

# SECURITY Update

CREATING BUSINESS OPPORTUNITIES



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## Access control goes intelligent to help the 'return to the office'



Tim Northwood, General Manager at Inner Range, offers a view on how businesses can reboot their access control security systems to cater for a safer environment as workers return to offices.

The much anticipated 'return to the office' this summer after months of lockdown and home working has rightly prompted many employers and commercial landlords to think again about the access and security systems they have in place to help create safer working environments.

Reducing crowding, minimising touch-points and keeping accurate tabs on who is where on site are high on the agenda, and many will be looking to change or upgrade existing access and security systems to help meet these new needs as workers gradually return.

What's more, with hybrid working looking like it will be the norm in many organisations,

it's expected that some will choose to relocate to multi-tenant offices where robust cyber security, including between tenants, becomes even more important.

Here's what to consider if you, or your clients, are looking to reboot their access and security system.

**Why integrate?** Pre-COVID, site managers may have managed with a relatively straightforward access and intruder detection system integrated with CCTV. But the benefits of more sophisticated integration are significant, especially when you are managing thousands of users a day.

For starters, one integrated system means less cabling and fewer systems to maintain and service. But more importantly, integration allows for a much more superior system including providing site managers with more information, all in one place. It can also allow for

intelligent 'cause and effect' monitoring, such as CCTV footage automatically appearing if a door is left open or another alert is triggered. All of which makes it easier for security managers to quickly and efficiently deal with situations on site.

Integration also offers the opportunity to create highly bespoke solutions. For example, if you want high level lift control that automatically directs users to the fastest lift for their home floor, to use keyless bike lockers, or for users to be able to park their cars easily via ANPR, including recognising 'priority' users, such as those with a disability or executives, or for a complex lockdown protocol in the case of an emergency. All this is possible with an intelligent access control and security system.

**Trouble-free access for users:** For users, integrated access control means they can use their smartcard or mobile phone to open doors,

call lifts, enter car parks and even pay for drinks, snacks and meals with almost no touch points or hold-ups. They don't need a collection of keys and passwords or PINs. One card, or phone, opens everything they need. Even Two Factor Authentication (2FA) usually only requires users to have a phone, so you can still layer on extra security if you need it, with minimal fuss for users.

**Managing visitors:** Integrating visitor management software with your access control system has many benefits, especially for offices with many different tenants. Each individual company can create its own visitor

passes without having to go through a central security team, and these can be sent to visitors digitally and appear automatically at the right date and time on their phone with a QR code. The passes include access information about floors, doors and other access points the visitor will need to reach, and ensure they can't go anywhere else in a shared office block.

**Occupancy thresholds:** Another way access control systems can manage the flow of people is by setting occupancy thresholds. Users can be counted in and out of entire buildings, specific areas, individual offices or rooms, car parks

and lifts. Access can be restricted once an occupancy threshold has been reached, until there is a spare space. All information about occupancy can be transmitted to the site health and safety manager, or facilities manager, for real-time monitoring and alerts.

**Tracing people and contacts:** Good access control systems allow you to identify close contacts of anyone displaying symptoms of COVID-19, or other infectious diseases, by generating detailed reports of where the infected person has been and who else has been near them.

A contact tracing re-  
*Contd... page 4*

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Dear Reader

In the 'new normal' there is predicted growth in demand for unified management solutions that encompass security, safety, building management and databases allowing integration with corporate systems for human resources, workflow scheduling, and visitor management. The various subsystems in a building have traditionally been operated separately, each with their own IT structure. However, as the number of subsystems increased, the case for integrated solutions also grew. Modern buildings have changed into industrial control systems. By embedding IP based technologies (IoT) throughout the buildings and by connecting sensors, controllers and supervisory software, building owners enjoy a low-cost management of their assets, with minimal staffing.

These solutions - which are now straightforward to implement, maintain and extend, are increasingly getting SaaS based, helping users to benefit from data intelligence providing insight on all aspects of activity on their premises. All of the much needed operational systems and functions in a building can be controlled by integrated building automation system software. The software can control and manage all of the following building control systems: Lighting control, Heating ventilation and air conditioning (HVAC), Air quality control, Energy management, Access control/security systems, Elevators and escalators, Critical environments, Fire and life safety systems/smoke evacuation, Building condition monitoring, Power monitoring, Occupancy levels, and more. As building use and occupancy patterns change, the ability of companies to make decisions based on granular data from access, video and other systems will become ever more important.

'Data' is the key word that defines the development of our modern society in the past decade. The collection, storage and analysis of data from a multitude of sources for a vast variety of purposes is driving the world we live in, not least our buildings. Integrated Building Management Systems (IBMS) have evolved to be the focal platform for coordination of data gathering and the subsequent analysis and use of the created intelligence.

'Interoperability and Connectivity' would probably be the other two key words to define the evolution of our contemporary society. For all the system modules that manage the functioning of buildings efficiently, they need to be compatible with each other. For example, the visitor management system should be compatible with the access control and fire alarm systems, as in case of an outbreak of fire, it becomes extremely important to find out where the employees and visitors are in a building. Now in the post Covid era, even managing occupancy levels and controlling the quality and flow of air and their correlation has become critical. Connectivity also enables remote monitoring and control of IBMS.

Not only do the IBMS create greater efficiency and flexibility for building managers in managing the building operations, maintaining the engineering systems and the infrastructure, they also increase safety and security for a building's occupants and assets, as well as help in responding effectively to a wide variety of emergency situations.

While all of this may sound wonderful, there is a downside to their deployment. It has been observed that these systems are often accessible from the Internet and remain susceptible to cyber security attacks, enabling malicious actors to access the building administrator's dashboard. The execution of these attacks enables an attacker to steal data and access and manipulate doors, elevators, air-conditioning systems, cameras, boilers, lights, safety alarm systems in an entire building.

As IBMS solutions are today at the heart of many critical infrastructures, their security is vital.

Till we meet next month, Stay Safe and Keep Others Safe.

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## ProdataKey launches Red 2 Controller and Red Readers to provide premium levels of security and performance



ProdataKey (PDK), the manufacturer of the cloud access control platform built for mobile, announces the release of its new Red 2 Controller, Red Readers, and Red High-Security Credentials, all components of its new high-security line of hardware called PDK Red.

The Red lineup represents a new class of OSDP-compliant, multi-technology readers, controllers, and credentialing options appropriate for both daily installs and the most demanding

security applications. Red 2 and the Red Readers are powered by PDK's pdk io mobile-first, true cloud access control solution, bringing together the industry's most convenient access control experience with premium levels of security and performance.

The new Red Readers support Red 13.56 MHz High-Security smart credentials, 125 kHz Proximity cards, and mobile access options. OSDP and Weigand protocols are supported. The devices may be used in-

doors and outdoors, and accommodate multiple technologies within a single unit. Mullion, Keypad, and Single Gang form factors are available. Red Readers are enabled for secure channel and remote firmware upgrades and autodetect.

Red 2 is a two-door controller that includes built-in Ethernet connectivity and self-discovery, simplifying IP configuration and functionality. It is equipped with OSDP functionality, an onboard power supply, and a fully supervised power circuit that monitors input, output, battery voltage, and overall controller health.

Both readers and the Red2 controller are appropriate for new installations, retrofits, or expansions of existing PDK systems. Red High-Security Credentials are available as 13.56 MHz smart cards or smart fobs. Smart credentials contain a computer chip programmed with personal information about the cardholder and permissions for where they can enter.

In addition to providing more secure physi-

cal access control, they can be programmed to control logical access to corporate IT networks. The Red High-Security credentials feature 8K of memory and can be read from a distance of up to 3" for printable cards and mag stripe cards, up to 1" for key fobs.

Jeff Perri, President and COO of ProdataKey says, "Access control is the security platform used more than any other part of a building's framework, and our new Red line is in a class of its own, in terms of a physical security product. From design through development, we've worked to deliver a solution offering usability and performance beyond compare."

As demand for access control continues to expand, the security and functionality delivered by our Red Readers, Red 2 Controller, and Red High-Security Credentials combined with the anytime, anywhere, any device convenience of our Pdk io platform gives PDK integrators an edge within a very competitive marketplace."

## GeoArm launches the 2GIG EDGE Wireless Security System for DIY home security



The 2GIG EDGE wireless security system sets a new benchmark in form and function with its sleek design that is thinner and more powerful than ever. The panel contains a wireless 7" touchscreen control panel that comes with a built-in dual-path Wi-Fi/cellular AT&T or Verizon LTE alarm communicator that is powered by Alarm.

com and GeoArm. With on-the-edge processing technology, the 2GIG EDGE enables touchless Bluetooth disarm capabilities. The EDGE panel also features facial recognition and analytics within the panel so private data stays private for greater peace of mind.

The EDGE can add up to 100 users, 32 keyfobs,

eight keypads, 100 wireless zones and even has two wired zone inputs. 2GIG has developed a wide range of eSeries encrypted wireless sensors that may be added to the EDGE panel, together with older non-encrypted 2GIG-Series security sensors.

It can also integrate Z-Wave and Z-Wave Plus sensors so users can take control of their smart home automation. For more complete automation, users can create and execute scenes and schedules. Additionally, the panel is also compatible with voice controls through Google Assistant, Amazon Echo and Siri Shortcuts. So, you can easily lock your front door from your couch by asking "Alexa" or "Siri" to do so!

