focusing exclusively on Counter Terrorism, Internal State Security, Law Enforcement and Civil Defence in the Asia Pacific Region. GSA 2015 is now organized in partnership with MILIPOL, the largest security show in the world. GSA 2015, with its sister Shows MILIPOL PARIS and MILIPOL QATAR, will now deliver and showcase Homeland Security and Counter Terrorism Systems and Technologies from around the World.

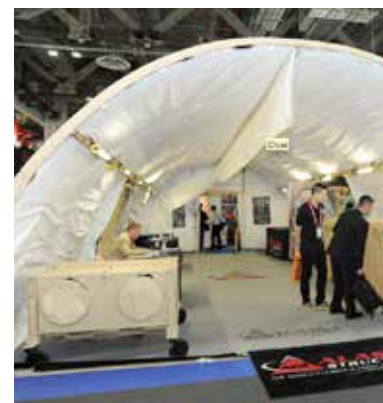
With the new partnership GSA 2015 will continue to serve the ASEAN Region and retain its three-day format showcasing the latest technology solutions in the Defence and Security environment.

The Show will address the fundamental issues of global terrorism and internal state security and will present opportunities for specialists and engineers in the vitally important areas of internal state security and counter terrorism to share their experience and expertise regarding the sophisticated threats currently facing Governments in the region.

Besides the familiar National Pavilions, GSA 2015 will also be launching two new Pavilions focusing on CBRNE and a special Pavilion for First Time Exhibitors. Given the international marketing reach the combined GSA and MILIPOL partnership offers, all our Exhibitors and Visitors can now undoubtedly enjoy a significantly enhanced Event in all aspects of the Show.

## The new Asian threat landscape

GSA 2015 will focus on the new Asian threat landscape. The theme of GSA 2015 conference will delineate the current and emerging Asian threats and discuss state and societal responses. With the rise of ISIS and the declaration of an Islamic State, a new global and an Asian threat landscape is emerging. The al Qaeda centric threat landscape is fading and an al Qaeda-ISIS hybrid threat landscape is emerging. With the spread of ISIS ideology in Asia, the operational threat to the region is changing dramatically. ISIS associates and supporters seek to attack both coalition and host targets. GSA 2015 has brought together a cast of practitioners and scholars to examine the new Asian threat landscape. The speakers from the US, Pakistan, India, Bangladesh, Sri Lanka, Indonesia, Malaysia and Singapore will map the evolving threat and share governmental and community strategies for mitigating the threat.





VIP Delegations from countries in the Asia Pacific Region will again be an important feature for GSA 2015. An estimated 100 VIPs Delegates from more than 15 countries are expected to visit the Show.

These decision makers are responsible for the development, selection and procurement of Paramilitary, Counter Terrorism, Internal

State Security Systems and Civil Defence Products and Services. They will call on participating Exhibitors during the three-day event and share their experience, discuss their requirements and evaluate the products and systems on display relevant to their national procurement plans.

Via their business-matching programme, Exhibitors will be able to schedule meetings with these Delegations of their choice prior to their arrival at the Show to ensure a productive and meaningful visit.

### Show highlights

- **Masagos Zulkifli, Senior Minister of State,** Ministry of Home Affairs and Ministry of Foreign Affairs to attend as Guest Of Honour for Opening Day.



- **Over 200 International Exhibiting Companies** in the field of Counter Terrorism, Internal State Security, Law Enforcement and Civil Defence showcasing state-of-the-art products, solutions and technologies
- **New Exhibitors** from Japan, Korea, Malaysia, Brazil and many more at the First-Time Exhibitor Pavilion
- **Highly Anticipated ISIS themed Conference titled "New Asian Threat Landscape"**
- **KEYNOTE Conference Speakers** Dr. Rohan Gunaratna, Major General Dr Tito Karnavian and many other distinguish speakers
- **Special CBRNe World Workshop** with Guest Speaker, Commissioner Eric Yap from Singapore Civil Defence Force (SCDF)
- **Three-Day Free-to-Attend Workshops** presented by International Product Specialists.
- **Live Product Demonstrations** you cannot afford to miss



### Global Security Asia 2015

**Date:** 3 – 5 March 2015

**Venue:** Suntec Singapore Convention and Exhibition Centre, Singapore

For more information, please log on to:  
[www.globalsecasia.com](http://www.globalsecasia.com) **EST**



## Fostering Innovation For Global Security Challenges At INTERPOL World

The inaugural INTERPOL World, held from 14 to 16 April 2015 at the Sands Expo and Convention Centre in Singapore, will create an environment for INTERPOL and the private sector to identify new technologies to co-create solutions for real world security challenges.

