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Challenges in returning to work in the new “normal”



The workplaces are opening up slowly and cautiously. In some cases companies are ensuring a skeletal staff who just have to be in office, while in others a larger team is being permitted, but as we move into this recovery phase, there are many questions surrounding the transition.

How can companies ensure facilities are in acceptable condition to reopen? How do they decide who is coming back and when? How will social distancing impact the operation of a company's physical access control system? How can companies ensure that both visitors and employees are aware of the policy changes and extra controls?

Ian Lowe, Product Marketing Director of HID SAFE Identity and Access Management (IAM) solutions says there are six major challenges that need to be addressed.

Challenge 1: Ensuring building readiness

After being unoccupied for weeks or months, building readiness must be addressed

completely before welcoming anyone inside. Even though employees may be eager to return, the workplace itself may not be ready. Companies may want to consider continuing remote work while facility operations are prepped.

Challenge 2: Workforce management

While it is dependent on location and industry, taking a phased approach is the best course of action when allowing employees, contractors and visitors back into facilities. First, facilities management will want to survey the property for readiness and then provide an estimate as to when employees may begin reporting back into the office.

Next, it's important to consider that office density needs under the new norms are interrelated to the facility architecture. It is possible to accommodate a higher capacity of workforce in an airy, open office space than in a constrained one. A good rule of thumb is to start by introducing no more than 30% of employees back into the workplace

at first. This could be a rolling group model in which the population total remains controlled and constant, but specific individuals vary from day to day. This option is good for a workforce that needs to be together in person but not necessarily all at the same time due to office density concerns.

Welcoming visitors or customers into the office should be delayed as long as possible. If that's not feasible, visitor numbers should be factored into the total density count. A cloud-based visitor management system can help with implementation.

Challenge 3: Controlling access

The ability to vet staff, employees, contractors and visitors before and during the return will vary greatly depending on the location. Policies should be implemented that require employees to be screened regularly — and for an extended amount of time.

Look to answer the following questions:

- Where have you vis-

ited in the days since last entering the workplace?

- Have you come into contact with anyone else who has recently visited high-risk areas?
- Have you shown any symptoms of infection in the past xx number of days?

If there is cause for concern, refuse the visitor and/or supplement the screening process with additional steps. Temperature checking is mandatory in many organisations— often multiple times a day. This applies to interactions at delivery bays, too. A policy-based physical identity and access management solution integrated with existing physical

access controls makes it possible to enforce, monitor and report this type of activity.

Challenge 4: Social distancing and contact tracing plan

Social distancing may continue within the office, which will impact restrictions and guidelines related to access control. The office layout may be reworked for proper distance between cubicles, workplace positions and employees. Specific entrances, exits and pathways may be designated as one-way-only.

Assigning Bluetooth LE beacons to employees once they are inside the workplace will allow companies to monitor proximity to others and

measure localised density in real-time by using location services, contact tracing, and surge response technologies.

Challenge 5: Reduced physical touchpoints

Reducing the number of physical touchpoints is desirable throughout a workplace. Contactless technologies can help enforce social distancing and reduce touchpoints on common surfaces such as faucets, door-knobs, coffee pot handles, etc. While introducing additional security checks and screenings, it's important to not increase touchpoints and further infection risks. There have been more requests for a contactless experience to secure workplace access, including automatic doors and

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Dear Reader

The government of India, perhaps as a result of the conflict in the Galwan Valley banned 59 Chinese-owned mobile apps on 29th June by giving out a press release, which includes some very popular applications like TikTok, Helo, We Chat, UC Browser; as they posed a threat to India's sovereignty and security. These mobile applications had several hundred million users in the country.



Soon after, on the 1st of July an article appeared on an online portal, that projects itself as a digital platform for factual and liberal content, and for "well-argued positions". This article claimed that China's Hikvision controls India's surveillance market and that the Modi government needs to do more than ban apps, hinting that Hikvision as a brand should also have been banned. This attempted instigation of the Indian establishment by a journalist seems to be lacking proper research into the matter as well as maturity.

Hikvision is indeed a world leading company owning quite a few patents on video surveillance technology and products based in China, which incidentally, is the world's largest producer and supplier of CCTV products. In India, Hikvision operates as a joint venture with an Indian partner and a successful entrepreneur, Mr. Ashish P. Dhakan, who I have personally known since the early 2000's. I have seen the hard work which Mr. Dhakan has put in over the years, starting off first as a dealer of CCTV systems, then as a distributor and lastly as a joint venture partner with the parent company. Last year he set up India's first integrated world-class manufacturing facility to manufacture CCTV products, under the Prama Hikvision brand and under the Make in India initiative of the Indian Government located at Vasai near Mumbai. The plant was formally inaugurated by Dr. V.K. Saraswat (Member, Niti Aayog and former Director General of the Defence Research and Development Organisation (DRDO) and former Chief Scientific Advisor to the Indian Minister of Defence) and Dr Neeraj Sinha (Adviser, Science & Technology) inaugurated the new facility on October 1, 2019. I saw the CCTV cameras and video recorders being manufactured locally in India. The hardware assembly as well as the loading of software is being done locally.

With this new facility, which is part of an investment commitment of INR 500 crores, Prama Hikvision will not only be able to cater to a fast expanding domestic market but also overseas market in a phased manner. Employing over 2000 skilled and semi-skilled employees, the brown-field facility is spread over 12 acres of land comprising end-to-end production capabilities.

The article on the portal, which also became the topic of a debate on a prominent television channel, states that Hikvision has 'cleverly projected itself as part of the Make in India initiative'. This sounds mischievous and malicious, as I fail to understand, how else is one supposed to set up manufacturing of modern sophisticated products in India, without reinventing the wheel, and call it Make in India? I wonder if the author has made efforts to visit the plant to learn more, before publishing a half baked article. I am aware of several other CCTV manufacturers who claim to manufacture CCTV cameras under the 'Make in India' initiative importing subassemblies from China and by using 'screwdriver' technology, assemble the items here, without investing in setting up elaborate manufacturing facilities.

The article also states that around 42 per cent of the Chinese parent company is controlled by state enterprises, pointing a finger of suspicion on the Chinese government having access to data collected by the company. I ask, does anyone believe that if the Chinese government really wanted data from a Chinese company in China, it will have to first own a share of that company? Can any Chinese company refuse to supply data to the Chinese government if it asks for it?

Lastly, we should be very careful about installing CCTV or for that matter any other electronic devices at sensitive establishments, especially those connected to networks which can be accessed remotely over the internet, as anything can be hacked today using appropriate tools and resources, thus giving a foothold to cyber-terrorists who wish to gain financially.

Till we meet next month,

Cheers, Stay Safe and Keep Others Safe.

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ATG Access launches the slim and shallow Populus bollard system



The manufacturer of road blockers, bollards and vehicle barriers, ATG Access has launched the latest generation in bridge protection systems, unveiling its Populus Bollard system to a range of customers, security experts and civil engineering specifiers.

This is the second bridge security system the company has brought to market making it the only supplier with multiple systems currently available. This new solution is a short, shallow and slim solution available in the current physical security market, ideal for bridge applications. The new system, which achieved both the IWA

14 and PAS 68 standards at tests undertaken at the MIRA testing facility in March 2020, was able to arrest a 7.5-tonne vehicle traveling at 48 kph (30 mph) at a 30-degree angle.

Tests were carried out under COVID-19 distancing restrictions demonstrating the company's commitment to continue developing and innovating throughout the current crisis.

The internationally-recognised tests were designed to simulate the distinctive features of a vehicular attack on a bridge and resulted in minimal penetration damage of under half a metre. Bridge design dictates that vehicular

attacks are most likely to be carried out at a shallow angle as a forward moving vehicle leaves the carriageway to mount the pavement at speed.

Due to their unique engineering characteristics, bridges bring specific challenges to security systems such as drainage requirements, expansion joints and depth constraints.

Coupled with the inability to close structures for prolonged installation periods, any bridge security system needs to operate within these parameters while delivering robust performance. Specifically designed for installation within areas with either no depth available or a challenging substructure, the system requires excavation of just 40mm and is installed without bolting, mechanical fixings or any upstand.

Furthermore, it requires no finishing surface treatment to the highway to conceal the top of the product, mean-

ing it can be installed in any carriageway conditions. This innovative approach protects the integrity of the bridge structure while affording the greatest possible protection to bridge users and bridge parapets from vehicular attack.

The system can accommodate chambers, contours and expansion joints, and is available in a range of aesthetic treatments to blend into heritage and modern settings alike. It has been developed in close collaboration with local authorities, architects and engineers who have come together to establish the principles of the system which have been refined by the ATG Access design team. In development for just three months, scale models of the Populus system have been subjected to a series of simulated tests with data collected at each stage of product development with the aim of eliminating different variables.

OPTEX launches QXI series of compact outdoor intrusion detection sensors



OPTEX, a global provider of sensors, is launching the QX Infinity (QXI) series, a new range of general application outdoor intrusion sensors for the EMEA region. The QXI series is a family of compact, outdoor sensors that provides a 12m detection area up to 120° in width. A particular benefit of the new range is that the sensors are specifically designed to be mounted at heights of up to 2.7m, making them less obvious to intruders and out of reach from vandals.

One model in the range, the QXI-DT, also has anti-blocking features

(based on microwave technology) to detect intruders attempting to deliberately mask the detector. The new Quad technology features a pyro element that has been re-defined by OPTEX and supports a greater performance with a double layered detection in a compact design.

