

SECURITY Update

CREATING BUSINESS OPPORTUNITIES



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New technologies promise to stop threats at the perimeter



As the first line of defence against unauthorised access to business premises, perimeter security can alert an enterprise of potential security threats while delaying or preventing any loss or damage due to criminal acts. Combining hardware and software, perimeter security addresses the outermost ring of a facility's concentric circles of protection. Obviously, any threat addressed at the outermost edge of defence does not become a more immediate and urgent threat closer to a facility.

Perimeter security has long involved a combination of multiple strategies and devices all added together to make a hopefully impenetrable "wall." Organisations are now looking to extend the buffer zones that lead up to the perimeter security to properly reinforce that perimeter. In addition, the idea of combining several sensors for a turnkey approach is gaining traction. This approach would likely involve combining a short-range radar, a camera, and a speaker system that could be used to warn a potential trespasser that they are in a restricted area. Analyt-

ics also play into this approach as an additional layer of detection and help contribute back into that buffer zone.

Proactive video monitoring has experienced a significant uptick in this market because it enables organisations to take a proactive approach to security, rather than simply responding to incidents after they have occurred. This approach allows businesses, such as construction sites, critical infrastructure, and automobile dealerships, to identify potential threats before they become a problem and take action to prevent them.

Proactive video monitoring services use AI to analyse video feeds from cameras installed along the perimeter. The solution can detect and classify objects and people, track their movements, and issue alerts to operators within a monitoring centre in real time if a potential threat is detected. This allows businesses to monitor the perimeter more effectively, identify possible security breaches, and respond before loss or damage can occur. As a result, it is becoming an increasingly popular option for organisations looking to improve their security capabilities.

Perimeter security systems have evolved significantly in recent years and are now moving away from intrusion detection to perimeter surveillance: Traditional Perimeter Intrusion Detection Systems (PIDS) are

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Dear Reader

I was both surprised and honoured when my long-standing friend, Gautam D. Goradia invited me to write a Foreword for his upcoming book, "The Footage Whisperer," set to release this month.



CCTV has become an integral part of our society, aiding in everything from petty theft to terrorism investigations. However, the transition from analog to digital technology and the proliferation of various CCTV systems have changed the landscape of video evidence recovery and processing. This shift requires a higher level of technical expertise to retrieve evidence from the diverse range of digital CCTV systems in use today.

Today's security systems are evolving rapidly and demand trained individuals to effectively operate and leverage their capabilities. While basic CCTV remains widespread, advancements have paved the way for more sophisticated video analytics that allow us to see more while watching less. These innovations have led to applications that make video security systems smarter and more streamlined. It's also a well-known fact that humans can't effectively monitor TV screens for extended periods. Studies show that sustained focus on multiple screens is limited to around 20 minutes before attention wanes and events are missed. To prevent crime and ensure effective video records for investigation, automation is crucial, requiring a solid understanding of technology.

In the present day, video surveillance setups encompass numerous cameras generating vast amounts of data, often reaching the terabyte or petabyte range. Navigating this data deluge to extract relevant information is challenging. Maximising the potential of modern HD video necessitates efficient data management. While leading Video Management System (VMS) and Physical Security Information Management (PSIM) manufacturers offer intelligent search and analysis tools, human oversight remains essential. Auditing camera feeds by someone familiar with the environment detects loss incidents, non-compliance patterns, and emerging anomalies more reliably.

For small and medium-sized surveillance setups, an in-house security team member acquainted with security risks is vital. This person can review CCTV footage daily and add important details to the incidents log. Outsourcing this role to an individual unfamiliar with the site's security sensitivities may not yield desired results. Effective video analysis tools, like Com-Sur, are necessary for this task.

Gautam D. Goradia's "The Footage Whisperer" centres on Com-Sur, a CCTV footage auditing software applicable to diverse scenarios. The book underscores the significance of revisiting footage to unveil shifts in security status, from calm to chaotic, and from ignorance to acute awareness. As security lapses and loss incidents are exposed through CCTV audits, the dynamic nature of security environments becomes evident. "The Footage Whisperer" is a valuable resource for those interested in the realm of modern surveillance, offering insights that deserve attention.

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

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Hikvision India introduces 12 Zone Intrusion Alarm Panel: A versatile solution for banking, retail, residential and SME application scenarios



Hikvision 12 Zone Intrusion Alarm Panel is an innovative product in the intruder alarm systems segment, which ensures complete security for home, retail outlets, banking, warehouses, commercial offices and many more. The 12 Zone Intrusion Alarm Panel connects security sensors such as motion detectors, magnetic contacts, displacement sensors, alongside safety devices like smoke and heat sensors to keep people and your premises safe.

The Intrusion Alarm Panel has an onboard keypad for controlling, programming and monitoring using onboard LED Indicators. This 12 Zone Intrusion Alarm Panel is further supported by GSM auto dialer for an event or alert based call and SMS. Smoke & Heat Detectors can be used for cost effective fire protection solutions.

Key Functions: -

INTRUSION IS DETECTED: Un-authorized activity is detected by sensors like motion detectors, door contacts, glass break detectors and by many more sensors.

CONTROL PANEL ALERT-ED: Sensors are linked to a control panel and all kinds of signals from the sensors are analysed here. Control panel further takes preprogrammed action.

ALARM IS SOUNDED: Sounder or hooter is connected with the system. Once an intrusion is detected using sensors, a sounder alert will be raised for deterrence.

REMOTE ALERTS: Remote alerts can be received via Call & SMS with GSM Auto dialer based

model of 12 Zone Intrusion Alarm Panel.

ALARM IS DEACTIVATED: Once deterrence is achieved, an alarm will be deactivated or armed in normal condition to detect any future events or intrusion.

USPs of 12 Zone Intrusion Alarm Panel:- Easy & quick installation, onsite configuration, battery backup, quick wired connections, onsite alerts, easy to operate, safe & secure, Intrusion alarm with and without GSM auto dialer, inbuilt GSM dialer, user controlled intrusion, smoke, panic detections and economical.

Key Features: -

- Onboard keypad
- With & without GSM module
- 12 onboard zones with strong ABS plastic body
- Onboard LED indicators
- Onboard power supply
- Smoke & panic zones
- SMF battery backup
- Tamper alerts for sensors
- Compact & light weight
- Dedicated Tamper for front cover and back cabinet
- 12V onboard SMPS
- Stable Power Supply : 100V AC to 240V AC
- Operating Humidity : 10% to 90%
- Operating Temperature : -10 to 55 Deg C
- LED Indicators : 20 LEDs
- Dimensions : 225 x 198 x 81.85 mm
- Material : Strong ABS body
- Colour : White
- Battery : Space to add 12V, 7Ah battery
- Weight : 936 g (without battery)

Axis wins 2023 Red Dot award for access reader series



Axis Communications has been successful in the Red Dot Award: Product Design 2023. The international jury has awarded the Axis A4020-E reader and Axis A4120-E reader with keypad the distinction “Red Dot”, which stands for high design quality. This recognition counts as the fifth time the company has received the prestigious Red Dot award.

The Axis A4000-E Series includes the Axis A4020-E reader and the Axis A4120-E reader with a key-

pad. Both devices were designed for public spaces and business-related contexts as complements to any access control system. Their robust and weather-resistant design makes these readers suitable for both indoor and outdoor environments.

“The tapered design of the housing towards the back gives the device an elegant appearance, while the interactive front is protected by a subtly faceted frame – a successful product development,” concluded the jury.

Bosch new commercial series motion detectors with improved catch performance and false-alarm immunity thanks to MEMS sensors



Microelectromechanical systems (MEMS) sensors really are multi-talented. These tiny “all-rounders” provide convenience, safety, and security in everyday life. They can de-

tect mechanical, magnetic, and even chemical changes reliably and with great precision, and convert these into electrical signals. This innovative technology is now also finding its way into security technology.

Thanks to the MEMS sensors used in them for the first time, the Bosch commercial series (Gen2) motion detectors recently launched in the EMEA region boast even better catch performance and false-alarm immunity. They also deliver all the tried-and-tested benefits of TriTech detectors, which have a detection range of up to 15 metres and are used inside commercial premises with a moderate to high-security risk, such as office and factory buildings, banks, and retail outlets.

The MEMS sensors Bosch is using in the commercial series (Gen2) motion detectors are ultra-small high-performance acceleration sensors like those used in smartphones, for example. With even better im-

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- Integrate with CCTV cameras
- Programmable outputs for lights & other automation
- 20 independent calendars to schedule automatic events
- Remote control the system via web/mobile app/call/sms
- Detailed reports pinpointing the individual device
- Door lock control with RFID card
- User friendly keypads with control segments

APPLICATIONS:
HOMES, OFFICES,
BANKS, FACTORIES,
BOARD ROOMS,
LABS, R&D CENTRES,
SHOPS...

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compact and vibration compensation and no mechanical contacts, these sensors offer maximum false-alarm immunity. There is also no need for a mounting screw for the tamper contact, the anti-mask version now takes even less time to install.