Owned by INTERPOL and supported by Singapore’s Ministry of Home Affairs, the biennial INTERPOL World will bring police and other law enforcement agencies together with security solution providers and security professionals from around the world to identify future challenges and propose and build innovative solutions. INTERPOL World will be held alongside the official opening of the INTERPOL Global Complex for Innovation (13 April) and the 22nd INTERPOL Asian Regional Conference (15 – 17 April).



### Public-Private Partnership

Expert panels will give a greater worldview on security challenges, while the public and private sector will be able to discuss future threats and possible solutions against these.

The jointly created solutions will be presented at the INTERPOL World Expo and Congress.

### Strategic partners of INTERPOL World 2015 include:

Cyber Security	Border Management	Safe Cities	Supply Chain Security
Microsoft	3M Identity Management	Motorola	DCTA
RSA, The Security Division of EMC	Entrust Datacard	Thales Solutions	SICPA
Symantec	Securiport		

### INTERPOL World Expo

The inaugural tradeshow owned by INTERPOL will gather some 250 international industry players and 8,000 commercial buyers, police, law enforcement and government officials.

INTERPOL World is happy to welcome eight national groups from Austria, France, Malaysia, The Netherlands, Singapore, UK, USA and Israel, showcasing their latest technologies and capabilities. Other exhibitors include solution providers from countries including Australia, Canada, China, Czech Republic, Germany, Japan, Portugal, Sri Lanka, Sweden, South Africa, and Turkey.



Within the exhibition, there will be a Demo Area, INTERPOL World TV and INTERPOL World Theatre to allow knowledge sharing amongst industry players and visitors.

## INTERPOL World Congress

A knowledge sharing forum where industry experts and strategic partners will engage in discussions on global security threats and present co-created solutions across four key domains: Cyber security, Safe Cities, Border Management and Supply Chain Security.

### Panel Chairs for the domains include:

- **Michael O'Connell**, director, Operational Police Support, INTERPOL, for Border Management
- **Dr. Madan Mohan Oberoi**, director, Cyber Innovation and Outreach, INTERPOL Global Complex for Innovation, for Cyber Security
- **Anselm Lopez**, director, Capability Development and International Partnerships directorate, International Cooperation and Partnerships Division, Ministry of Home Affairs, Singapore, for Safe Cities
- **Michael Ellis**, assistant director, Trafficking in Illicit Goods and Counterfeiting Sub-Directorate, INTERPOL, for Supply Chain Security
- **Kingsley Ejiofor**, deputy director and Head of Legal Division, National Agency for Food and Drugs Administration and Control (NAFDAC), for Supply Chain Security

### Panelists present at the Congress include:

- Qatar Airways
- International Air Transport Association (IATA)
- National Crime Agency
- International Organization for Migration (IOM)
- US National Central Bureau
- Singapore InfoComm Technology Security Authority (SITSA)
- The Netherlands National Police
- Greater London Authority
- Fraunhofer IDM@NTU
- GS1 Global Office
- Shantalla Inc

### INTERPOL World 2015

**Date:** 14 – 16 April 2015

**Venue:** Sands Expo & Convention Centre, Singapore

For more information, please log on to:  
[www.interpol-world.com](http://www.interpol-world.com) **SST**



SOUTHEAST ASIA

# building

SUSTAINABLE ARCHITECTURE • INTERIOR DESIGN • LANDSCAPING

A leading architectural magazine in Asia featuring current trends in building design, interior design, landscape architecture and facility management, plus news, projects, product reviews and reports on international trade fairs since 1974.



**TRADE LINK MEDIA PTE LTD**

101 Loreng 23, Geylang, #06-04, Prosper House Singapore 388399 T: (65) 6842 2580 F: (65) 6745 9517 W: [www.tradelinkmedia.com.sg](http://www.tradelinkmedia.com.sg) E: [info@tradelinkmedia.com.sg](mailto:info@tradelinkmedia.com.sg)

## Asia's Largest Cards & Payments Event - Coming To You in April

The 20th annual Cards & Payments Asia along with its co-located events (Retail World Asia and e-Commerce Show Asia, The Cash Handling Show Asia, Future Bank Asia), is Asia's largest and most holistic smart cards and payments business event. This event will take place from 22 – 23 April 2015 at Suntec Convention and Exhibition Centre, Singapore.