For video surveillance

solutions, the EDGE can integrate with the full line of compatible Alarm.com security cameras and video doorbells. Having a built-in front video camera, the 2GIG Edge can also display the live video on the touchscreen and/or up to four camera feeds at the same time.

With cutting-edge enhancements such as double the viewing area, higher resolution, two speakers and dual microphones, the EDGE delivers superb audio quality and two-way voice communication. Together with smart automation, the EDGE was developed as an all-in-one small business and home security solution for the DIYer.

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## TOP INDIAN WOMEN INFLUENCERS IN SECURITY



25th August 2021

Globally women are playing a key role in the advancement of the profession of security in all sectors, verticals and levels of the industry.

In order to recognise and honour the accomplishments, value and contributions of women in this vital sector of the economy, SECURITY TODAY & SECURITY UPDATE in association with InfosecGirls and WISECRA announce the "Top Indian Women Influencers in Security" recognition for the year 2021.

In 2020, this accolade was developed to help recognise women in security in India who made significant contributions in shaping the industry and shaped the path for future generations of professionals. 20 torch bearers were recognised from 272 nominations received in a virtual ceremony by the nation's 1st, most famous & iconic lady IPS officer, Her Excellency, Dr. Kiran Bedi, the then Hon'ble Lieutenant Governor of Puducherry. Distinguished senior people from different sectors were carefully chosen as 'members of the jury' for this event.

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Contd... from page 1

## Access control goes intelligent to help...



But the best enterprise-level access control systems also offer ‘partitioned sites’. This allows security managers to create users and other global entities that only exist within the partition they were created in. The partitions are completely isolated and invisible to users in other partitions, such as other tenants in the same building, and greatly reduces the chances of cyber criminals or rogue users accessing protected areas and information.

### Remote monitoring:

The ability for security managers to login remotely was essential even before the pandemic, so they could check details if an alert was triggered. But the need for remote access has increased during lockdown with continued restrictions around social distancing.

Integrators need to consider the most flexible and secure remote access for their customers, which could be via a web client, or a fixed/floating client and a secure encrypted VPN or tunnelling protocol. Whichever way, security managers for large or multi-tenant offices need to be able to access the system from home on an agreed laptop or app on their phone.

**Robust cyber security:** Cyber security is important for all sites, and you should expect your access control system to offer end-to-end encryption across any in-house private communication network or between access control system controllers, servers and door modules, or when the core system integrates with third-party products, such as CCTV.

port can be generated and shared quickly and easily. It can show which doors an infected user has passed through, how much time they spent in each area, what time they badged a reader and which other users were near them up to the time.

**Smart building management:** Whether you want to automate lighting, heating or air conditioning based on the number of people on site, use ANPR to help users park, ensure cashless transactions for on-site canteens and cafes, or even ensure automated reminders are sent to employees with professional qualifications when they need renewing (particularly important for first-aiders, or other health and safety requirements) this is all possible with intelligent access control.



quicker to administer than key-cards, which brings significant cost savings. Deploying mobile keys on employee smartphones removes any need to purchase plastic cards or pay for their printing. Any missing plastic credential needs replacing; cancelling and reissuing a mobile credential is essentially costless. Mobile access control also enables a business to reduce its use of non-recyclable plastics.

Third, the security of mobile credentials improves on traditional card-based access control. Losing an RFID card or fob can be a worry and may not be missed right away. Such an event obviously threatens site security. However, almost everyone would notice a missing phone more quickly.

But what of the challenges of switching standard electronic access control for mobile access — especially for businesses which may not have a large or specialist in-house security team? If businesses choose the right solution, the challenges of upgrading to mobile keys and access management can be far fewer than many imagine.

In many cases, there will be no disruption to existing doors or door hardware, and no drilling at all around the door. Some electronic door locks are compatible out of the box with both RFID and mobile credentials. The same reader can be used interchangeably with standard plastic cards and a smartphone. User experience at the door is identical: Just tap or move the phone close to a reader to unlock.

In most places, employees can use their own phones. A system offering access via a secure iOS or Android app presents no obstacles to many Bring Your Own Device (BYOD) policies.

With the right mobile access control system and technology, businesses save the costs involved in replacing lost or damaged credentials. Facilities staff save time previously wasted in handover meetings, getting new or replacement plastic key-cards to the right people.

Mobile access based on a secure app streamlines the process of system management. Updating, revoking or adding new access rights takes place in-

stantly over the air. Many app-based systems offer the ability to store keys for several sites within one secure environment. Key-holders can travel to multiple locations contact-free.

“The Openow mobile access solution for Smartair, for example, enables security managers and site users to manage all their mobile keys from one app,” says Mikel Gaztañaga, Smartair Sales Manager at Assa Abloy Opening Solutions EMEA. “Many businesses have already followed an easy upgrade path to mobile access. Smartair wireless locks are deployed in buildings and businesses all over the world. The whole system makes switching to mobile simple and cost-efficient. Existing Smartair systems don’t even need new hardware to upgrade.”

For users, the benefits are clear. The device in their pocket does the job of one or several plastic cards. If they’re carrying their phone, they already have their keys with them — secure, convenient and almost cost-free.

appeal, and will meet the specific needs of owners of modern residential and office buildings.

2N® IP Style’s attractive, large 10” touchscreen LCD provides a complete, detailed view of incoming visitors. To ensure its durability, it is protected by scratch-resistant 4-mm tempered glass. Users will also benefit from the ‘smart-phone-style’ touchscreen display with instant response and smooth animations.

In another breakthrough, the 2N® IP Style has also been designed to deliver different office and residential screen capabilities in one. In this way, it can meet the differing needs of commercial office and luxury developments.

Drawing on the processing power of Axis’ Artprec 7 chip and the flexibility benefits of edge IP devices, the 2N® IP Style gives the building owner or user all the decision-intelligence they need at their door. Because of this new chipset, the intercom platform can handle multiple simultaneous full HD streams and provides a full-colour picture without any artificial light.

Its 5MPx camera’s incorporation of Wide Dynamic Range (WDR) technologies ensures full image quality and identification of the visitor, even in darkness or uneven lighting conditions outside. In these ways, this intercom sets a new benchmark for ease of use and building security.

ty.

Based on feedback from security and installation companies, 2N has also developed a new installation mechanism for the new intercom. The patented tilt-out system allows installers to use both hands to work with the cables, making installation faster as well as easier.

Michal Kratochvíl, CEO of 2N Telekomunikace, said, “The 2N® IP Style revolutionises access control for modern apartments and office buildings. The intercom incorporates the best camera, the best video transmission, and display, and has a quality user interface which can be activated by a simple tap of a smart device — all wrapped in a timeless design.”

The new intercom unit allows faster and simpler access because it supports the widest range of access control technologies — including the latest and fastest Bluetooth-enabled mobile access technology, WaveKey, as well as all card technologies. It also has a smart PIN keypad.

With WaveKey access technology implemented in the intercom, the 2N® IP Style supports Touch, Tap in App, and Motion modes. The Motion mode means that if a user has an authorised application on their mobile device, the unit’s camera registers any movement from that person in a 170° field of view and automatically opens the door.

## HENSOLDT’s collision warning system for drones ready for take-off

Sensor solutions provider HENSOLDT is vigorously pushing ahead with the development of a collision warning system for civil and military drones: after the radar sensor as the core element of a collision warning system was already successfully tested in flight as part of the ProSA-n (military) and KoKo2 (civil) study programmes, work on the software required for interaction with an autopilot is well advanced.

As early as this summer, a demonstrator of the collision warning sys-

tem is to prove in-flight tests that the sensor performance and the software-supported avoidance logic correspond correctly with the autopilot. “We have progressed faster than expected with our ‘Detect & Avoid’ radar,” says Erwin Paulus, Head of HENSOLDT’s Radar Division.

“In the meantime, the complete functional chain from detection and classification to the initiation of avoidance manoeuvres is working so reliably that we are sure we will be able to demonstrate a basic system for

Michal Kratochvíl added, “Developers and users of luxury homes and high-end offices expect the highest standards in building security and ease of access. We are meeting, and indeed exceeding, these needs with the new 2N® IP Style, which redefines the performance, capabilities, and aesthetic appeal of access control units.”

“The new intercom draws on our 30-year record in access control unit design and unrivalled expertise in open standards integration. Through that commitment to cutting-edge devices and setting industry benchmarks, the 2N® IP Style brings together the power of Axis’ Artprec 7 processor, beautiful glass panel housing, and the speed and simplicity of Bluetooth with WaveKey access technology.” “We believe the 2N® IP Style will become the intercom of choice for forward-looking developers for many years to come.

The 2N® IP Style unit is designed and manufactured with a commitment to open protocols so, as with other intercoms from 2N’s portfolio, it can be integrated with the best in high-performance third-party systems. Manufactured in the Czech Republic from hard-wearing materials, and with a protection certification of IP65 and IK08, the 2N® IP Style is well suited to outdoor and harsh environment applications.



uses the latest Active Electronically Scanning Array (AESA) technology, which allows multiple detection tasks to be performed simultaneously and enables very rapid target detection. The scalable radar can be used in large military drones as well as on-board smaller civilian drones.

HENSOLDT is one of the leading radar man-

ufacturers in Europe. For the production of the high-frequency components required for the AESA technology, the company operates one of the largest clean room production facilities in Europe at its Ulm site.

Its radars and radar components are used on aircraft, satellites, ships and in-ground systems. Among the platforms

equipped with them are the Eurofighter fighter aircraft, the TanDEM-X satellites, the US Navy’s littoral combat ships and the frigates of the German Navy. In addition, HENSOLDT supplies air traffic control radars and transponders to air traffic control authorities and armed forces around the world.