The QXI series features improved Super Multi-Dimensional Analysis (SMDA) logic and Double Conductive Shielding for even more reliable sensing capabilities and greater tolerance against light and RFI. It allows for greater immu-

nity against pets and can also be installed as a low mount PIR detector to create a 'pet alley' and further reduce the likelihood of nuisance alarms.

The QXI is an all-round high-mount sensor that complements OPTEX's existing short range outdoor PIR range such as the VXI and WXI. The sensors will trigger both intruder alarms and CCTV. The QXI features a sleek design with an easy to open/close front cover. The compact design not only makes the device less visible to intruders but is also less intrusive to its surroundings. Other fea-

tures include an Automatic Walk Test Mode which automatically starts when the cover is closed and returns to normal mode after three minutes.

The QXI series includes four models: two that are hardwired (QXI-ST and Dual-Tech QXI-DT) and two wireless (QXI-R and QXI-RDT). Power to the QXI-R / RDT can be shared through a common battery (CR123A) to the transmitter in the base of the device which can easily be swapped out/replaced when the need arises.

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Challenges in returning to work...



turnstiles, contactless cards and mobile access.

Challenge 6: Communicating for confidence

Proactive communication is key to provide reassurance that appro-

priate safety measures have been taken and that both visitors and employees are aware of the policy changes and extra controls. Equally important is to communicate a policy change – and the reasoning be-

hind it – before it happens. While there may not be an exact expiration date on these new policies, ensuring that impacted individuals will have a safer experience is universally appreciated.

Suprema launches Mobile Access contactless solution



Suprema is releasing its new mobile contactless solution, 'Suprema Mobile Access', a complete platform for managing, issuing and tracking access credentials using smartphones.

In recent years, access control systems have evolved beyond physical access cards, and access control solutions using a mobile phone as a credential was introduced as an alternative to traditional card-based authentication. Suprema Mobile Access employs a smartphone application that uses NFC (Near Field Communication) or BLE (Bluetooth Low Energy) to communicate with card readers, allowing access to doors and other secured assets.

Suprema Mobile Access simplifies the management process of access cards as the entire process goes online without face-to-face interaction, allowing users to remotely manage credentials, issuing and revoking them in real-time. Using Suprema's 'Airfob Portal', the Mobile Access management portal, one can easily issue mobile access

cards to users via email.

Using a link of the email, the users can install Suprema's mobile application 'Airfob Pass' on their Android or IOS phone. Once the app has been installed, the mobile access card is ready to be used. Like a physical card, users can tap smartphones on a mobile enabled card reader to access doors and other controlled items. For a seamless user experience, the app supports background mode that eliminates the requirement for the user to wake up the phone in order to gain access.

To ensure the security of user data in the platform, Suprema Mobile Access is designed from the ground with enhanced security features including data encryption throughout the process of issuing and using credentials. The backend server for Suprema Mobile Access is managed separately and the server encryption keys are protected with special proprietary methods. The solution has been certified by an independent audit to be compliant with the ISO 27001 standard

for Information security management, signifying Suprema's continuing commitment to put the protection of private information as the highest priority.

Suprema Mobile Access supports both NFC and BLE, guaranteeing compatibility with most IOS and Android smartphones. The solution overcomes the limitation of a slow authentication speed common in other BLE based solutions by utilising a unique method of analysing the GAP and GATT layers of BLE. By making use of this data, users can simply present their phones to mobile enabled card readers without requiring any additional gestures such as turning or waving the smartphones. With this enhanced technology, the authentication of Suprema Mobile Access takes less than 0.5 seconds which is comparable to the speed of reading RFID cards.

Introducing the new platform, Young S. Moon, CEO of Suprema Inc. noted, "The innovation in the reading speed and the user experience of Suprema Mobile Access will accelerate the transition from plastic cards to mobile phones as the most common credential of physical access control."

CubeWorks intelligent wireless smart sensors for physical security



CubeWorks introduces the CubiSens platform, the company's portfolio of fully self-contained smart sensing products, making one of the world's smallest and longest-lasting sensors available to the global marketplace. The world's foremost organisations may now harness the power of CubiSens to enhance security and provide new insight into production processes and environmental monitoring.

CubeWorks, a spin-out of the University of Michigan, leads the smart sensor market with technology unmatched in size, longevity, intelligence, accuracy, value, and ease-of-use.

Three ground-breaking, fully self-contained wireless sensors – the CubiSens AH110, CubiSens TS100, and the CubiSens TC110 – will perform across a spectrum of market applications, ranging from physical security monitoring to cold supply chain to bio/pharma research and development; providing the means to collect mission-critical information exactly when and where the user will need it.

With CubeWorks'

CubiSens technology, organisations will be able to:

- Unobtrusively monitor assets and environments using the world's smartest and longest-lasting sensors
- Measure and track motion and movement in real-time, providing enhanced security monitoring and analytics
- Assess and monitor changes in the physical environment (e.g. temperature and humidity) for compliance and quality assurance
- Harvest thousands of data points through ubiquitous and pervasive smart sensing for a complete picture of a product's life cycle, environmental conditions and security
- Deploy sensors effortlessly across a wide range of applications without rewiring
- Easily integrate the next generation of sensors into existing on-premise or SaaS-based systems and monitoring platforms

The CubiSens platform consists of three types of sensors, wireless gateways, and programming and logging software to provide a comprehensive solution for collecting mission-critical data:

- The AH110 sensor has the potential to revolutionise security and environmental monitoring. This intelligent wireless sensor measuring 22 x 12 x 6 mm monitors temperature, humidity and movement, has a lifespan exceeding five years and has the ability to transmit data up to 100m.
- The TS100 sensor can be used for animal model research, ultra-smart packaging and ubiquitous monitoring. This wireless temperature monitor and logging sensor is 7.5 x 7.5 x 4.2 mm.
- The TC110 sensor – one of world's smallest wireless temperature sensors - gives manufacturers and researchers the ability to collect data and track processes as never before by offering good precision in a package only 1.7 x 3.9 x 2.1 mm in size.

Salto Systems game-changing access control for lockers

The capability of effectively extending real time, online and mobile enabled smart electronic access control to lockers and cabinets has eluded the security market – until now. By incorporating BLE (Bluetooth Low Energy) technology into their latest electronic locker lock, SALTO has delivered a product

that extends up-to-date comprehensive electronic access control to lockers, cabinets, and essentially anywhere.

SALTO has been a provider of electronic access control for lockers with the XS4 locker lock, but the new version adds game changing BLE functionality. Adding BLE capabil-

ities to SALTO's XS4 Locker Lock solution not only offers the most up-to-date protection for lockers and cabinets, but it also delivers the capability for end-users to control these devices with mobile phones and expands usage to additional SALTO platforms – like use with SALTO KS -Keys as a Service-



cloud-based access control technology.

SALTO BLUENet Wireless was developed to meet the highest demands related to security, connectivity and ease of use and has now been successfully extended to the SALTO XS4 Locker BLE. It is networked through Bluetooth RF and is specially designed for door lock applications where real-time control is required. Control and management of access points can be done remotely and in real-time.

The SALTO BLUENet Wireless engine allows the operator to monitor

live access control events and provides the ability to unlock the locker lock, change its opening mode, activate a lockdown, monitor live door status or change physical access rules in the access plan, all wirelessly and in real-time. The SALTO XS4 Locker BLE is an ergonomic design based on the same housing and mechanical mechanisms of the original version. A locking thumb turn makes for easy use – even with wet hands. The outer thumb turn – with a red and green indicator indicating availability of the locker – has an electronically managed release. Ready-to-install

into pre-existing doors, it is designed as a replacement locker lock and can be used to quickly secure any pre-existing cabinet.

And at a time where contagious viruses and bacteria dominate the headlines, it's impressive that the XS4 Locker BLE comes with BioCote Antimicrobial Technology that can reduce bacteria by up to 99.99% as standard. Electronic access control in general and the SALTO XS4 Locker BLE specifically, eliminate the problems of key management, a user losing a key, or leaving a locker lock in a locked state for a long period of time.

Gunnebo's H-Sense Infection Control Gates



The new family of access control solutions supports the smooth return to a safe working environment by providing automated infection prevention through contactless processes, maximised social distancing, and enforcement of body temperature and personal protective equipment regimes.

The new H-Sense range offers three levels of protection:

- Body temperature detection integrated into the gate combines image analytics with infrared thermal monitoring to deliver contactless temperature measurement to an accuracy of

±0.3°C. The system denies entry to anyone exhibiting an elevated body temperature.

- Hygienic mask detection via a high precision camera integrated into the gate, backed up by image analytics, recognises if the visitor is wearing a mask and denies access if it is absent.
- An automatic gel dispenser delivers a dose of hand sanitiser contactlessly and prevents entry unless the sanitiser has been administered.

These stylish modern gates can also now be configured with in-

creased flexibility to maximise social distancing in limited entrance spaces. The new infection control features can be retro-fitted to existing gates.

“We foresee increased demand for access control solutions with a higher degree of connectivity and peripherals to meet specific needs created by the Covid-19 pandemic. Our new H-Sense range provides efficient and user-friendly infection control processes linked to the right of access, ensuring that protective measures are properly and safely enforced,” says Robert Hermans, SVP Entrance Control, Gunnebo.

Tagmaster releases advanced RFID reader



Tagmaster is launching a new advanced RFID reader, XT-5, for identification in parking and access control solutions. The XT-5 is marketed in two versions - one designed according to the European specification and one according to the US specification. The XT-5 is an RFID reader designed and optimised for solutions in the access control area and for parking applications such as airport car parks, rail yards and bus depots, automated truck activities and internal logistics.