Disruptive forces like Digital money, mobile wallets, Big Data all impacted the banking and payments landscape significantly. Packed with presentations, panel discussions and roundtables, there is no other platform where you can exchange valuable ideas with the game changers of the industry.

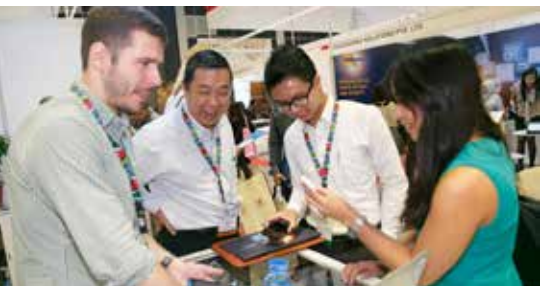
### Here are some highlights you can expect at Cards & Payments Asia 2015

- **8,000 attendees and 160+ C-level speakers**

- Meet and hear from with key senior decision-makers from Banks, Financial Institutions, Telcos, Government, etc.

- **Interactive and Informative platform**

- Keynote sessions, case studies presentations, roundtable discussions and panel discussion to form a strategic platform to learn and exchange valuable insights.





• **4 Streamlined Tracks on Cards & Payments, Future Bank, Retail and Ecommerce**

- With a strong focus on latest trends and innovations that will generate new ideas to take your business further.

• **17 hours of networking Opportunities**

- One of the special features in the agenda to help you expand your network of connections. These well-received networking sessions have become a must-attend part for everyone, join us in 2015!

**Who Should Attend**

Connected commerce is changing the way that retailers and merchants transact with their customer. In turn banks and financial institutions are transforming the way they process payments and are looking to provide innovative payment solutions to their customers.

**The Cards and Payments Asia Conference** is the perfect place to help businesses navigate the complexities of the new payments era and ensure they make the right decisions for their business.

Some incredibly inspirational speakers will be flown in from around the world such as:

- THE FUTURIST - Robert Scoble, Author of 'The Age of Context'
- THE INNOVATOR - Anthony Thomson, Co-Founder Metro bank and now Atom Bank
- THE DISRUPTOR - Mike Brown, Regional General Manager, Uber

They have also put together a programme which include presentations from the likes of IDA Singapore, OCBC Bank, Citibank Malaysia, China Construction Bank, Barclays, Seedrs, Transit Link, iBit, CIMB, Indosat, Transcarta, Telstra, Land Transport Authority, Siam Commercial Bank, Westpac Pacific, DBS Bank, Globe Telecom, ANZ, Security Bank Corporation, Octopus Card, Standard Chartered Bank, PCI Security Standards Council, Union bank of the Philippines, Vietnam International Bank, GDR Intelligence, Electrolux just to name a few.

Plus! exciting roundtable formats which allow you up to 4 hours of intimate interaction with a targeted audience group interested in brainstorming new ideas, challenges or opportunities in the cards and payments space.

All in all, we are looking at 200 speakers, 120 sessions and 1,000 C-level executives from banks, retailers, telcos, government, transport and manufacturers from Asia Pacific and beyond.

**The Exhibition – 200+ exhibitors, four on-floor seminars theatre**

Over 200 companies that supply the following services will be there to showcase their products, services and solutions, live demonstrations of the latest technologies and innovations - you can't miss it!

- ATM Solutions • Banks • Banking Platforms • Bill Validators • Biometrics • Business & Customer Analytics • Card Printers and Manufacturers • Card Readers, Barcode Scanners • Cash Recycling • Cash Hardware Solutions • Cash in Transit • Contextual Technology, Big Data • CRM / Loyalty • Deposits & Cash Device Systems • Data Processing • e-Wallets • Financial Management Tools & Solutions • Fraud & Risk Companies • Fraud and Secure Transactions • Identification and Access • Implementation Partners and Consultants • In-Store Technology / Self Service Kiosks • Mobile Payments, Banking & Commerce • NFC • Notes & Coins Hardware Solutions • Payment Gateways and Platforms • Payment & Transaction Processing Solutions • Point of Sales • Pre-Paid • RFID • Safes • Security • Social Media and Digital Marketing Solutions • Surveillance & Security • Telcos, Cloud and IT Infrastructure • Testing Systems • Turnkey Cash Handling & Management Solutions

**Free access to the themed on-floor seminar theatres**

This is an excellent opportunity to bring your entire team to learn about the hottest topics, applications and solutions that could be the game changer for driving payments, cards, digital identification, RFID, retail and e-commerce. Pre-register online for your FREE Exhibition Pass at [www.terrapinn.com/cardsfree](http://www.terrapinn.com/cardsfree) before 13 April 2015!