## Alarm Engine from ELK Products



ELK Products Inc. has introduced the Alarm Engine®. ELK’s Alarm Engine is a new IP and cloud-centric platform for security, automation, safety, and access. This innovative platform is designed for easy installation and convenient operation. The Alarm Engine features lean architecture with a real-time operating system, making it fast, agile, and efficient.

ElkConnect® brings the power of the platform to life. This advanced app and cloud portal streamlines system configuration, management, and control with powerful tools and a consistent user experience. A proven, robust automation environment fuels the Alarm Engine with simplified customization and unrestricted creation of rules. The Alarm En-

gine ecosystem includes a comprehensive video offering with professional grade cameras, intelligent analytics, and interactive controls.

ELK’s first model based on the Alarm Engine is E27®, a hybrid alarm control system with robust hardware and wireless capabilities. The on-board Ethernet port or optional Wi-Fi adapter simplify IP connectivity. E27 supports a wide range of wireless sensors (both two-way and one-way) and easily integrates with a variety of Z-Wave devices. It offers a proper upgrade path to bring modern features to existing security systems. E27 provides a better solution at half the cost of popular “all-in-one” systems that rely on translators to utilize existing wired sensors. It is also an in-

credible solution for new installations, ensuring the integrity of the system by keeping the system core in a secure location.

“The exit in recent years of multiple hardwired alarm panels has left a large hole in the market. Installers are unsatisfied with their options today. ELK Products’ Alarm Engine not only fills that hole but transports the category forward by decades,” said Sean Curley, President of ELK Products Inc. “With very attractive installer pricing, E27 makes for a powerful but simple and really cost-effective upgrade to millions of hardwired panels in the market, providing installers with an easy way to maintain customer loyalty.”

## 2N launches a new flagship intercom for the office & residential market: The 2N® IP style



2N, an internet-enabled intercoms, and access control systems company, has launched the

new 2N® IP Style intercom with a next-generation platform supported by an Axis processor.

The 2N® IP Style sets new standards in access control simplicity, performance, and aesthetic

## Switching to mobile access is easier than people think

Making the switch to mobile access control can often seem daunting to many. Questions may arise around cost, practicality and the potential need for new door hardware. Yet going mobile is actually a lot simpler and quicker than people think, as a new guide explains.

According to Assa Abloy, data from the recent Wireless Access Control Report 2021 suggests almost two-thirds of organisations have already adopted mobile access control, or plan to do so within two years. And, industry analysts Omdia estimate that downloads of

mobile credentials grew by 220% between 2018 and 2019 alone in one of their reports.

The main benefits of mobile access control, the new report suggests, are convenience, cost and security. All three of these advantages can apply for any scale of organisation.

The user convenience of replacing plastic key-cards with secure “mobile keys” on a smartphone is obvious. Identical benefits have already brought a mobile-first ethos to banking, travel booking, food delivery and many more sectors.

From a business perspective, too, the option for facilities managers to use their own smart device to issue, amend or revoke an employee’s mobile key brings added flexibility. It frees security staff from the desk and its dedicated admin PC. As our work patterns become fluid — IBM estimates 1.87 billion people will be mobile workers by 2022 in a research report — the ability to get the job done efficiently from anywhere is becoming essential. Access management via smartphone offers this.

Secondly, mobile credentials are simpler and



## Garmin's new Dash Cams are like mini live-streaming security cameras for your car



Garmin has just announced its all-new range of voice-controlled dash cams for 2021, complete with automatic video storage and Live View monitoring options to help drivers capture the moment when incidents occur. They're called the Garmin Dash Cam Mini 2, 47, 57, and 67W, and follow on from the very well-reviewed Garmin Dash Cam 66W and Garmin Dash Cam Mini.

The pocket-sized cameras are designed to remain virtually unnoticed on the windshield while recording and automatically saving video of any detected incidents to Garmin's new online Vault – a secure and simple way users can review and share video clips.

Garmin has also added new Parking Guard and Live View features to the lineup, which will

help you keep an eye on your car when it's parked. You'll get alerted of activity with a smartphone notification through the Garmin Drive app.

Whether you choose the car key-sized Dash Cam Mini 2, or step up to the Dash Cam 47, 57, or 67W, you'll get crisp HD video with proprietary Garmin Clarity HDR (High Dynamic Range) optics which capture sharp details day and night. You can also speak commands to save videos, start and stop audio recordings, snap still pictures and more.

If you opt for the 47, 57 or 67W models, you'll also get GPS to show where and when events happen, driver alerts and a clear 2-inch LCD display on the backside of the camera.

Garmin has also in-

troduced Live View monitoring and Parking Guard alerts. This will let you stream video directly from the camera, and will also inform you if an incident is detected around your car when it's parked.

One of our favourite features about previous Garmin Dash Cams is back – voice control – and it's available in English, Spanish, German, French, Italian and Swedish. You also get Driver Alerts, such as forward collision and lane departure warnings that help encourage a safer driving experience. It'll be interesting to test this, as it's not been the most accurate in the past.

And finally, the new Garmin Dash Cams come with a dual USB charger, which provides an extra port to quickly charge additional electronic devices alongside your dash cam.

## Motorola Solutions' Concealed Weapon Detection Solution launched



Motorola Solutions has announced the newest addition to its video security and analytics portfolio, Concealed Weapon Detection (CWD), through an agreement with Evolv Technologies, Inc. The scanning

solution uses advanced sensors and artificial intelligence to detect a wide range of concealed weapons and threats, such as firearms, metallic weapons and improvised explosive devices, on a visitor entering a prem-

ises. The introduction of this technology is a part of Motorola Solutions' ongoing commitment to the innovation and integration of security technologies that help organizations increase safety.

The solution is de-

signed to allow up to 3600 visitors to walk through one of the scanning systems per hour without having to conduct pat downs or empty pockets as the technology can distinguish between personal items and weapons.

If a threat is detected, an alert is displayed on an Express tablet showing the location of the potential threat on the person's body, or in their bag, to security operators. Alerts are sent directly to Motorola Solutions' video management system, Avigilon Control Center

(ACC), which automatically notifies and shares live video with the facility's security team so they have precise awareness of the situation and can support an immediate response.

"Through the use of AI, we are automating and unifying workflows to better protect people against the threat of violence," said John Kedzierski, senior vice president, Video Security & Analytics at Motorola Solutions. "Concealed Weapon Detection is an excellent example of how technology can help en-

terprises prevent threats from turning into tragedies."

In addition, the sensitivity levels on the CWD solution can be adjusted to align with the safety needs of a facility based on their anticipated threat-scenarios. This capability allows for the technology to identify and flag new threat profiles over time, and enables security personnel to manage data and insights that help to provide a safe and positive experience for visitors and staff.

## SAMCON presents new CCTV cameras for the hazardous area



With a length of only 127 mm and a diameter of 48 mm, these ultra-compact cameras complement the current product portfolio of explosion-proof cameras, and not only can be installed easily but are also cost-effective – making SAMCON a full-stack supplier.

Due to the easy integration into existing video management systems and the fact that cameras can be combined flexibly, Samcon's portfolio virtually covers all CCTV applications for hazardous areas.

Whether an only 700g weighing thermal camera, a high-speed system with electronic zoom and focus lens, or a high-speed dome camera is required – Samcon offers secure surveillance for all applications and areas.

The new camera line is suitable for temporary and semi-fixed applications, too. The waterproof IP68 housing is resistant to chemicals as well as to oil and can be installed in locations

where larger equipment does not fit or an installation is difficult due to restricted space.

The ExCam IPP1275 can easily keep up with larger models regarding performance and resolution, even exceeding competitor models in certain functional areas. For example, the camera's progressive scan allows providing high-resolution pictures of moving objects without motion blur. The HDTV resolution (1920 x 1080) and the high-performance varifocal lens master all surveillance tasks and reliably create safe areas.

The ExCam IPP1275 is a modularly designed ATEX network camera and consists of an ultra-compact sensor unit for image capturing as well as the main unit, processing the image. Integrated into the main unit are the network as well as power connection and a storage card slot.

Apart from the ExCam IPP1275, Samcon also presents with the ExCam IPP1280 its first

own thermal camera. Its most outstanding feature is that even in complete darkness, it can still deliver pictures so that no external light sources are necessary.

Just as the ExCam IPP1275, also the ExCam IPP1280 consists of an ultra-compact sensor unit for capturing the thermal image as well as the main unit for processing it.

In addition to that, an analog AHD camera completes the portfolio: The ExCam miniTube is an analog multi-signal camera with very high light sensitivity in combination with an ultra-compact housing and a fixed focal length.

This camera also is designed for applications in hazardous areas, meeting the requirements of guideline 14/34/EU ATEX and IECEx. Due to its ultra-compact size, it is particularly suitable for process observations.

Just as all models of the ExCam Series, also the ultra-compact cameras have been certified ac-

cording to the European (ATEX) and international guidelines (IECEx).

The ExCam IPP1275 as well as the ExCam IPP1280 and the ExCam miniTube are real lightweights and so easy to handle that they can be installed by a single person. This is, for example, an advantage in the chemical industry or on oil rigs with confined spaces and not much freedom of movement.