What’s more, the MEMS sensors make it even easier to spot attempted tampering at the place of installation, whether someone is trying to pull the detector off the wall or remove brackets and swivel joints. As part of the update, Bosch has also further enhanced the detector’s radio frequency (RF) immunity.

In the new devices, this is now up to 6 GHz, providing the motion detectors with even better protection from interference caused by Wi-Fi routers, which typically operate in this frequency range. Another plus point of the new generation is that the integrated EOL resistors can now be selected more quickly during installation because the jumpers have been replaced by user-friendly switches.

Last but not least, the innovation boasts further optimised anti-mask monitoring for the sensors, which

is now more sensitive to attempts to block the sensors using paper or spray paint, for example. Likewise, the improved anti-mask monitoring can also identify objects such as advertising banners that have been inadvertently placed in front of the detector.

The new commercial series (Gen2) motion detectors share the established benefits of TriTech technology – a combination of PIR and microwave Doppler radar technology plus advanced signal processing. After all, especially in a setting with an elevated security risk, any movement in an area needs to be detected quickly and reliably without triggering any false alarms – even in challenging environments such as locations with strong air currents, moving objects, and difficult light or temperature conditions.

Like all Bosch motion detectors, the commercial series (Gen2) models are easy to install, which cuts installation costs. They are also built to last. Bosch motion detectors come with a five-year guarantee as standard. In the EMEA region, TriTech detectors even come with an eight-year guarantee.

Barrier Systems bollards crash rated for gas stations



Barrier1 Systems is upgrading safety and security standards for gas stations and c-stores with crash-rated security bollards that prevent vehicle ramming accidents. These innovative security solutions are proven to protect customers from bodily harm while also shielding business owners from the costly liabilities associated with storefront crashes.

Barrier1 high-security bollards are crash-tested and rated to withstand the impact of vehicle collisions, ensuring better protection of people, assets, and infrastructure, and mitigating risk, liability, and insurance cost increases.

According to the Storefront Safety Council, storefront crashes occur more than 100 times each day across America, resulting in as many as 16,000 injuries and 2600 deaths annually. When placed at the front of a c-store or gas station, Barrier1 Systems' crash-rated bollards act as reliable

guardians, providing virtually unstoppable protection against accidental and intentional storefront crashes. Barrier1 System bollards are also ideal for alternative areas surrounding convenience stores and gas stations where traffic control and additional asset protection is required.

Barrier1 Systems' high-security bollards undergo rigorous crash testing and meet the standards set by the American Society for Testing and Materials (ASTM). Barrier1 Systems bollards carry both F3016 and F2656 ASTM ratings of P20, P30, M30, and M50. Barrier1's M50 rated bollard, the strongest rating a vehicle barrier can receive, is capable of stopping a 15,000-pound truck travelling at 50 mph. It is essential to install ASTM-tested and rated bollards to adequately protect convenience stores, as failure to do so can leave a business vulnerable and exposed to significant liability risks

Camden Narrow ValueWave switch with manual override



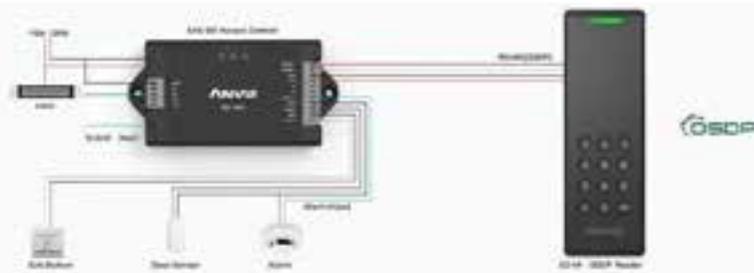
Camden Door Controls has announced that, in response to soaring customer demand, it has expanded its range of ValueWave no-touch switches to include a narrow (slimline) version with manual override.

This override button is designed to provide additional assurance that the request to exit switch will open a door, even if the no-touch sensor fails to op-

erate. This new slimline switch also features a heavy gauge stainless steel faceplate, a red/green illuminated light ring, and is IP65 rated, making it ideal for indoor or outdoor use as part of an automatic door or access control system.

ValueWave no-touch switches are designed for easy installation and trouble-free service in high traffic applications. In addition to this narrow version, the CM-221 & CM-222 Series switches are available in a range of other models with single and double gang heavy-gauge stainless steel faceplates, and include illuminated light rings.

Anviz launches next-gen OSDP-powered access control solutions, setting new industry standards



Anviz has announced the launch of its next-generation access control solutions powered by Open Supervised Device Protocol (OSDP).

The two new offerings – the SAC921 single-door access controller and C2KA-OSDP RFID keypad reader – are future-proof systems packed with state-of-the-art technology and smart features. Both solutions seek to ensure customer safety and peace of mind, providing a comprehensive security solution for the modern world.

SAC921 is a PoE-powered access control system that offers great flexibility and simplicity with a wider range of access control interfaces supporting alarm input, perimeter security, and device control.

The SAC921 provides a revolutionary upgrade to the traditional Wiegand-based access control systems, significantly streamlining device operations, while offering improved security features and better third-party compatibility.

Due to the adoption of PoE, OSDP, and built-in management software, installation of the SAC921 is easier and more cost-effective. Via Anviz's CrossChex remote control system, users can also access a more comprehensive set of security options, such as personnel identity verification, access control, and time attendance management system, granting powerful and customisable security capabilities.

The C2KA-OSDP RFID keypad reader ushers in a new era of PIN code access, delivering unrivalled convenience for both credentialed users and visitors alike. The cutting-edge reader goes beyond traditional access control by supporting multi-factor authentication

with seamless integration of various credentials and access methods. The keypad reader's breakthrough security capabilities are made possible by OSDP, securing connections and safeguarding against hacks.

Unlike traditional Wiegand-based systems, OSDP-powered devices enable bidirectional communication between controllers and card readers using RS485, allowing for real-time monitoring of the card reader's status. This enables access control software to monitor, control, and encrypt data between the access control controller and card reader, delivering advanced tamper protection and usage tracking.

OSDP's key value comes from its superior flexibility. Data shared between OSDP access control and readers are no longer confined to fixed-length data fields, such as 24 or 36, with AES128 encryption ensuring higher data security. As a member of SIA, Anviz intends to introduce more SIA OSDP Verified products to the markets, allowing customers worldwide to enjoy higher security, richer functionality, greater ease of use, and increased interoperability brought by OSDP.

The packaged access control solution that combines the SAC921 access controller and C2KA-OSDP RFID keypad reader is scheduled to be launched in the second half of 2023. Anviz is also planning to upgrade its products to support greater compatibility with third-party solutions.

This will be tailored to the needs of various industries, including education, government, commercial real estate, retail, manufacturing, healthcare, and hospitality users, allowing them access to a comprehensive and integrated security control experience.

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New technologies promise....

effective at detecting when someone is attempting to breach a fence, but they may not provide early warning of potential threats. That's why organisations are now looking for systems that can detect qualified activities such as movement or sound before intruders reach the fence.

Radars and lidars can detect when objects cross lines, and track intruders outside and inside fence lines. Cameras otherwise used for monitoring or video verification can be turned into tracking systems with edge- or server-based algorithms. With a unified security system that can correlate data from a variety of sources (camer-

as, lasers, lidars, radars, etc.) operators are able to accurately identify the nature and location of the intrusion and are better equipped to respond faster.

Perimeter security has seen advancements in new technology and enhancements of older offerings, which include video surveillance, intrusion detection, access control, fencing, gates, and other physical barriers. Systems that are open and can work together with disparate platforms provide a broad, unified system that can adapt to and include advances in technology as they occur.

Video systems have seen new advancements due to artificial intelligence, leading to real-time alerts to specific concerns and greatly enhancing forensic searches. Integrating physical access control systems with other systems allows them to leverage their technological advancements, ensuring access is granted only if certain conditions are met beyond just the users' control group. Fencing has also seen advancements with bracketless barrier and high-density chain-link offerings providing enhanced strength that are difficult to compromise.

Wi-Fi HaLow, a new version of Wi-Fi based on the IEEE 802.11ah standard and certified by the Wi-Fi Alliance, will change perimeter security systems. Wi-Fi HaLow has proven to be an exceptional solution to the connectivity challenges encountered by conventional Wi-Fi networks, of-

fering a multitude of benefits such as extended range, energy efficiency, enhanced security, and effortless installation.

One specific area where Wi-Fi HaLow excels is in battery-powered security cameras. No other wireless protocol matches its effectiveness and efficiency in meeting the unique requirements of these devices. This breakthrough technology is poised to significantly impact the market, providing consumers with reliable and cost-effective options to safeguard their homes. Wi-Fi HaLow showcases its capabilities by supporting video and security cameras deployed over long distances. Unlike traditional Wi-Fi networks that often suffer from lag or dropped connections, Wi-Fi HaLow ensures uninterrupted surveillance even when cameras are placed far from the access point.