**Cards & Payments Asia 2015**

**Date:** 22 – 23 April 2015

**Venue:** Suntec Convention and Exhibition Centre, Singapore

For more information, please log on to:  
[www.cardsasia.com.sg](http://www.cardsasia.com.sg) **SST**



## New Smahome Expo At Secutech 2015 Offers One-Stop Sourcing For Smart Home Security Solutions

The highly anticipated 18th edition of Secutech will again serve as a premier networking platform for security professionals from across the world to form strategic partnerships and distributorships with Asia's top-tier manufacturers and service providers. The event will run from 28 – 30 April 2015 at the Taipei Nangang Exhibition Center in Taiwan.

Security-related devices top demands in the current smart home market. As such, fair organisers will build on the success of the SMAhome product zone at Secutech 2014 and add a new show component in 2015 called the SMAhome Expo. The objective is to streamline sourcing processes from the early stages of design to final production.

Visitors can expect to find products categorised under Home Security, Home Control and Connected Home in the new Expo. A wide spectrum of smart home safety and security-related products including entry-level DIY kits, mid-range solutions, complete interconnected home control systems and wireless door solutions, as well as related technologies such as ultra HD, NFC, cloud storage, and smart smoke detection will be showcased. Expected to be in attendance are telecom companies, Internet service providers, retailers, home security experts, appliance brands, and automation importers and dealers.

Over the course of three days, a projected 200 booths in the SMAhome Expo will house manufacturers who are highly adept at R&D, product design, customisation, efficient production, technical support and international trading. Asia's Top 100 manufacturers will be selected from Taiwan, China and Korea – three manufacturing hubs accounting for nearly 70 per cent of the global home security-based product output. These manufacturing elites, including



names such as Chicony, Climax, D-Link, Forscam, Optex, Sercomm, Starvedia, Wolfguard and others, will showcase the trendiest products and solutions of 2015 to visitors from around the world.

To ensure participants maximise their return at the fair, a number of seminars led by major industry players will take place. A highlight includes the Smart Home International Conference, featuring the latest technological and application developments in various user markets such as telecom and building automation. Attendees can expect to gain insights into the evolving global smart home industry through presentations and interactions with field experts.

For more details about SMAhome 2015, please visit [www.secutech.com/15/SMAhome](http://www.secutech.com/15/SMAhome). Alternatively, please call Ms Sandra Chen at +886 2 2659 9080 ext 761, or send an email to [sandra.chen@newera.messefrankfurt.com](mailto:sandra.chen@newera.messefrankfurt.com).

With 13 events, Messe Frankfurt is one of the world's leading organisers of fairs and conferences for the expanding international field of safety and security technology. Ten trade fairs and three high-level conferences in Germany, Asia, the Middle East, South America, the Russian Federation and East Africa provide optimum opportunities for gaining a foothold in these dynamic growth markets. Further information is available at [www.safety-security.messefrankfurt.com](http://www.safety-security.messefrankfurt.com). **SST**

### Secutech Taipei 2015

**Date:** 28 – 30 April 2015

**Venue:** Taipei Nangang Exhibition Centre

For more information, please log on to:  
[www.safety-security.messefrankfurt.com](http://www.safety-security.messefrankfurt.com) **SST**





## Secutech Thailand 2014 Closes With Success

**S**ecutech Thailand successfully concluded its fourth edition with 145 exhibitors showcasing the latest safety and security products and technologies. The show, held from 26 – 28 November 2014 at Bangkok International Trade and Exhibition Centre, attracted over 3,000 visitors from 22 countries and regions.

The show was organised by Messe Frankfurt New Era Media Business Ltd and its new partner, Asian Exhibition Services (AES). Additional support came from various Thailand official bodies and industry associations.

