AI-powered security: The future of surveillance in India

In today's fast-evolving technological world, a revolution is unfolding within India's security sector. With a population exceeding one billion, the need for safety and surveillance across sectors such as public spaces, critical infrastructure, law enforcement, and private businesses is critical. The incorporation of AI-driven security systems is reshaping India's surveillance landscape.

Traditionally, India's surveillance relied on human resources. Under-equipped and inadequately supervised security personnel conducted patrols and monitored CCTV systems, constrained by human limitations such as attention span and response time.

The private security industry in India faces significant challenges, including a shortage of qualified personnel and the need to keep up with evolving technology. Criminals continuously refine their tactics, necessitating enhancements in security measures, which often pose a financial burden for enterprises.

In India, accessibility and inclusivity are significant hurdles in the private security landscape. Socioeconomic disparities mean only a privileged fraction can afford comprehensive security services, leaving the majority exposed to vulnerabilities. As the nation modernises, there's an urgent call for inclusivity, ensuring safety is accessible to all.

The infusion of artificial intelligence into India's security mechanisms heralds a transformative era. With AI, systems can swiftly analyse vast data sets, instantly pinpointing potential threats. This efficiency is evident in advanced facial recognition tools that can scan large crowds, identifying individuals of interest or detecting unusual behaviours.

Predictive analytics enables security frameworks to anticipate potential breaches, fostering a proactive approach. These advancements benefit everyday households in India as well. AI-enhanced home surveillance can discern between familiar faces and potential intruders, alerting owners immediately.

Key aspects of AI-powered security that are shaping the industry's future include:

Advanced Surveillance: AI-driven smart cameras enable real-time object recognition, behaviour analysis, and anomaly detection. Security sys-

Dear Reader

With the advent of artificial intelligence and automation, there has been a growing reliance on security automation technology in various fields, including cybersecurity, law enforcement, and border control. These technologies promise enhanced efficiency, rapid data processing, and the ability to handle vast amounts of information. However, as we increasingly turn to AI-driven security solutions, there is a risk of overlooking the irreplaceable value of a trained human being in security and safety operations.

One of the key aspects of security automation technology is its ability to process data at speeds and volumes that humans simply cannot match. AI algorithms can sift through enormous datasets in a matter of seconds, identify patterns, anomalies, and potential threats, and even respond to security incidents in real-time. This capability is a tremendous advantage, particularly in the realm of cybersecurity, where cyber threats are constantly evolving and require rapid detection and mitigation.

While the speed and efficiency of AI are undeniable, the utility of a trained human being should not be discounted or ignored. There are several crucial aspects in which human involvement remains essential in security such as in critical decision making. AI can provide data and insights, but the final decisions regarding security actions often require a human touch. Humans bring contextual understanding, ethical considerations, and the ability to make judgement calls that consider broader implications.

The other crucial aspect of human involvement is where ethical and legal considerations are to be made. Security operations often involve ethical and legal nuances. Human agents can weigh these factors and make choices that align with societal values and legal requirements.

Trained humans, especially where communication and negotiations are involved, cannot be dispensed with. Hostage situations and border control are just two examples.

Furthermore, there is the issue of bias and limitations in AI. AI systems are only as good as the data they are trained on, and they can inherit biases present in that data. This raises ethical concerns, especially when applied in areas like law enforcement, where fairness and accountability are paramount.

While the combination of AI and human expertise has the potential to be a formidable security force, there must be a balance. Over-reliance on technology, without understanding its limitations, can lead to vulnerabilities that adversaries may exploit. A well-trained human workforce should be at the forefront of security efforts, utilising AI and automation as supportive tools.

This aspect was highlighted in the recent breach of Israel's "Iron Wall" by the Hamas led invaders, where excessive reliance on technology was done, ignoring the adequate presence of trained human soldiers on the border.

In addition, the role of humans in overseeing, auditing, and maintaining AI systems is crucial. Human oversight is necessary to ensure that AI is used responsibly, ethically, and within legal boundaries. This is particularly important when AI is employed in contexts where life, liberty, and security are at stake.

While security automation technology and AI have the capacity to significantly enhance security efforts, the utility of a trained human being is by no means obsolete. In fact, it is more critical than ever. Ignoring the human element in the pursuit of automation could lead to unforeseen consequences and vulnerabilities in the ever-evolving landscape of security and safety.

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

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Aiphone AC-2DM-B PoE Two-Door Controller

Aiphone, an international manufacturer of intercom, access control, and emergency communication products, introduces a PoE two-door controller, a recent addition to its recently launched AC Series access control portfolio.

Simple to install above interior doorways, the AC-2DM-B controls and unlocks the door it is mounted near, including another door within 500 feet. It can store up to 100,000 user credentials locally and up to 50,000 events.

