

# SECURITY Update

CREATING BUSINESS OPPORTUNITIES



For Manufacturers, Distributors, Dealers, System Integrators & Installers of Security, Fire & Safety Systems.

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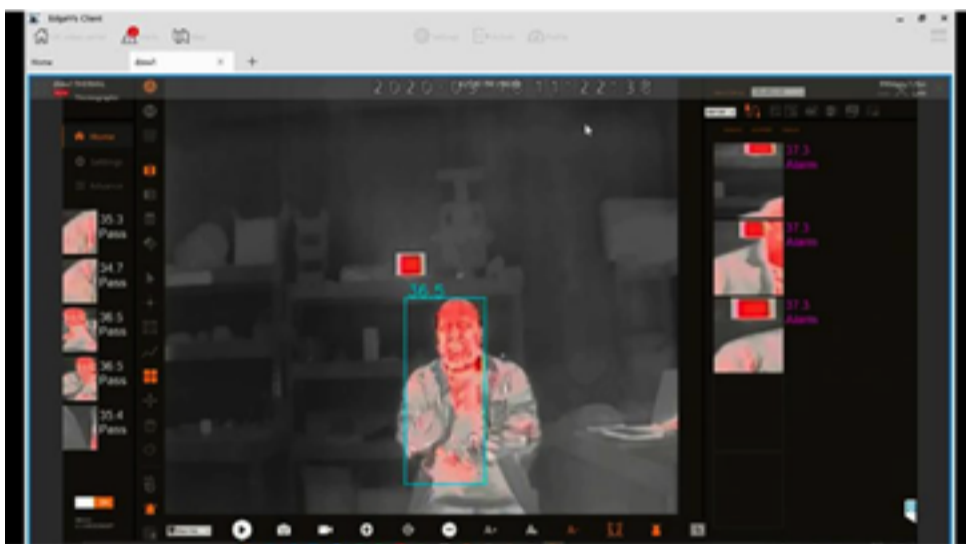
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## Can thermal cameras really detect a Covid-19 infection?



The outbreak of the Covid-19 virus has presented a huge challenge to national resources and a race to adapt existing technologies and innovate and deploy newer ones. The use of thermal imaging has been in particular focus, with sales of thermal/infrared imaging cameras increasing dramatically.

Drones equipped with thermal cameras were used in Wuhan, China, the original epicentre of the crisis, to monitor movement. Now, a number of portable thermal imaging devices are currently being highlighted for their potential to protect key workers. Each has slightly different capabilities and usage models, but all ultimately aim to measure body temperature and flag possible victims of the virus by using the consequent reading.

The Telegraph reported that US firm FLIR, a specialist in thermal imaging technology, has registered a staggering 700% increase in demand for its infrared cameras. The

company claims that its cameras can “detect changes in skin temperature as slight as 0.01 degrees Celsius.”

Bytronic Automation launched a new automated system which uses “thermal cameras for accurate, non-contact skin temperature measurement, looking for anomalies that may indicate a fever and underlying infection”. Though Stewart Jackson, Technical Sales Manager at the company, does highlight that to get an accuracy of 0.3 degrees centigrade, users need to use a ‘black body’ – a “highly accurate temperature emitter that must be visible to the camera... you also need to see the area around the tear ducts”.

The business also explains that while useful in detecting elevated body temperatures, it wouldn’t specifically detect coronavirus – just symptoms, while this kind of technology wouldn’t be accurate when separating between groups of people.

Meanwhile, a Texas firm, Athena Security,

has launched a ‘fever detection system’ that, according to NBC News, received 1,000 orders in two weeks. The system connects directly to an existing security camera system for real-time results.

In the UK, surveillance firm Digital Barriers announced a ‘real-time remote’ fever scanning solution utilising the firm’s EdgeVis-Live technology. A combination of a thermal and HD optical camera, the scanner claims to be able to work in areas with “poor bandwidth and network connectivity” and, crucially, to function without the need for “close human contact”. Like many other devices of this type, the camera sounds an alarm when a certain temperature – deemed to be dangerous – is reached.

Among the many other companies and startups making devices is British smartphone firm Bullitt, which produces a phone with a thermal imaging camera. Product Marketing Director, Tim Shepherd,

said: “It is not pinpoint accuracy, but it can detect anomalies. You can set temperatures within a certain range and measure skin temperature.” Smartphone detectors further widen the catchment for thermal imaging products. Meanwhile, that market has no shortage of potential clients, including government agencies, schools, hospitals, clinics, police stations, warehouses, distributions centres and private businesses. It was recently reported that the technology is being used in Australian care homes – one of the most affected sectors from COVID-19. Essence Group has integrated its SmartCare monitoring technology with thermal cameras to detect virus symptoms to add a “critical element of safety in the care home environment”.

Rafi Zauer, Head of Marketing at Essence

Group, says: “One of the key lessons that we are learning from the coronavirus pandemic is a need to reduce the spread of the virus by attempting to eliminate the need for person to person physical contact when providing care and safety to patients in their homes and also in care facilities. Care homes have found it difficult to implement these practices. The technology that we are installing in Australia allows us to do this by decreasing the need for this physical contact, whilst simultaneously providing a robust means of monitoring residents for signs of symptoms.

It’s not just manufacturers in the security sphere, either, who are working on such devices. Telecoms provider, Vodafone UK, has also recently launched a Heat Detection Camera in the UK, powered by its

IoT connectivity. According to the business, each camera can check the temperature of “100 people per minute”, and, as is the standard for this technology, screens body temperatures accurate to within +/- 0.3 degrees Celsius.

However, the efficacy and wisdom of the thermal imaging solution comes with some significant caveats, particularly when it is considered that not everyone may develop a fever, or have mild symptoms that wouldn’t show any anomalies. And, as Bytronic explains above, it can be much more difficult to accurately detect anomalies in groups of people.

FLIR President, Frank Pennisi, is careful to emphasise – in line with World Health Organisation (WHO) experts – that while thermal imaging/infra-

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Dear Reader



After offices, manufacturing units, shopping malls, hotels and public buildings begin opening in a staggered manner during the various phases of 'unlocking', the impact of COVID-19 on the security industry will be seen and felt for years, if not decades from now. The effect of 26/11 is still visible even now, after almost 12 years have passed. The walk-through Door Frame Metal Detectors (DFMDs) have become a standard fixture of security system hardware at almost every entrance to these buildings, the Hand Held Metal Detector (HHMD) has almost become an extension of the hands of security guards as they stand for hours holding them at the entrances, waving them as magical wands in a bid to scan every person walking through the DFMDs for weapons. Law enforcement and security professionals know only too well, what purpose they serve.

Once we have a vaccine for the Covid-19 virus, it's unlikely that enthusiasm for screening based on skin temperature or mask presence will decline in the foreseeable future. Which means that the security guards posted at entrances are likely to be burdened with additional procedures to be followed, thereby adding to costs. These too are more likely to eventually become ceremonial in nature and the inconveniences and extra operating costs for users may continue for quite some time. Perhaps, keeping in view this commercial opportunity, security system players who have ventured into the medical equipment field, include names such as CP Plus.

Some changes will probably be permanent. At an individual level, COVID-19 has taught us not to touch common surfaces, which we would not have thought about in the past. This will drive the market away from physical credentials, keypads, fingerprint readers, and doors with handles towards virtual credentials, mobile devices and mechanized openings. We'll be wanting truly touchless access control.

Reducing building occupancy will move us away from badging offices and physical IDs toward virtual IDs and completely electronic ID management. Once we've virtualized badge production and management, it will be hard to imagine returning to the physical models of the past.

SECURITY UPDATE feels that security system integrators, who are primarily dependent for their business on office and commercial building projects, may not see growth, like in the past, for at least the next two or three years, as the work-from-home culture is likely to become more permanent and the need for commercial space will shrink. However, the 'Atma Nirbhar' thrust of the Government of India will open up opportunities in the manufacturing sector, as start-ups, boosted by support from the establishment, scramble to set-up small and medium scale manufacturing facilities, and large global corporations move their factories and relocate them in India.

In the words of Klaus Schwab, a renowned economist, "For all the opportunities that arise from the Fourth Industrial Revolution - and there are many - it does not come without risks. Perhaps one of the greatest is that the changes will exacerbate inequalities. And as we all know, a more unequal world is a less stable one". And instability invariably means insecurity, and insecurity means more opportunity for the private security industry!