Opening the event was Mom Rajawongse Sukhumbhand Paripatra, the Bangkok governor (Bangkok Metropolitan Administration). He discussed Bangkok's safe city projects and surveillance initiatives, and how they are expanding to other parts of the country. Paripatra commented: "Bangkok has established itself as a hub destination for the MICE industry here in Southeast Asia. There has been no better time than now to welcome the Thailand edition

of Secutech, as Bangkok leads the way with safe city infrastructure developments."

John Shi, general manager of Messe Frankfurt New Era Media Business Ltd, also added: "As Thailand's political environment is becoming more stable, government-funded infrastructure and transportation projects are resuming after a pause last year. Effective city surveillance, smart access controls, safety and security are major focuses that will lead to a surge in the demand for high-quality related products and integrated solutions. Secutech Thailand serves as a holistic platform where engineers, system integrators and importers can connect with overseas exhibitors. As a result, they can learn about and acquire next-generation technologies."

### Industry professionals regard show as a networking and trade hub

Recognised as a premier trade networking and trade





hub for Thailand's security industry, exhibitors from 16 countries and the region joined to display their solutions over 3,000 sqm of fairground space.

For returning exhibitor, Dahua Technology Co Ltd from China, the fair offered an important opportunity to broaden their business network in Thailand. Tim Shen, marketing director for the company's Overseas Business Centre, shared: "Dahua entered the Thailand market a few years ago and we see the potential for new projects in the public sectors. Secutech Thailand 2014 has attracted a larger crowd of local visitors than the last edition. On the show's first day, we acquired a number of contacts from professionals and industry insiders. This forming of more partnerships and dealerships is imperative for promoting our brand and extending our network."

Leadtek Research Inc from Taiwan was a first-time exhibitor, and specialises in integrated security and data management solutions for hospitals and healthcare centres. Mr Kevin Tay, Sales Manager in the Broadband Communication Product Business Unit, expressed: "With the growing trend of medical tourism in Thailand, we noticed that the demand for intelligent solutions in hospital and healthcare centres is increasing. It is the right time for us to enter the market, so we decided to participate in Secutech Thailand.

We are hoping to network with local industry players, and we are delighted that Taiwanese products are well-received by local professionals. We are always busy dealing with enquiries during the show. Hopefully we can close distributorships with the new leads generated here. The results are satisfying and we will consider exhibiting at the fair again."

As a professional sourcing destination, Secutech Thailand attracted thousands of local and international visitors. Among attendees was A2MG from Hong Kong, an exporter of security products to Europe and Africa. Mr Arnaud Keyren, Trade Agent for A2MG, came to Bangkok solely for Secutech Thailand. He said: "I came to source CCTV products, such as IP cameras and NVR from suppliers in China, Korea, Taiwan and Thailand. I also want to learn more about the market and how it will develop in the near future. At the fair, I have met some manufacturers and suppliers which I am already quite familiar with who carry some interesting products that I am interested in. The

fair is effective for sourcing since I can meet them under one roof."

## Global Digital Surveillance Forum (GDSF) Thailand delivered market intelligence

The annual GDSF Thailand was held alongside Secutech Thailand on 26 November, adding value to participants' experience. Leading brands were invited to share the latest news and their opinions on market trends. These brands included Hayagriva, Hikvision, Osram, WD and others.

Adam Zhan, Asia Business Team Project Manager of Hikvision Digital Technology Co Ltd (China) in Thailand, held a presentation on his company's latest Video Management Software (VMS) for CCTV systems. He mentioned: "The fair is certainly helpful to our business since it gathers all important industry players in one place. GDSF Thailand offered us a chance to promote our VMS, which potentially brings more convenience to end-users from different industry sectors. I hope to start thought-provoking discussions among attending system integrators and potential partners, so we can exchange ideas on how we can meet their expectations and demands with our technologies and services. The results have been positive."

The next edition of Secutech Thailand is scheduled to take place from 25 – 27 November 2015 once again at the Bangkok International Trade and Exhibition Centre (BITEC).