The easy power supply via PoE makes a separate power line superfluous and contributes, apart from the low weight, to an easy installation. Close to processes or mounted to very small sight glasses, not only the ExCam

IPP1275 always finds its place, for example:

- At sight glasses located between pipe installations for monitoring the flow rate
- Small mixing containers (e.g. for colors or chemical substances)
- A small laboratory size reactors and freeze-dryers and in compact industrial machines

The compact design and its low weight minimize vibrations and allow sufficient space to even place an additional light next to the camera. The cameras are of a rather inconspicuous design and allow, for example, reliable surveillance of

plant filling stations, general plant areas, or vehicles such as tank and lift trucks or cranes.

They help to detect problems, can be used for surveilling machines and production runs, and secure the functionality of components by monitoring them. Just like all other cameras of the ExCam Series, also the ultra-compact cameras are certified according to ATEX and IECEx to guarantee extensive explosion protection. The ex-protected housing covers ATEX groups II and can be used in zones 1, 2, 21, and 22 including the explosion groups IIC / IIIC.

## D-Link elevates security with new cameras and NVRs with 4K UHD and H.265 HEVC support



D-Link has announced a complete renovation of its range of professional video surveillance "Vigilance" with several models of IP cameras and a 16-channel NVR. The objective is to raise the level of security in any IP Video Surveillance system by making the leap to 4K UHD resolutions and with H.265 encoding, technologies that represent an extraordinary improvement in image quality both in streaming and in recordings.

The new Vigilance range includes Dome and Bullet cameras, both indoor and outdoor, and with 8MP, 4MP and 2MP sensors, offering resolutions up to 3840 x 2160, 2592 x 1520, and 1920 x 1080 pixels, respectively. H.265 / HEVC (High Efficiency Video Coding) support across the gamut reduces the required bandwidth and enables both streaming and NVR recording with higher performance without sacrificing image quality or resolution.

Outdoor cameras incorporate an IP-66 certi-

fied weatherproof design, a wide operating temperature range (-30 °C to 50 °C) and they can be installed in adverse environmental conditions. Outdoor dome cameras offer additional protection with their IK10 certified vandal resistant housing.

Designed to provide 24/7 surveillance, D-Link Vigilance cameras can see up to 30 meters away, even in complete darkness, with its night vision capabilities. Additional image-enhancing features such as 2D / 3D noise reduction and Wide Dynamic Range (WDR) mean they are ideal for deployment in low-light or high-contrast environments such as warehouses or building entrances. It has also implemented a new framing filter, corridor mode, an ideal setting for monitoring areas with long corridors. In addition, the 8 Megapixel models have motorized varifocal lenses, a key functionality in critical security environments when zooming for detailed checks of faces, license plates or certain

details.

The range is also designed with built-in 802.3af compliant PoE support, allowing for simplified installation by providing power and data connectivity via Ethernet LAN cable. All models are compatible with the ONVIF standard for integration into any existing video surveillance system.

Regarding recording systems, the new JustConnect 16-Channel H.265 PoE network video recorder (DNR-4020-16P) is an "All in One" solution with 16 integrated PoE ports that can connect and power up to 16 cameras. It has 2 bays for 3.5 SATA hard drives with a capacity of up to 16TB in total. It integrates an intuitive and versatile dedicated monitoring software with advanced functions to control live and recordings, while the USB mouse and keyboard connections and the output for connecting an HDMI / VGA monitor mean that no additional computer is needed. If the cameras are installed on this NVR, remote live monitoring can be carried out through mobiles and tablets with the free JustConnect + app. If you do not want to integrate cameras into this NVR, D-Link offers the free D-ViewCam video management software (VMS), that allows monitoring up to 32 cameras.

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## Axis launches new VISCA compatible PTZ



Axis Communications has launched Axis V5938 PTZ network camera, a new addition to the Axis V59 PTZ network camera series. Ideal for places of worship and distance education, these versatile, professional live streaming cameras combine excellent image quality with smooth PTZ control and broadcast-quality audio for professional broadcasting and live streaming.

Axis V5938 offers effective UHD 4K at 30

fps and 20x zoom. With a VISCA RS-232 based control system, it can easily be integrated with existing AV installations. And, VISCA over IP allows for remote control of multiple cameras via a LAN connection. Additionally, for simple or mobile installations, it includes a 3-month Camstreamer trial license that allows for live streaming to streaming platforms such as Youtube and Facebook Live directly from the camera over an

IP network.

Additional features include 3G-SDI and HDMI outputs and with enhanced security features such as signed firmware and secure boot, these cameras guarantee that the firmware has not been altered and ensure only authorised firmware is installed. Additionally, Axis Zipstream with H.264 and H.265 significantly reduces bandwidth and storage requirements without compromising image quality.



## Inner Range and Antron Security equip new London office with touchless access control solution



Specialist property developer and investor, Kajima Properties' new project development at Coleman Street in the City of London is a luxury multi-tenant office set over seven floors. BNP Paribas acted as the managing agent, while the redevelopment was designed by architect Buckley Gray Yeoman.

The prominent London location is a minute's walk from Moorgate Tube station. The redevelopment included installing elegant external facades as well as creating floors of new office space, and 16,000 sq. feet of retail, leisure and restaurant space. The site offers exceptional internet reliability and speed for tenants, and is one of just 22 buildings in the UK to achieve a platinum connectivity rating by WiredScore, the Mayor of London's digital connectivity rating scheme.

BNP Paribas and Kajima Properties wanted a seamless and highly efficient access system to allow bona fide users and visitors easy access through reception and lifts to their desired location. This needed to be underpinned, but not impinged by, a robust security management system including CCTV to keep people and the building safe. They wanted to keep any waiting time in reception to an absolute minimum to avoid crowding, including good access for disabled users, and for all entries to be touchless. Tenants and reception staff would need an efficient, secure and easy to use system for managing visitors.

While an entry phone would be required for anyone arriving out-of-hours, or at the rear of the property, such as for deliveries and trades people with equipment. Finally, a key part of the brief was for any installed equipment, such as turnstiles and lifts, to be in keeping with the sophisticated, minimal look and feel of the building. The Team Antron Security project managed the design, supply and installation of the access control and security system for the property and acted as the 'go to' contact for clients, Kajima Properties and BNP Paribas.

Inner Range provided the core access and security management system, Integriti, which enabled Antron Security to build the bespoke solutions needed for the project. Inner Range is a globally renowned company in the design and manufacture of intelligent security solutions since 1988.

More than 150,000 Inner Range systems have been installed in over 30 countries till date. The company's flagship product, Integriti, offers enterprise-level intelligent security and integrated smart building controls for single sites through to global estate portfolios.

The building's 2000+ regular users are issued secure proximity cards, carrying encrypted information about when and where the user is allowed to go. Cards are presented to readers embedded in bespoke Integrated Design Limited (IDL) entry turnstiles, which also allows them to be

read by the KONE lift integration.

The high level lift integration with 'destination control' means the lift software takes into account where each of the building's four lifts are, where the user's 'home floor' is, as well as where other users are going/due to go, and instantly calculates the quickest lift for the new user.

The user is immediately directed to the most efficient lift via a display screen on the turnstile. If users are able to go to more than one floor, they can update their preference in the lift itself. For the turnstiles in the reception area, Antron Security and IDL worked closely with the vision set out by the architect to create a high-performing system that was in keeping with the sleek, minimalist design of the building.

A bespoke set up of slim 'speed lane' turnstile pedestals, together with a separate glass gate were an ideal solution for a reception area where space is limited but security provisions and good disabled access are needed. IDL's Glassgate 200 opens away from the user, and closes behind, preventing tailgaters and all IDL items are manufactured in the United Kingdom. Readers for proximity cards and QR codes were set into the speed lanes to create a seamless flow through the reception area.

Inner Range's Integriti also allowed Forge's Bluepoint visitor management system to integrate with IDL's turnstiles and the KONE lifts.

For visitors to access tenanted floors within the building, the following has to take place:

- A tenant creates the meeting via Bluepoint.
- An email is generated and sent to the visitor's inbox where they can create a mobile QR code pass and save it to their smartphone wallet.
- When the visitor arrives, they scan their QR code on their smartphone at the reception desk, at which point their QR code becomes valid on the Integriti access control system.
- The visitor is then able to enter via IDL's speed lane turnstiles, and they are directed by the KONE lift display (which is set into the speed lane) to which lift car they need.
- To leave, the visitor presents their QR code at the speed lane turnstile, which tells the system they're leaving.

- The QR codes are only valid for one entry and one exit, and only on the appointment date and at the planned appointment time. Afterwards, the QR code becomes invalid and is deleted from the system.
- The QR code gives the visitor the ability to access everything they will need, from the entry turnstile and lift through to any locked doors en route.

The integration between Integriti and Forge's Bluepoint visitor management system was achieved with an XML read/write interface, as well as API integration between a SQL database and a cloud-hosted VMS database based on Microsoft Azure cloud services platform. A BTP XIP intercom system was installed to allow visitors out-of-hours to contact the security team, or for deliveries and trades people to use in order to access doors at the rear of the building.

The XIP system uses an ethernet distribution network, which means

the system can be expanded easily, and it's possible to install long-distance connections that data networks can't reach. CCTV cameras from Hikvision's 'superior' range have been installed throughout the site to create a hard-wired IP closed circuit television system. They are integrated with the Integriti access control system, which allows for intelligent 'cause and effect' monitoring.

System protocols automatically bring up specific camera feeds for security managers to view in response to alerts, and footage can be viewed holistically along with other information from Integriti, such as if a door has been left open.

Inner Range's Enterprise product, Integriti, provides seamless integration with a multitude of other smart building management systems, underpinned by robust security. This includes encrypting all communications through every device and interface, and providing intruder detection to European standard EN50131.