Factors impacting the deployment of perimeter security systems include multiple sensor technologies such as lidar and radar, as well as intelligent video monitoring. Electric fences can provide a deterrent to delay intruders. Newer proactive approaches are enhancing the effectiveness of perimeter security, and intelligent systems are working to automate detection and eliminate false alarms. Historically, perimeter security may have been seen as a low-tech approach (e.g., fences), but technology is having a marked impact as these systems become more effective than ever.

Solar Gates UK launch two new temporary traffic management products

Solar Gates UK launched two innovative temporary traffic control solutions; INSTABOOM Go and INSTABOOM Flagger. Both are designed for one-person instant deployment, dramatically improving worker safety and helping the labour shortage.

Both products are manufactured with the lowest carbon footprint, are green energy operated and one has even been manufactured using bamboo as a main component.

INSTABOOM Go is an automated, remote-controlled, Stop/Go board effortless traffic control deployed in under a minute. Solar-powered and ready for use straight out of the compact flight case, it's designed for one-person operation via remote control, allowing the operator to manage traffic control from the safety of their vehicle.

'Safety at Street Works and Road Works: A Code of Practice' states, 'Remotely controlled Stop/Go boards should be used where possible.' INSTABOOM Go fits the bill and is the perfect solution for saving lives, budget, and carbon. Its hybrid design means even if the sun's not shining, Instaboom Go will run for two weeks of 10-hour shifts every 30 seconds. In bright conditions, it will never need a top-up charge.

Ground-breaking safety control software means it is TOPAS aligned, with many safety backup features, preventing a double Go/Go – only safe operations can be operated.

INSTABOOM Flagger is a single-lane closure barrier in a 24kg flight case with a rotating Chapter 8 chevron barrier manufactured from bamboo and recycled cotton.



Simple one-person deployment allows an instant single lane closure in under a minute with remote operation via fob up to 800m, enhancing the safety of work crews, and reducing the increasing risk of incursions. Even if the sun's not shining, it will still work for 2 full weeks at 100 times a day. If used on a bright day, it will never need a top-up charge.

Manufactured with not only as low a carbon footprint as possible, but also every consideration has

been given to the materials used. This includes a bamboo barrier arm and the use of recycled materials wherever possible.

Given INSTABOOM Flagger's low carbon footprint of manufacture and almost zero cost of ownership, it's an excellent choice to help meet environmental credentials and contribute towards National Highways' route to carbon neutrality by 2050.

RecFaces Introduces Id-Target: Security and Marketing in One Biometric Solution

The biometric solution Id-Target by RecFaces is designed for retail stores, including self-service network supermarkets and boutiques with personal consultants. Id-Target combines facial recognition-based security features with robust marketing capabilities. These marketing functionalities range from audience analysis to the creation of personalized loyalty systems and Digital Signage content based on each visitor's purchase data.

CCTV cameras capture visitor faces at the entrance and create biometric templates for a stop-list to prevent shoplifting. These templates are securely stored within the client's protected environment in accordance with GDPR regulations. Based on these templates, a stop-list is created to identify wrongdoers and reduce losses from shoplifting. However, that's not all.



The advantage of this solution lies in providing owners and marketing analysts with personalized purchasing statistics without the need for marketing research. Biometric templates link to transaction, refund, and purchase data. Customers no longer need to carry loyalty cards or provide phone numbers at the checkout. With Id-Target it takes less than a second, and searching through a loyalty card database linked to a customer profile takes 2 seconds.

On one hand, the high level of detail of purchase data enables in-depth marketing analysis. On the other hand, Id-Target allows businesses to build personalized relationships with each customer, thereby increasing service speed, loyalty, conversion rates, and average transaction value.

Id-Target is a ready-to-use solution that can be deployed on the client's servers within 20 minutes. It already includes integration capabilities, thanks to an open API, can easily integrate with third-party systems.

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3S System releases professional network video recorders



3S System Technology Inc, a leading manufacturer based in Taiwan, has launched a new embedded Hybrid XVR & NVR, featuring high-performance, quick deployment and easy setup designed to effectively meet almost all project requirements.

3S Professional Network Video Recorders are provided with the Taiwanese Novatek chips, which can not only effectively improve video recording performance, but also addresses any doubts about image security.

The latest H.265 compression technology can provide a higher image compression rate and high-definition images. The functions of recording modes and exporting files are supported up to 4K resolution and effectively reduce the storage space of video. In addition, 3S XVR and NVR can accomplish real-time monitoring, video recording, playback and other functions simultaneously.

The new generation XVR and

NVR are provided with flexible video recording modes, such as cancel recording, full-time recording, scheduling and event recording to achieve more effective monitoring and management. They are able to accommodate two (2) 3.5" HDD for maximum storage capacity of each HDD on the XVR up to 8Tb and 10Tb on the NVR.

Users can view images and playback images in real time through P2P simple network settings and a smart mobile App.

The 3S XVR & NVR are available in 4, 8 and 16-channel models that support plug and play for quick installation. Both models incorporate advanced H.265 compression technology and are Linux based, and there are 5-in-1 video inputs with 4K (3820x2160 pixels) screen output support offering crystal clear viewing; users are not only able to experience imaging in 4K quality but also has do not have to worry about the data being stolen.

AI in video surveillance predicted for healthy growth

The global AI in video surveillance market is expected to be valued at USD 5.6 billion in 2023 and is projected to reach USD 16.3 billion by 2028; it is expected to grow at a huge CAGR of 23.7% from 2023 to 2028. This is according to research company, Marketsandmarkets, whose analysts assess that it is the advent of cloud computing that has significantly impacted the AI capabilities in video surveillance.

Cloud-based platforms provide scalable storage and computing resources, allowing for centralised management, remote access, and the integration of AI-powered analytics across multiple cameras and locations. These technological advancements have propelled the capabilities of AI in video surveillance, enabling more intelligent, efficient, and reliable

security systems.

The growth of the wireless camera market is driven by the distinct advantages that these cameras offer. Wireless cameras are easier to install than wired systems, reducing installation costs. They provide greater flexibility as they can be placed at any location without the constraints of wires.

Wireless surveillance systems also enable remote monitoring of camera feeds from anywhere worldwide. However, wireless cameras do have some disadvantages. Analogue cameras and DVRs cannot be connected wirelessly, limiting wireless connectivity to IP cameras and NVRs. Additionally, wireless cameras are susceptible to signal losses due to interference or tampering. As a result,



most cameras deployed globally are still wired cameras.

In 2022, the commercial vertical held the largest share in the AI in video surveillance market, and this trend is expected to persist. The escalating security concerns across various applications within the commercial sector, including retail, enterprises, banks, and financial institutes, have led to the growing importance of video surveillance systems.

The rise in security breaches such as inventory loss, robbery, unauthorised access, and other criminal activities has fuelled the demand for AI-powered video surveillance solutions in the commercial space. Furthermore, the significant growth of small businesses, as well as the expansion of retail stores and malls, has contributed to the increased adoption of surveillance systems in recent years.

The Asia Pacific region is wit-

nessing significant growth and adoption of AI in the video surveillance market. The region's rapid urbanisation, increasing population, and rising security concerns are driving the demand for advanced video surveillance systems integrated with AI technologies.

Governments in countries like China, India, and Japan are investing heavily in smart city initiatives, leading to the deployment of extensive video surveillance networks. AI-powered video analytics, including facial recognition and object detection, are being utilised to enhance security and improve public safety in crowded areas, transportation hubs, and critical infrastructure. The region also benefits from the presence of several major technology companies and startups focusing on AI in video surveillance.

The AI in video surveillance market includes major Tier I and II players like Hikvision, Dahua, Avigilon, Milestone, YITU Tech, Sensetime, Agent Video Intelligence and others. According to the research, these players have a strong market presence in AI in video surveillance across various countries in North America, Europe, Asia Pacific, and RoW.

Verkada Multisensor Camera, Air Quality Sensors, Door Controller



Verkada has announced the availability of new products and solutions to drive scale and simplicity for the enterprise, including a new multisensor camera, a new line of air quality sensors, a new 16-door access controller, and low-bandwidth mode.

The company states these new solutions were developed to deliver more value to customers, by reducing IT overhead and simplifying installation and management.

The newest addition to Verkada's camera portfolio is the CH52-E

multisensor camera. Verkada points out this product is its first multisensor solution, and it helps customers increase security coverage in the most efficient manner.

With four independent image sensors, the Verkada CH52-E multisensor camera offers comprehensive coverage with high level image detail. Verkada boasts that its customers can now benefit from the coverage of a fisheye camera and the image crispness of a dome camera all in a single package.

Another of Verkada's new enterprise security solutions is the company's SV20 series. Outlining the product line, Verkada explains the different models:

- The SV21 includes four onboard sensors, and it provides the ability to manage air quality essentials like temperature, humidity and CO2 in offices, classrooms or server closets.

- The SV23 includes 10 onboard sensors including vape, TVOC, AQI, and others. Verkada states the SV23 is designed for vape detection and deployments in schools.

- The SV25 provides 14 unique sensor readings. With sensors to measure formaldehyde, carbon monoxide, and barometric pressure, among air quality attributes, the SV25 provides a comprehensive air quality monitoring solution for indoor environments.