### Secutech Thailand 2014

**Date:** 26 – 28 November 2014

**Venue:** Bangkok International Trade and Exhibition Centre

For more information, please log on to:  
[www.secutechthailand.com](http://www.secutechthailand.com) **SST**

PRODUCTS REVIEW

## Model: Swing Gate SW-HH-03

By: APM Global Co Ltd

① [www.apmglobal.com.sg](http://www.apmglobal.com.sg)

- Minimalistic design blended with space
- Quiet and smooth motion
- Effective transaction to access
- Incorrect passage will be detected
- Available in half height and full height panel
- Fire evacuation mode
- Handicapped friendly



## Model: 12-Megapixel Ultra HD Network Camera (DH-IPC-HF81200E)

By: Dahua Technology Co., Ltd

① [www.dahuasecurity.com](http://www.dahuasecurity.com)

- 1/2.3" 12 Megapixel progressive scan CMOS
- Support H.264/MJPEG dual codec
- Smart triple streams supported
- Max 15fps@12MP(4000x3000)
- Ultra Defog, ROI, EIS
- Smart detection
- Face detection
- Tripwire detection
- Intrusion detection
- Scene change detection
- Auto back focus
- Built-in Mic
- 100/1000M Base-T Ethernet



## Model: Leadtek 3V01 16CH SIP 4 Bay NVR

By: Leadtek Research Inc.

① [security.leadtek.com](http://security.leadtek.com)

- Supports SIP
- Supports 16 channel display
- Dual-screen output
- Supports RAID 0, 1, 5
- Supports four hot swappable hard drives
- The best solution for:
  - Factory surveillance
  - POS integration for retail stores
  - Medical/hospital surveillance
  - Home Care/SMB



# TRADE CONNECTION

Home page announcements for added business opportunities.  
Register now, contact:

Tel: (65) 6842 2580 Fax: (65) 6842 2581 / 6745 9517  
E-mail : [info@tradelinkmedia.com.sg](mailto:info@tradelinkmedia.com.sg)



**DoorJammer™**

WATCH OUR VIDEO

A new and innovative portable door security device for anyone needing privacy and security

For More Information, visit: [www.door-jammer.com](http://www.door-jammer.com)

**COSELEC**

- RFID Electronic Key Management System
- Guard Tour System
- Vehicle Access Control System
- Contactless Smartcard System
- Biometrics Verification System
- Multi - Technology Card Reader

**deister electronic**  
The RFID Company

**WE THINK SECURITY**  
Blk 28 Kallang Place #06-12/14  
Singapore 339158  
Tel: (65) 6741 5200  
Fax: (65) 6741 6200  
RCB No: 19880111W  
Email: [info@coselec.com.sg](mailto:info@coselec.com.sg)  
[www.coselec.com.sg](http://www.coselec.com.sg)

This space could be yours for

US\$		Color				
1x	3x	6x	9x	12x		
500	440	380	320	260		

S\$		Color				
1x	3x	6x	9x	12x		
775	682	589	496	403		

**computar** SECURITY SYSTEMS ASSOCIATION SINGAPORE

**CCTV LENSES**

**CBC.S Pte Ltd**  
RCB no: 199602207D  
Tel: (65) 6275-1221  
Fax: (65) 6275-0766

Internet: <http://www.cbcsingapore.com>

do you have news for us?

**GOOD!**



write to us : [sst@tradelinkmedia.com.sg](mailto:sst@tradelinkmedia.com.sg)

PRODUCTS REVIEW

## Model: COSEC DOOR PVR

By: **MATRIXCOMSEC PVT LTD**

📍 [www.matrixcomsec.com](http://www.matrixcomsec.com)

- 128 x 64 Dot Matrix LCD
- Palm Vein, Proximity and Smart Card and PIN
- 20,000 Palm Vein Templates
- 10,000 Users and 1,00,000 Events Capacity
- 1:1, 1:G, 1:N Matching Algorithm
- Built-in Wi-Fi, Ethernet & Mobile Broadband (2G/3G)
- Tamper Detection