## G4S and Nedap help Flemish government upgrade site access



The Flemish Government has chosen AEOS access control by Nedap to secure its sites across Belgium and other European countries. A 6-year framework contract was awarded, beginning in September 2020, to Nedap channel partner G4S. This will involve G4S replacing the technology for more than 4,000 doors with AEOS.

The new AEOS system will accommodate up to 50 software users and will feature various integrations, including visitor management, automatic number plate

recognition, mobile readers and QR code readers.

This agreement with G4S replaces an incumbent supplier that had served consecutive framework contracts and whose technology was installed on more than 2,000 doors. The Flemish Government was looking for an open system that provides the freedom to select which technology it integrates and which installers it works with.

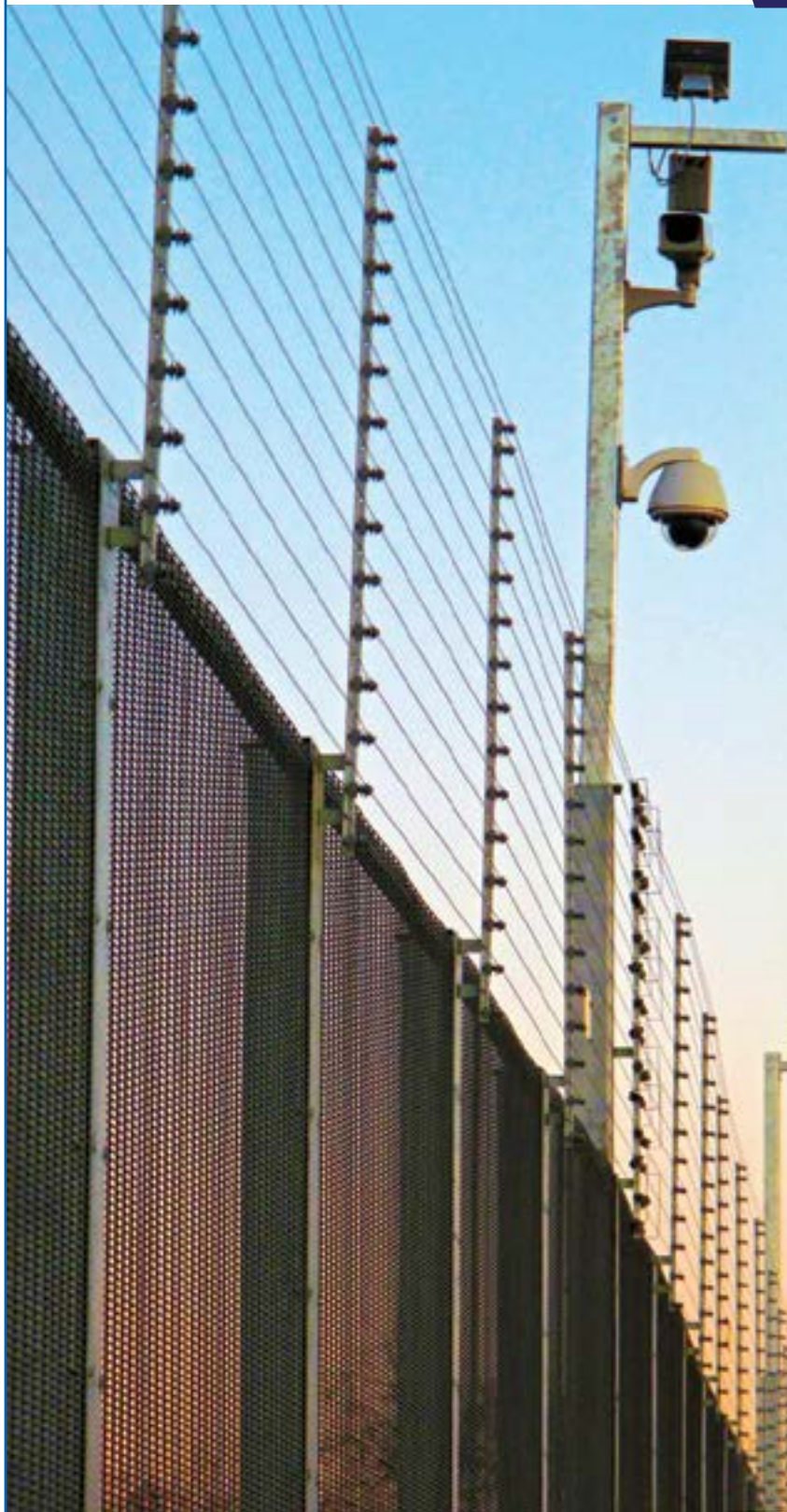
The Government also wants to streamline its systems and processes. It currently has a wide mix of access control systems

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## Hanwha Techwin Wisenet cameras helps protect MFG's electric vehicle (EV) charging hubs



Motor Fuel Group (MFG), the independent forecourt operator, has entrusted Wisenet cameras as manufactured by Hanwha Techwin to help protect its major investment in electric vehicle (EV) charging hubs. With the sales of electric vehicles growing, MFG is accelerating its plans to offer the ultra-rapid, electric vehicle (EV) charging bays – up to 12 charging bays at each location – across its 900+ station network.

Dedicated Wisenet video surveillance systems are being installed to deter and detect vandals, as well as maximise the customer experience by helping MFG personnel to quickly identify if any charging equipment has been damaged. Andrew Edwards, group infrastructure director at MFG, said, “Reflecting the wish of many drivers to own eco-friendly vehicles, we expect the sales of EVs to continue to rapidly increase year-on-year, which is why we have made a commitment to lead the market with the provision of fast, clean and 100% renewable energy.”

The contract to install the Wisenet systems was awarded to AGE CCTV, a division of AGE Electrical Services Ltd. “We have been installing new video surveillance solutions and upgrading ex-

isting systems at MFG forecourts for over 15 years. In all cases, we have used Wisenet cameras in line with MFG’s decision to single source cameras and recording devices from Hanwha Techwin,” said Jason Gargiulo, Managing Director of AGE CCTV.

“It was just a simple matter therefore of working with Hanwha Techwin’s pre-sales and technical teams in order to specify which Wisenet camera from the company’s extensive range, would best assist MFG personnel to observe close up detail of any activity occurring at their EV charging hubs.”

Depending on the number of charging bays at each location, AGE CCTV has installed one or more 5-megapixel Wisenet QNO-8080R bullet cameras. The QNO-8080R is a true day/night camera, equipped with built-in IR illuminators which enable it to capture superb quality images regardless of the lighting conditions. It also benefits from enhanced Wide Dynamic Range (WDR) which performs at up to 120dB to produce clear images from scenes containing a challenging mix of bright and dark areas which normally results in overexposed or underexposed images.

With many MFG (EV) charging sites being unmanned, authorised MFG personnel are able at any time to remotely access the live images captured by the H.265 Wisenet QNO-8080R cameras or retrieve the recorded video of any incidents. They can do so from a desktop PC or laptop by using Hanwha Techwin’s management software or conveniently via their smartphones or tablets using the Wisenet mobile app.

The images are transmitted over 4G technologies and in this respect; the WiseStream II complementary compression technology built into the QNO-8080R is proving to be a significant benefit. Bandwidth efficiency is improved by up to 75% compared to current H.264 technology when WiseStream II is combined with H.265 compression.

As a forward-looking company, MFG has never hesitated to invest in the latest technology to ensure its people, property and assets are kept safe and that they provide the highest quality of service to the customers. MFG’s Andrew Edwards concluded, “We are delighted with how AGE CCTV and Hanwha Techwin are continuing to work in partnership to help us achieve these objectives.”

## TESA launches check-in by PIN solution to enhance guest entries at the hotel

Leisure and business travellers enjoy the convenience of flexible check-in and the safety of contactless arrival. Switching mechanical locking for a wireless electronic sys-

tem can offer both without disrupting hotel aesthetics or day-to-day operations. Guests can enter their room without queuing at reception: It is perfect for hospitality

settings where 24/7 staffing is not cost-effective, as managers of one luxury apartment complex in Spain discovered.

Safety and convenience are now central



to traveller expectations. In 2019, 78% of respondents to a Travel Leaders Group survey wanted to see more self-service check-in. Making this available can save a business money and reduce unnecessary staff workload.

At Harpazul — new holiday apartments close to Galicia’s beaches — stylish electronic locks with integrated PIN keypads now secure the main entrances, recreation areas and individual apartments. Wireless, PIN-operated escutcheons complement the aesthetics. Rooms also have a wall-mounted Energy Saver, which helps Harpazul to minimise wasted energy.

TESA Hotel’s check-in by PIN solution makes arrival safe and stress-free. The guest enters without delay and settles in immediately. Contactless arrival also saves costs, because 24-hour hotel reception staffing is not required. Before they even leave home, guests receive an email with

a unique PIN to enter Harpazul; move through its common areas; and unlock their room. The code expires automatically on scheduled check-out. “This way we offer a better service to the customer because they don’t have to queue at reception,” says Harpazul’s Roi Casal. “Our guests move around without any need to carry a key-card.”

“We have a long, strong record in supplying innovative, trusted locking solutions to hotels and holiday rentals,” explains Inigo Aldalur, Sales Manager at TESA Hotel. “Our entire range of locking devices is wireless, so a structure and its interior design are never disrupted by ugly cabling. Wireless locks are also faster and more cost-effective to install, which helps smooth the transition from mechanical locking to an electronic solution which appeals to the modern traveller.”