Till we meet next month,

Cheers, Stay Safe and Keep Others Safe.

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SECURITY UPDATE is a focused educational publication on protection technology, products and solutions. It reaches the business community of manufacturers, distributors, dealers, installers, integrators and consultants of security, fire and safety systems. Printed monthly as a lightweight tabloid, it is easily carried and read on the move, reaching the remotest corner of India, even where the internet may not have reached!

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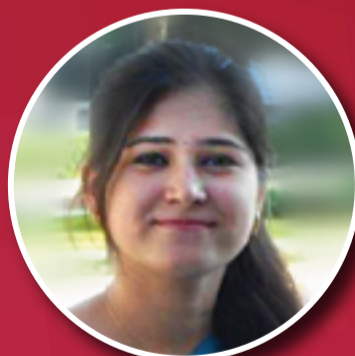
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## Can thermal cameras really detect...



red cameras could be helpful for screening, they are not sufficient for an actual diagnosis. For one thing, thermal imaging only measures skin temperature and not internal temperature. In addition, Covid-19 has a relatively long incubation period, and not all sufferers will experience

with health messages, a primary questionnaire and data collection and analysis, if the method was to be implemented.

Sudhindra Holla, Director, Axis Communications, India & SAARC, responding to a query from SECURITY UPDATE said that

the same sentiment, not having a temperature is not an indication that someone does not have the illness."

One of the behavioural and psychological considerations is that use of any 'fever detecting' cameras could instill a false sense of security, perhaps encouraging a move to return to normality before it is due.

Another issue is the 'hangover' for privacy concerns. Jay Stanley, a Senior Policy Analyst at the American Civil Liberties Union, told NBC: "We don't want to see the world after COVID-19 where we end up with measures that last beyond this crisis and companies feel they have the free hand to go around taking people's temperature all the time."

However, thermal imaging in a post-Covid outbreak world could have a role to play in battling a "second wave" suggest some. Sounding a pragmatic note, Jamie Allam highlights that thermal camera technology "that is efficient, visible and can operate in real time" may provide "a data point that could help screen for the virus for a call to be made, if required."

Axis Communication does not make any such claims that thermal cameras can detect possible infection from Covid 19. "For that it is advisable to contact the medical authorities" he said.

Jamie Allam, CEO of Amthal Fire & Security, UK-based specialists in advanced electronic fire and security solutions, reinforces the variables in play: "It's essential to identify that cameras will not scan directly for the virus," he says. "Indeed a slightly increased temperature does not necessarily mean that a person has COVID-19 and, by



a fever. Hikvision has also highlighted these points, and has recently produced a guide of what to consider when implementing thermal imaging solutions to detect temperatures.

Indeed, the WHO states on its guidance for detection when travelling: "Temperature screening alone may not be very effective as it may miss travellers incubating the disease or travellers concealing fever during travel, or it may yield false positive (fever of a different cause)." It adds that temperature screening should be combined

## Speedlane Compact space saving optical turnstile

Boon Edam is launching a new optical turnstile addition to their security entrance portfolio.

With the growing threat of crime and violence around the globe, more and more organisations are turning to security entrances to increase both the safety and security of their people and assets. The new Speedlane Compact provides all the funda-

mental functions needed in a security turnstile and accommodates the smaller spaces often found in older buildings.

The Speedlane Compact is easy-to-use, easy-to-install, and agile in the manufacturing process, enabling faster delivery times to a customer's location. When it comes to integration, the product designers have focused on ease and flexibility:

the cabinets are wide enough to allow for integration with many types of access technologies, including biometrics and facial recognition.

The Speedlane Compact uses advanced algorithms to detect tailgating and other forms of misuse. The sensors also detect objects – people carrying briefcases or dollies through the turnstile. They are recognised



as such and the product's behaviour adapts accordingly.

The Speedlane Compact is fashioned to fit

into small areas, making it ideal for high-value real estate properties. It does an effective job within a very small space – relieving security per-

sonnel and ensuring that only authorised people can enter the designated area. Its small footprint does not compromise in any way on design.

## Anviz unveils touchless iris and face recognition access control terminals

**ANVIZ**® Global



In 2020, with the continuous spread of the COVID-19 pandemic, millions of people have been infected around the globe. In these uncertain times, with the ever-increasing demand for touchless security devices, Anviz, a globally renowned biometric security solutions firm, offers the latest touchless solutions - iris and face recognition access control terminals.

The company's latest iris and face recognition access control terminals help reassure business owners, wrestling with the uncertainties of running their businesses, during this very challenging period. Anviz's Iris (S2000) and FacePass (FacePass 7 Series)

recognition terminals provide 100% touchless user authentication for a variety of applications, spanning access control, time & attendance, visitor management, etc.

These terminals help:

- Detect if a person requesting access has an acceptable face mask or glasses.
- The face recognition readers have body temperature detection that will instantly alert and deny access to anyone trying to enter with body temperature above the acceptable range.

Denying access to anyone with high body temperature prevents healthy individuals from being infected, especial-

ly in shipping facilities, airports, schools, commercial office buildings, pharmacies, grocery stores, and so on. Anviz's iris and face recognition terminals are a combination of a very powerful embedded dual core processor and the latest AI deep learning algorithm for high-level accuracy and quick matching-speed.

The capture time of the company's touchless access control devices is less than 1 second and the matching speed is less than 0.5 second and its body temperature detection is accurate to within +/- 0.3 degrees Fahrenheit when a person stands within 20 inches of its integrated thermal sensor.

## OPTEX QXI series of double-layered outdoor intrusion detection sensors

OPTEX 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 of 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 redefined 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 immunity 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 features 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.

## Dortronics offers both door control and hygiene



Dortronics Systems Inc. offers a comprehensive line of door control products that combine to provide laboratory and research facility management with comprehensive solutions to better protect clean rooms from harmful contagions. Products include touchless and waterproof switches, motion sensor door releases, and maglocks of all sizes and holding strengths, customised door interlock control, and programmable man-traps that isolate

environments to help prevent contamination.

For example, the 4800 Series Field Programmable Interlock Controller provides the ideal interlock solution for cleanrooms, including air locks, with two to five doors. This highly versatile controller accommodates traffic lights and door alarms, and provides timing sequences for propped door time, panic release unlock, time, and unlock pause time for Rex unlock delay. Optional AUX out-

puts are also available to control automatic doors with locks.

The 6612 Series Motion Sensing Door Releases employ passive IR motion detection technology to provide hands-free, unobstructed door release; the 5278 Series Touchless Switches are activated with the wave of one's hand; and the WR5276 Waterproof Switches can be washed down to maintain the highest levels of cleanliness with bi-colour LED status indication.

## Morse Watchmans touchless and antimicrobial coated key control

Morse Watchmans announced the introduction of new touchless facial recognition access and an antimicrobial powder coating on the

company's KeyWatcher and AssetWatcher systems. The new product enhancements fight the spread of microbes and bacteria to help combat

the COVID-19 pandemic and other potential threats to personnel health.

"Getting personnel back to work is the most



pressing issue organisations are faced with today," said Tim Purpura, VP Global Sales & Marketing, Morse Watchmans. "The addition of touchless facial recognition as a cabinet access option along with antimicrobial powder coating now standard on all of our KeyWatcher and AssetWatcher cabinets provides our customers with heightened protections."

Antimicrobial powder coating is now a standard feature on all new KeyWatcher and AssetWatcher cabinets at no added cost. Designed to resist the spread of microbes, the new coating retains its highly effective anti-microbial properties through regular cleanings, while providing the durability and scratch resistance that Morse Watchmans' customers have always appreciated.

A touchless facial recognition access option for KeyWatcher and AssetWatcher makes these systems even more secure while reducing the chance for cross-contamination and disease transmission. These new enhancements join existing features of Morse Watchmans products that help

safeguard health, including touchless proximity card access support and hospital-grade 304 stainless steel panel surfaces that resist corrosion and bacteria. "Integrating these new technologies into our product line is an important step we are taking to assure even greater cleanliness and health protection," said Purpura.

## Smiths Detection launches UVC light kits for baggage trays



Smiths Detection has launched its new ultraviolet (UVC) light kits that can kill around 99.9% of microorganisms on baggage trays at security checkpoints. The company stated airports will have to showcase increased hygiene standards as they aim to restart operations and encourage travellers after the Covid-19 pandemic.