To enhance security, an integrated infrared motion sensor can be used to allow immediate egress. An on-board LCD status screen clearly shows users if access is granted (green) or denied (red).

The two-door controller includes two Wiegand inputs, two outputs available with integrated power, and two solid state dry contact relay outputs. Another four additional inputs are also available. This enables the two-door controller to support various door control capabilities, such as exit buttons and door openers.

This system can also grow as a customer's needs evolve, giving them ultimate flexibility with their access control system. Installation is incredibly easy too, as the AC-2DM units can use the same PoE run as the intercom and strike power.

The AC-2DM-B is both NDAA and TAA compliant, along with UL 294 and ULC 5319-05 compliant. It is available in black; the AC-2DM-W is available in the colour, white.

ISS unveils new analytic detectors with release of SecurOS® 11.6

ISS (Intelligent Security Systems), a global provider of video intelligence and data awareness solutions, announced the launch of three new analytic detectors – Fallen Person, Fighting and Fare Evasion – with the release of SecurOS® 11.6, the latest version of the renowned Video Intelligence Platform enables end users to manage video search and archiving alongside AI-powered video analytics in a single user interface.

Here is a brief overview of each new detector, along with other important updates in SecurOS® 11.6.

SecurOS® Fallen Person Detector

Historically, slip-and-falls have presented significant risks for businesses of all sizes. Whether it is a customer falling on a substance in a retail store or a worker slipping and injuring themselves in a factory, these incidents are not only costly from the standpoint of potential litigation but also in lost productivity.

In fact, according to data compiled by the National Council on Compensation Insurance, lost-time workers' compensation claims averaged just over $48,000 from 2019 to 2020. The SecurOS® Fallen Person Detector recognises lying or fallen people and informs an organisation's response personnel.

By analysing each video frame, the detector, with the help of neural network training, tracks people whose body position is horizontal or close to horizontal and continues to remain so for a certain period of time (the interval is configurable). If such people are detected, the detector will send an appropriate notification to the Event protocol.

The operator then can pull up corresponding video footage in the archive (the person lying will be highlighted with a colour frame on the video), determine the incident location, and decide on further actions. Beyond identifying slip-and-falls, the detector is also ideal for helping those who have lost consciousness or may be deliberately lying down in places where it is prohibited.

SecurOS® Fighting Detector

As the name implies, the SecurOS® Fighting Detector can deter-mine people engaged in combat by identifying active human movements with a person's hands and legs. Across the entire area of the video frame, there is a search for people performing active actions with hands and legs.

If such people are found, the algorithm determines the probability of the "fight" process from 0 to 1 ("0"-no fight definitely; "1"-there is a fight definitely). If the received value is higher than the certainty threshold specified in the settings, the event, "fight is started," is generated.

The primary data about the detected incident is then forwarded to the operator/dispatcher and, if required, this person can communicate with security personnel to resolve the conflict. The event ticket consists of the incident ID; date and time of the incident starting and finishing; incident duration; place of the incident; the link to the relevant video fragment; and, service data (camera ID, etc.).

SecurOS® Fare Evasion Detector

Designed for transit environments, the SecurOS® Fare Evasion Detector identifies people who try to obtain access to subways or bus stations by jumping over a turnstile, crawling under it, or passing between the blocking bar and the turnstile stand. The module is based on Neural Network technology and detects fare evasion at turnstiles and gates in a number of complex scenes and scenarios (outlined below).

The algorithm for Fare Evasion at turnstiles:

• Detects and tracks a person in the scene.

• Knows if a person is entering or exiting through the turnstile/gate.

• Analyses a person's movements based on points throughout their body.

• Interprets what normal and abnormal movement is through the turnstiles and gates.

• Counts all people going through turnstiles/gates.

In addition to these three new analytics modules, the SecurOS® Unifier solution, which provides end users with real-time centralised monitoring and automated incident management, has also received a major upgrade as part of the 11.6 release.

Bosch adds new control device to Praesensa line up

Bosch has launched the latest addition to the Praesensa public address and voice alarm system: the PRA-SCS Small System Controller. This cost-effective option allows for optimisation of Praesensa system components to meet specific project needs, improving operational efficiency and reducing overall system cost.

Particularly suited for mid-sized applications, the PRA-SCS Small System Controller offers system integrators, installers and consultants more options for designing a tailored, value-oriented Praesensa public address and voice alarm solution across a wide range of installation sectors, such as hospitality, education, retail stores and commercial buildings, to deliver high-quality announcements and background music via an intuitive control interface – a combination that leads to excellent performance and a great user experience.

The PRA-SCS Small System Controller oversees all system-related functions within an IP-based Praesensa system, including the rout-

PRA-SCL, the PRA-SCS Small System Controller delivers multi-channel audio and provides an easy-to-use browser-based control interface.