“XT-5 is our most advanced integrated reader to date. It features a radio design with high output power, self-jammer cancellation (SJC) and control of the antenna polarisation.

XT-5 is an advanced Linux-based integrated reader with PoE + and built-in antenna. XT-5 supports various interfaces such as Ethernet, RS232, RS485 and Wiegand/Magstripe and with the possibility of adding an extra external antenna. XT-5 is configured for the most common ac-

cess control systems such as Paxton, Dormakaba, Bosch, RCO, Siemens / Bewator, Assa Abloy, HID and more.

The XT-5 is also compatible with the RAIN RFID standard. XT-5 supports Tagmaster's Securemark ID, ID tag format, which is designed to ensure that each ID tag has a unique identity that is difficult to copy. XT-5 in combination with Tagmaster's Securemark ID tags provide the highest level of security.

Union Community multimodal iris recognition system



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Avigilon Explosion-Protected H5A Camera Line



Motorola Solutions has announced the newest addition to its video security and analytics portfolio, the Avigilon H5A Explosion-Protected camera line. The H5A Explosion-Protected cameras bring the functionality of Avigilon's industry leading video analytics to the explosion-protected camera form factor suitable for hazardous environments such as oil and gas, mining and industrial sites.

This includes enhanced object detection and tracking, along with support for Avigilon Appearance Search™ technology, an AI-powered search engine that

can sort through hours of video to improve incident response times. The camera line also features new Unusual Activity Detection to provide site-wide intelligence with the ability to highlight abnormal activity such as the unusual location or the abnormal speed of a person's movement. This edge-based intelligence distinguishes between typical and atypical events by continuously learning what constitutes normal activity for a scene over time. For example, if there is an individual running through a highly restricted area on an industrial site, a security

guard will be notified in the Focus of Attention interface to locate where the person is and take measures to address the situation.

"We are providing our customers with a durable, powerful solution that is built to address their specific security and business needs when overseeing sites that face the risk of an explosion" says John Kedzierski, senior vice president, Video Security & Analytics at Motorola Solutions. "Through the incorporation of AI-powered analytics in this camera, we are making it easier for our industrial customers to gain greater situational awareness while supporting the safety of their teams". The H5A Explosion-Protected camera is offered in three models that include the 6MP Compact Bullet, 2MP Bullet and 2MP PTZ.

Hanwha claims industry first with 8K camera



Security personnel responsible for the safety of visitors at airports, sports stadiums and other wide open environments where there is a high risk of terrorist activity, can now rely on a new high performance Wisenet video surveillance camera manufactured by Hanwha Techwin, to help them detect and forensically analyse any suspicious activity.

"The super high resolution capabilities of the Wisenet TNB-9000 means that large areas can be covered with sufficient pixel density to enable operators to digitally zoom in to see a sharp image of just a small part of the scene," said Uri Guterman, Head of Product & Marketing

for Hanwha Techwin Europe. "This ability to closely zoom in without losing any detail, makes the Wisenet TNB-9000 ideal for applications where installing multiple cameras may be impractical or cost prohibitive."

The H.265 Wisenet TNB-9000, which utilises a full size 43.3mm CMOS sensor to capture true 8K images at 15 frames per second, is equipped with deep learning based video analytics. This simultaneously detects and classifies various object types, including people, vehicles, faces and license plates.

The deep learning based video analytics is also able to ignore video noise, waving trees,

moving clouds and animals, all of which might normally be the cause of false alarms. In addition to its deep learning capabilities, the Wisenet TNB-9000 has a wide range of built-in intelligent video analytics (IVA), including tampering, loitering, directional detection, defocus detection, virtual line, enter/exit, appear/disappear, audio detection and motion detection. It also has an audio analytics feature which recognises critical sounds such as raised voices, screams, broken glass, gunshots and explosions, and generates an alert to enable security personnel to quickly react to any incidents.

"The superb quality of the images captured by our highest resolution camera to date, together with its deep learning based video analytics and other innovative features, provides security personnel with an extremely powerful tool to accurately detect any suspicious activity," said Uri Guterman."

Motorola extends performance of body-worn cameras



The new Watchguard V300 continuous-operation body-worn camera from Motorola is thought to be the first in the industry to address law enforcement's need for body-worn cameras that remain operational beyond a 12-hour shift. Swappable battery packs and 128 GB of memory enable it to operate continuously while officers are in the field. For example, if a V300's battery runs low, the officer is able to change out the battery in the camera and swap in a spare that they carry on hand. This saves the officer a journey back

to the station to check-out a new, fully-charged camera.

The Watchguard V300 body-worn camera can also be integrated with the Watchguard 4RE in-car video system, allowing for the capture of synchronised video of an incident from multiple vantage points. With automated license plate recognition (ALPR) capabilities, the Watchguard 4RE in-car video system delivers real-time, in-vehicle intelligence to law enforcement officers.

Additionally, patented record-after-the-fact

technology, if enabled on the V300 by a system administrator, can be used to recover the video from an incident days later, even when a recording was not automatically triggered or the record button was not pressed.

The Watchguard V300 detachable battery, along with the evidence library rapid check-out kiosk, also changes how a body-worn camera programme can be deployed. Cameras can be pooled between officers, so agencies may purchase fewer cameras than their total number of officers. Since the V300 detachable battery can charge without being attached to the camera, fully-charged spares can stand ready in a docking station for a quick shift change, allowing immediate re-assignment of an inbound camera to a new outbound officer, improving availability and utilisation.

LILIN's new IP Mini-Dome Camera



Designed with flexibility in mind, the new LILIN MR6822E2 1080P IP Mini-Dome Camera gives installers a versatile solution for residential and commercial surveillance applications with its unique combination of a small "turret-style" form factor, easy mounting options both indoors and outdoors, built-in video analytics, and IR LED illumination for 24/7 surveillance excellence. Incorporating the company's patented Sense-Up technology, the LILIN MR6822E2 will capture video with exceptional clarity and sharpness in all lighting conditions, along with audio.

Amazingly compact, the MR6822E2 boasts dimensions roughly similar to a tennis ball so it will deliver high-quality performance even in cramped, space-sensitive areas where other cameras can't b. It strengthens building safety and security through advanced analytics including Advanced Motion Detection, Tripwire Detection, Traffic Light Detection, and Object Counting, along with secure channel encryption of up to 30 frames-per-second at 1920x1080 resolution.

Easy and secure installation is central to the camera's design with several mounting options available that allow an

installer to adapt to the end-user's specific site requirements. The camera can be either wall- or ceiling-mounted, requiring only three screws for faster installation. Also, because the MR6822E2 is ONVIF-compliant it delivers interoperability between any IP-based physical security product to allow installers to design and build a complete, fully integrated IP solution with devices from LILIN or any other major manufacturer. Its wide-angle fixed lens (2.8mm) achieves a far larger coverage area relative to its small footprint, in both day or night, while helping to reduce the number of cameras necessary for full surveillance.

Equipped with a full IP67 rating and aluminum housing, the MR6822E2 is a rugged yet discrete choice for both indoor and outdoor locations. Available in both black and white versions, this low-profile camera blends seamlessly into most environments without disrupting the intended aesthetic.

“Touch-free” access control with temperature screening



Hikvision’s MinMoe terminals employ face recognition and thermographic technologies to make access easier and safer for work areas, record attendance, and simultaneously screen temperatures without requiring employees to touch a terminal or gate. The “touch-free” nature of the terminals is also suitable in high-throughput scenarios for fast temperature screening with access control, such as offices, factories, retail stores, schools, and so on.

Fast and accurate temperature screening with thermographic technology

Equipped with advanced thermographic cameras, the MinMoe temperature screening terminals quickly and accurately detect elevated skin-surface temperatures for preliminary screening. The 0.3- to

2-meter recognition distance enables flexibility in deployment and detection.

When detecting abnormal temperatures, MinMoe terminals can be set to deny access requests and alert operators to further confirm a person’s actual core body temperature using clinical measurement devices. Further, the terminals support a fast temperature measurement mode, which will detect temperatures only (identity authentication will not be conducted in this mode).

“Touch-free” access control and attendance recording

Compared against conventional fingerprint access control and time attendance devices, MinMoe terminals offer a pleasant “touch-free” experience. Powered by a deep learning algorithm, MinMoe terminals ramp

up accuracy of face recognition to over 99%, ensuring speedy and almost “non-stop” passing. Furthermore, the terminal performs well in low- and even zero-light environments.

Mask detection

In many areas and scenarios, wearing masks has been suggested or even required by local governments, communities, or businesses themselves. Quick, automated mask detection will be another demand for access control systems. MinMoe Temperature Screening Terminals can detect whether a person is wearing a mask. When a registered face is recognized but not wearing a mask, the device will prompt an audio reminder. This provides a simple way to automate monitoring and uphold requirements, regulations, and ultimately, safety.

camera, PoE switch, and network video recorder. The solution is designed to enable businesses to comply with social distancing regulations and maintain maximum occupancy as well as a safer and healthier environment during Covid-19,” said Alex Liao, President of Vivotek.

“This intelligent solution can be deployed at points of entry to areas with a higher likelihood of social interaction such as shops, supermarkets, pharmacies, banks, and restaurants. In a post Covid-19 world, the solution can be expanded as a business intelligence solution to optimise operations. Until then we

will continue to stand together with and serve our customers, while providing AI-based solutions in our fight against Covid-19.”