One way to restore confidence in travelling is through the use of UVC technology, which provides longer-term protection against viruses or bacteria. The Smiths Detection UVC kits will

automatically disinfect the trays when they are returned to the divest station from the reclaim area. This is expected to aid in protecting staff and passengers from the transmission of contagious diseases via touch at the airport's security checkpoints.

UVC lights feature 'specially designed casing' along with other safety measures. The technology can be installed on current tray handling systems easily and quickly.

Food and health sectors, along with other industries that require high levels of hygiene, use the

technology to disinfect surfaces. Applying this technology at checkpoint security is expected to reduce the contamination risk and comfort passengers and staff regarding their safety.

Global Director Aviation Richard Thompson said: "UVC lights are a practical, straight-forward way that airports can help reduce the transmission of any bacteria or virus that might be on the surface of its trays now and in the long-term."

## AMETEK Land launches VIRALERT 3 human body temperature screening



Renowned temperature monitoring expert, AMETEK Land, has launched a new human body temperature screening system to help prevent the spread of infectious diseases like COVID-19. Developed over 10 years by AMETEK Land experts, the VIRALERT 3 provides real-time infrared thermal imaging from a safe social distance, scanning for elevated temperatures that could indicate infection.

The VIRALERT 3 is the first of its kind, providing a camera and a temperature-controlled

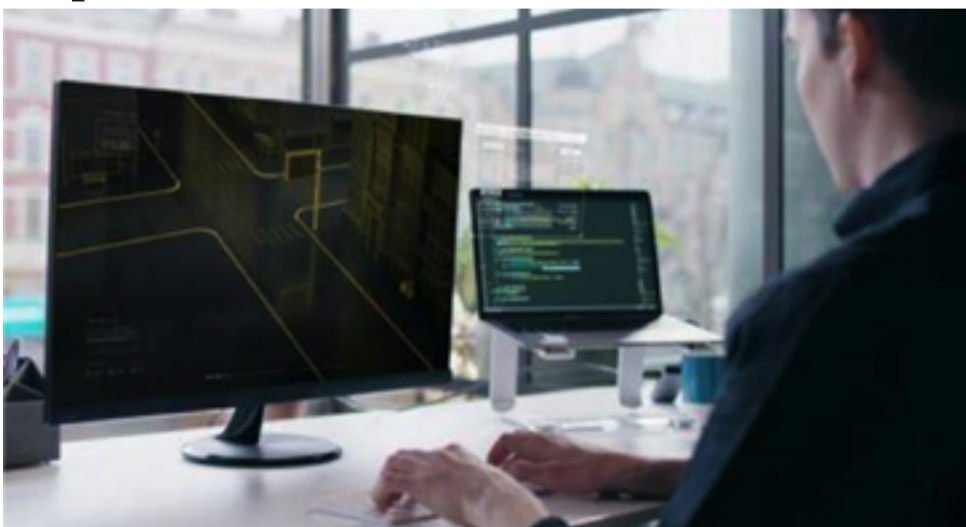
reference source on a single mounting. Using automatic face detection, it locates the best areas for temperature detection, taking a reading that's accurate to within 0.5°C, then calculating core body temperature through a rapid test procedure of approximately two seconds.

Designed to screen visitors at an entry point without slowing the flow of people, the VIRALERT 3 scans temperatures without any person-to-person contact, keeping both parties safe from disease transmission.

The VIRALERT 3 is easy to use, and can be left to operate automatically, with audible and visual alarms alerting when high temperatures are discovered. To ensure the highest levels of accuracy and reliability, it has a blackbody calibration source fitted on the same platform as the integrated thermal imager/visual camera. This makes for a compact system that won't get in the way of queuing people and can be easily wall-mounted.

The VIRALERT 3 builds on AMETEK Land's proven expertise in temperature technology. The company has been developing high-accuracy infrared measurement instruments since 1947, and has been creating human body temperature screening systems since responding to the SARS outbreak of 2003. Set-up is simple; with no complex software configuration required, the system can be up and running within 30 minutes of delivery.

## New line of Axis premium fixed box cameras



Axis Communications has unveiled new additions to the Axis Q16 network camera series. These top-of-the-line CS mount cameras have been designed to offer exceptional image quality in any light conditions. They feature an innovative dual chipset providing the perfect platform for tailor-made third-party analytics based on deep learning on the edge.

Featuring Axis Lightfinder 2.0 and Axis Forensic WDR, these cameras are built to deliver true colours and great detail

in challenging light or near darkness. The Axis Q1615-LE Mk III features Axis Optimized IR for clear footage in complete darkness without the need for extra lighting. The Axis Q1615 Mk III is designed for retrofitting the Axis T92E20 outdoor housing, making it easy to add deep-learning capabilities to existing installations.

These cameras offer cost-efficient installation thanks to remote zoom and remote focus capabilities and an exchangeable lens with support for

motorised i-CS lenses. Additionally, they feature advanced security functionality to prevent unauthorised access and safeguard the system.

The embedded deep learning processing unit allows analytics to run on the camera (on the edge), which results in a faster and more scalable system. Furthermore, storage and bandwidth needs, as well as privacy concerns, are reduced because only relevant video is transferred over the network.

## Hanwha Techwin unveils Wisenet PoE Extender cameras



The new Wisenet PoE extender cameras from Hanwha Techwin are designed to save integrators and end users time and money, when there is a requirement to install two cameras within 80 metres of each other. For retrofit applications where an additional camera is needed, system integrators need to simply substitute an existing Wisenet camera with a PoE Extender camera, and then reinstall it at the new camera location, with both devices being able to share the same cable run.

With the ability to support all PoE cameras within the entire Wisenet range, the new 2 and 5 megapixel PoE Extender indoor and outdoor dome cameras provide an equally cost effective solution for new installations as they reduce the number of network ports and switches, as well as the amount of cabling required.

Installation ease is matched by a considerable reduction in the cost of the time that system integrators would normally have to spend on site to install a new camera. System integrators also have the option

to connect other PoE enabled devices to the Wisenet PoE extender cameras, such as a supplementary lighting unit, I/O controller or PIR sensor.

The 4 new dome cameras all have built-in IR LEDs that illuminate objects up to 50 metres from the camera and feature Digital Image Stabilisation (DIS) which helps ensure the capture of sharp, stable images by reducing motion blur which is caused by wind or vibration.

All are equipped with Wide Dynamic Range (WDR) technology, with the 2 megapixel models performing at up to 150dB and the 5 megapixel models at up to 120dB, to produce clear images from scenes containing a challenging mix of bright and dark areas, which normally results in overexposed or underexposed images. Part of the Wisenet X Plus series, the PoE Extender cameras offer a number of other practical features that further minimises the time installers have to spend on site, including magnets which lock sensor modules into the dome housing.

A waterproof gland, through which a network cable can be inserted with the aid of an RJ45 plastic push-through device, negates the need to re-make a cable end. Prior to installation, technicians from the convenience of their workshop should be able to configure IP network settings without the need to remove a camera module from its packaging. The new cameras come supplied with a diverse range of licence-free specialist analytics such as directional detection, virtual line, enter/exit, appear/disappear and loitering detection.

In addition, an audio analysis function is able to recognise critical sounds, such as explosions, screams and broken glass, and then immediately generates an alert to enable emergency services to react quickly and effectively to any incident. In a retail environment, for example, this functionality could be used to alert security personnel that a customer is behaving aggressively to a sales colleague.

## AI NVR video analytics platform from IronYun

IronYun's latest version of AI NVR Video Analytics Platform, is complete with 15+ analytics functionalities, 3 deployment models (Edge, On-Premise, and Cloud), complete system control, versatile integration with all ONVIF IP-based cameras and 3rd-party systems, and a mobile app to perform searches and

receive alerts on-the-go. AI NVR 4.0.0 is better equipped than ever for the end-user's experience to plug-and-play in the existing infrastructures for enhanced accuracy and stable performance over time.

AI NVR 4.0.0 supports multiple analytics engines in a single platform, which the user

can select as suitable for their deployments in access control, forensic investigations, business intelligence, perimeter protection, etc.. The analytics engines include: video search (object and people detection), intrusion detection, license plate recognition (LPR/ANPR), face search, face recognition, people counting, vehicle count-



ing, abnormal-event detection (people falling/crouching, wrong direction, loitering, illegal parking), weapon detection, smoke & fire detection, tracking, and heat map.

Live view and real-time alerts are also available. All functions, AI object profiles, and camera settings are easy to configure in the user interface within minutes and can be accessed across multiple AI NVR appliances in the same network for scalability.