DC-powered from a multifunction power supply with an integrated battery backup, the controller fits both centralised and decentralised system topologies. System communication is based on Omneo IP architecture over an encrypted IP network, ensuring robust operation and security.

Connections to other system devices are established via the built-in 5-port switch, which supports the Rapid Spanning Tree Protocol (RSTP) for redundant network configurations and has an open interface for third-party applications. PRA-SCS can function as a single system controller, as part of a redundant system controller concept for uninterrupted system availability, or even as subsystem controller in a multi-subnet system.

The PRA-SCS is equipped with most of the powerful features as its larger counterpart but at a lower price point, making it particularly suitable

ing of all audio connections between network-connected Praesensa audio sources and destinations. It handles calls, emergency alerts, collects device status information, and generates fault reports.

Furthermore, it also plays back messages and tones stored on its flash memory and manages background music streams, business calls, and emergency calls based on priority level and zone occupancy. Equipped with an internal real-time clock, the controller can schedule events and features event time stamping, with support for Network Time Protocol (NTP) and automatic adjustment for Daylight Saving Time (DST).

Like its larger counterpart, the

for small to medium-sized installations due to two restrictions. It can assign a maximum of six amplifiers for up to 48 zones when used with the PRA-AD608 amplifiers. Although it supports the same eight external Dante/AES67 input/output channels, including encryption and decryption, it does not offer the additional 112 static Dante input channels that are available for the larger controller.

The PRA-SCS Small System Controller becomes a compelling choice in scenarios where these constraints don't play into the project requirements. By integrating the PRA-SCS into a Praesensa system, users obtain a slightly streamlined solution which can lead to lower costs.

DoorBird Contact-Free Call Button Module

DoorBird launches another innovation: The new contact-free call button module enables doors to be opened without having to touch them. This technology was developed to promote safe, simple, and aseptic use, and not just in public areas. Ringing the doorbell by waving is the perfect solution for any building with a high level of foot traffic. Depending on the configuration, a gesture in front of the door intercom system can either ring the doorbell or open the door instantaneously.

A germ-free environment is critically important in public facilities such as hospitals, medical practices, and nursing homes to limit and prevent health risks for people. An IP video door station with a contact-free call button module can be useful in such

places. Visitors can intuitively ring the doorbell by making a simple hand gesture and are also given direct visual feedback from the module.

The intelligent motion sensor detects both hand movements as well as a hand coming within 10 cm (4 inch) of the module. This also allows you to ring the doorbell even when holding a package in your hand, for instance. Like a classic DoorBird call button, the module performs actions that can be freely configured on all DoorBird door stations, such as sending out a call signal as a push notification, triggering a relay or HTTP(S) command, or starting a SIP call.

The contact-free call button module is compatible with DoorBird D21x series' IP video door stations and is available to order now. The scope of delivery includes the sensor panel cover with information provided in English.

RecFaces Introduces Id-Time Biometric Software for Accurate Time Tracking

RecFaces presents **Id-Time**, a biometric software solution that enables precise and reliable time tracking for enterprises with access control or open access systems. The system is quickly deployed on customer servers, seamlessly integrating with ERP, CRM, WFM, and HR systems while adhering to GDPR privacy protection standards.

Id-Time uses facial recognition as a unique and non-transferable identifier, even taking into account masks, beards, and glasses through Liveness checks. **Identification takes less than a second**, and the system can also verify necessary documents, such as QR codes and medical certificates.

Arrival and departure times are tracked effortlessly using IP cameras or tablets at entry and exit points. Id-Time's advantage lies in its ease of use for organizations with open access, where turnstile installation may not be feasible. Additional cameras and tablets can monitor employee movements throughout the workday.

The system generates comprehensive reports on attendance, lateness, system compromise attempts, daily absences, and exceeding entry/exit limits. Reports are easily exported in XLSX or CSV formats, available to be shared via email, or integrated into external systems. **Id-Time** supports customizable fields and manual/scheduled synchronization with external systems.

For real-time incident response, operators can receive personalized or group notifications via email, SMS, or on-screen alerts.

Id-Time's compatibility with a wide range of devices reduces system ownership costs. The user-friendly tools enable quick profile creation and data export to external systems. An API facilitates seamless integration with third-party systems, complemented by a free 3-month demo period.

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Dahua Technology's 2MP full-colour HDCVI fixed-focal PT camera

The Lite Series from Dahua Technology is a great choice for consumers looking for high quality monitoring products at a reasonable price. Its low cost and high performance makes it ideal for residential areas and SMB solutions. This series is equipped with a wide range of technologies, such as full-colour and starlight, providing various solutions for different scenarios.

With its advanced image processing algorithm and capability to absorb large quantities of light, the camera provides 24/7 colour monitoring that collects clear and highly detailed information, significantly increasing the reliability of the human and vehicle images that are collected as evidence for intelligent analysis.