Additionally, other newly released security enterprise products from the company include the AC62 door controller, which is said to provide the ability to deliver access control for as many as 16 doors from a single controller. The AC62 features a compact form factor and intuitive components, such as detachable wiring terminals and mounting brackets to simplify installation and minimize the hardware footprint, according to the company.

Reinforcing the enterprise secu-

ity capabilities of its product line and helping to make the products as efficient as possible, Verkada emphasizes its hybrid-Cloud solution has addressed the challenge of bandwidth with cameras that require bandwidth as low as 20-50kbps.

Verkada admits that certain customers with distributed sites in remote locations, mobile deployments or high camera density still contend with extreme bandwidth constraints. To support low-bandwidth capabilities at scale for these customers Verkada offers a new Low Bandwidth Mode to enable customers to cap bandwidth consumption and stay within their bandwidth limits.

Verkada claims that with the Low Bandwidth Mode enabled for specific cameras, the resting bandwidth is reduced by up to 75% (when no video is played) and streaming bandwidth by up to 33%. To support this lower bandwidth when Low Bandwidth Mode is enabled, video will stream in standard quality with Cloud backup and timelapse disabled, and thumbnail frequency will be reduced.

This allows bandwidth-constrained customers to increase the size of their deployments while maintaining the uptime of their cameras, all while running other business critical applications.

Philips launches new smart security cameras, Home Safety app in India



Philips has launched a new range of smart security cameras and a Home Safety app in India. Philips Smart Security cameras come with Artificial Intelligence capabilities and can differentiate between motion, noise, and people. Versuni, formerly known as Philips Domestic Appliances, has announced expansion into Home Safety Products with the launch of three smart security cameras and a Home Safety app.

The new range of Philips Smart Security Cameras come in three models and includes Philips Smart Indoor WiFi Camera HSP1000, Philips

Smart 360° WiFi Indoor Security Camera HSP3500 and HSP3800. These cameras come with Artificial Intelligence capabilities and can differentiate between motion, noise, and people, reducing false alarms and providing accurate alerts, as per the company's claim. They offer 24/7 control that allows viewing, recording, or responding to security events from anywhere. The set-up and use of these cameras is simple, and it is supported by Virtual Assistance.

The newly launched cameras come with AES-128 encryption, which ensures data privacy and protects videos even if the SD card is removed. In addition to this, app-level biometric recognition protects against unauthorised access. Philips Smart Home Security Cameras – HSP 1000, HSP 3500 and HSP 3500 are available for purchase at Rs 3,295, Rs 5,295 and Rs 7,795 respectively on Amazon and Philips Domestic Appliances online store.

Philips Smart Indoor WiFi Cam-

era (HSP1000) comes with a 2MP image sensor, 1920 x 1080 pixels resolution and black and white night vision with IR visibility up to 7m. It has up to 128GB MicroSD slot, 110-degree field of view, full duplex two-way audio and built-in mic, speaker and siren. The camera is suitable for indoor use and has an operating temperature of -10 degrees Celsius to 45 degrees Celsius.

Philips Smart 360-degree WiFi Indoor Security Camera (HSP3500) comes with a 3MP image sensor, 2304 x 1296 pixels resolution and black and white night vision with IR visibility up to 10m. It has up to 128GB MicroSD slot, 360-degree field of view, full duplex two-way audio and built-in mic, speaker and

siren. The camera is also suitable for indoor use and has an operating temperature of minus 10 degrees Celsius to 45 degrees Celsius.

Philips Smart 360-degree WiFi Indoor Security Camera (HSP3800) comes with a 2MP image sensor, 1920 x 1080 pixels resolution, black and white night vision with IR visibility up to 10m, and a spotlight of 280 Lumens. It has up to 128GB MicroSD slot, 350 degrees of field of view, full duplex two-way audio and a built-in mic, speaker and siren. The camera is suitable for outdoor use, has an operating temperature of minus 10 degrees Celsius to 45 degrees Celsius and comes with an IP65 rating for weather resistance.

Raytec launches new powerful network illuminator



Raytec is launching the Vario2 IP PoE 16, thought to be the most powerful IP PoE single panel illuminator on the market – designed to deliver outstanding distances of up to 500m (1,640ft).

Available as infrared, white light, and hybrid variants, Vario2 IP PoE 16 represents the forefront of network illumination. With this powerful new development Raytec cements its position as one of the most comprehensive players on the network illuminators on the market.

The emergence of the IEEE 802.3bt standard brought new opportunities for PoE-powered illuminators. Following the addition of compatibility to Vario2 8 size products, Raytec has been able to extend the IP PoE range to include Vario2 16 size products for the very first time.

With a 90W PoE or 24V DC input, the new Vario2 IP PoE 16 combines industry-leading power and distances, with the smart network capability of our award-winning Vario2 IP

PoE range. Users can create dynamic lighting systems which deliver the perfect level of light, exactly where it's needed.

Vario2 IP PoE offers end-users great control with dedicated IP lighting. Illuminators can be controlled anywhere on the network, reducing labour and costs while maximising performance 24/7. Vario2 IP PoE 16 also utilised Raytec's Vario Interchangeable Lens System, allowing the angle of unit illumination to be easily, quickly, and precisely adjusted.

In addition to the new Vario2 IP PoE 16, the rest of the IP PoE range has also seen an upgrade with the introduction of HTTPS. All products in the IP PoE range now have the capability to be secured with HTTPS, allowing users to benefit from increased encryption and security. Improvements to Raytec's Discoman (Discovery & Management) tool also allows users to easily manage certificates and update multiple lamps at once.

Facial Biometrics Cuts Shoplifting Losses by 50%

The ever increasing number of shoplifting incidents is forcing retailers to turn to facial biometrics as a security measure. This has yielded impressive results: store owners confirm that such security systems identify thieves by their face and cite a reduction in theft-related losses between 50 and 90%. Modern facial recognition systems employ advanced algorithms that both ensure data privacy and adhere to international GDPR regulations.

Retail Theft and Robberies Increase Damage

Retail store managers have noted a recent rise in thefts and robberies. As reported by Charged, a British retail news outlet, this disturbing trend emerged in 2018-2019, and has since evolved into a pressing issue. Interestingly, the rise in shoplifting incidents coincides with a broader surge in crime rates, as independent research portal Numbeo assigns a "high" rating to this metric in many Latin American cities.



The increase in retail attacks, as well as a growing level of aggression from organised groups, is prompting widespread concern. The 2021 "Retail Security Survey: The State of National Retail Security and Organized Retail Crime" report by the National Retail Federation provides some alarming statistics. According to the report, 64% of respondents observed a surge in losses from organised criminal groups since 2016, while 53% reported an escalation/increase in theft. What is more, 82% of respondents mentioned intensification in the ferocity of attacks and the involvement of weapons.

The National Retail Federation approximates the average loss per theft incident in a store at \$462, with organised robberies amounting to nearly \$7,500. Furthermore, data from the British Retail Consortium, as reported by the Daily Mail, reveals

an alarming increase in store theft incidents, soaring from 3 million cases in 2016-2017 to 8 million in 2022.

The often delayed response of the police to shoplifting incidents leaves retail businesses vulnerable to theft. Store employees, wary of potentially armed perpetrators, avoid personally confronting suspects, while law enforcement personnel respond to incidents only after the criminals have already made their escape. Additionally, theft cases below a certain monetary value are often deemed low-priority and go uninvestigated.

Latin America Relies on Biometric Technologies

Fortune Business Insights predicts the global facial recognition technology market to reach an impressive \$13 billion by 2027, with a compound annual growth rate (CAGR) of 14.8%. The 3D recognition sector exhibits even swifter growth, with Market Research Future reporting a CAGR of 21.6%.

However, it is Latin America that is considered the most favourable region for biometric technology development, with its biometrics market surpassing the global growth rate by far. Multiple research firms, including Inkwood Research, anticipate that the Latin American biometrics market will hit a volume of \$8 million by 2027-2028, with a CAGR of 17-22%. Analysts identify Brazil, Mexico, and Argentina as key influencers in the regional development of biometric technologies. This trend is attributable to both governmental investments in initiatives like safe cities or digital identification, and private sector endeavours to mitigate the escalating crime rates.

How Facial Recognition Protects Against Theft

Retailers are finding effective protection against growing losses through a combination of organisa-

tional protocols, staff training, and the adoption of ready-to-use security solutions, such as anti-theft systems, in-store surveillance, and biometric technologies.

Facial recognition systems have proven to be highly effective in preventing theft and robberies. For example, according to the Daily Mail, a facial biometrics system installed in a major retail store chain prevents thousands of crimes each month. Additionally, Charged disclosed that a local convenience store saw a staggering 90% reduction in losses following the installation of an AI-based system.

Facial biometric systems assist security services in monitoring the store and promptly identifying any infractions. Here's how it works:

1. Cameras installed in the store capture video footage, which the system then uses to extract facial images and create biometric profiles stored in a database.
2. The system continuously cross-references real-time video data against the biometric profiles already catalogued in the database.
3. In case a customer previously involved in theft, vandalism, or similar incidents features on the "stop list", the system notifies the security service, prompting closer monitoring of the said individual.