The benefits of Vivotek’s Crowd Control Solutions include social distancing compliance by putting safety first, the solution enables effective management of crowds in places where social distancing must be upheld. It offers a high degree of accuracy as an alternative to when business owners recruit security staff or part-time employees to manually count traffic which can lead to a less than satisfactory result. Vivotek’s 3D stereo counting cam-

era offers precise tracking and a counting accuracy of up to 98%. This accuracy is further increased by the ability to transfer large datasets. Real time analytics combine AI with deep-learning analytics, which means video data can be gathered, analysed, and applied in real-time, enabling staff to respond promptly to any change. Finally, the system offers a lowered risk of infection. The deployment of Vivotek’s crowd control solution also means a minimization of physical contact, providing both customers and employees a safer working and shopping environment.

InReality ‘Thermal Mirror and Occupancy’ Monitor



InReality has announced a new suite of Safe Space Solutions powered by their integration and analytics platform. The Thermal Mirror, an Enterprise-focused turnkey fever scanning solution, displays almost immediate temperature results, either anonymously for visitors or via facial recognition for employees. The Occupancy Monitor automates in-venue traffic counts in real-time sensed via mobile devices and/or camera-based technology options.

What sets these products apart from other options is the integration of the InReality software platform. InReality has transformed off-the-shelf post-COVID technologies into “smart” solutions for managing in-venue health concerns, but with enterprise level features that make sense for business management.

“We’ve spent almost a decade focused on

evolving and supporting our venue analytics platform,” said Ron Levac, InReality Co-founder and CEO. “It solves how to correlate disparate IoT sensors and external data points into simple metrics and KPIs, then uses the information for predictive and responsive purposes.

For each of the Safe Space products InReality offers, businesses can easily customize and configure metrics and KPI reports. The system allows for flexibility and customization to support CX, process compliance and reporting needs. Data management can be planned to meet IT and legal requirements, and installation points can be remotely managed and updated—all from one simple platform. This is in contrast to most of the standalone quick fix solutions in the market today.

An additional use case currently in the

works for the Safe Space suite of solutions is the InReality Pandemic Resiliency Temperature Monitoring Initiative. By aggregating all of the temperature results anonymously, from retail locations, restaurants, and places of work, InReality will provide summary snapshots of trends via real time APIs to government and health officials to track and flag flare ups and anomalies as they occur. The data will include the number of tests (by day) and the results distribution. Provided at no charge to both site owners and approved officials, it will leverage the InReality platform capabilities to learn what a normal pattern is, then highlight anomalies, serving as an extra layer of insight to identify ‘hot spots’ for taking immediate, proactive action.

Vivotek offers new crowd control solution



During the Covid-19 pandemic, social distancing has become a standard public health intervention around the world. As one of the most effective ways to

reduce the spread of illness, the retail sector has adopted several practices such as limiting the number of in-store customers, in-store social distancing markers,

investing in protective equipment, and increasing upper-limits on contactless payments.

At the same time, an increasing number of retail, healthcare, banking, and hospitality industries have adopted AI-based IP surveillance solutions to reduce the load on manual management while also mitigating the risk of both employee and customer infection on their premises.

“Vivotek is one of the few IP surveillance companies that has implemented AI technology into its crowd control solution. This solution includes an edge-computing stereo counting

Panasonic unveils i-Pro Extreme U-Series cameras



Panasonic has announced the release of its new i-Pro Extreme U-Series of network security cameras. This new range of thirteen indoor and outdoor security cameras add a cost effective entry-to-mid-level range to the Panasonic line-up whilst maintaining the high performance, visibility and reliability that customers expect.

The U-Series offers a wide selection of cameras with dome and bullet designs, varifocal and fixed lens options, Full HD and 4MP, along with vandal resistant and weather proofed designs for outdoor models. The range is ideal for price sensitive organisations in education, logistics, hospitals, office spaces, retail stores and many other applications.

The U-Series camer-

as deliver day and night time visibility with low level lighting and IR-LED capabilities to ensure clear colour, quality security images 24/7. The cameras use Panasonic's iA (Intelligent Auto) technology to monitor scene dynamics and motion and adjust camera settings automatically in real-time to reduce distortion, such as motion blur on moving objects.

The Super Dynamic capabilities allow the cameras to capture a wider range than traditional devices to ensure all locations and areas can be covered. Corridor mode adjusts the camera view to ensure stairways and long corridors can be monitored by a single camera.

Living up to Panasonic's reputation for dura-

bility and reliability, the outdoor models in the line-up come with vandal resistant IK10 protection, water and dust protection and anti-corrosion screws.

Just like the other cameras in the i-PRO Extreme platform segment, the U-Series uses H.265 compression and smart coding to reduce the amount of video data, which increases bandwidth efficiency and reduces storage requirements and costs. The smart design and packaging of the U-Series can reduce the installation time of the cameras. For example, the cameras can be connected and configured prior to installation while still in their box. They also have motorised zoom and auto focus capabilities for faster set-up.

non-mechanical pan-tilt security camera that includes auto-tracking.

The Enforcer is Swann's latest camera that includes motion-activated, red and blue flashing lights, spotlight, siren (on 4K variant) and additional features to deter intruders. Swann has announced two new additions to their security products line.

- Compact, non-mechanical pan-tilt indoor security camera – It uses innovative auto-tracking technology to track and record moving objects without physically having to pan or tilt.
- Auto-zoom capability – It ensures any suspicious activity is kept targeted and in-focus for up to 2 objects at once within a second camera view while the main 180-degree

widescreen full-room view remains on-screen via the Swann Security app.

- Infrared night vision which can see in the dark up to 32ft / 10m, automatically turning on when the lights are off.
- Two-way audio - Greet visitors, talk to pets or warn off intruders.
- Easy to install - Just plug into power and connect through Wi-Fi.
- Motion-activated police-style, red and blue flashing lights - Deters intruders, while their spotlights, sirens (4K version only), and mobile alerts ensure intruders are left with nowhere to hide.
- Night2Day colour night vision - Avail-

able on the 1080P model, this ensures complete protection and peace of mind 24/7.

- True Detect Heat and Motion technology - Sensing people and cars for more reliable security monitoring and fewer false alarms.
- Free local storage on DVR - Up to 180 days onto a 2TB hard drive, plus the ability to upload clips to the cloud for free.

These new products are part of a complete security ecosystem that can be managed under the 'Swann Security' app. This gives users a unique ability to control wired and wireless security devices from multiple sites, stream live video, always receive rich notifications and know what's happening in one place.

Hanwha expands NVR line with Wisenet Q series



The ability to record images captured by 8 megapixel cameras is among the long list of added value features built into 3 new Wisenet Q network video recorders (NVRs). The ONVIF compliant 4, 8 and 16 channel plug & play PoE devices, which are supplied with a new, intuitive, user-friendly graphical user interface (GUI), are designed to be suitable for virtually any small to medium size video surveillance applications which require a cost-effective, robust and reliable video recording and storage solution. As such, they are ideal for office, retail, warehouse and office type environments which do not need a high number of cameras, but where users wish to have the ability to record images captured by ultra-high definition cameras.

A dual track recording feature enables the NVRs to simultaneously record two streams of video from each connected camera at different

resolutions. Intended to ensure operators are able to rapidly verify what may be occurring at a remote site, this feature facilitates the immediate retrieval of standard resolution images and then enables operators to subsequently review the ultra-high resolution recorded images for post incident forensic analysis.

Support for H.265, H.264 and MJPEG compression adds to the new NVRs' bandwidth friendly credentials, as does Wisestream II, a complementary compression technology which dynamically controls encoding, balancing quality and compression, according to movement in the image. When Wisestream II is combined with H.265 compression, bandwidth efficiency is improved by up to 99% compared to current H.264 technology.

The NVRs offer real-life practical benefits to system integrators as well as end-users. The

time installation engineers have to spend on site is minimised by their being able to remotely connect to the devices via a smartphone or tablet, without having to set up a complex network. This is done by using P2P and unique QR codes. Power over Ethernet (PoE) functionality also reduces installation time and cost by negating the need to provide power points and separate cabling to each camera location.

"As is the case with all our Wisenet Q series products, there has been no compromise on the build quality or functionality of these new NVRs, even though they have an affordable price point," said Uri Guterman, Head of Product & Marketing for Hanwha Techwin Europe. "The dual streaming feature, for example, is particularly important when there is a requirement to record ultra-high definition images and is just one of the reasons why the NVRs truly offer customers real value."

Swann releases 4K Enforcer & Tracker security cameras



Swann, a globally renowned provider of do-it-yourself security solutions, has announced the release of the Swann Tracker security camera as well as the Swann Enforcer camera systems in 4K resolution, a perfect indoor and outdoor security solution for any home or business. The 1080p resolution Enforcer cameras are coming soon.

The Swann Tracker security camera was first unveiled at the Consumer Electronics Show (CES) 2020 earlier this year and was named a CES 2020 Innovation Award Honoree as the world's first compact,

LonTrend announces PTZ units for long range surveillance



LonTrend is well-known as a camera housing provider, its positioning technology is undoubtedly another strong strength. With more than 30-years-experience, LonTrend has supported a variety of projects with pan tilt units, and has reached to different fields, such as CCTV cameras, telecommunication, broadcasting and solar panels,

etc. With a view to satisfying the requirement from the growing number of Pan Tilt Units' users, LonTrend is going to launch state-of-the-art LTPM06 PTZ camera units.