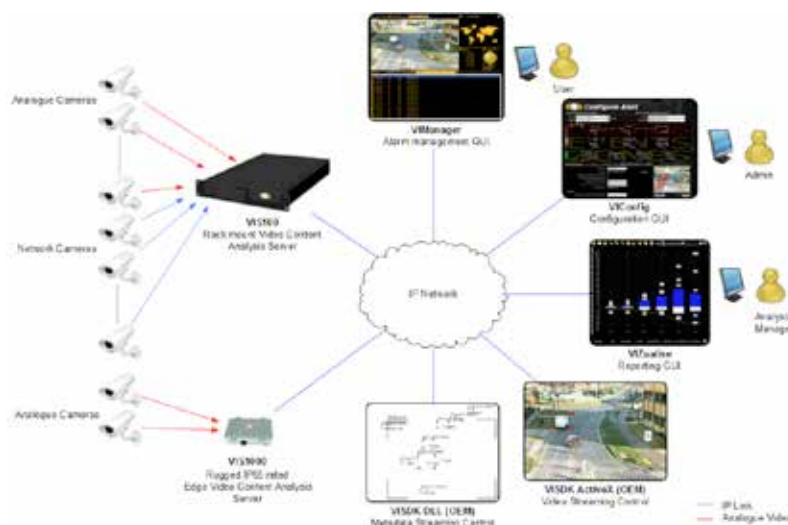
## Model: VISuite 10.1

By: **Ipsotek**

📍 [www.ipsotek.com](http://www.ipsotek.com)

VISuite is an advanced video analytics platform that combines behaviour analytics and face recognition to provide sophisticated security, operational and business intelligence solutions to the commercial and public sectors. Unique features of the product include:

- **Patented Scenario Based Rule Engine** to build an exact description of target behaviour via simultaneous or sequenced scenario rule combinations for a human-like understanding of a scene
- **Hybrid Video Analytics approach** that combines predefined rules with cognitive intelligence for fast configuration without compromising accuracy of results
- **Patented easy and scalable configuration** taking the complexity out of deploying video analytics, especially in large projects, with a unique template-based configuration technique
- **Highly flexible alarm mechanism** combined with an adaptive filtering technique that automatically disqualifies false alarms
- **Tool box of detection modules** that operate robustly in both sterile and crowded environments
- **Choice of deployment models** with content analysed centrally or remotely at the camera-end (IP or analogue)
- **Advanced Face Recognition** functionality to support watchlist, whitelist, visit metrics and forensic face search capabilities





# Subscription Form

Fax your order today  
**+65 6842 2581**

(Please tick in the boxes)

**Southeast Asia Building**




**SINCE 1974**

1 year (6 issues)

Singapore	S\$45.00
Malaysia / Brunei	S\$90.00
Asia	S\$140.00
America, Europe	S\$170.00
Japan, Australia, New Zealand	S\$170.00
Middle East	S\$170.00

**Bathroom + Kitchen Today**




**SINCE 2001**

1 year (4 issues)

Singapore	S\$32.00
Malaysia / Brunei	S\$65.00
Asia	S\$80.00
America, Europe	S\$130.00
Japan, Australia, New Zealand	S\$130.00
Middle East	S\$130.00

**Southeast Asia Construction**



**SINCE 1994**

1 year (6 issues)

Singapore	S\$45.00
Malaysia / Brunei	S\$90.00
Asia	S\$140.00
America, Europe	S\$170.00
Japan, Australia, New Zealand	S\$170.00
Middle East	S\$170.00

**Lighting Today**



**SINCE 2002**

1 year (4 issues)

Singapore	S\$32.00
Malaysia / Brunei	S\$65.00
Asia	S\$80.00
America, Europe	S\$130.00
Japan, Australia, New Zealand	S\$130.00
Middle East	S\$130.00

**Security Solutions Today**



**SINCE 1992**

1 year (6 issues)

Singapore	S\$45.00
Malaysia / Brunei	S\$90.00
Asia	S\$140.00
America, Europe	S\$170.00
Japan, Australia, New Zealand	S\$170.00
Middle East	S\$170.00

**Lighting Audio Visual Asia**



**SINCE 2013**

1 year (4 issues)

Singapore	S\$32.00
Malaysia / Brunei	S\$65.00
Asia	S\$80.00
America, Europe	S\$130.00
Japan, Australia, New Zealand	S\$130.00
Middle East	S\$130.00

**IMPORTANT** Please commence my subscription in \_\_\_\_\_ (month/year)

**Personal Particulars**

NAME: \_\_\_\_\_

POSITION: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TEL: \_\_\_\_\_ FAX: \_\_\_\_\_

E-MAIL: \_\_\_\_\_

Professionals (choose one):

Architect       Landscape Architect       Interior Designer       Developer/Owner

Property Manager       Manufacturer/Supplier       Engineer       Others

I am sending a cheque/bank draft payable to:  
**Trade Link Media Pte Ltd, 101 Lorong 23, Geylang, #06-04, Prosper House, Singapore 388399**  
RCB Registration no: 199204277K \* GST inclusive (GST Reg. No: M2-0108708-2)