By integrating facial biometrics with video analytics, the system can quickly detect suspicious activities and alert security personnel. The incorporation of facial biometrics helps to: significantly reduce losses from theft, robbery, and vandalism, improve the efficiency of security services, lessen the strain of manually sifting through footage from multiple cameras, minimise the potential for human error in in-store security, enhance interaction with customers by incorporating biometrics into marketing systems.

Police departments also benefit from increased crime-solving rates, while retail industry professional associations can curb recurrent thefts by sharing "stop-lists" and biometric data on criminal gangs and individual offenders.

Achieving a 3-Year Payback Period with Facial Biometrics: A Case Study from a Brazilian Shopping Center

Jockey Plaza, a shopping centre in Curitiba, Brazil, implemented a comprehensive security system featuring video analytics and facial biometrics. This modern facility, spanning 200,000 square metres, accommodates 400 stores and 28 food estab-

lishments.

The security system project was a collaboration between Francaza, a Brazilian integrator, and RecFaces, a facial biometrics solution developer. To enhance the security of the shopping centre, automate security operations, and expedite crime investigations, they chose to employ RecFaces' Id-Guard facial identification software. Id-Guard seamlessly integrates with the video surveillance and video analytics systems, offering biometric identification, real-time and retrospective face search within video streams, and stoplisting capabilities.

"The moment a person on the stop-list enters the camera's field of view, the operator is immediately notified. Based on our experience, implementation of Id-Guard saves security specialists time as they no longer have to spend hours sifting through video footage when investigating incidents", says Cristiano J.S. Maffessoni, Francaza's CIO.

According to Cristiano J S Maffessoni, the payback period for the Jockey Plaza shopping centre project is less than 3 years thanks to a 50% cut in shoplifting instances, swift resolution of crimes, and increased efficiency of security services. The return on investment for biometric systems typically spans 1 to 3 years, depending on the crime rate in the vicinity of the shopping centre. To calculate effectiveness, it is necessary to evaluate average loss per incident, the average number of similar incidents annually, and the incident reduction rate, generally fluctuating between 30% and 70%, based on the security service's efficacy.

Maria Kazhuro, RecFaces' BDM in Latin America, shares, "RecFaces has developed two lines of ready-to-use biometric solutions specifically designed for the security and retail sectors. We've seen an immense demand for our ready-made solutions in Latin America, thanks to their quick and easy deployment on any equipment. Our solutions allow customers to identify offenders, instantly respond to incidents, conduct marketing research, and foster customer loyalty."

RecFaces' Id-Guard, a biometric ready-to-use solution, stores only biometric templates - feature vectors that cannot be reconstructed into facial images - in its database. This data storage method adheres to international GDPR data protection regulations and is supplemented by AES-256 standard encryption mechanisms for critical data.

Dahua intelligent solution enhance transportation security and efficiency in Argentinian city



The city of Jesús María in Argentina has invested in a 114-camera monitoring system from Dahua, to help provide safety to residents and to support security and emergency assistance departments (e.g. firefighting, ambulance) in case of emergency.

Jesús María is a vibrant busy city located in Cordoba Province. As such, the city needed an intelligent monitoring system to improve traffic flows and help the emergency services through heavy traffic.

It must be able to ensure safe transit without obstacles and immediate arrival of the response team when needed, covering surrounding areas including hospitals, schools, banks, municipal offices, etc.

“The main challenge was to find the right solution and products so that the different municipal departments could benefit from the implementation of the monitoring centre,” said Marcos Romero of Dahua Technology in Argentina.

Marcos Romero adds, “There were some very long meetings at which all of the AI solutions were presented, including how to apply them correctly to the way the city operates, and how to correct or modify aspects so that the work of all organisations flowed successfully.”

He continues, “This ranged from cameras with traffic analysis capabilities, to existing analogue PTZ and zoom cameras, all to ensure everything worked correctly with the operational software.”

- The advanced AI cameras are in-

stalled around the city’s infrastructure and are monitored in a state-of-the-art control centre.

- Dahua equipment installed in Jesús María includes 8-port PoE switches, 4MP Lite IR varifocal bullet cameras, 2MP IR varifocal bullet cameras, 4MP ANPR cameras, Network/control/dome keyboard and joystick, 64-channel 8HDD WizMind NVRs, and 22-inch industrial-grade LCD monitors.

- The availability of Dahua’s DSS PRO video management software which provides intuitive and seamless control of the entire system was a key factor that led to the selection of the all-Dahua solution.

The creation of ‘safe corridors’ within Jesús María has resulted in several benefits for the city and its residents. It significantly improved local transportation safety, making sure that residents are secure and emergency responders will be alerted and arrive in time without delay.

“Since the implementation of the monitoring centre, work between the security departments and relevant transportation departments has improved markedly,” added Mr. Romero.

The implementation of Dahua’s intelligent solution is reported to have led to an increase in commercial activity and people in the city, as well as the improved efficiency of emergency services.

Lord’s Cricket Ground hits a boundary for sustainability with Jacksons Fencing’s pitch-perfect eco-friendly fencing solution

As the UK’s summer of cricket fever continues, Lord’s Cricket Ground, the most famous cricket venue globally, has made investments in sustainable fencing options. The aim is to ensure an environmentally conscious as well as action-packed season. With its rich history dating back to 1787, architectural significance, and unmatched glamour, Lord’s Cricket Ground has always strived to maintain its world-class facilities, while preserving its unique charm.

Over the years, the ground has undergone various developments to enhance sightlines, increase capacity, and improve accessibility, all while maintaining architectural excellence.

With a rich history of carefully planned developments, Lord’s recently embarked on a renovation project focused on enhancing sustainability and replacing deteriorated fencing.

Given the ground’s prestigious status, every development at Lord’s is executed with meticulous planning and attention to detail. Previous improvements have aimed at enhancing sightlines, reducing restricted view seats, increasing capacity, and improving accessibility.

Recognising the importance of environmental stewardship, Lord’s

products that met green requirements.

The existing fencing in front of the Thomas Lord Suite had suffered from rot and fallen into disrepair, with panels either collapsed or leaning.

The Thomas Lord Suite is a key feature of Lord’s Cricket Ground, often used for prestigious events. Its design emphasises natural light, making it crucial to balance privacy without compromising on the amount of natural light entering the suite. To address these requirements, 13.5 metres of Jacksons’ Venetian Hit and Miss fence panels were specified as the replacement for the old fencing.

These modern slatted fence panels offer elegance, privacy, and the ability to allow light through. They are widely regarded as a “luxury fence panel” and are popular among garden designers for their contemporary style and space-enhancing properties.

Given Lord’s wide and open space, wind resistance was a significant consideration for the new fencing. Hit-and-miss fencing proved to be the ideal solution as it allows wind to filter through the gaps, reducing strain on the panels and posts.

Installed by Garden Fencing London, one of Jacksons Fencing’s Approved Installers, the panels were se-



Cricket Ground has been proactive in improving its eco-credentials. From 2014 to 2017, a series of measures were implemented to enhance energy usage and make the grounds more environmentally friendly.

These included the installation of ground source heat pumps, solar panels, and ‘living’ green walls. The construction of the ground roof incorporated advanced timber technology, prioritising the use of sustainable and replaceable materials.

With sustainability as a top priority for all developments, it was essential to select a fencing company that shared the same ethos and offered

curely attached to the timber slotted posts to enhance stability and deter unauthorised access.

In line with Lord’s preference for renewable materials, Jacksons Fencing responsibly source and treat all timber used in the fencing with its unique Jakcure® preservation process. This process ensures that the timber is kiln-dried and pressure-treated, offering exceptional durability and longevity.

As a result, all timber products come with a 25-year guarantee against rot and insect attack, reducing the lifetime cost and minimising the environmental impact of used fencing going to landfill.

Aultman Hospital adds layer of safety with Evolv Technology

Evolv Technology, a leader in AI-based weapons detection security screening, today announced its partnership with Aultman Hospital in Ohio. The hospital will use Evolv's state-of-the-art Evolv Express screening solution at two high-traffic areas in the building.

Evolv Express uses powerful sensor technology with artificial intelligence (AI) to provide safer, more accurate threat detection at unprecedented volume and speed. Aultman Hospital, located in Canton, Ohio, will use two systems— one at its main entrance and another for its emergency department.

Evolv Express allows people to move through security screening without having to always open bags or empty pockets, preventing backups at entrances. The technology distinguishes between threats and most everyday items people carry. According to Aultman Hospital, within the first ten hours of installing the new systems, a number of prohibited items were found, including a gun, a taser, and knives, and nurses and staff have praised the hospital for prioritizing safety.

Aultman procured its Evolv Express systems from Johnson Controls, an Evolv distribution partner. Evolv's



"We needed a weapons detection solution that wouldn't impact people trying to get to work or to an appointment, and Evolv was the perfect answer," said Darin B. Baad, security coordinator at Aultman Hospital. "Unfortunately, hospitals are facing increased levels of violence, and we need to take steps to protect our environment without stopping and checking every person individually as they walk in."