On-Premise AI NVR is the well-developed, battle-tested on-premise solution with hardware and software in one appliance, ready to use, requiring less than 30 minutes to connect to the existing security infrastructure of cameras and NVRs.

With AI NVR 4.0.0, IronYun releases two additional brand-new, state-of-the-art technology-driven product lines to assist AI deployment at all levels:

- AI Edge Analytics:

compact device to apply powerful analytics to any channel at the edge, suitable for branch locations, UAVs, drones, body-cams, and similar applications.

- AI Cloud Analytics: software-only, quick to deploy and easy to scale for any large infrastructures with ample existing hardware resources.

Designed to function as a stand-alone unit if necessary, AI NVR 4.0.0 provides the user with Camera Health Management, customizable user privileges for any cameras and analytics functions, and audit trail among many system control capabilities. As consistent with previous versions, AI NVR remains hardware agnostics - compatible with all ONVIF IP-based cameras and can integrate with any VMS and 3rd-party systems to enhance access control, trigger multi-layer alerts, and provide actionable information for business operations.

With the integration with 3rd-party VMS, the user can receive alerts on their familiar VMS platform while having AI NVR analyzing the video streams in the background with high accuracy, which helps to increase ease of use, avoid drastic changes to the existing infrastructure, and save time.

All analytics functionalities are accessible to the user in their secured network and on the AI NVR mobile app. With the mobile app, from anywhere within the network, the user can receive real-time alerts (e.g., for intrusion events, falling incidents, watchlist vehicles spotted at certain street intersections) or perform searches for luggage, missing children, etc. and receive results within seconds across all cameras that have been added to the system. Strenuous monitoring effort is no longer required, false alarms are eliminated, and the user can focus on running the operations with ease of mind.

## 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 multi-

ple 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.

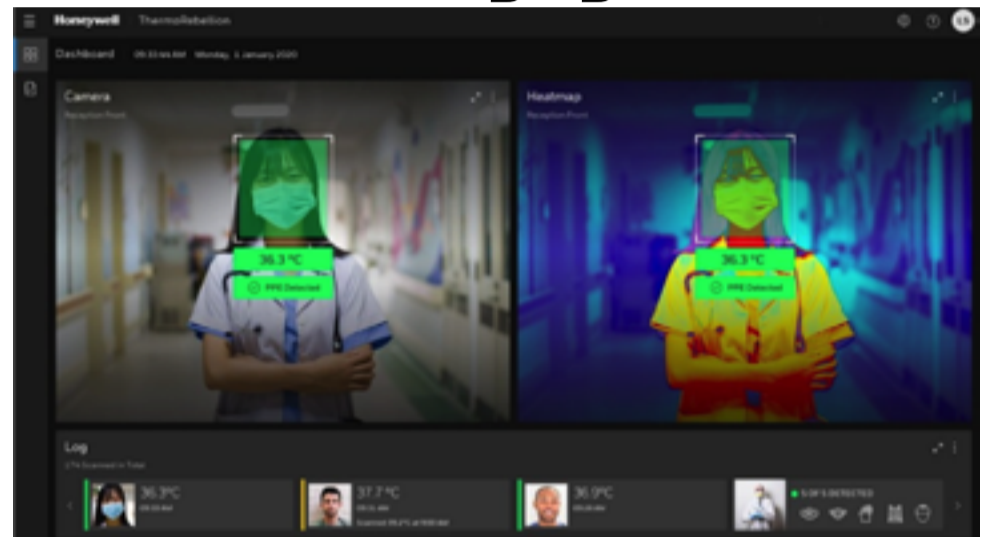
Additionally, patented record-after-the-fact technology, if enabled on the V300 by a system administrator, can be used to recover the video from an incident

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 pur-

chase 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.

## Honeywell's ThermoRebellion Thermal Imaging Solution



Honeywell has announced a new temperature monitoring solution that incorporates advanced, infrared imaging technology and artificial intelligence algorithms to conduct non-invasive, preliminary screening of personnel entering a facility. Honeywell's ThermoRebellion system uses thermal cameras and AI to detect elevated body temperature and can validate if an individual is wearing proper PPE.

The Honeywell ThermoRebellion temperature monitoring solution can be rapidly deployed at the entryway to quickly and efficiently identify whether personnel exhibit an elevated facial temperature. As individuals pass in front of a high-resolution, thermal imaging camera, their skin temperature is automatically detected within two seconds and displayed on an accompanying monitor.

This can alert a person with an elevated temperature to seek additional screening. In addition, operators gain reliable, real-time information about personnel entering their facilities enabling them to take measures to keep their premises safe and secure.

The Honeywell ThermoRebellion system can also identify if individ-

uals are wearing the required personal protective equipment needed for entering the building.

"Protecting worker safety is the top priority for any building operator and today. More than ever, managers are looking for innovative solutions to enhance their health screening processes," said Renaud Mazarguil, president of Honeywell's Gas Analysis and Safety business. "We've developed this breakthrough technology to automate and streamline the monitoring of an individual's temperature and reduce the need for invasive monitoring. Honeywell is committed to developing new solutions to help workers, families and communities stay safe."

Honeywell is piloting its new temperature monitoring solution at two of its U.S. production facilities, including the company's new N95 face mask manufacturing center in Phoenix. The Honeywell ThermoRebellion solution incorporates software powered by AI allowing for each individual pixel captured by the camera to be rapidly assessed for elevated temperature. The solution is easy to install and commission, and it is simple to operate with minimal training using an intuitive graphical

user interface. The system also automatically logs data to simplify and standardize record-keeping for compliance, reducing the need for potentially error-prone manual tracking processes.

The system integrates seamlessly with the Honeywell Forge platform and Honeywell's Healthy Building Solutions that provide a holistic view of a building's health based on key factors such as air quality, social distancing, occupant flow, sanitation, wellness density and governance adherence.

The new temperature screening solution incorporates intelligent, visual monitoring technology from Rebellion Photonics, which Honeywell acquired in December 2019. Rebellion offers the oil & gas and petrochemical industries' real-time monitoring platform that visually identifies and quantifies gas releases to quickly detect and analyze leaks keeping workers safe. The business features a sophisticated AI software platform to provide operators with automated notifications for gas leaks, security issues, and fires.

## Latest FLIR firmware release includes elevated temperature mode



The latest firmware release for T- and Exx-Series cameras from FLIR brings exciting new features for elevated skin temperature screening. FLIR Screen EST Skin Temperature Screening Mode is a simplified measurement tool that can be activated in the T- and Exx-Series cameras to detect high skin temperatures, which may indicate the presence of a fever.

The firmware update introduces a new on-screen interface, including the addition of a silhouette for subject alignment. Once screening mode is enabled on the camera, it will guide operators to add 10 sample readings to establish a baseline for screening as well as remind users when new reference samples are needed after a period of time or if conditions change. The camera will provide an alarm

when an object or person is detected to have an elevated temperature compared against the sampled average temperature value.

This update also brings a few new default settings including, the alarm temperature being set to 1°C or 1.8°F; emissivity to 0.98; and, automatic switch to black & white “Instalert” colour palette for easier alarm identification.

**Extreme Temperatures:** With operating temperatures from -22°F to +185°F, these units can be deployed just about anywhere.

**Rugged Design:** Built with industri-

al-grade components, to industrial-grade standards, these monitors will withstand demanding/harsh environments. Our exclusive TRU-Tuff treatment maximizes shock/vibration resistance.

The new SRMHET-RWP-15C is being deployed in a wide range of industries and applications such as military, industrial control systems, ships, tactical vehicles, pipeline inspection systems, and more.

## Hanwha Techwin adds to the popular Wisenet Q series



Hanwha Techwin has further strengthened its Wisenet Q series with the introduction of 2 and 5 megapixel box cameras. The 2 megapixel Wisenet QNB-6002 supersedes the highly popular Wisenet QNB-6000, whilst the 5 megapixel Wisenet QNB-8002 is a new addition to the camera series.

The two H.265 cameras are equipped with an Open Platform chipset which provides the opportunity for end-users to benefit from selected edge-based specialist applications developed by Hanwha Techwin's technology partners. The cameras also feature a suite of Intelligent Video Analytics (IVA), which includes tampering, directional detection, defocus detection, virtual line, enter/exit and mo-

tion detection.