PTZ cameras play a big role in wide and long range area surveillance projects. However, under some special conditions like factory, power plant, and battleground,

the installation site requires more than two cameras with different features, such as a thermal camera, an optical camera and laser light to monitor the wide area. In this case, LTPM06 pan tilt unit will be the first option which helps to upload two or three cameras together and upgrade the devices to a multi-sensor system.

March Networks releases new line of 6MP AI Cameras



March Networks, a provider of video security and video-based business intelligence solutions, has introduced its ME6 Series IP cameras, a new 6MP camera line powered by Artificial Intelligence (AI). Incorporating system-on-chip (SoC) technology from California-based company Ambarella, the ME6 Series is said to use deep neural network processing power to accurately distinguish between people and vehicles. This built-in intelligence is combined with next-generation security analytics for the most accurate, real-time analysis and detection of events, according to the company.

Organizations can utilize the cameras' no-

tifications for perimeter and zone breaches, loitering, and atypical activity involving vehicles. The ME6 Series' analytics are embedded in the cameras for convenient out-of-the-box use. In addition to AI-powered analytics, the ME6 Series also incorporates digital overlap high dynamic range (DOL-HDR), the latest in HDR sensor technology. DOL-HDR combines three separate exposures in every frame, delivering sharp, colorful and well-lit images for customers.

Additionally, the cameras offer a new Region Of Interest (ROI) feature that allows users to adjust compression levels within identified zones and save on stor-

age. Using this feature, customers can identify zones of high or low importance in the camera's field of view and apply additional compression in those zones. When combined with March Networks' existing Low Bit Rate (LBR) feature, the ROI feature can help customers reduce data rates by as much as 65%, according to the company.

Organizations can choose from two distinct ME6 Series models including:

- The ME6 IR dome, an indoor/outdoor dome with a 3.6-11mm motorized lens with P-Iris
- The ME6 IR Dura-Bullet, purpose-built for outdoor environments, featuring a 2.7-12mm varifocal lens with P-Iris and remote zoom and focus

Both ME6 Series models have built-in IR LEDs that can illuminate objects in the dark at over 130-feet (40 meters) away. Both are also protected by weather-proof (IP66), vandal-resistant (IK10) enclosures.

Smart video technology helps manage crowd density and social distancing



Health organizations around the world have created the common awareness that maintaining a safe distance between people is one of the best practices we have to avoid being exposed to COVID-19 and in slowing its spread.

As various countries and regions push to re-open businesses and relax stay-at-home orders, social distancing remains an ongoing requirement. More than that, crowd density information is also considered a significant reference in managing the "social distance" of workplaces, businesses and public spaces.

Business owners are working hard to keep employees, customers and visitors protected. Dealing effectively with "density" – a new imperative for management and operations – complicates staffing and interpersonal interaction.

Limiting the number of people to ensure safety

In the current situation, public and private managers and authorities have to do more than ever before to keep people safe, and in many cases efficient calculation of customer traffic will be essential.

Prama Hikvision's Flow Control Solution uses people counting cameras and digital signage, which provides a dynamic on-screen display to show users how many people are entering and leaving a building or an area, and sends real-time alerts in case pre-defined capacity thresholds are exceeded. These people counting cameras utilize highly accurate 3D binocular stereo vision and Deep Learning algorithms, making

ing complex counts easy, even in multi-door sites.

More important, the Flow Control Solution can be easily and rapidly deployed. It is designed to be simple to use and highly accurate, with options to suit all potential application scenarios. In locations with a single entrance, one people counting camera can be installed at the entrance and connected to the digital signage. For multi-entry scenarios, people counting cameras can be installed at each entrance and exit, equipped with I-Series NVRs or HikCentral to calculate numbers of people entering or leaving, so as to accurately provide real-time number data.

Multiple entries and exits

For example, a supermarket can install a clear and easy-to-understand, dynamic data number display at each entrance to provide real-time updates for people waiting to enter. An alert is generated when the pre-configured maximum is reached, and an audio alarm can be triggered if anyone attempts to enter before the numbers go below that threshold.

At present, with expenses more critical than ever, users can use the Flow Control Solution to automatically monitor the situation, empowering businesses and possibly reducing the required number of security guards and other resources.

Maintaining a safe social distance in public

In areas where crowds are unavoidable, such as cash registers in supermarkets and the ticket kiosks

at public transportation hubs, managing distances between people queuing (standing in line) is also critical. Authorities in various locations have established specific guidelines and legislation in this area, balancing the needs and risks for citizens.

Hikvision Dual Lens Cameras (DS-2CD6825G0/C-I(V)(S)) help retail stores and other businesses measure social distancing, and its advanced 3D binocular stereo vision and deep learning algorithm can be configured to trigger alarms according to local regulations and requirements. Users can set the minimum contact distance threshold needed; when the distance becomes less than this pre-set threshold, an instant alarm and popup will appear with audio and video linkage.

Alongside the Density Control Solution, Hikvision also offers a Mask Detection Solution. This technology ensures that anyone entering a premises is wearing a face mask when they are required to do so. Those without a mask will not be granted entry.

The Mask Detection Solution can be delivered in a variety of formats depending on user needs: added to a specialty camera or a Hikvision Deepin-Mind NVR for users with existing camera systems, integrated into Hikvision's Temperature Screening Thermal Solution, or as part of a MinMoe door access unit with built-in face detection technology. Entry can be denied if a mask is not worn and/or an out-of-range skin-surface temperature is detected.



French University upgrades to real time access control



Around 7,000 people pass through the Luminy faculty's suburban campus every day. As part of a major project to modernise two buildings, university managers sought a retrofit-ready access control solution to upgrade security.

University administrators selected Aperio locks to secure doors in the new buildings. With Aperio, facilities staff deal with lost keys more efficiently, and the often laborious process of changing locks and re-issuing keys — part of the daily workload with mechanical locking — disappears.

The Luminy University campus in France is now equipped with 372 Aperio electronic cylinders and 42 Aperio electronic handles with built-in RFID readers. Locks are integrated seamlessly, wirelessly and online with Luminy's ARD access control system. One key goal was to deter theft, which was becoming a problem in teaching areas — es-

pecially those with computers.

"Since we installed Aperio, we have not had a break-in," says Cédric Lopez, Maintenance Manager at Luminy. The upgrade also provided an easy extension for room management and scheduling. In addition to theft deterrence, Aperio met broad, stringent criteria for the security upgrade. Staff and students carry individual access smart-cards. Doors and credentials are easily programmed and reprogrammed to accommodate everyone's changing access needs.

Luminy's security team has complete control over access permissions and campus traffic — in real time. The new Aperio devices are integrated online and so staff see a "live" overview of the campus and respond proactively to incidents. The new Aperio system protects the most sensitive areas of the campus. "We have critical premises, including for the storage of chemicals, some

with radioactive properties," adds Lopez.

Aperio locks are built on an open platform, so they are flexible enough to integrate with the university's room scheduling system. "Teachers are able to reserve their rooms. Students no longer have to wait for the teacher's arrival, because they have access to the right rooms in defined time slots," says Cédric Lopez. The credential students already carry automatically opens classroom doors, if they have pre-authorised access rights. For the facilities team, the ARD interface displays scheduling for all relevant rooms in real time.

Luminy site managers have already scheduled further real-time access control upgrades built around the Aperio wireless technology. As the Luminy project demonstrates, the benefits of Aperio extend beyond enhanced campus safety and student security.

costly to maintain and time-intensive to operate, while low bandwidth at some stores was limiting performance. These problems were being compounded by new requirements to move from 30 to 90 days storage.

Ametrad managing director Ahmad Shanawani says: "We have not experienced a single hard disk drive failure, a request for an NVR reset, or any gaps in footage due to a power outage. This is tangible evidence of Idis' quality, resilience and failover technology." All the hardware is backed by a warranty and the ability to easily add new stores as they come online — vital as Carrefour serves over 200,000 customers every day across the region and is continuing to expand — ensuring low total cost of ownership.

Using a phased upgrade approach 32 2MP domes and bullets already provide coverage at the hypermarket in Irbid City Centre, with a further 64 legacy cameras earmarked for upgrade, while an average of 28 cameras deliver situational awareness across each express store. The Idis cameras ensure pin-sharp image capture in varying light conditions, including

in darkness up to 30 metres, and cope with varying light and shade thanks to true wide dynamic range.

32-channel NVRs and a user-friendly interface for authorised retail staff at each supermarket provide 370Mbps throughput and up to 960ips UHD real-time recording. This ensures high performance live monitoring and forensic video retrieval, while native RAID 1 provides an important additional layer of redundancy.

Ametrad engineers connected each device in minutes thanks to true plug-and-play Idis Direct IP technology, and Idis For Every Network (FEN) technology allowed one-click configuration linking each store to the control centre. The hierarchical connection structure between Idis Direct IP devices also guaranteed the most efficient method of cabling into the compact control room.

Limited bandwidth was solved with Idis Intelligent Codec, which typically reduces storage and bandwidth requirements by up to 75% compared to H.264, while dynamic multi-stream control has alleviated latency. These technologies also allowed Carrefour to

double the camera count at each store to provide comprehensive coverage without the need to upgrade networks.

Ametrad is also deploying Idis VA in the Box analytics, to provide each store with heat mapping, people counting, queue management and intelligent reporting capabilities — thus helping improve sales and marketing performance and providing store managers with valuable business and customer behavioural insight.

ISS control panels provide live monitoring, playback, event search, system health reports, and navigation via store layouts, allowing control room staff to troubleshoot and manage 100s of video streams and devices across multiple stores. These intuitive functions have reduced the time needed to find and export video clips from hours to minutes. Carrefour has contracted Ametrad to provide maintenance services and is working with the Ametrad team with a view to adopting new Idis technologies such as IDIS Deep Learning Analytics.