Genetec integration also allows the technology to work seamlessly with the other security measures Aultman Hospital has in place, including security cameras and access control.

Aultman Hospital joins a number of other healthcare facilities using Evolv as they strive to create a safer environment for patients, visitors and staff and respond to the growing concern healthcare workers face when it comes to workplace violence.

3xlogic adds cost effective NVR to line-up

The new NVR-1U-8CH from 3xlogic is a feature packed but cost effective device that is ideal for small to medium sized enterprises (SMEs) operating in commercial, educational, healthcare and warehouse and distribution environments that need an NVR that is easy to install, configure, monitor and maintain.

The NVR-1U-8CH is a Linux OS based embedded power over Ethernet (PoE) 1U professional grade NVR. It has an Intel Celeron processor, which

provides superior performance, and with 64MP resolution support users can also experience high definition video. Its large 256GB solid state drive (SSD) promises effortless working and it can deliver PoE+ up to 30W for each of its eight channels, enabling full pan tilt zoom (PTZ) control. A remote management feature also allows a user to be in control from anywhere with internet access – saving time and making operations more efficient.



"The best-in-class features of the NVR-1U-8CH are powered by the Vigil 12.5 video management system (VMS)," explained Mike Poe, Director, Product Management at 3xlogic. "A powerful security server software solution that all 3xlogic Vigil applications are built upon, Vigil 12.5 has received numerous enhancements and features from the previous version including improved user control, increased performance and ONVIF-M support for analytics metadata. Furthermore, camera onboarding has been simplified and the Vigil Cloud plug-in for video streaming, retention and case management is built in."

3xlogic believes that all organisations should have access to a state-of-the-art security solution that meets their specific needs and protects their businesses. So in order to make life easier for SMEs, the company has also launched the NVR-1U-8CH Small

and Medium Business Kit (SMBK), which combines superior video surveillance with ease and affordability.

The NVR-1U-8CH SMBK features eight IP licences as standard, with the option of four or eight Visix 4MP VX-SMBK-B-IW mini-bullet or 4MP VX-SMBK-D-IW mini-dome style cameras, or a combination of each, alongside an NVR-1U-8CH. Visix cameras have a rich feature set offering convenience, aesthetic appeal and excellent performance. They are designed to be installed in a wide range of areas and climates, while dual streaming allows recording at the highest quality, while facilitating live viewing from any location. In addition, with full support for both variable bit rate and variable frame rate, each stream can be matched to available bandwidth for optimum image quality.

Konica Minolta REACT Systems adds VWD Capabilities



Konica Minolta Business Solutions U.S.A., Inc. (Konica Minolta), has announced a move to strengthen its business in the monitoring and video security solutions market through the deployment of a new Visible Weapon Detection (VWD) module within its REACT platform.

Konica Minolta boasts that its REACT platform is a comprehensive, end-to-end platform that helps organizations analyze situations and behaviors, offering advanced onsite (edge-based) real-time recognition and judgment-based AI processing. The company states the solution's smart

analytics provide effective options to defuse dangerous situations for clients through video surveillance and real-time alerts. With the REACT platform, clients can easily add other modules to their security portfolio, such as the new Visible Weapon Detection module, which leverages technology from Scylla AI, a computer vision company based in Austin, Texas.

According to the Washington Post School Shootings Database, there have been 380 school shootings since 1999 (data as of May 1, 2023). Konica Minolta points out that its VSS product development team recognized the need for a detection solution. The results of the group's efforts, the company continues, is the REACT VWD solution that is said to give K-12 schools, higher education institutions and other organizations the ability to rapidly detect a potential threat and quickly share that information with their security teams and local law enforcement.

ASFP achieves ISO 9001 certification



The Association for Specialist Fire Protection (ASFP) has achieved ISO 9001 certification, following a two-stage assessment by UKAS-accredited certification body LRQA. As part of its continuous drive for improvement, the ASFP started its ISO 9001 certification journey in late 2022.

ASFP Compliance and Quality Assurance Manager Tariq Malik worked to develop a Quality Management System (QMS) and Quality Manual in line with ISO 9001 requirements.

A stage one assessment of ASFP's systems took place in February this year. During this audit its systems were reviewed to see if the association had put in place all the requirements specified in ISO 9001. As with any new system, several gaps were identified and LRQA raised five findings for further work.

Having undertaken this work, ASFP's stage two assessment took place in May this year. As a result, it was issued with its ISO 9001 certificate in June. ASFP Managing Director Mike Ward stated: "I am delighted we have achieved this certification and would particularly like to thank Tariq for his hard work in developing

our QMS system and for guiding the Association successfully through this process.

"By achieving ISO 9001 certification, we want to demonstrate our commitment to members and customers that our products and services will always meet regulatory requirements as well as our customers' needs. "We are always striving to improve and by becoming ISO 9001 certificated, we have gained another tool that will allow us to do so in a globally-recognised way."

ISO 9001 is part of a series of standards designed for organisations looking to improve the quality of their products and services to ensure they consistently meet customer or member expectations. Specifically, ISO 9001 sets out the criteria for a quality management system and is the only standard in the family that can be certified to.

It's based on several quality management principles including a strong customer focus, the motivation and implication of top management, the process approach and continual improvement. It is designed to help ensure customers – or in ASFP's case, members – get consistent, good quality products and services.

Dräger launches Hands-Free Thermal Imaging Camera to further improve firefighter safety

Dräger has launched the UCF FireCore, a hands-free thermal imaging camera that displays live-action imagery into the Dräger FPS 7000 full face mask. This launch further strengthens Dräger's commitment to enhancing firefighter safety through robust technological innovation and development.

The UCF FireCore gives fire-

fighters continuous vision in the low-visibility, high-risk, and unfamiliar environments where emergencies often present. With IP67 certification, the UCF FireCore is resistant to water and dust, with lithium-ion batteries guaranteeing safety over long durations. The batteries can be charged easily both in the fire vehicle, and at the fire station, prior to being

deployed.

The camera can be fitted to any model, shape, or size of the helmet through a simple bracket, and is fully detachable, allowing firefighters to extend their vision in difficult-to-reach areas, and around corners, to enhance situational awareness and spot risks before they present further hazard. When mounted, the viewing angle can be fully adjusted, providing firefighters with the flexibility to adapt to emergency situations in a matter of seconds.

Near-field communication (NFC) technology enables the camera to connect to the FPS in-mask display, or transfer the UCF FireCore

of the emergency. This is achieved by holding the thermal imaging camera in close proximity to the in-mask display, before mounting on the helmet.

The release of the UCF FireCore will speed up search and rescue missions and improve firefighter orientation in the most difficult conditions: With flames, smoke, and darkness impairing vision in high-risk environments, improving situational awareness and enhancing firefighter orientation is critical if we are to protect the lives of firefighters in the most dangerous environments.

By providing thermal imaging technology inside the masks of firefighters, potential dangers can be



from one helmet to another. This helps emergency personnel to pass on life-saving technology from one task force to the other—even at the scene

spotted more easily, and it leaves both hands free to support emergency operations with greater efficiency and reduced risk.

How Fire Safety Glasses are revolutionising building protection and saving lives

Recent safety audits conducted in Delhi coaching centres and buildings have brought to light significant compromises in people's lives and well-being, emphasising the pressing need for robust fire safety measures. To enhance fire safety in buildings, the introduction of cutting-edge fire safety glasses has proved to be a transformative game-changer. These advanced glasses not only protect lives but also revolutionise the concept of building protection.

The prevalence of fire incidents is widespread, causing panic and instilling fear of the unknown. Tragically, smoke inhalation is responsible for a considerable number of fire-related deaths. Surprisingly, the majority of fatalities occur outside the room where the fire originated. These alarming statistics underscore the urgent requirement for effective fire

safety measures that can mitigate the devastating consequences of such incidents.

Fire-resistant glasses are the game-changer in modern building design for passive fire-protection due to their bespoke application characteristics. Remarkable innovations in glazing designs and product technology offer a lifeline during fire emergencies, providing occupants with crucial time to escape to safety. By incorporating the right fire-rated glasses into our fire prevention strategies, we can significantly increase the chances of saving lives and minimise the impact of fire hazards.

One of the most crucial advantages of fire safety glasses is their ability to provide a transparent view in a fire situation. In the face of a fire accident, every second counts. Fire



safety glasses can provide occupants with a precious time frame of up to 120 minutes to evacuate the premises safely. This extended period is invaluable for rescue operations and ensuring everyone's safety.

Furthermore, policymakers in India must act quickly on a fire safety policy that will ensure the safety of millions of people by implementing appropriate measures in the construction of buildings and spaces. The fire safety glasses are specifically designed to combat smoke inhalation, the leading cause of fire-related fatalities. These glasses act as a barrier, protecting wearers' eyes and preventing the inhalation of toxic smoke. By reducing the risk of smoke-related injuries and respiratory distress, fire safety glasses prove to be lifesavers in critical situations.