Other key features of the new box cameras include the following:

**Wide Dynamic Range (WDR),** which performs at up to 120dB to produce clear images from scenes containing a challenging mix of bright and dark areas. **Smart Video Compression:** A choice of H.265, H.264 or MJPEG compression, with the cameras' bandwidth friendly credentials enhanced by WiseStream II, a complementary compression technology which dynamically controls encoding, balancing quality and compression, according to movement in the image.

**Bandwidth efficiency** is improved by up to 99% compared to current H.264 technology when WiseStream II is

combined with H.265 compression. As such, WiseStream II reduces the total cost of ownership of a video surveillance system by minimising the storage and bandwidth requirements of high definition cameras.

An SD/SDHC/SDXC memory slot which allows up to 128GB of video or data to be stored at the edge should there be disruption to the network. Video evidence, which might have been potentially lost, can therefore be retrieved when the network connection has been restored. Power over Ethernet (PoE) support: This saves time and reduces installation costs, as it negates the need to run separate cabling and install a power supply at each camera location.

## TRU-Vu outdoor touch screen monitors



TRU-Vu Monitors, a leading supplier of industrial grade monitors and touch screens, has introduced a rugged new outdoor touch screen monitor which will operate in nearly any environment.

The new SRMHET-RWP-15C is the latest addition to a very successful line of outdoor touch screen monitors. This new model features numerous advantages over others on the mar-

ket:

**Features:**

**High Brightness:** With over 1,500 nits brightness, this model is 5X to 6X brighter than an average LCD monitor or TV. This enables users to see clear, sharp video images even with bright sunlight on the face of the screen.

**Resistive Touch Screen:** The most common, and most reliable, of all touch technologies

for use outdoors. It will not trigger a false trigger due to rain or snow. It can be activated with exposed fingers or with any type of gloves.

**Waterproof Panel Mount Enclosure:** Panel-mount design enables users to flush-mount this into doors, cabinets, walls, dashboards or kiosks. The NEMA 4X waterproof front face ensures it will stand up to the elements, or industrial wash-downs

## Swann releases 4K Enforcer & Tracker security cameras

Swann 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, 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.

**Features:**

- Compact, non-me-

chanical 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.

truders.

- 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 - Available 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.

multiple types of targets at once). Accordingly, users can simply enable an algorithm manually for dedicated use, then later switch the algorithm as needed.

For example the hard hat detection algorithm can be used on construction sites to ensure safety and compliance. Specially-equipped Deepinview cameras can precisely distinguish a worker on the site wearing a hard hat from those without, and automatically deliver alerts when the hard hat violation is detected.

In a retail setting, a face-counting function can be enabled to precisely count customers entering and leaving the store. Repeat customers and store staff can be automatically excluded in the process, helping

store managers count new customers with precision.

Flexibility among algorithms enables users to also switch among: (a) Perimeter protection - to monitor outdoor areas needing security and deliver accurate alarms upon intrusions, (b) Facial recognition - to grant authorised access to restricted areas in various organisations, such as school laboratories, archive rooms, and hospital pharmacies, (c) Queue management - to better understand customer wait times, optimise staff levels, and enhance customer experience.

Equipped with Hikvision's Darkfighter and Lightfighter technologies, these cameras capture vivid colour im-

ages in extremely low-light environments or in scenes with strong backlighting where colour and brightness balance is extremely difficult. Smooth Streaming mode further ensures a high-quality live feed. The Dedicated Deepinview Cameras are available in 2, 4, 8, and 12 MP resolutions.

Furthermore, metadata is supported to allow third-party platforms to receive data from Hikvision cameras for real-time video analysis or recorded into footage archives to enable rapid searching forensic evidence. Finally, these camera models also offer vibration detection for outdoor use, which detects and notifies users of vandalism, for example.

## New Hikvision AI cameras with switchable algorithms



Hikvision has introduced a brand-new addition to its Deepinview camera line: the Dedicated Subseries. Cameras in this Dedicated Subseries come equipped with multiple dedicated algorithms that can be selected and engaged discretely based on the needs of the installation, then switched as the security needs change, essentially putting 5 or 6 unique cameras in one housing.

This latest release from Hikvision incorporates a batch of AI-powered deep learning algorithms into each unit, and boasts stunning per-

formance and cost-effective pricing.

Over the last few years, artificial intelligence (AI) has been applied in many ways in security markets. As technology advances, AI chipset performance has improved to enable massive computing power using various algorithms and contributing to multi-intelligence functionality and higher accuracy.

The Dedicated Deepinview cameras combine two product categories - the first is vehicle analysis where cameras combine automatic num-

ber plate recognition (ANPR) with vehicle attribute recognition. Attributes include the vehicle's make, colour, and direction of movement. Typical uses include installation at checkpoints of city streets and at entrances & exits of buildings or industrial parks.

Models in the second category include six switchable deep learning algorithms in one camera housing, including facial recognition, face counting, hard hat detection, perimeter protection, queue management, and multiple-target-type detection (detecting multiple targets and mul-

## Suprema unveils thermal camera that integrates with FaceStation 2



Suprema has announced the launch of Suprema Thermal Camera that can be used in combination with FaceStation 2, the company's face recognition device, to detect users with elevated skin temperature. Suprema Thermal Camera is expected to enhance security and safety at sites by combining face recognition and skin temperature measurement.

Suprema has increased the accuracy and consistency of temperature measurement by using the face recognition algorithm of the FaceStation 2 to pinpoint the upper area of a person's face. FaceStation 2 displays the skin temperature and thermal image

of a subject's face on its intuitive GUI, giving audio and visual alerts when higher than threshold temperature is detected.

Suprema Thermal Camera and FaceStation 2 can be configured differently for varying needs. It can be set to deny entrance of users with elevated skin temperature while the 'bypass mode' will disable the face recognition feature and only admit users based on skin temperature. The system can also be arranged to trigger alarm and notifications to an administrator when the measured temperature is higher than a preset threshold.

Using advanced ther-

mographic technology, Suprema Thermal Camera quickly and precisely measures temperature with 19,200 pixels per frame. With an accuracy of 0.50C, Suprema Thermal Camera does not require blackbody reference for temperature measurement, improving ease of use.

Temperature data, which can be displayed in both Celsius and Fahrenheit, can also be saved as event logs. Suprema's Thermal Camera can be conveniently connected to FaceStation 2 via USB cable, enabling easy deployment on new and retrofit installs.

## Amthal upgrades door entry system to video security system



Amthal has worked closely with the management team and residents at Kenilworth Court to ensure fire and security upgrades on site occur without compromising on aesthetics of the Edwardian mansion blocks.

Situated in Putney, Kenilworth Court consists of eight purpose-built Edwardian style blocks of flats, completed in 1904 – 1905. Featuring 150 portered flats, with a garden in the middle, it is now run by the controlling company, Kenilworth Court Co-ownership Housing Association Ltd. The opportunity to upgrade door entry from audio to video capability saw the initial introduction of Amthal to the development.

So successful in understanding the importance of keeping with original design features,

working closely with the management team and residents, from initial specification through installation and project completion, Amthal now additionally maintains security gates and all fire requirements on site.

Based on resident feedback, Amthal created and installed a bespoke CAME BPT brass entrance panel for Kenilworth Court, allowing all homeowners to benefit from stylish video door entry technology. Residents and staff also benefit from an upgraded Paxton Net2 access control system, with dedicated fobs distributed to ensure safe and secure block entry.

Phil Bryant, Amthal Strategic Accounts Team Manager said, “The key to our success with Kenilworth Court was taking the time initially to create an installation

works programme with video door entry systems that could blend in visually without disrupting the architectural aesthetic of the development.” Phil adds, “We spoke with the management team and residents throughout the design process, bringing door entry styles and samples to ensure everyone was confident in the installed final solution.”

He further said, “From this, our engineering team and customer service has built up a trusting relationship where residents understand our needs to operate internally, sometimes within apartments themselves and also through communal areas. And the management team has peace of mind that fire and security requirements will be maintained to exceed standards across the development.”

## Dahua body temperature monitoring solution helps Russian company strengthen protection

In St. Petersburg, a set of Dahua body temperature monitoring system was installed at the entrance of JSC «Concern Okeanpribor» to help the company with preliminary body temperature screening of employees and visitors during the pandemic. The equipment can quickly and accurately detect people with elevated body temperatures, one of the key symptoms of COVID-19, providing the organization with an additional layer of protection for its employees.