Please charge my credit card (circle one): Amex / Diner's Club

Card Number: \_\_\_\_\_ Expiry Date: \_\_\_\_\_

Name of Card Holder: \_\_\_\_\_ Signature: \_\_\_\_\_

PRODUCTS REVIEW

## Model: GT06N

By: Shenzhen Concox Information Technology Co., Ltd

📍 [www.iconcox.com](http://www.iconcox.com)

- **Tele-cut off (petrol / electricity) function**  
You can track your vehicles through sending messages on the platform in the case of its being stolen
- **Geo-fence function**  
It is unnecessary to worry about your car being stolen and cannot being back because when your car is moved out of the Geo-fence the alarm will start and you can track your car through the platforms
- **SOS alarm**  
You can alert your alarm in the case of your being robbed or other dangerous ones
- **Low battery alarm**  
The device will alert you when the power is low so that you can be kept in a safe status all the time
- **Real-time tracking**  
The device can track your vehicles in real time and remind you of the vehicles' status all the time
- **Built-in backup battery**  
When your vehicle is in low power status, the built-in backup battery will keep your device power on even the main power is disconnected.



### ADVERTISERS' INDEX

CARDS & PAYMENT ASIA 2015	31	MORSE WATCHMANS	41
DELTA SCIENTIFIC	7	MYANMAR SECURITY EXPO 2015	49
EA MSC	79	PACIFIC-TEC SCIENTIFIC	19
EVOLIS ASIA	3	PANASONIC	9
FUJIFILM	43	SAFETY & SECURITY ASIA 2015	59
GENETEC	17	SECUTECH TAIWAN 2015	63
GIGA-TMS	73	SECUTECH VIETNAM 2015	71
GLOBAL SECURITY ASIA 2015	35	SIDEP ELECTRONICS	1
HID GLOBAL	OBC	SIEMENS	15
IFSEC SOUTHEAST ASIA 2015	39	STRATEL	13
INTERPOL WORLD 2015	IBC	TJ SYSTEMS	69
JVC KENWOOD	5	TRADE CONNECTION	137
MICROENGINE TECHNOLOGY	11	ZHEJIANG DAHUA	IFC



# INTERPOL WORLD 2015

14 - 16 APRIL 2015

Sands Expo & Convention Centre, Singapore

## PLAN YOUR VISIT NOW



CYBERSECURITY



BORDER  
MANAGEMENT



SAFE CITIES



SUPPLY CHAIN  
SECURITY

### YOUR PARTNERSHIP PLATFORM

#### INTERPOL World Public-Private Partnership

- Game-Changing catalyst of innovation to address global security challenges

### YOUR SOURCING & BUSINESS PLATFORM

#### INTERPOL World Expo

- 250 exhibitors from over 25 countries
- Be the first to view new and innovative technologies

### YOUR KNOWLEDGE & NETWORKING PLATFORM

#### INTERPOL World Congress

- Launchpad of co-created innovative solutions with leading private-sector security solutions providers

**EARLY BIRD ENDS 27 FEB 2015**  
(LIMITED SEATS ONLY!)

## YOUR BUSINESS AND NETWORKING ENGINE

Register online now at [www.interpol-world.com](http://www.interpol-world.com)

Event Owner



Supported By



Supporting  
Knowledge Partner



Held In



Managed By



# Unrivaled choice from the leader in ID card solutions



**Invest with confidence in the most comprehensive range of easy-to-use, versatile & upgradable FARGO® ID Card printers from industry leader HID Global.**



Choosing the right ID card printer can be a challenge. The FARGO® range of easy-to-use, versatile and upgradable portfolio of printers allows organisations to make the perfect match. This advanced range of printers and encoders is designed to fulfil the demands of the most demanding organisation in terms of high quality, high security ID badges. Make the right choice, invest with confidence in a printer which has the capability to meet your customers needs now and far into the future. Look for Genuine HID products for guaranteed quality every time.

**For more information on FARGO Printers, visit [hidglobal.com/fargo-cardsnow](http://hidglobal.com/fargo-cardsnow) or contact HID at +852 3160 9800 or email [asiasales@hidglobal.com](mailto:asiasales@hidglobal.com).**