Fire safety glasses also contribute to the overall resilience of the build-

ing infrastructure. Constructed from durable materials, these glasses withstand high temperatures, impacts, and chemical exposure, ensuring their effectiveness in even the most challenging fire scenarios. By incorporating fire safety glasses into building plans, architects and engineers enhance the structural integrity of the premises, creating a safer environment for occupants.

A core criteria for architects, planners, and consultants for the use of fire-safety glazing is to ensure that the exact product specifications as tested in laboratory conditions are maintained during construction. The test laboratories should be internationally accredited with exact coherence to designated standards. As we continue to embrace the power of fire safety glasses, we empower ourselves to navigate fire emergencies with greater confidence.

Nittan highlights their highly in demand EVC-IR Flame Detector



As markets adapt and develop, the world has seen a recent increase in demand for Flame Detection, and in particular, the Nittan EVC-IR Flame Detector. Nittan understands the paramount importance of fire safety in any environment. That's why they proudly present their EVC-IR Flame Detector, the ultimate solution for detecting and preventing fires, before they become devastating incidents.

Engineered with the latest technology, the Nittan EVC-IR Flame Detector surpasses traditional fire detection systems with its unparalleled accuracy and reliability. The EVC-IR uses Dual Wavelength and Flicker Frequency sensing techniques for maximum false alarm reduction and sensitivity to real flaming fires.

Their advanced infrared sensing capabilities enable early detection of flame signatures, even in challenging environments with excessive background noise, dust, or other distractions.

Nittan prides on seamless integration. The Nittan EVC-IR Flame Detector effortlessly integrates with their comprehensive range of fire safety solutions, providing a robust and unified fire protection network tailored to any specific needs.

Teledyne Gas And Flame Detection Introduces SIL2-Certified GD1 Laser-Based Gas Detector

Teledyne Gas and Flame Detection are unveiling its GD1 laser-based gas detector with full SIL2 3rd party approval. This ground-breaking development means that the GD1 SIL2 is the market's first open-path gas detector for hydrogen sulfide (H₂S) safety-related applications.

The global importance of SIL (Safety Integrity Level) has grown substantially in the oil, gas, petrochemical, and other process industries over the past 10 years.

It makes sense, therefore, that devices such as gas detectors demonstrate their suitability and competence in line with the latest SIL2 third-party certification.

Teledyne GFD's innovative GD1 will prove attractive in SIL2 applications for several reasons, not the least it's a unique customized tunable laser diode that eliminates environmental effects from sun, rain, or fog. The GD1 can operate with up to 98% obscuration, boosting overall site safety.

This capability is possible because light emitted by the detector travels as a cone from one point to another, rather than as a conventional straight beam. In other words, the beam expands after transmission and is almost a meter in diameter when it reaches the receiver mounted 75m away. It can therefore penetrate harsh



The GD1 from Teledyne GFD first entered the market in 2011, with well over 1600 units deployed at oil and gas exploration and production (Onshore & Offshore) companies throughout the Middle East and the rest of the world. With its new certification, the GD1 is suitable for use in systems with SIL2 requirements.

To provide some context, a typical SIL1 ATEX-certified gas detection device/system will come complete with the functional approval according to IEC 60079-29-3 and require regular maintenance.

The step from SIL1 to SIL2 requires built-in automatic self-testing of hardware components and this means reduced maintenance intervals for sensors and reduced downtime. GD1 complies with the latest standard for IEC 60079-0:2017 (IECEX).

environments that competitor solutions may find difficult.

With its fast and fail-safe laser, the GD1 performs real-time dual automatic calibration and automatic proof testing, thus eliminating the need for manual intervention and reducing maintenance costs. Further advantages include low power consumption (15W), a very long lifespan, and a high sampling/detection rate of 8000 times per second thanks to its ultra-stable optomechanical construction.

All these added-value characteristics mean the GD1 can replace multiple standard detectors to cover the same risk, making it an economic solution that typically demonstrates real cost savings within two years.

The importance of integrated access and time management software



With OLS' integrated access control and time management software, Acre Security's ability to control the movement of staff and visitors within a building's structure is now performed at a global standard. By working closely with customers and developing their requirements, the company is now able to develop secure solutions specific to a client's business and industry.



Acre Security Gold Partner and collaborator, OLS, has a dedicated team of software and project managers who aim to deliver a bespoke solution to each customer tailoring their requirements to each project.

By integrating with time and attendance platforms, OLS delivers a secure comprehensive cloud-based access control solution, on a dynamic platform, to enhance site security, system management, and administration. This is achieved via its web-based application and by the use of an intuitive smartphone app giving complete access control and a unified video event management solution.

The interface of single-source data through integration with these systems reduces administration, enhances efficiency, and provides real-time data sharing to help ensure access is properly managed throughout

the built environment.

The leading industries that require time management solutions integrated with their access control software are predominantly manufacturing industries such as pharmaceutical, food and beverage, industrial and chemical, logistics, leisure, and multi-site occupancy organisations.

The key benefits of this integration for facilities are the significant reduction of in-house administration and duplication of data. The seamless interface offering keeps user information up-to-date while saving on costs and reducing infrastructure. The flexibility to not administer multiple

systems, access rights, and security, not reliant on non-security personnel making decisions over access around sites are key other key changes that are made with this integration to facilitate your organisation's security seamlessly.

OLS has access to a wealth of products that fit hand in hand with these solutions, including Fire Roll Call Mustering, Visitor and Contractor Management, ANPR, and the implementation of gates, turnstiles & portals to create a secure and intrinsically safe environment.

By either using a dedicated device that shares the same credential type or via APIs for seamlessly collecting data, OLS can provide accurate on-site recordings from the time management software. Multiple functionality and results can be achieved for the best customer and user experience.

RiverSafe's new research highlights that 80% of businesses claim AI is their biggest cyber threat



Four in five (80%) of cybersecurity providers claim that AI is the biggest cyber threat to their business, according to new research from RiverSafe, a pioneering cybersecurity professional services provider.

The findings were revealed in the AI Unleashed: Navigating Cyber Risks Report, a survey of 250 cybersecurity providers conducted by independent polling agency Censuswide, which detailed the rising threat of AI in cybersecurity.

The research uncovered the preparedness of organisations and their plans to improve their cyber posture to cope against AI-powered threats. It was found that 81% believe that the risks of artificial intelligence are more of a threat than the benefits it brings, suggesting that more must be done to improve confidence towards the development of AI.

Matthew Scott, Police and Crime Commissioner, Kent said: "Nearly 40% of businesses reported a cyber attack in 2022 and we know digitally-enabled crime accounts for more than half of all offences. There are clear benefits to AI but that cannot come without proper checks and balances and a legal framework to protect businesses and the economy. It is vital that government, policing, security services and business work together to boost prevention, education, and protection in what is a rapidly developing industry."

Just over three-quarters (76%) said that the implementation of AI in their business has been halted due to the cyber risk it poses, while 14% do not feel confident in their organisation's ability to protect against AI-driven cyber-attacks, requiring the

evolution of cyber defences to adapt.

Suid Adeyanju, CEO at RiverSafe, said: "AI has taken over in recent months, forcing governments, regulators and businesses to rapidly develop responses to inbound AI threats, adding additional pressure to security teams. AI-enabled attacks themselves are still evolving which requires businesses to constantly review and update their cybersecurity measures to ensure that they are sufficiently protected."

He adds, "Moving forward, security teams must ensure the safe development of AI for their organisation while maintaining their security posture for the evolving threat that AI poses. Balancing these two aspects is key to unlocking the potential of AI as a positive business tool." Worryingly, under half of businesses (45%) said they have a system in place to review security risks posed by immediate suppliers, indicating heightened threats within the supply chain posed by the emerging threat of AI.

Oseloka Obiora, CTO at RiverSafe commented: "Innovation is a core goal for the UK and becoming a provider in the development of emerging technologies such as AI is important. Government and industry should embrace the benefits that AI brings, but this must be balanced out by mitigating the risks."

He adds, "It is especially concerning to see the lack of visibility that many businesses have over their supply chain, presenting unmonitored entry points for threat actors. This is an area that security teams must address to better protect themselves and their customers, particularly given the added fears that AI-powered threats pose."

Sophos reveals the education sector had the highest rate of ransomware attacks

Sophos, a global pioneer in innovating and delivering cybersecurity as a service, released a new sectoral survey report, “The State of Ransomware in Education 2023,” which found that education reported the highest rate of ransomware attacks in 2022.

Over the past year, 79% of higher educational organisations surveyed reported being hit by ransomware, while 80% of lower educational organisations surveyed were targeted, an increase from 64% and 56% in 2021, respectively.

Additionally, the sector reported one of the highest rates of ransom payment with more than half (56%) of higher educational organisations paying and nearly half (47%) of lower educational organisations paying the ransom. However, paying the ransom significantly increased recovery costs for both higher and lower educational organisations.