Carrefour Jordan upgrades security using Idis Solution Suite VMS

A global hyper- and supermarket giant has transformed an ailing legacy CCTV system and enhanced storage capacity across its Middle East operations with a high performance surveillance and business intelligence solution. Carrefour Jordan operator Majid Al Futtaim turned to specialist systems integrator Ametrad Technology Services to upgrade its video technology as it prepares for growth.

The Dubai-based retail pioneer, which first introduced Carrefour to the Middle East in 1995 and now operates 70 outlets across the region, has ambitious expansion plans and is looking to open new express stores and hypermarkets. Ametrad are deploying video technology built around Idis Solution Suite (ISS) video management software (VMS) for the Majid Al Futtaim security team, whose priority is to prevent losses, improve safety and security,

enhance the customer experience and greatly increase operational efficiency across its existing eight express stores and hypermarket.

ISS VMS is modular and scalable, giving Carrefour a cost-effective centralised monitoring environment with multi-layered failover providing protection against network instability and power outages.

The legacy CCTV system was proving

Sepura/GEG support COVID-19 hospital with critical communications solution

Sepura's Italian partner GEG has donated vital critical communications equipment to an emergency hospital in Italy, to aid the country's medical support during the COVID-19 outbreak. The rapidly deployed Fiera di Bergamo hospital is situated in an event venue

in Bergamo, the worst affected region in Italy and is managed by staff from a nearby permanent hospital. The facility was constructed in just a week, supported by private and corporate donations and volunteer support from the region.

The facility compris-

es 142 beds including over 70 intensive care beds and access points for both ambulances and helicopters. To ensure that all medical staff, logistic support and volunteers can communicate effectively, GEG have donated a complete critical communications system to the site, com-



prising 50 Sepura SC21 TETRA radios, programming software and a TETRA base station from DAMM to provide the local network.

The radios have been provided with individual battery chargers and belt clips to reduce the amount of contact with hands and to reduce the risk of cross contamination. For the control room, GEG have provided a desk-mounted SRG3900, multiple charging units and desktop programming devices to ensure that the radios are correctly set up for emergency use.

After performing a full site inspection and installing the base station, GEG also delivered training to all radio fleet administration staff on basic radio use, including switching between talk groups and making full duplex calls.

Ian Gotti, Sales Area Manager for GEG said, “Communication is

particularly important in this environment, as many of the key workers in this highly pressured environment are not used to working together; on site there are member of both the Italian and Russian armies, volunteers from international emergency response and civil protection organisations, nurses and medical staff from all across Italy and many maintenance staff across site covering many functions.”

He continued, “We are proud for GEG to have played our part in enabling Italy to fight back against the coronavirus and we stand with the emergency teams on the frontline that are providing the expert medical help patients desperately require.”

Due to the protective masks worn on the mouth, communication over a critical communications device was the only available solution

to the workers. The Sepura radios allow for a very quick configuration and programming of the fleet and also an efficient way to link the fleet to the control room which was vital in this situation. The radios have the additional advantage of being easy to clean and sanitise, capable of functions with minimal use of hands and provide guaranteed secure coverage even in the deepest parts of the building.

Victor Rodrigues, Strategic Account Director for Sepura said, “GEG have many years’ experience in selling TETRA systems into environments such as hospitals and it is a tribute to their dedication that the system was up running so quickly to support the emergency operation. We pass our best wishes to the medical staff on the frontline.”

applications. Commenting on the transmission specification for the new Cambridge Science Park system, Stephen Cook, Managing Director of Briar Security explains: “The original CCTV system at the park was quite aged, with some components estimated to be over 15 years old and either poor performing, or at the end of its operational lifecycle. In addition, some elements of the CCTV were non-operational, meaning the site’s security team were being hindered by limited situational awareness across some areas of the park. Also, the existing CCTV system pre-dated a number of areas of the park which had been re-developed (or were due to be redeveloped in the near future), and as such, only offered partial surveillance coverage – but in some areas, no coverage at all.

“As owner of the freehold, Trinity College Cambridge required an enhanced IP video sur-

veillance system, and we were selected to deliver the system after a competitive tender process, managed by the independent property consultancy Bidwells. The property consultancy wanted the specification of the new surveillance system to offer 100% redundancy and flexible expansion capability.”

“The new underground duct system was installed to serve the science park; routing fibre optic cable for the backbone of the new network, in addition to a new mains supply to roadside locations around the site. Here the AMG Managed Industrial Ethernet Switches were installed in cabinets to provide power and control data to the cameras, and receive video via aCat6 cable wired to each pole mounted camera.”

Six 1Gb SM fibre rings were installed, each with 3-4 AMG9IM2P-8FH-2S-P240 switches connecting the cameras

via Cat5e/6 (GbE) cable. Each ring is then linked to Avigilon servers and three desktop control points at the control room - via three dedicated AMG9IM2P-4G-2S switches and a single AMG9CLMP-24G-4XS-ST switch.

AMG Managed industrial switches have up to 16 fast or Gigabit Ethernet ports with up to 4 additional dual speed SFP ports for data uplink, making them the perfect choice to provide the park with the best performance and most reliable switch, plus the critical expandability element for the developing site’s future needs.

Thanks to the combined expertise of Briar Security, Bidwells and Norbain, amalgamated with the technical capability of AMG managed industrial switches, Cambridge Science Park now has a world-class security solution fit for one of the world’s leading technology centres.

Hikvision Provides IP CCTV For Battleship North Carolina



Hikvision USA Inc., a provider of artificial intelligence, machine learning, robotics and other emerging technologies, and the supplier of video surveillance products and solutions, provided a new, high-resolution IP security system installed by Hikvision integrator ADT/Protection 1, to upgrade security for the Battleship North Carolina, a national historic landmark in Wilmington, N.C.

A stationary nine-level ship and museum, the Battleship North Carolina is a memorial honoring the 11,000 North Carolina service members who perished in World War II, along with all veterans. Visi-

tor attractions include mess halls, the engine room, the bridge, and the Combat Information Center.

“The combination of Hikvision camera models and thoughtful camera placement has produced a broad surveillance umbrella for the Battleship North Carolina landmark, and also has some amazing views,” said Jason Summers, commercial sales at ADT/Protection 1. The ship’s cabling posed the biggest challenge, Summers said. “The USS North Carolina had a team of volunteers that handled cabling on-board the ship. Once the old coax cabling was removed, connecting the cameras and network

was relatively easy.”

After completing a major network upgrade last fall, it was an ideal time to replace the battleship’s aging analog surveillance system. Hikvision integrator partner ADT/Protection 1 upgraded the system and installed 45 new Hikvision cameras.

A mix of Hikvision 3 MP dome cameras, 2 MP 30x optical zoom PTZ cameras, 2 MP motorized zoom bullet cameras, and 2 MP turret cameras were placed throughout the main ship and the gift shop. Two Hikvision 32-channel NVRs with 6 TB of storage provide recorded footage for up to 40 days.

AMG Systems provides high tech CCTV upgrade for Cambridge Science Park



When Briar Security was commissioned to replace an ageing CCTV system at Cambridge Science Park, they turned to AMG Systems to provide

the required IP video surveillance power, video and data network equipment.

With a 35-year his-

tory in the security industry, Briar Security is highly experienced in the development and installation of security solutions across a broad range of

Metro develops vital equipment in fight against virus



Vital health and safety personal protection against coronavirus for a wide range of NHS staff, key workers and other employees manning critical commercial, industrial and public sector facilities, has been developed by Metro Security (GB) PLC. Metro has reacted to the global pandemic by developing an innovative new module for its 2019 Queen's Award-winning M.A.R.S analytics solution. This new temperature monitoring system provides immediately available, easy-to-install and effective detection of arriving employees, contractors and visitors at the entrance point to any facility.

Metro on-site staff can monitor anyone arriving with a temperature higher than normal, using either a local display screen and/or a mobile app for their smartphone, tablet or laptop. Up to 20 incoming people can be screened simultaneously.

In addition to Metro's existing facial recognition techniques, the new M.A.R.S temperature monitoring system can check each arriving person using face detection thermal software linked to skin temperature. This innovative and configurable tech-

nology can then raise an alarm if their temperature meets a pre-assigned, abnormal level – a key symptom indicator for COVID-19 and other conditions including flu (influenza).

These two facial recognition and thermal temperature systems can be deployed either standalone, or in conjunction, according to user requirements. For instance, health facilities, public buildings and commercial establishments may only wish to monitor the temperature of those arriving infrequently at their sites and set the temperature alarm threshold at a nominal point. The triggering of an alarm above this temperature level then provides them with the option to take preventive action, as required, before the person moves past this important entry point.

Facilities such as offices, warehouses and distribution operations, where staff regularly come and go, can combine the two technologies to both identify each person individually (using facial recognition) and measure/match their daily temperature against previously taken readings. This could warn of an elevated facial tempera-

ture compared with previous days which, even though it's still within a safe range, may indicate a developing condition. This offers the potential to detect coronavirus symptoms even earlier and help save more lives.

Thermal temperature screening of up to 20 people at once can be carried out, with an accuracy of ± 0.3 degrees C, ensuring no 'false positive' alerts are triggered.