JSC «Concern Okeanpribor» is a company engaged in the production of sonar systems and ship-building stations to meet

the needs of the country’s naval force and national economy. It is also listed as one of the “backbone enterprises” of the Russian Federation. To provide its employees with safe working conditions under COVID-19, JSC «Concern Okeanpribor» hopes to use the Dahua thermal body temperature monitoring system to assist their daily temperature screening work and minimize the chances of infection with the strictest measures possible, while not ignoring privacy and respect.

The Dahua Body Temperature Monitoring Solution was installed at the checkpoint of JSC

«Concern Okeanpribor», consisting of:

- Thermal body temperature monitoring camera DH-TPC-BF5421P-T
- Calibration equipment (blackbody)
- DSS software
- Accessories (2 tripods, 2 adapters for a tripod)

The implementation of this solution was completed by Skyros Corporation, a gold partner of Dahua Technology in the Northwest Federal District, together with a well-known Russian software developer for security systems – VideoNet. The

Dahua body temperature monitoring system is a part of the VideoNet security systems at the facility.

It provides a non-invasive way to help organizations check body temperatures of a group of people at the same time, which is faster than handheld scanners and can be done at a safer distance. That’s why this solution is accepted and adopted by JSC «Concern Okeanpribor» and other security experts during the pandemic and recovery.

Moreover, the most important factor why it was chosen is its accuracy. With a blackbody, the solution uses a hybrid thermal imaging camera to achieve highly accurate temperature monitoring of  $\pm 0.30^{\circ}\text{C}$ , which is essential in detecting people

with abnormal temperatures. At the same time, the camera’s built-in face detection enabled by advanced AI technology can improve the overall measurement accuracy with better positioning of the measuring point on the face. This approach significantly reduces false alarms caused by a variety of hot objects that may accidentally or intentionally appear in the monitored zone. It can also detect the temperature of people wearing medical masks.

This solution also includes a special version of Dahua DSS software, which can handle temperature alarms. If the set temperature threshold is exceeded, this could be an indication that the system has detected a person with fever and should be checked by a medical pro-

fessional. In this case, the camera will send an alarm message to this software, allowing the operator to take appropriate measures.

Featuring long distance, non-contact and fast detection speed, the Dahua Thermal Body Temperature Monitoring Solution allows JSC «Concern Okeanpribor» to conduct preliminary detection of people entering their building who are exhibiting fever, thus effectively limiting cross-infection caused by physical contact, saving manpower and material resources, enabling efficient passage of people at the entrance, as well as enhancing protection for the operation of the whole company.



## Sporting speed challenges solved with Hikvision panoramic AI cameras

Sometimes the pace of life speeds up and it’s tricky to keep up. This is especially the case with intense sports, like ice hockey. In fact, NHL players can reach speeds in excess of 20 miles (32 km) per hour on the ice.

In scenarios like this, it can be challenging to broadcast all games across a number of stadiums, especially when they were often relying on amateur ‘producers’ to cover many of the games. It was this challenge that faced media streaming company Livearena, and they turned to Hikvision and studio automated (innovated with Dutch research institute TNO) for an AI-enabled solution to automate the production process.

Livearena is a global company, based in Sweden, which man-

ages and delivers more than 30,000 live events around the world each year. They are constantly looking for ways to improve the access of their services, and to make the user experience more engaging.

Traditional coverage of an ice hockey game was typically restricted to the high level games only – that meant the ‘premier league’ teams. Broadcast media could only afford to hire camera-men for those games. So, fans of the sports who follow other teams were not able to see their favourite teams in action through streaming media. Livearena needed to find other ways of recording the games often relying on family members of players. To do this, the solution would need to be one where they were in full control of the pro-

duction at all the arenas.

Livearena also wanted to be able to improve the scheduling, production and graphics overlays. Another issue was posed by the sheer speed of ice hockey. These meant that a traditional camera solution could not give clear enough images. In fact, they could sometimes give a false ‘shadow’ of a player, due to the fast moving action.

First, Studio Automated developed an algorithm to track the game of ice hockey. Hikvision customised the firmware for its 32MP Panovu IP camera (2CD6984G0) to maximize its integration with this algorithm, so that it could keep up with the game’s speed. This was made possible because of the 25 fps frame-rate and the 4K



sensors of the Panovu camera.

This upgrade involved the use of AI predictions to help the camera figure out the likely position of the action and the players. The information is combined with tracking to give a more accurate footage of the game. It is then streamed to users on their mobile apps, or any other connected device with a browser and the ability to play back live H.264 content, so they can enjoy the game live wherever they are.

The camera provides a high resolution 180° spliced image, with a full panoramic view. It's also robust enough to cope with the elements outside on the field, with a built-in heater protecting it against temperatures up to -40°C. It's also IP67 water resistant and vandal proof to

IK10. Armed with these technologies, Livearena can open up the game to fans, wherever they are and whoever they support. They can broadcast every game from arenas with the fully automated support.

The solution has also delivered additional features like the Manual Situation Room (MSR). Since the Hikvision camera captures the whole field Livearena can do analyses of specific incidents after a game. For example, referee boards can review any instances of a game that might result in additional penalties, like a severe rule breaking that could result in the player being stopped from participating in future games. This analysis of a game can also help coaches to train players.

Pontus Eklöf,  
LiveArena COO, says:

“We are thrilled about what this solution has done to our live game video production. Not only do we broadcast more games. We also have a better video quality for the viewers in combination with a whole lot of new features. All of this benefits the viewers, the ice hockey federations and the individual clubs.”

This project covered 130 ice hockey stadiums throughout the Nordic region, and there are plans to implement the solution in another 300 this year. Livearena is also looking at using multiple cameras to further enhance the viewer experience both for on-line game viewers as well as video coaches and other ice hockey professionals. So, it seems the solution is keeping up with this high-speed game in more ways than one.

installer of the barrier and ACP system because of our 20-plus years as a Delta installer and service provider and our extensive history of electronic integration at such facilities as the US Army, US Navy, FBI field offices and multiple NASA locations.”

With only a 24 in (61 cm) foundation and a fully electric control unit, the HD300EM barrier stops a 15,000 lb (6800 kg) truck impacting at 50 mph (80 km/h) dead in its tracks with zero penetration. Upon impact, the barrier remains in its foundation and the opening stays blocked, providing a multiple hit capability. The barrier is independent test lab certified to 1 million cycles.

According to Delta, in its M50 crash test, the

HD300EM completely disabled the test vehicle, causing severe damage to the occupant compartment and power train. The maximum penetration recorded was an outstanding -1.8 m. A solid road plate design permits multiple hits and will handle low speed bumps and corner strikes for day to day reliability. The design is ideal for heavy vehicle traffic as it is rated at 66,000 lbs per axle load.

The HD300EM obviates the concerns of interference with buried pipes, power lines and fibre optic communication lines. The shallow foundation also reduces installation complexity, time, materials and corresponding costs. The HD300 is perfect for high water table locations and areas with corrosive soils. It provides low maintenance

as all components are accessible from the sides or top of the barrier.

For increased security, the HD300EM leverages Delta's proprietary counter-balanced technology to provide a 1.5 second emergency fast operation (EFO), responding to attacks very quickly. The electric actuator provides IP67 protection, meaning that the unit is totally protected against dust and the effect of immersion between 15 cm and 1 m. The HD300EM barricade provides foundation space in which maintenance personnel can easily work. There is space for heaters and sump pumps. Access is available from either the top plate or front.

## Newman University strengthens video infrastructure using Idis system



A British university has overhauled its dated suite of security cameras to prepare for expansion and better protect its students and staff.

Newman University in Birmingham called in systems specialist Unison Integrated Technology after a major power-surge disabled more than 30 cameras in its ageing system. The university wanted comprehensive video coverage that was more robust and easier to use as part of its development plan for a safe learning environment for almost 3,000 students and staff. Facilities manager Lewis Palin said: “We contract out our security services, so it's important for newly arrived officers to be able to use all of the system's key features with minimal training.”

Unison proposed an Idis end-to-end solution that had already performed excellently

at a number of nearby schools, colleges and commercial sites. Total cost of ownership was also a factor as Newman needed more than 150 new internal and external cameras, so Palin wanted to integrate its existing cameras and infrastructure with the new kit. It also meant minimal maintenance charges, no licence fees and the option to adapt or scale the system as the campus grew or requirements changed.

The Unison team delivered an Idis Direct IP solution with more than 160 cameras, including five advanced 2MP Lightmaster IR PTZ models delivering 36x zoom and pin-sharp images in all lighting thanks to their 350 metre IR, true wide dynamic range and digital image stabilisation.