Recovery costs (excluding any ransoms paid) for higher educational organisations that paid the ransom were \$1.31 million when paying the ransom versus \$980,000 when using backups. For lower educational organisations, the average recovery costs were \$2.18 million when paying the ransom versus \$1.37 million when not paying.

Paying the ransom also lengthened recovery times for victims. For higher educational organisations, 79% of those that used backups recovered within a month, while only 63% of those that paid the ransom recovered within the same timeframe. For lower educational organisations, 63% of those that used backups recovered within a month versus just 59% of those that paid the ransom.

“While most schools are not cash-rich, they are very highly visible targets with immediate widespread impact in their communities. The pressure to keep the doors open and respond to calls from parents to ‘do something’ likely leads to pressure to solve the problem as quickly as possible without regard for cost.”

“Unfortunately, the data doesn’t support that paying ransoms resolves these attacks more quickly, but it is likely a factor in victim selection for the criminals,” said Chester Wisniewski, field CTO, of Sophos. For the education sector, the root causes of ransomware attacks were similar to those across all sectors.

There was a significantly greater

number of ransomware attacks involving compromised credentials for both higher and lower educational organisations (37% and 36% respectively versus 29% for the cross-sector average).

Additional key findings from the report include:

- Exploits and compromised credentials accounted for more than three-fourths (77%) of ransomware attacks against higher educational organisations; these root causes accounted for more than two-thirds (65%) of attacks against lower educational organisations.

- The rate of encryption stayed about the same for higher educational organisations (74% in 2021 versus 73% in 2022), but increased from 72% to 81% across lower educational organisations during the past year.

- Higher educational organisations reported a lower rate of using backups than the cross-sector average (63% versus 70%). This is the third lowest rate of backup use across all sectors. Lower educational organisations, on the other hand, had a slightly higher rate of using backups than the global average (73%).

“Abuse of stolen credentials is common across sectors for ransomware criminals, but the lack of adoption of multifactor authentication (MFA) technology in the education sector makes them even more at risk of this method of compromise.”

“Like the U.S. federal government’s initiative to mandate all agencies use MFA, it is time for schools of all sizes to employ MFA for faculty, staff, and students. It sets a good example and is a simple way to avoid many of these attacks from getting in the door,” said Wisniewski.

Sophos recommends the following best practices to help defend against ransomware and other cyberattacks:

- 1) Strengthen defensive shields with:

Security tools that defend against the most common attack vectors, including endpoint protection with strong anti-exploit capabilities to prevent exploitation of vulnerabilities, and Zero Trust Network Access (ZTNA) to thwart the abuse of compromised credentials.

Adaptive technologies that respond automatically to attacks, dis-

rupt adversaries and buy defenders time to respond.

- 24/7 threat detection, investigation and response, whether delivered in-house or by a specialist Managed Detection and Response (MDR) provider.

- 2) Optimise attack preparation, including making regular backups, practising recovering data from backups, and maintaining an up-to-date incident response plan.

- 3) Maintain good security hygiene, including timely patching and

regularly reviewing security tool configurations.

The State of Ransomware 2023 survey polled 3,000 IT/cybersecurity pioneers in organisations with between 100 and 5,000 employees, including 400 from the education sector, across 14 countries in the Americas, EMEA, and Asia Pacific. This includes 200 from lower education (up to 18 years) and 200 from higher education (above 18 years) and both public and private sector education providers.

Maximising efficiency and security in electrical substations

Electrical substations create a critical midpoint in power transmission and distribution systems, playing a key role in keeping power systems safe and reliable. Similar to other industries, the power industry is currently undergoing a massive digital transformation, and substation management is moving toward automation and intelligence.

How to maximise efficiency as well as maintain security for sites and staff are the paramount concerns for substations as they update and upgrade their video security systems.

To address these concerns and to boost automation and intelligence in electrical substation management, Hikvision has created an offering of highly effective solutions. These solutions combine smart video technologies, including high-resolution cameras, thermal imaging capabilities, and AI to provide reliable security protections while enabling efficient operations and timely maintenance for substations. Here we can take a closer look at a summary of how they work.

Powered by AI analytics and cutting-edge products, the solutions can be deployed to monitor critical assets and equipment status at substation sites, keeping operations and maintenance running smoothly and efficiently.

A set of positioning, PTZ, and covert network cameras installed at energy substations deliver panoramic and detailed imaging of critical assets, such as transformers, isolating switches, and control panels, providing real-time status updates, and verifying if they are running correctly.

Infrared thermography is a key technology for electrical equipment inspection. Hikvision’s thermal cameras are effectively designed to detect whether equipment at substations is

functioning normally and whether operating temperatures are within safe limits.

AI powered video imaging systems enable intelligent inspections, enhancing safety and efficiency in substations. This intelligent approach allows for online planning, real-time response, and remote checks, reducing time and labour costs while providing ‘round-the-clock’ coverage.

Hikvision offers smart cameras, radar units, and other advanced tools for substation safety management. Real-time detections and quick alerts from the video security system enable fast incident response and serve to reduce risks and costs. These products also help protect the well-being of employees. Hikvision helps ensure all-around protection for substation perimeters and critical areas, 24/7, alerting staff to potential security breaches.

Access to workplace areas can be restricted to authorised employees or contractors by installing swing barriers with built-in access controllers or facial recognition terminals, minimising loss and other hazards.

Theremote PPE detection employs AI-powered video imaging to verify whether helmets and other protective gear are in use. This helps improve safety of staff and increases compliance with industry regulations.

With the Hikcentral management platform, Hikvision’s solution features an all-inclusive dashboard for intuitive and visualised data presentation. The dashboard equips operations teams with a panoramic view and key analytics, displaying on-going site operations and real-time inspection status with detailed information and data indexing. This facilitates better decision-making and enhances operational efficiency.

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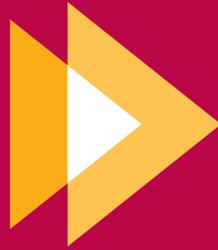
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<http://www.iafc.org/fri>

INDIA
24-26 August 2023
FSIE 2023
Jio World Convention Centre Mumbai
India
www.fsie.in

USA
11-13 September 2023
Global Security Exchange (GSX) Kay Bailey Hutchison Convention Center in Dallas
Texas
USA
<https://www.gsx.org/>

UK
12-15 September 2023
DSEI 2023
ExCeL London
London
United Kingdom
<https://www.dsei.co.uk/>

UK
26-27 September 2023
International Security Expo 2023 OLYMPIA
London United Kingdom
<https://www.internationalsecurityexpo.com/>

SAUDI ARABIA
03-05 October 2023
Intersec Saudi Arabia
Jeddah Center for Forums & Events
Riyadh Saudi Arabia
<https://intersec-ksa.ae.messefrankfurt.com/ksa/en.html>

UK
12 October 2023
Consec 2023
Twickenham Stadium
Twickenham
United Kingdom
<https://www.securityconsultants.org.uk/events/consec>

CANADA
25-26 October 2023
Security Canada Central
Toronto Congress Centre
Toronto
Canada
<https://securitycanada.com/attend/central/>

EGYPT
29-31 October 2023
Egypt International Exhibition Centre
Egypt
<https://www.egypt-energy.com/en/home.html>

INDIA
02 November 2023
SECURITY TODAY Knowledge Summit 2023
Shangri-La Eros,
New Delhi India
<https://securitytoday.in/knowledgesummit/>

USA
14-16 November 2023
ISC East
Javits Center,
NYC
<https://www.discoverisc.com/east/en-us.html>

SINGAPORE
15-17 November 2023
Fire & Disaster Asia 2023
Marina Bay Sands,
Singapore
<https://architecturebuildingservices.com.sg/events/firedisasterasia/>

RUSSIA
28-30 November 2023
Sfitex 2023
ExpoForum Convention and Exhibition Centre, Russian Federation,
Saint Petersburg Russia
<https://www.clocate.com/conference/Sfitex-2019/15316/>

INDIA
07-09 December 2023
IFSEC India
Pragati Maidan,
New Delhi
India
<https://ifsecindia.com>

BANGLADESH
07-09 December 2023
6th International Safety & Security Expo Bangladesh 2023
International Convention City
Bashundhara, Dhaka Bangladesh
<https://www.cems-safetysecurity.com/>

DUBAI
16-18 January 2024
Intersec 2024
Dubai International Convention & Exhibition Centre
Dubai UAE
<https://intersec.ae.messefrankfurt.com/dubai/en.html>

INDIA
PACC 2024
February 22-25, 2024
ITC Royal Bengal
Kolkata
India
<https://fsai.in/>

KOREA
20-22 March 2024
Secon 2024
Korea International Exhibition Centre - Kintex
Seoul Korea
<http://www.seconexpo.com/2020/eng/main.asp>

RUSSIA
16-18 April 2024
Securika Moscow 2024
Crocus Expo International Exhibition Centre
Moscow Russia
<https://securika-moscow.ru/Home?culture=en-GB>

SOUTH AFRICA
28-30 May 2024
Securex South Africa
Gallagher Convention Centre
Midrand
South Africa
<https://securex.co.za/>

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