The system's elements consist, firstly, of proven and reliable facial recognition software that works in conjunction with megapixel CCTV surveillance cameras. These cameras can be quickly deployed and configured to suit varying site entry arrangements. Secondly, Metro's new temperature monitoring technology is interfaced with configurable alarms to provide real-time alerts for immediate on-site manned response. The system can also be linked to access control equipment such as turnstiles and door entry locks, e.g. to automatically close access points if a body temperature alarm is activated and prevent ingress to the site while checks are carried out.

ISS and RiskBand announce wearable live-monitored safety devices

Interface Security Systems, a managed services provider delivering managed network, asset protection, and business intelligence solutions to distributed enterprises, introduced a new interactive security service

that allows businesses to equip at-risk staff with a wearable safety device that is directly connected to the Interface Interactive 24/7 Central Command Centres.

Through a partnership with RiskBand, a

provider of wearable live-monitored safety devices, Interface is enabling businesses including retailers and restaurants to make wearable safety devices an essential component of their emergency response



strategy.

The wearable personal protection device can be worn on a lanyard, belt, vest, jacket, or pants. A single push of a button provides two-way voice communications, user profile data, man down and hard fall detection capabilities, near real-time images, and geolocation data to Interface's trained security professionals who can immediately assess the situation, intervene and deploy the appropriate emergency response.

"Many businesses are forced to operate with reduced staff and adapt their offerings to include new services such

as curbside pick-up. In times like these, more attention needs to be placed on protecting assets and increasing safety measures for employees and customers," said Brent Duncan, Chief Revenue Officer at Interface Security Systems. "This new service enables businesses to add another layer of protection for their associates when they are working alone, for locations with limited or no existing protection, or to expand security coverage outside a business' building."

"RiskBand is excited to partner with an industry provider like Interface, one of the most

respected security service providers in the US. With the combined power of our solutions, businesses will gain peace of mind knowing that their employees and premises are always protected by trained security professionals and state-of-the-art wearable devices," added Jim Van Law, CEO and Co-founder of RiskBand. The new Personal Protection Monitoring Service is available to Interface customers as a cost-effective expansion to their existing solutions or to new customers as an autonomous solution that can be implemented quickly with a minimal investment.

Xtralis extends Vesda gas detection safety offering



The Vesda Sensepoint XCL – Large Bore from Xtralis is a gas detection solution that utilises the ASD pipe network to deliver superior gas detection via multiple hole (multi-point) sampling. The combined solution provides reliable detection of gases for occupant protection and process monitoring whilst simultaneously ensuring protection against fire threats.

The Vesda Sensepoint XCL – Large Bore

portfolio has a range of gas sensors that addresses a wide range of applications and through its Bluetooth interface can be paired with a smart device for commissioning and maintenance. The smart device application (Sensepoint App) provides quick access to detector diagnostic information and simplifies detector configuration, calibration and bump testing.

The Vesda Sensepoint XCL – Large Bore is designed to be easily incorporated into exist-

ing or new ASD pipe networks without major construction or electrical cabling / conduit and utilises the flow in the pipe for the continuous delivery of air samples to the gas sensor for analysis.

It is capable of remote sampling which means the detector can be placed outside the detection zone at a convenient location for maintenance and service where free business operation, restricted access and safety of personnel is important. Air drawn to the detector can be conditioned to remove contaminants which ensures the detector maintains reliable long-term performance in a wide range of environments.

A single Vesda Sensepoint XCL – Large Bore detector delivers multi-point gas sampling capability giving it the advantage of providing larger coverage, increased design flexibility and reliable detection in high airflow areas compared to fixed point gas detectors.

Industry optimised surveillance from Mobotix 7



The new open and modular video system platform Mobotix 7, according to the company, fundamentally changes the use of video surveillance and video analysis. With its product portfolio of hardware, software

tems can help reduce machine downtime, which makes a decisive contribution to more effective production. The fact that the cameras are maintenance-free is a big plus for company budgets. Industrial and manufacturing companies benefit from numerous special video analysis apps that are already available today and will be available

Edge computing is an elementary component of Mobotix DNA. Mobotix cameras are designed as high performance computers with eyes. With the Mobotix portfolio, the entire video analysis - and optionally also the recording - offers industry-optimised video surveillance solutions for safer and



and intelligent partner solutions, Mobotix is offering precise mapping of the current and even future requirements of various industries.

One of the main areas of focus is the industrial and production sector. With Mobotix 7, Mobotix is completing its product and solution portfolio to meet all requirements in the industrial and production sector. The Mobotix Move models, the proven Mx6 and the new Mobotix 7 series cover all current and even future market requirements. From the high-quality standard camera to the AI-based high end IoT video system developed for innovative and future applications, the series offers robust, reliable, security.

With modern video surveillance and analysis, companies are increasingly able to optimise processes. For example, intelligent Mobotix sys-

tems can help reduce machine downtime, which makes a decisive contribution to more effective production. The fact that the cameras are maintenance-free is a big plus for company budgets. Industrial and manufacturing companies benefit from numerous special video analysis apps that are already available today and will be available

In industrial and production plants, extreme environmental conditions prevail in some cases, with temperature fluctuations, dust, humidity. The robust german made Mobotix systems are able to defy these conditions, even under difficult external influences and, according to the manufacturer, are amongst the most reliable in the industry. The company says that most Mobotix cameras have an average service life - measured by the Mean Time Before Failure (MTBF) - of over 80,000 hours (>9 years). For indoor and outdoor installation, no additional protective housing or air conditioning measures are required. The highly sensitive optics, thermal sensors, infrared illuminators and even the intelligent apps are effective even in the most difficult optical conditions, such as darkness, steam, smoke and fog.

more effective industrial and production processes, and takes place in the camera, with effective image quality, in real time and intelligently self organised. The autonomous IoT cameras transmit images - securely end-to-end encrypted according to the highest standards - into the network only when relevant events occur. Transmitting less data also means that there are fewer opportunities for cyber attacks. Edge computing eliminates the need for central video servers and recording devices. Cyber security is delivered intensively through the Mobotix Cactus Concept. And, according to the company, Mobotix is certified for the best cyber security by the internationally renowned French testing institute CNPP - the first European manufacturer to be so.

Emerging technologies that can help with social distancing

The COVID-19 outbreak has brought new realities to light that, just a few months ago, seemed unimaginable. Stay-at-home orders are keeping many people close to home. And social distancing - along with frequent

cleaning of technology devices, hands and surfaces - is widely accepted as the new norm.

Front-line workers in healthcare, public safety, retail, manufacturing and transportation & logistics

have found it particularly challenging to maintain a three or six-foot separation from other people while maintaining essential services. Medical treatments and those producing, picking, packing and delivering goods to main-



tain supply chain continuity will - at some point - come into close contact with others. Despite best efforts, there are just some scenarios in which it is impossible to fully comply with social distancing recommendations.

That being said, we are quickly discovering many instances in which technology can help workers and their customers minimize close-contact scenarios, if not eliminate them altogether. Shohail Ahmed, a Senior Engineering Manager for Zebra Technologies, gives a breakdown of a few of those instances:

Artificial Intelligence (AI)

Traditionally, patient triage and initial diagnostics have been conducted in person by healthcare team members. Now, some are being done online or over the phone with a list of pre-identified questions to minimize the risk of potential contagion exposure to other patients and clinicians. This new practice has proved valuable from a social distancing perspective, but has not yet been implemented at the level required to be highly effective or efficient from an operational perspective given the labour resources required to virtually screen patients. Instead, AI could be used to conduct the initial screening of patients without human interface and likewise guide patients to the right direction based on the severity of their conditions. In-person diagnosis should only be conducted if deemed necessary. AI can gain info, process it and provide the output to the patients and care team members via machine learning algorithms. The right combination of AI and predictive analytics technologies can also assist in optimising hospitals' operating efficiencies, increasing asset utilisation

and maintaining required equipment disinfection.

Internet Of Things (IOT)

IoT-enabled thermometers could potentially be used to take patients' temperatures from a distance. Similarly, patients can take their own temperatures and upload their data via mobile devices for virtual monitoring by their care team. This enables healthcare providers to efficiently collect more data while reducing their risk of getting exposed - or exposing their patients - to contagions.

IoT-connected sensors can also prove valuable in healthcare, as well as retail, to alert people when they are not maintaining the mandated physical distance when standing in lines. Likewise, this solution can make a difference for public transportation systems seeking to maintain a certain physical distance between vehicle operators and among passengers. Manufacturing and e-commerce fulfillment environments can also use sensors to maintain physical distancing between workers and/or co-bots.

5G

Real-time data is essential to tracking both people and assets, either to monitor compliance with stay-at-home orders or the current location of essential supplies and equipment. 5G provides the network bandwidth needed to expand such track-and-trace capabilities.

Barcode Scanners

Extended range scanners, in particular, allow front-line healthcare and public safety teams to scan barcodes on citizen ID cards while maintaining required physical distancing.

Co-Bots and similar

intelligent automation solutions

There is a strong case for smart robotics solutions in warehousing and retail environments right now. Employing co-bots to retrieve picked items and transport them to packing stations can reduce warehouse workers' movements and interactions. And mobile automation solutions that roam grocery store aisles to check for out-of-stocks or misplaced items can minimize the number of associates that have to be on the floor. Of course, intelligent automation solutions could be used to deliver essentials, such as food and medicine, to customers and patients as well.

In healthcare environments, smart robots could potentially be used to take patients' temperatures in lieu of other IoT technologies. Co-bots could also be used to transport COVID-19 samples from the point of collection to the lab to reduce unnecessary walking by care team members and maintain social distancing. Similar technologies are already in use in some hospitals to remotely monitor patients and reduce close contact for nurses and doctors.