Harpazul’s wireless locking system is managed easily and in real

time with TESA Hotel software. Every lock can be controlled or monitored remotely. The same locks are compatible with key-card and smartphone app unlocking, if Harpazul introduces either option in future.

Harpazul’s system administrator automatically receives alerts when a door is opened, a guest turns on privacy mode (DND) or a lock’s battery is low — a rare event, as TESA Hotel locks have a typical battery life of 3 years or at least 75,000 cycles. PIN expiration dates and times are easily amended to facilitate an extended stay or late check-out.

Designed for accommodation of almost any size and type, the TESA Hotel solution is a simple upgrade which unifies locks and software in one system. A broad hardware range includes robust door and in-room devices, all with modern aesthetics. Battery powered and wireless, they come in multiple finishes and designs.

## Global manufacturer selects flexible future-proof access

At newly built commercial premises in Banská Bystrica, Slovakia, power-tool manufacturer Makita stocks and distributes batteries, and runs wholesale supply logistics. They needed an access control solution with a comprehensive range of devices — to secure escape doors, entrances, interior doors and more, and they were searching for a single, intuitive system to control every access point — for now and in the future.

The new Banská Bystrica facility now has an Incedo system controlling access through main entrances, fire doors and emergency exit doors, as well as interior doors fitted with Aperio wireless electronic escutcheons. User-friendly Incedo Business software manages and monitors

everything together from a single control panel. It filters and restricts employee and visitor access to specific areas of the plant.

The modular, platform-based Incedo solution incorporates wired and wireless door locking devices from across the Assa Abloy range; card, token and secure mobile key credentials that can be used interchangeably; and a growing range of third-party security solutions. Should Makita upgrade to Incedo Plus management in the future, their own system could manage CCTV and alarms alongside access and door entry.

## Recent incidents highlight hotel fire-safety needs



While many industries have been negatively impacted by the COVID-19 pandemic, the travel industry has been one of the hardest-hit industries, and hotels were no exception.

As if the pandemic wasn’t enough to challenge hotels over the past 12 months, hotel fires are once again making headlines.

In February, for instance, a fire broke out at the Hilton Garden Inn in Killeen, Texas, right as the state struggled with power outages due to ice and snowstorms. The severity of the fire was exacerbated by frozen pipes that caused the sprinkler system to fail. Fires such as that are nothing new to the hotel industry or its insurers. Added responsibilities are falling on the shoulders of hotel owners due to the COVID-19 crisis; however, insurance agents and brokers can help reinforce that fire safety can’t take a break.

In the 20th century, the lodging industry was regularly plagued by fires. In 1946, the Winecroft Hotel fire, the deadliest hotel fire in United States history, killed 119 people. The hotel’s steel frame was considered fireproof, but not the interior. With only one stairway, all guests and staff above the third floor were trapped by the fire. This disaster led to new fire codes, most notably the need for multiple means of egress and fire-resistant doors in guest rooms.

In another incident, this one in 1980, a fire at the MGM Grand killed 85 people, as many succumbed to smoke inhalation. The fire was caused by poor building codes, lax enforcement, cost cuts that impacted minimum sprinkler requirements, HVAC deficien-

cies and a high amount of flammable material in the building. Though many deficiencies were found in this case, just an adequately functioning sprinkler system could have limited the fire’s severity.

Today, hotels and motels see around 3,900 fires per year, with roughly 15 fatalities, 100 injuries and more than \$100 million in property losses. The cause? From 2014-2016, the leading cause of fires at hotels was cooking, responsible for more than half of all hotel fires at 55%. Other significant causes included issues with appliances or heating, electrical malfunction and intentional actions.

Fortunately, 73% of the hotel and motel fires examined during this period were confined to the object of origin, and 91% were confined to the room of origin. The main issue causing these fires and leading to their spread and severity stemmed from a lack of maintenance and poor fire safety measures.

Hoteliers have an obligation to protect their guests to the best of their ability. Fires can not only damage the property and cause reputational damage but may also cause significant injuries and, in some cases, death to staff, guests and visitors.

Components of a comprehensive hotel fire safety program should include a number of preventative tools in addition to the usual sprinklers, fire and smoke detectors, fire extinguishers, pull box alarms, emergency exit signs and automatic wired alarm systems. According to fire protection provider Fire & Life Safety America, hotels should also consider emergency lighting, dampers, spe-

cial fire doors and fire safety mechanisms for elevators. Other fire safety tips include building with fire-resistant construction, implementing egress systems, installing pressurized stairways and devices to easily shut off the gas connection.

In addition to the above, a thorough emergency response plan is critical, as is the observation of state and local ordinances. A strong safety program possesses all these components and requires testing, inspections and maintenance of systems on a regular basis. It also encompasses a staff that is regularly trained to better protect themselves and guests. There are national standards that define how often testing and inspection should be performed and what records should be kept for documentation, as well as local building codes.

The first important step agents should recommend hoteliers take is to ensure the hotel has a strong fire protection system. This system should be able to offer early detection of the location of the fire, in addition to a well-developed, timely evacuation plan and clearly designed escape routes. Escape routes should be posted in every room of the hotel, including guest rooms, meeting rooms, hallways and more.

Hoteliers should confirm that they are following fire codes thoroughly. Coordinating with the local fire department to review emergency exits, evacuation plans, and conduct fire and evacuation drills will train staff and help ensure they are completely aware of their responsibilities during a fire. A well-trained staff can make a difference in saving lives.

Similarly, staff should be asked to run daily inspections of hallways and stairways to ensure they are clear of any obstructions and any potential safety hazards. Furthermore, smoke alarms, fire extinguishers and sprinkler systems should be regularly maintained and inspected. Any malfunction could aid a fire in spreading uncontained. Fire detection equipment should be maintained in rooms, public areas, kitchens and more. Sprinklers should be installed in every room, in compliance with national standards. If maintained and serviced regularly, sprinklers have a strong track record in saving lives and property. No items should be stored above sprinklers, as they would be unprotected in the event of a fire.

A series of intercon-

nected smoke detectors should be installed in every room to alert all those at risk. The alarms should be monitored by an off-site monitoring organization, and ideally a central station that is connected to the local fire department. Most building codes require a fire department control station. This is a secure area in the hotel that allows the fire department to monitor building controls, operate some equipment and perform other important tasks.

Agents and brokers should also strongly consider recommending their clients implement the latest generation of multi-system fire monitoring systems. These systems can monitor for fire, intruders, heating and ventilation system errors and much more. It all links to one communi-

cation center which will alert staff and safety personnel as soon as a threat arises. With this enhanced equipment, hoteliers will be able to identify fires and threats promptly, allowing them to better control the spread and keep guests, employees and visitors safe.

Despite the best safety measures, fire will always remain a threat to hotels, as it is to any home or business. With well-trained staff, a strong fire plan, and high-quality monitoring and detection systems, hoteliers can significantly reduce the threat of fires and keep their staff and guests as safe as possible. Agents and brokers can help their hotelier clients do so by educating them on all the safety measures available to them.

## Fire alarm & detection market to surpass \$62B by 2028



The global fire alarm and detection market size is expected to reach USD 62.02 billion by 2028, registering a CAGR of 4.1% during the forecast period, according to a study conducted by Grand View Research, Inc.

The research suggests that the market is gaining prominence, more so amidst the Covid-19 pandemic that hit the world economy in 2020, with businesses shifting to remote working models. The demand for residential fire safety witnessed a rise, with people spending extended hours working from home.

The global demand surpassed USD 40 billion in 2020 and will continue to witness growth over the next seven years according to the analysts at Grand View. While the pandemic created a few lucrative oppor-

tunities for the OEMs, awareness about the safety and security of assets in the commercial sector also increased. As businesses resume, the need to safeguard facilities with guidelines and installations promoting fire safety will encourage building owners to either replace old equipment or install new safety devices.

In addition, the findings suggest that the advancements in fire safety products by leveraging the latest wireless technologies will help OEMs keep up with the competitive rivalry in the industry. Advancements followed by cost-effective products and service & maintenance post installations will go a long way in favouring sales. Vendors aim to launch new products and leverage opportunities in emerging markets by developing a local sales network

and closing new business deals.

All such efforts by OEMs will drive market growth over the next few years. Apart from new equipment sales, the demand for the replacement market is also on the rise. Aging infrastructure with outdated fire safety devices will pave the way for new business opportunities over the next seven years. The replacement scenario is likely to create opportunities in the North American and European markets, where the market has hit the ceiling in terms of growth. Key players mentioned by Grand View Research and mentioned in the report include Johnson Controls, Honeywell, Napco, Nittan, Siemens, Halma, United Technologies, Bosch and Eaton.



## Protecting occupants by ensuring smoke control systems remain operational



Recent revelations from the inquiry into the Grenfell Tower fire incident in England, which killed 72 people in 2017, has highlighted that the faulty smoke control system in the block was a major contributing factor in the building's escape route filling with thick smoke.

Worryingly, it was found that the management organisation had known about this for over a year, yet still no repairs were carried out. Here, Allan Meek, Director at Group SCS, outlines why it is so important for those responsible to ensure smoke control systems are maintained and operational to protect occupants.

The recent discovery that the smoke control system on Grenfell Tower had been inoperative for over a year before the refurbishment and that the tenant management organisation (TMO) had known about it and done nothing to mitigate the risk for the building occupants came as no surprise to those of us within the industry. In our experience, it is common for clients to leave reported defects for many months before authorising corrective action.