Unison also installed 55 full-HD IR vandal-resistant dome cameras to

secure entrances and internal areas, and 40 IR bullet cameras to give HD coverage of key external areas.

All the new cameras incorporate IDIS Smart Failover technology, which ensures automatic protection against video data loss, eliminating the risk of gaps in recordings in the event of power failure or network instability.

Unrivalled storage capability is assured by four powerful 64-channel network video recorders with built-in failover and RAID 1, 5 and 10 support, plus a further three 32-channel recorders with IDIS Intelligent Codec to deliver storage efficiency. Security officers can now easily monitor live internal and external areas, and quickly search and retrieve recorded footage to find events of interest.

## Bradley Air National Guard secures perimeter access with Delta



Bradley Air National Guard Base in East Granby, Ct., has installed a Delta Scientific HD300EM shallow mount wedge barricade system at the home of the “Flying Yankees,” the 103rd Airlift Wing, the third-oldest Air National Guard unit in the country. Installed by Ameri-

can Barrier and Controls LLC, Foxboro, Ma., the “Stop Control Safety” ACP (Access Control Point) provides security at this constrained location with a relatively low traffic volume of less than 800 vehicles per hour per lane.

“Security forces and

the engineering firm at Bradley chose the Delta Scientific HD300EM because of Delta's proven leadership and quality in the vehicle barrier industry,” explains Dave Abromson, vice president of American Barrier and Controls. “They chose American Barrier and Controls LLC as the



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# The role of video analytics as businesses reopen after lockdown



Much thought is now being given as to how businesses will be able to safely reopen after the coronavirus lockdown rules are gradually being modified and even relaxed. Inevitably, social distancing rules will have to remain in place and this still means that only a specified number of people will be allowed to be in a controlled area at any one time. Uri Guterman, Head of Product and Marketing at Hanwha Techwin Europe looks at how intelligent analytics and video surveillance can assist when addressing these vital issues.

There are so many environments where complying with this limitation will be a challenge. Pubs and clubs, for example, will be desperate to reopen at the earliest opportunity, but in order to do so, they might have to employ additional door staff just to count the number of people who enter and leave. For companies already struggling to survive, the cost of hiring these extra members of staff could be prohibitive.

Fortunately, there is a simple solution readily available which can be quickly deployed and will prove to be far more cost-effective and accurate than employing someone to do the same job. It comes in the form of video surveillance cameras which are preloaded with people counting video analytics. The analytics are able to provide real-time information on the net number of people on the premises at

any particular time, as it is able to simultaneously count both people entering and leaving premises. The data can be displayed in an easy to understand format on smartphones, laptops and PCs to provide managers with an early warning that permitted numbers are close to the permitted limit.

## Maintaining social distancing

System integrators will no doubt be able to identify many other social environments where people counting video analytics will help ensure that social distancing rules are implemented and verified. We do not yet know how these rules will evolve when the immediate crisis is over, but shopping centres, art galleries and museums are just a few more examples of where the solution can be effectively deployed.

Although developed to help retailers gain a greater understanding of customer behaviour – as is the case with the people counting functionality available in Retail Insight – video analytics capable of identifying occupancy levels provide a powerful tool to identify if too many people are congregating in specific areas.

As an example, AI-Crowd video analytics, developed by Hanwha Techwin's technology partner, A.I Tech, is able to provide an estimation of the number of people present in crowded areas where they might be expected to move slowly or stop, whilst AI-Overcrowd will generate an alert if the occupancy of an area exceeds a specified threshold.

As with people counting analytics, this solution can be quickly deployed and used 'out-of-the-box' as it can also run onboard cameras, which have open platform chipsets with sufficient processing power to do so. Many cameras will support two-way audio and as such, will enable operators to communicate with visitors that they need to move out of the area.

## Intelligent video analytics

In addition to these specialist video analytics applications, a large number of IP network cameras from manufacturers such as Hanwha Techwin, include as standard various forms of license-free analytics. The latest generation of Wisenet cameras, for example, are equipped with a suite of intelligent video analytics (IVA), which includes enter/exit direction, tripwire and face detection. Combinations of these various forms of video analytics can be configured to form a cost-effective digital barrier.

A new range of Wisenet cameras equipped with deep learning based video analytics will shortly be launched. These will ensure operators are not frustrated by 'false positive' alerts as they will be able to simultaneously detect and classify various object types, including people, vehicles, faces and license plates. Most importantly, they are able to ignore video noise, waving trees, moving clouds and animals, all of which might normally be the cause of false alarms. The AI algorithms built into these

new cameras will also provide greater people counting accuracy.

## Innovative solutions for the future

Within the not too distant future, Uri Guterman says that we will see the introduc-

tion of AI applications developed by Hanwha Techwin and its technology partners which will enhance video surveillance systems to a level which at this time might not seem possible. He also confirmed that many of these in-

novations on the horizon will potentially give greater assistance to businesses as they seek to operate in a world where social distancing will remain a very important issue for some time.

# Back to business with lower risk thanks to temperature screening



As businesses in many countries around the world reopen and resume operations, people are getting back to work and back to their daily routines. And with today's technologies being applied in practical ways that help in the real world, keeping people safe, healthy, and protected is becoming easier than ever. Using a non-contact temperature-screening solution is one current measure being used to quickly spot individuals with elevated skin temperature (EST). This detection method is designed to help initial screening of EST, and combines with the use of medical equipment to further verify symptoms. This method also reduces manual testing time and safety risks to those involved in the detection process.

Temperature screening cameras have now been widely adopted by organizations and businesses across the globe. Some of the most typical use-cases are found in air-

ports, hospitals, offices, and manufacturing and logistics facilities, which have seen tremendous benefits using thermal technology.

Hikvision's Temperature Screening Solutions, made up of various products and a wide range of applications, are designed for the detection of skin-surface temperatures to achieve rapid and safe initial screening in public areas. Their flexibility means they can be used in a multitude of scenarios.

Hikvision's thermographic cameras are used by customers from multiple industries around the world, such as at ports of entry and high-traffic locations, including Charles De Gaulle airport in France, Ikazia Hospital in the Netherlands, Toyota Industrial Park in Canada, Vancouver liquor store in Canada, and so many more.

Temperature screening will remain important for reopening and resuming businesses of all types. In some countries health

authorities and regulators are taking a very cautious approach to deployment of temperature screening cameras, and it is advisable referring to the current local guidance before any deployment of this solution. In the U.S., the latest specific guidelines released by the Centers for Disease Control and Prevention (CDC), temperature checks are encouraged at entrances for employees returning to work. It's all part of the increasingly common measures employers are now putting in place to guard against a second wave of the pandemic.

More than that, Hikvision's temperature screening cameras integrate into security and access control systems in convenient ways that really work, with functionalities that include social distancing measures, crowd and traffic controls, mask detection, access control & employee attendance tracking, temperature screening, and more.

# Five ways 'converged' security benefits your business and your customers

The majority of security systems used to be stand-alone – which means that they were built to work in an independent and self-con-

tained way. This allowed them to perform specific functions, like recording CCTV footage, or securing a perimeter with intrusion alarms, yet

complex system integrations have been the only way to bring these disparate solutions together to increase security as a whole.





The answer to this challenge is technological ‘convergence’, which essentially refers to the deliberate combination of several disparate or complementary technologies into a single product or solution. For example, convergence allows previously siloed functions, such as intercom and video surveillance systems, to create a unified view of an intrusion or other security breach. The result is a solution that improves situational awareness and, therefore, the safety of organizations, their people and assets.

Here, we overview 5 key ways that converged security can benefit your business and your customers:

#### **Enhance your customers’ user experiences:**

The first major benefit of convergence is an improved end-user experience, especially in terms of managing all the elements of your security solution more easily and efficiently. In this context, convergence works by providing a single platform and interface for managing disparate security infrastructure and devices, including video cameras, access control systems, intercom, and alarm systems. In this way, you can eliminate the need for your customers to access and manage multiple devices using different logins or apps, saving them time, reducing complexity, and reducing risks associated with managing and using multiple passwords.

#### **Increase your installation efficiency for major cost savings:**

With security systems that incorporate different systems and platforms, installation complexity is often dramatically increased, with multiple protocols to manage, and even different cabling systems for different devices. Convergence helps hugely

by providing a single platform and unified interface, allowing you to add devices quickly and easily in batches, and quickly configure device parameters.