Kiosks

Self-check kiosks are another way of maintaining physical distancing between customers and associates in retail environments. There are many more ways in which technologies which were once considered "good to have" can now be highly-effective game changers in the fight against COVID-19.

Hikvision AcuSense Technology for Warehouse Monitoring



Warehouses have commonly incorporated video cameras to help catch activity going on in and around the property. But in most cases, when loss is identified, the warehouse manager or security staff turn to the video security system to search for the right footage. The challenge is that there is an ocean of video footage, and sometimes none of it clearly tells what happened. This makes forensic search difficult and time-consuming. In short, conventional video monitoring systems cannot effectively help identify an intrusion event at the time it is happening and thus prevent it at the very beginning.

Accurate trespassing alarm

Video monitoring with accurate trespassing alerts on the detection of a human intrusion event will be a great improvement. This is where Prama Hikvision's AcuSense technology comes in.

Today's security products equipped with Prama Hikvision's Acu-

Sense technology automatically send out alerts when a human or a vehicle is detected. Thanks to an advanced Deep Learning algorithm, technology precisely distinguishes and categorizes objects into "human," "vehicle," and "other." Alarms triggered by the "other" objects such as a beam of light, an animal, the movement of foliage, etc., are disregarded, leaving the true events which are associated with humans and vehicles for users and security personnel to focus and act. Additionally, related videos are automatically sorted by categories for easier search.

Focused technology in action

So in the warehouse setup, AcuSense cameras are installed to stay alert day and night. If an intruder enters an area of attention, an alarm will be triggered; simultaneously the onsite AcuSense camera produces a flashing light and an auditory warning – which can be pre-recorded – with the aim of fright-

ening the intruder away. This transforms the traditional passive monitoring to active deterrent. At the same time, security staff is notified with an alert on the monitor or on the tablet during patrol. Accordingly, a video clip of that trespassing event displays what is happening. If needed, security staff can call the police immediately to take action.

Warehouses with an existing Hikvision video monitoring system can easily enjoy the benefits of AcuSense technology without a full system upgrade. If the front-end cameras do not need replacing, warehouses can incorporate either a Hikvision AcuSense NVR or DVR, easily giving them efficient target search of humans' and vehicles' events. Conversely, if warehouses are looking for a proactive deterrent solution against intrusion activities, AcuSense network cameras can be added or used to replace the legacy cameras at key locations.

different regions and industries.

According to Cyberint the financial industry is the most targeted industry worldwide, accounting for more than one third of all targeted attacks, and the retail industry is the third most targeted worldwide, behind manufacturing in the Americas and government targets in APAC and EMEA.

Banking trojans top the most prevalent malware families observed during 2019, and the volume of attacks is increasing due to the sale of "As a Service" platforms allowing less sophisticated attackers access to more complex tools for as low as several US dollars a month.

Cyberint also suggests that 2020 will continue to see organisations targeted by organised cyber criminal groups or nation-state sponsored threat actors. E-crime groups will

continue to focus on big gains by going after large organisations, while nation-state actors will focus on IP theft and will continue to target utility companies and commercial or defence contractors to gain advantage and minimize R&D and manufacturing gaps among nations.

"In-depth understanding of the threat landscape and how threat actors conduct operations are key factors in helping our customers protect their businesses," says Daniela Perlmutter, VP of Marketing for Cyberint. "Continuously monitoring threats in real time as well as investigating and tracking their TTPs and infrastructure delivers an in-depth perspective of the behaviours and motivations that is critical for threat detection and mitigation."

While highly sophisticated organised cyber criminal groups and nation-state sponsored

threat actors pose on-going threats, less sophisticated attacks using the "as a service" platforms available in the underground economy are increasing in prevalence, becoming serious threats for enterprises.

"Cyber criminals keep using the same TTPs because they work," says Adi Peretz, Head of Research at CyberInt. "Commoditising the attack infrastructure allows less sophisticated threat actors to gain access to more effective tools and poses an increasing risk to organisations' IT infrastructure."

The analysis is based on the combination of data collected by CyberInt's Argos Threat Intelligence Suite and further in-depth investigative activities by Cyberint researchers and analysts who contextualise, categorise, correlate, and enrich the intelligence data.

ACI Worldwide unveils technology to counter payment fraud for banks



ACI Worldwide, a globally renowned provider of real-time electronic payment and banking solutions, has announced the launch of its new 'Incremental Learning' technology – an innovative industry-first approach to machine learning that will enhance fraud protection for merchants and financial institutions and their customers.

ACI has filed a patent application for its 'Incremental Learning' technology, which is being implemented in machine learning models within ACI's fraud prevention solutions, including Proactive Risk Manager, which delivers enterprise fraud management capabilities for financial institutions and intermediaries; and ACI ReD Shield, which underpins ACI's secure eCommerce and merchant fraud management capabilities.

ACI's 'Incremental Learning' technology

represents a significant advancement over current machine learning models that need to be retrained as fraud patterns change. Incremental Learning models are able 'to think for themselves' and make small adjustments on an ongoing basis to ensure they remain relevant, even as fraudsters and genuine consumers change their behaviors. 13-month tests carried out on data from three major retail customers revealed that, while traditionally trained models began to degrade after three months, ACI's incremental models maintained their performance over the full period of the test.

"Traditional machine learning models in many cases are not sufficient to stop fraudsters in their tracks. As fraudsters become more sophisticated, we need to continuously advance our models to beat them at their own game," said Jimmy Hennessy, Direc-

tor of Data Science, ACI Worldwide. "Our global data science team has created a game-changing piece of machine learning technology that can be seamlessly integrated and future-proofs the precision and operational efficiency for over 5,000 institutions protected by our solutions today."

ACI has more than 20 years of experience in designing and implementing machine learning models, which have long been a fundamental element within Proactive Risk Manager and ACI ReD Shield. ACI's machine learning models will quickly and efficiently analyse all available features and data points, which will then be turned into intelligence that can build customer profiles, spot fraud signals and combat emerging fraud threats. Any anomalies are flagged in real time and immediate action is taken.

Risk of heightened cyber crime on "as a service" models



Cipulse 2020, is the annual threat landscape report from Cyberint a provider of threat intelligence-led detection.

It reveals the growing e-crime economy, the increasing prevalence of attacks in the financial services, retail, and

government sectors, and in-depth analyses of adversarial tactics, techniques, and procedures (TTPs) used against the

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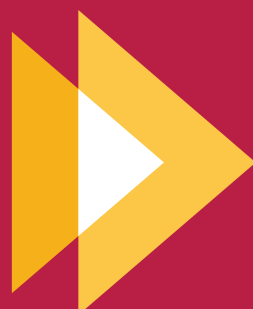
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IAFC Fire-Rescue International
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INDIA
25-26 August, 2020
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Pragati Maidan, New Delhi
India

www.internationalpoliceexpo.com

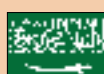


INDIA
26-27 August, 2020
SECURITY TODAY
Knowledge Summit
New Delhi
India

www.securitytoday.in



INDIA
27 August, 2020
Top Indian Women Influencers
in Security
India
www.1stasset.org
www.securitytoday.in
www.securityupdate.in



SAUDI ARABIA
1-3 September, 2020
Intersec Saudi Arabia
Jeddah Center for Forums &
Events
Riyadh, Saudi Arabia
www.intersec-ksa.com



INDIA
3-5 September, 2020
Security & Fire Expo -
South India
BIEC, Bengaluru
India
www.safeindiaexpo.com/



BANGLADESH
7-8 September, 2020
Homeland Security Expo
International Convention City
Bashundhara, Dhaka
Bangladesh
www.homesecexpo.com



BANGLADESH
9-11 September, 2020
Ifsec Bangladesh
Hall no. 04, International
Convention City,
Bashundhara, Dhaka
www.ifsec.events/bangladesh



INDIA
17-19 September, 2020
Fire India
Bombay Exhibition Center,
Mumbai, India
www.fire-india.com



USA
21-23 September, 2020
Global Security Exchange(GSX)
Georgia World Congress Center,
Atlanta, GA, USA

www.gsx.org



UK
22-23 September, 2020
The Security Event 2020
NEC
Birmingham, UK

www.thesecurityevent.co.uk



GERMANY
22-25 September, 2020
Security Essen 2020
Messe Essen, Norbertstrasse 2,
Essen, Germany

www.security-essen.de



USA
5-8 October, 2020
ISC West
Sands Expo Centre
Las Vegas, NV, USA

www.iscwest.com



MALAYSIA
20-22 October, 2020
IFSEC Southeast Asia 2020
Malaysia International Trade
and Exhibition Centre,
Kuala Lumpur, Malaysia
www.ifsec.events/sea/



INDIA
20-22 October, 2020
6th Smart Cities India 2020 Expo
Pragati Maidan
New Delhi
India

www.smartcitiesindia.com



SAINT PETERSBURG
10-12 November, 2020
Sfitex 2020
Lenexpo Fairgrounds,
Saint Petersburg

www.clocate.com



USA
18-19 November, 2020
ASIS 30th Security Conference
and Expo
Javits Centre, New York
USA

www.asisnyc.org



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ISC East 2020
Javits Centre, New York
USA

www.isceast.com



INDIA
18-19 November, 2020
3rd Edition of the Global Inclusive
Disaster Management Conference
and Exhibition
Le Méridien Hotel, New Delhi

www.gidmc.org



UK
2-3 December, 2020
UK Security Expo 2020
Olympia, London
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