In its March 2020 Fire Engineering Thematic Technical Report that audited buildings with mechanical smoke ventilation systems, the London Fire Brigade found that 20% of systems inspected failed to operate, which would indicate that the problem of defective smoke control provision may be widespread.

There are some common themes for high rise

residential buildings that can contribute to a catastrophic system failure of the type experienced at Grenfell Tower. Here, we look at these and offer advice on avoiding the common pitfalls.

The availability of people on-site to complete regular tests: As recommended by the Regulatory (Fire Safety) Reform Order (RRO) 2005 and safety operating instructions, there is a requirement for the smoke control maintenance but these can often be overlooked or not fully understood.

The weekly and monthly checks will typically be carried out by general maintenance personnel (RP), who have received basic hands-on training from the manufacturer/installer of the system. For systems maintained by a competent organisation, they will at best be tested at six-month intervals during service visits.

The reality is weekly and monthly tests are problematic, particularly for high-rise residential buildings where there is no on-site maintenance presence and as a result, the checks are frequently overlooked. This means that if a fault occurs during the period between visits, it may go undetected, and the system would remain inoperable until the next scheduled maintenance visit. Even when smoke control systems are equipped with visual and audible fault alarms, these are often ignored in residential buildings without on-site security personnel. Under this regime, there is a very real

risk of system failure in an emergency.

The competence of the contractor undertaking the annual maintenance: Neither of the organisations who were responsible for the maintenance of the Grenfell project were smoke control specialists, however, this is not unusual. A fire alarm or mechanical and electrical contractor is unlikely to have an appreciation of the smoke control strategy and understanding of the products installed, but often the smoke control maintenance is bundled in with other services like fire alarm or building management. This can result in a deterioration of systems over time as minor faults go unnoticed. Or unnoticed.

Failure of the client to sanction rectification of defects: This may be a result of a failure to appreciate the seriousness of the system being inoperable or simply down to a lack of budget; however, it is not uncommon for reported faults to remain unattended for months, as was the case at Grenfell Tower.

How to ensure smoke control systems remain operational

The following actions are recommended to ensure compliance and safety of occupants of high-rise residential buildings. Use a competent smoke control specialist – Ensure the smoke control system provider is accredited and has third-party certification, Group SCS would advise you choose a member of the SCA (Smoke Control Association).

Regularly carry out safety checks – In addition to the minimum annual service by the specialist provider, they must also actively encourage short-term tests of the smoke control system, offering training to site personnel and a log-book so all checks can be recorded and monitored.

Consider remote monitoring of smoke control systems where there is no onsite facility staff – We also recommend when there is no one available on-site to regularly monitor your smoke control systems, then remote monitoring is a reliable solution.

Make sure all defects

are fixed – Alarmingly it is not unusual for defects in the systems not to be fixed which is often due to budget restraints. This is a false economy. If a fire breaks out in a building that is under your control and the smoke control system fails, lives are at serious risk and you could face prosecution

## Maxlogic fire detection integrates with Hanwha Wave VMS



Mavili Elektronik Ticaret A.S. has developed a plug-in which enables its Maxlogic intelligent addressable fire detection system to interact with Hanwha Techwin's Wisenet Wave video management software (VMS).

The integration of Maxlogic with Wisenet Wave via the Mavili SPRVSR+ plug-in, ensures control room operators can rapidly visually verify a fire alarm event and take appropriate action. Detailed maps, together with information on the Maxlogic devices installed at each site, can be displayed alongside images captured by Wisenet cameras.

When an alarm event occurs, a pop-up message instantly appears on the screen, with operators able to view live images from cameras installed at the event's location. PTZ cameras are automatically moved to point to where there might be a fire. After viewing the video of an event, operators can use Wisenet Wave's graphical user interface to silence the alarm and reset the system, whilst an event log provides access to the recorded video for forensic post-event investigations.

"Adding video veri-

fication to our Maxlogic fire detection system with the help of Wisenet high resolution cameras, means we can offer end-users even greater peace of mind in knowing they are benefiting from an integrated solution that offers them a very high level of protection from a potential fire", said Mr Gurkan Erdem, Sales & Marketing Director of Istanbul based Mavili Elektronik Ticaret A.S.

Other key features include a virtual PTZ which, with just a simple click of the mouse, enables operators to zoom in to see close-up detail of any suspicious activity, whilst motion detection and video analytics support can be configured to generate alerts when user-defined incidents occur, with push notifications sent to mobile devices.

"We are delighted that an independent manufacturer such as Mavili Elektronik Ticaret A.S. has entrusted Hanwha Techwin to be its preferred technology partner and has invested its time in developing the SPRVSR+ plug-in", said Uri Guterman, Head of Product & Marketing for Hanwha Techwin Europe.

Wisenet Wave is designed to make it almost effortless to monitor high-definition video streams. An auto-discover feature ensures connected cameras and a wide range of third-party IP network devices can be addressed and set up in just minutes. An intuitive 'drag & drop' tool makes it easy to set up a display of live and recorded images on a single

## Global biometrics market on a fast gallop



The global biometrics market has been recently developing rapidly, and this trend will continue shortly. If in 2018 its volume was estimated at \$23.4 billion, according to the forecast of the analytical company BCC Research, the market size may increase to

sations in various countries believe that biometrics is one of the most effective ways to identify refugees and those who cross the border. Now there are a lot of projects which are based on biometric technology.

Perhaps one of the most ambitious is the Aadhaar project being implemented in India. It is a biometric identification system that contains the data of more than a



\$71.6 billion with an average annual growth rate of 23.2 % by 2024.

Fingerprint scanning, facial recognition, iris, vein, and voice technologies are expected to be implemented at the fastest pace. The analysis is based on the revenue indicators of key players depending on segments, including hardware, software, and integration.

Another analytical Agency, Acuity Research, estimates that the number of biometric electronic IDs will increase by about 3.5 billion electronic documents in the world. Moreover, more than half of the UN member States issue biometric passports.

Government and private contracts of Canada, the United States, Belarus, Ukraine, Moldova, Lithuania, Hungary, Bangladesh, Senegal, and other countries are examples of implementation of programs for the transition to biometric electronic documents.

Government organi-

billion people. The database contains about 10 billion fingerprint templates, two billion iris templates, and a billion photos.

There is another ambitious project at the Nairobi Jomo Kenyatta International Airport, where RecFaces company has implemented a passenger facial identification ready-made solution, that helps the security guards to receive notifications about airport visitors in just a few seconds and increase the efficiency of security services at least by 30%. The introduction of biometric identification of passengers aimed at increasing the level of airport security, as well as quickly obtaining information about the detection of wanted persons, stored in the long-term archive.

As another example, face match is used at border checks to compare the portrait on a digitised biometric passport with the holder's face. In 2017, Thales company was responsible for

supplying the new automated control gates for the system of Automated Fast Track Crossing at External Borders at Roissy Charles de Gaulle airport in Paris.

This solution has been devised to facilitate evolution from fingerprint recognition to facial recognition during. Governmental systems, SmartCity, airports projects using identification technologies day by day

become our reality and influence the growth of the biometrics market globally. Countries are studying the experience of each other and adopting it.

The global market of biometrics will shift all industries, starting from the transportation facilities especially airports, where a transition from traditional VMS and ACS to paperless biometric self-Boarding systems will be carried out.

Sports facilities will see the development of paperless payment technologies at cash desks, and the banking sector — the payment systems with remote customer identification. HoReCa will transfer from staff time tracking systems to biometric payment systems, biometric check—in systems and the use of biometric identifiers. To sum up there are two most significant drivers of this growth are surveillance in the public sector and numerous other applications in diverse market segments.

## Countering the rise in network attacks in surveillance

The demand for monitoring cyber security and system health is

increasing as the number of connected devices is exploding. "Anywhere

where users now are deploying IP, ethernet, or whatever that communi-



cation platform may be, they need to be looking to secure those networks because they are providing points of attack onto that network", says Ian Deuchars, General Manager of Comnet.

The year of the pandemic also brought numerous cyber security challenges, not least since many people are accessing their company's network from home. At the same time, the number of IoT devices worldwide is forecast to almost triple from 8.74 billion in 2020 to more than 25.4 billion devices worldwide in 2030.

"When you start looking at the attack vectors that are growing at an alarming rate, it is IoT devices that are getting targeted. So, there is a lot more knowledge about that now, people are paying attention, and people are starting to realise that they need to be a lot more cyber security conscious", says Fraser Johnston, Network Expert at Vanderbilt.

He claims there are a number of reasons for why the demand for cyber security is growing: "If you look at IT growth over the last 20 years, IT hardware has been exponentially growing in power availability and what it can do. And now, as things are getting cheaper and cheaper, there is an explosion of network devices, and that is not just in developed countries, it is now in developing countries as well. Coupled with that, you have limited visibility of system health with that rapid expansion, and then the third problem is that IT staff expenditure is never proportional to device growth", he says.

According to Fraser Johnston, most system failures of video surveillance occur long before the end customer realises they do not have

the video they need, because there has been an incident in their factory or in their store for example. "So, when they go to look for video it is not there for one reason or another" he says.

In 2020, Acre International acquired Razberi Technologies and put it under the Comnet umbrella. Razberi Technologies' business idea is to make it simple to manage and secure video surveillance and IoT systems and one of its products is Razberi Monitor, which is a software platform that monitors and manages all the components of the system, like servers, storage, cameras, and other networked security devices – for both cyber security and system health. Razberi Monitor can be deployed from the cloud or on-premises and will help to resolve issues before they become bigger problems.