All of this means you can reduce the time and effort associated with project management and installation, and deliver even better customer experiences. You can also save on the cost of deploying, maintaining, and rebuilding disparate systems for your customers. Finally, you can reduce software licensing costs, helping you increase your margins and deliver the best value for your customers.

#### **Boost your customers’ security capabilities**

With security solutions made up of diverse devices and platforms, it can be more difficult to achieve an instant view of a security breach and to respond quickly enough. An example would be an alarm sounding, but with no way to understand where the breach is taking place, and which camera it is being captured on. This challenge is addressed with converged systems, which can automatically link alerts and alarms to the output of a particular camera that is capturing the security breach. With converged systems, access control can be activated to close specified doors, and video clips streamed to customers via an integrated mobile app.

In this way, a converged solution delivers greater performance and value for your customers than traditional systems made up of disparate elements. As an additional benefit, integration of devices allows each customer to set parameters for alarms, such as the types of events that trigger them.

#### **Scale easily to meet your customers’ growing needs**

With converged security solutions, all security devices – from cameras to intercom – run on a single underlying infrastructure and software stack. With this common infrastructure in place, your customers can expand the system with new devices quickly and easily, with no need for additional hardware or software anywhere in the environment, and no need to re-invent the underlying infrastructure.

#### **Generate new upsell revenues for your business**

Many small and medium businesses would benefit hugely by adding more sophisticated security capabilities – such as access control – to their existing intrusion alarm and video solutions. However, many are deterred by the perceived complexity and cost of rolling out and integrating new types of security devices into their environments. Convergence helps overcome this demand. You can not only help your customers innovate to improve overall security and management efficiency, this is also an excellent opportunity for you to upsell new security solutions such as access control, intercoms, and smart doorbells to your customers.

With convergent systems currently focusing on bringing different security capabilities together, integrating with Internet-of-Things (IoT) solutions is the next step. This will support alarms and alerts for all kinds of incidents, from intrusions and fire risks, right down to a light bulb or HVAC system failure. Hikvision is pioneering this vision for converged security with the forthcoming convergent security service solution. This brings together disparate security devices on the same, common, cost-effective, easy-to-manage platform and infrastructure.

# Employee training is key in preventing breaches, but is it enough?

Cybersecurity experts have long touted properly trained employees as an organization’s first line of defense amid the rapid proliferation of cybercrime. Cybercriminals, meanwhile, reveal through their tactics that they still consider untrained employees an organization’s Achilles heel.

Almost every successful cyberattack reported in the media exploits the human factor. Fortunately, IT decision makers are increasingly aware of this. The most conscientious security chiefs are placing greater emphasis on staff training to secure their organization’s perimeter.

However, is it truly possible to train every single employee—including those working from home and organizations’ third-party partners—to spot a cyber threat? Or to keep good cybersecurity hygiene when handling sensitive data? Or to refrain from stealing intellectual property when they’re disgruntled and about to resign? While training is a key element to preventing breaches and protecting important corporate data, training alone is not enough.

Businesses handling sensitive data – whether their own intellectual property or customers’

personal information – need to be able to prevent breaches resulting from mistakes and malice, both from the inside and the outside. In a recent study of IT decision makers, 38 percent named cybersecurity training and support as the pillar of their company’s cybersecurity posture. Organizations that emphasize training are also quicker at detecting attacks, and more efficient at isolating them. Conversely, 43 percent of infosec professionals say they are kept awake at night worrying about their organizations’ cybersecurity, with their biggest fears stemming from insider threats.

When faced with advanced threats like attacks leveraging fileless malware, sophisticated social engineering schemes like spear phishing and CEO impersonation (whaling), or disgruntled insiders with high-level access to company assets, cybersecurity leaders need to pair training with technology for the solution.

Cybersecurity executives no longer look at just traditional endpoint and perimeter security solutions to safeguard their assets. They are placing stronger emphasis on next-generation security tools (35 percent) and Network Traffic Analytics (NTA) (34 percent) to

keep their organizations secure. NTA technology, in fact, plays a crucial role in safeguarding today’s corporate assets from internal and external threats. A key strength of NTA is behavioral analytics, which enables security teams to spot with dense granularity even the faintest anomaly relative to the known behavior of a company’s applications and processes. NTA applies machine learning to recognize anomalous behavior, then generates automated responses to attacks in progress. The technology integrates with existing EPP and EDR tools to facilitate swift remediation on devices that exhibit abnormal behavior.

It’s important to strike a balance between strengthening the human factor through training and building a strong cybersecurity technology stack. While training goes a long way toward defending a corporate network, IT chiefs must remember that cybercrooks will always find a way to exploit the human layer of the infrastructure. Train your troops against outside threats, but don’t forget to equip your IT department with the tools needed to gain visibility into less evident threats that may have slipped through the cracks.



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[www.securitytoday.in](http://www.securitytoday.in)  
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**INDIA**  
17-19 September, 2020  
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Bombay Exhibition Center,  
Mumbai, India  
[www.fire-india.com](http://www.fire-india.com)



**USA**  
21-25 September, 2020  
Global Security Exchange Plus  
(GSX+)  
USA  
[www.gsx.org](http://www.gsx.org)



**RUSSIA**  
10-12 November, 2020  
Sfitech 2020  
Lenexpo, Saint Petersburg  
Russia  
[www.clocate.com](http://www.clocate.com)



**USA**  
18-19 November, 2020  
ASIS 30th Security Conference  
and Expo  
Javits Centre, New York  
USA  
[www.asisnyc.org](http://www.asisnyc.org)



**USA**  
18-19 November, 2020  
ISC East 2020  
Javits Centre, New York  
USA  
[www.isceast.com](http://www.isceast.com)



**INDIA**  
18-19 November, 2020  
3<sup>rd</sup> Edition of the Global Inclusive  
Disaster Management Conference  
and Exhibition  
Le Méridien Hotel, New Delhi  
[www.gidmc.org](http://www.gidmc.org)



**UK**  
2-3 December, 2020  
UK Security Expo 2020  
Olympia, London  
United Kingdom  
[www.internationalsecurityexpo.com](http://www.internationalsecurityexpo.com)



**INDIA**  
3-5 December, 2020  
IFSEC India  
Pragati Maidan  
New Delhi  
India  
[www.ifsec.events/india/](http://www.ifsec.events/india/)



**NORWAY**  
10-11 March, 2021  
Sectech Norway  
Norges Varemesse  
Lillestrom  
Norway  
[www.securityworldmarket.com](http://www.securityworldmarket.com)



**SOUTH KOREA**  
10-12 March, 2021  
Secon 2021  
Korea International Exhibition  
Centre - Kintex, Goyang-si  
South Korea  
[www.seconexpo.com](http://www.seconexpo.com)



**SAUDI ARABIA**  
15-17 March, 2021  
Intersec Saudi Arabia  
Jeddah Center for Forums &  
Events  
Riyadh, Saudi Arabia  
[www.intersec-ksa.com](http://www.intersec-ksa.com)



**USA**  
23-26 March, 2021  
ISC West  
Sands Expo Centre  
Las Vegas, NV, USA  
[www.iscwest.com](http://www.iscwest.com)



**INDIA**  
24-26 March, 2021  
6<sup>th</sup> Smart Cities India 2021 Expo  
Pragati Maidan  
New Delhi  
India  
[www.smartcitiesindia.com](http://www.smartcitiesindia.com)



**UK**  
27-29 April, 2021  
The Security Event 2021  
NEC  
Birmingham, UK  
[www.thesecurityevent.co.uk](http://www.thesecurityevent.co.uk)



**INDIA**  
13-14 May, 2021  
International Police Expo 2021  
Pragati Maidan, New Delhi  
India  
[www.internationalpoliceexpo.com](http://www.internationalpoliceexpo.com)



**UK**  
18-20 May, 2021  
Security & Counter Terror  
Expo - SCTX 2021  
EXCEL, London  
UK  
[www.counterterrorexp.com](http://www.counterterrorexp.com)



**UK**  
18-20 May, 2021  
IFSEC International 2021  
EXCEL, London  
UK  
[www.ifsec.events/international](http://www.ifsec.events/international)



**INDIA**  
3-5 June, 2021  
Security & Fire Expo -  
South India  
BIEC, Bengaluru  
India  
[www.safeindiaexpo.com](http://www.safeindiaexpo.com)



**MALAYSIA**  
15-17 June, 2021  
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