"There have been a lot of similar programmes or applications but, so far, none of them are as sophisticated and that is why many leading VMS manufacturers are pointing their customers towards Razberi Monitor", says Alex Holmström, Global Sales & Marketing Director at Acre International.

Fraser Johnston considers reducing congestion on a corporate network, as well as introducing many cyber security functions, and protection against various attack vectors on the IoT hardware, as the biggest value proposition for Razberi Monitor, as well as being able

to monitor everything in a very simple solution. He points out that with high definition cameras and more devices becoming available at a cheaper cost, we are getting a rapid expansion of data on networks that we never really needed

to consider before. He says:

"So Razberi Monitor allows you to connect as many high definition cameras as you want and keep them at the edge of your network. The cameras connect into the Razberi device and all that traffic is directed straight into that one device, without having to transit over your existing corporate network.

Fraser Johnston presents a hypothetical case, where a supermarket may have had an incident in an aisle or in a car park, but then has just discovered that for the last three weeks they do not have any recorded data. It would have been much better to know about that fact as it happens – or before it happens – and that is possible with Razberi Monitor.

Most commonly, the reason there is no video is because of hard drive failure, or perhaps an environmental failure, where there is an increase in temperature and things are starting to fail through heat exhaustion. Fraser Johnston says: "So if they had Razberi Monitor in place, you would get smart data from the hard drive and the client generates variables from there, which then are reported through the Razberi agent and the Razberi Monitor cloud which allows customers or system integrators to receive these warnings".

In that way, a hard drive can be replaced before it has failed. "So Razberi offers the ability for customers to provide a better service experience, as well as a safer service experience", Fraser Johnston concludes.



## How combining radar and video maximizes your perimeter security



"Sometimes, two technologies are better than one, and security solutions that integrate video and radar capabilities are a great example of this. By combining these two powerful technologies, you can boost your perimeter security with multi-dimensional perception – which helps you see and respond to incidents faster," says Max Fang, Director of Video Security Products at Hikvision.

Radar and video are very different technologies with different security applications. However, putting them together gives you a sum that is much bigger, and more effective, than the parts.

So how exactly does combining video and radar maximize your perimeter security?

### The value of 'multi-dimensional awareness'

By bringing video and radar together, you can achieve what we call multi-dimensional awareness – a kind of super-power that allows you to detect and verify perimeter security threats, and take fast, effective action to minimize negative impacts of a breach.

The first awareness 'dimension' comes from radar, which allows you to detect people or vehicles crossing your perimeter boundary, and to follow them around to ensure they only access authorized areas of your site. The second 'dimension' is smart, high-resolution video, which helps you identify potential security threats quickly, see exactly what occurs, and respond faster to security breaches to protect people and assets.

And with properly integrated video and radar solutions, you can do even more. It's possi-

ble, for example, to train cameras on people in radar range who enter restricted areas.

So why isn't everyone doing it?

While the security potential of integrated video and radar solutions is huge, the practice is a little more complicated. You could consider integrating radar with video yourself, for example, or working with partners to do the integration work, but the time and costs involved may be prohibitive – and the right skills are hard to find.

To help you overcome these challenges and maximize your perimeter protection, Hikvision has created the industry's first all-in-one Radar PTZ solution. This combines a Hikvision radar sensor with a latest generation Hikvision PTZ camera and deep learning capabilities to help you identify security threats and respond faster to any incidents.

### The 3 top benefits of Hikvision Radar PTZ

When the Hikvision radar sensor detects a moving object, an alert is sent to the integrated PTZ camera, which zooms in and focuses on it to see if it is a human or vehicle of interest. An alert is also sent to the security team automatically, helping you respond faster to protect your people and assets.

The 3 top benefits of the solution are:

1. Fast, automated threat detection

based on AI algorithms that differentiate people and vehicles from other moving objects. The camera in the PTZ unit is triggered by potential security threats

picked up by the radar sensor, allowing security teams to verify security

incidents quickly and easily.

2. Large coverage area with the ability to follow multiple people and vehicles

The Radar PTZ gives you 100 meters of radar coverage, allowing your security team to follow multiple people and vehicles of interest as they move around your site and respond faster in the event of a security breach.

3. Rapid, cost-effective deployment

Our solution is very quick and easy to install, with a simple portal for configuring devices. This ensures that the entire deployment process is fast and simple.

### Boosting perimeter security for businesses of all types and sizes

By offering multi-dimensional perception with integrated radar and video sensors in the same unit, the Hikvision solution is helping all kinds of organizations to enhance their perimeter security, from industrial sites and construction sites, to automotive dealerships, universities, mines, and a wide range of other sites and facilities.

• Solution or technology name

Hikvision Radar PTZ solution

• Target sector/industry

All industry sectors

• Possible keywords

Radar, smart video, video security, perimeter security, AI, multi-dimensional awareness, integrated video and radar

## The importance of being on the right wavelength



Choosing the correct type of light for a surveillance project is an important consideration. Each type of light has its own characteristics, and its suitability will very much depend on the specific project and its lighting goals. Lighting specialists, Raytec, have recently produced a new advice guide to help installers and integrators to select the right type of lighting.

Quality images are a necessity for any security system or transport monitoring application. Not only does the performance of the system rely on the camera and lens, but also on the quantity, quality, and distribution of available light. Light determines whether a subject can be viewed at all, and at what distance. The quality and direction of the light also controls the appearance of the subject.

However, there are lots of different types and wavelengths of light available, so which should you be considering for your project?

### White-Light

White-light is one of the most widely used wavelengths and one of the main advantages of using white-light as part of a security system is its ability to provide colour images (providing it is used with a colour camera). Being able to positively identify the colour of someone's clothes, hair, or other features, could provide crucial evidence for prosecution.

The defining characteristic of white-light illumination is that it is highly visible to the human eye, hence its use for general area illumination. For surveillance applications, this is also useful when using white-light as a deterrent to ward off potential intruders. On the contrary, if covert surveillance is the aim, white-light illumination is unlikely to be the answer.

Additionally, using constant white-light at night may not be suitable for all applications, due to the fact that the target area is lit up, and therefore, potentially assisting an intruder in undertaking a crime. When using white-light, consideration also needs to be given towards light pollution. While the use of LED technology means the light can be targeted accurately, some applications may be restricted in their ability to use white-light for environmental reasons such as protecting the night sky or wildlife.

### Infrared (850nm)

Infrared 850nm wavelength is a semi-covert light and is generally the preferred choice for most CCTV systems. Security cameras are most receptive to this wavelength of IR and, therefore, it gives the best night-time images. Being semi-covert, the illuminator does give off a slight red glow, visible up close or when looking directly into the light.

However, for most applications this is not an issue and Raytec recommends the use of 850nm over other wavelengths of IR. According to Raytec, 850nm will provide the best night-time images and allow the camera to perform at its optimum.

### Infrared (940nm)

940nm is a fully covert wavelength of IR light. A 940nm illuminator does not emit any red glow, making it an option for applications where the red glow from an 850nm light is deemed unacceptable.

However, the Raytec paper states that the use of 940nm will mean a significant drop in image quality and achievable distances when compared to an equivalent level of 850nm light. The performance sensitivity of the camera will drop by as much as 50% compared to 850nm.

As a result, where possible the company stresses that it would always recommend the use of 850nm over 940nm, and that when installers are using 940nm, that they should always ensure a suitable camera setup is being used.

### Hybrid

Another option for consideration by specifiers is the use of Hybrid illuminators. Hybrid illuminators provide an all-in-one solution, combining both IR (850nm) and white-light into a single unit. This means one illuminator can be used for both covert surveillance, and as a white-light deterrent. This is commonly used for surveillance systems where the end user would like to ward off an intruder before they commit the crime.

### Far-Red (730nm)

Looking beyond white-light and infrared, a wavelength of 730nm (known as 'Far-Red'), is becoming an increasingly popular choice for transport applications where driver or passenger identification inside the vehicle is required.

Modern windscreens are designed to block out certain wavelengths of light. This is mainly to protect the occupants of the vehicle from ultraviolet (UV) rays but is also an attempt to keep the cabin cool by blocking a proportion of infrared (IR) light. 730nm is commonly used as less light is blocked by the windscreen. Raytec has conducted some tests in order to highlight the purpose of seeing through windscreens. The results showed that the 730nm light provides the clearest images to identify the individual within the vehicle (compared to the other wavelengths discussed above).

However, one downside is that a 730nm illuminator does give off an obvious red glow, which could become distracting for drivers in certain cases. In an ideal world, the quality of images produced using 730nm could be achieved using an illuminator which gives off no visible light (and, therefore, offers no distraction to the driver). However, in reality, the further down the spectrum one moves, the more light becomes visible to the driver.

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Security & Fire Expo - South India  
HITEX, Hyderabad, India  
www.safeindiaexpo.com



### UK

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National Exhibition Centre - NEC  
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www.thesecurityevent.co.uk



### UK

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ExCeL London  
London, UK  
www.dsei.co.uk



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16-18 September, 2021  
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https://secutechindia.tw.messefrankfurt.com/mumbai/en.html



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www.intersec-ksa.com



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Orlando, Florida  
www.gsx.org



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UK Security Expo 2021  
OLYMPIA London  
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www.internationalsecurityexpo.com



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5-7 October, 2021  
NFSA Annual Conference and North American Expo  
Las Vegas, NV, USA  
www.nfsa.org/annual-seminar/



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