Automatically adjusts the intensity of the brightness and exposure for the left and right areas in the video based on the proportion and position of the targets to reveal more details in the image.

Developed with a PT design, it has a dual shaft and dual motor. The motor can control the pan range from 0° to 355° and the tilt range from 0° to 90°, covering all the corners without any dead angles. This extends the monitoring area.

With its advanced Wide Dynamic Range technology (WDR), the camera captures highly detailed images and produces high-definition recordings in high-contrast lighting conditions, and in scenes with backlighting or shadows. Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

In dark environments, the camera produces vivid images in rich colour through its warm LED lights. With its smart light mode setting, it automatically adjusts its exposure time and light sensitivity to avoid the overexposure of objects in the centre of the image. HDCVI PT camera comes with a quick-to-install design, which makes it easier to install than conventional camera and reduces cost on time and labour.

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images. HDCVI technology supports 4 signals (video, audio*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

Eagle Eye Networks delivers large camera count bridges

Eagle Eye Networks, the global pioneer in cloud video surveillance launched two new Bridges, models 901 and 701, that can connect up to 300 cameras to the cloud.

These Bridges are suitable for cus-

tomers with sophisticated networks who need large camera deployments at a single location. The Eagle Eye Bridge connects the customer's existing or newly installed cameras to the Eagle Eye Cloud providing them with a full SAAS service for video surveillance.

Equipped with powerful processing, the 901 and 701 Bridges can perform video analytics, AI, and LPR (licence plate recognition). The new

Bridges dramatically reduce the number of components required for large deployments, with the 901 supporting up to 300 4MP IP cameras and 10 LPR streams, and the 701 supporting

up to 150 4MP IP cameras and 10 LPR streams. Designed for simple installation and reliability, the new Bridges are 1U rack mounts.

Hanwha Vision launches new corner mount camera with AI

Hanwha Vision, the global vision solution provider, has launched the TNV-C7013RC corner mount camera with AI, for fewer false alarms and more efficient forensic search.

Designed specifically for correctional facilities and mental health settings with an anti-ligature casing, the camera is one of the latest in Hanwha Vision's expansion of AI cameras.

Enabling operators to monitor settings 24/7, the addition of AI improves accuracy and reduces false alarms, only alerting operators to events that do require their attention and action. AI allows for greater efficiency when searching video playback for an event or object/person of interest by distinguishing objects from their surroundings. Objects are detected and classified in real-time. The camera can additionally detect clothing colour if needed, for instance, the colour of inmates' overalls.

To improve safety and control access, the TNV-C7013RC can also establish virtual areas that trigger events when an object is detected within the defined area. A similar alert can be shared for line crossing. As well as alerting operators to potential trespassing, this feature can also detect loitering and intrusion.

Newly added Boolean logic rules can make event triggers more effective by grouping them to issue an alert when a specific set of (up to 3) events are detected; for example, an object

(person) is identified and enters a specific area, but alarms are not sounded until they cross a line within the area.

With WiseNRII and Prefer Shutter control, the TNV-C7013RC decreases noise and blur around detected objects. By re-adjusting the Prefer Shutter value to an optimal level, the motion blur of fast-moving objects can be reduced. Simultaneously, extreme WDR uses multi-frame scene analysis technology to provide clear images even in environments with strong backlight conditions.

The TNV-C7013RC is equipped with the Wisenet7 SoC that further improves image quality during the day and night. It delivers forensic-level image quality and enhanced low-light performance at 4K and 6MP@30fps and 2MP@120fps.

Alongside the new AI features, the TNV-C7013RC has a host of enhancements that improve the camera's daily operations and ability to fit into the background of environments.

These include 940nm IR that is invisible to human eyes, minimising unnecessary distress to patients and inmates. The camera also has a 128o x 100o FoV to cover all areas of a square room.

The TNV-C7013RC comes with end-to-end cybersecurity that securely stores key information and preempts hacking risks with unauthorised access blocking. It is also FIPS 140-2 level 2 certified.

Maximize site security 24x7 with Hikvision DarkFighterS and DarkFighterX

Security incidents don't just happen during daylight hours. To ensure that organizations can protect their sites, assets, and people 24x7, Hikvision has created a new generation of ultra-low-light video imaging technologies: DarkFighterS and DarkFighterX.

Organizations need to ensure that their sites, assets and people are secured and protected 24 hours a day, 365 days a year. This requires security technologies that can safeguard perimeter walls and fences and provide crystal-clear, full-color video images of security incidents, even in poorly lit areas, or at night. To give companies this high-level of protection at industrial sites, logistics parks, ports and airports, and in a range of other settings, Hikvision has developed two innovative technologies, DarkFighterS and DarkFighterX.

1. DarkFighterS: maximizing security with 'smart' lighting options

Hikvision's DarkFighterS cameras use three key technology innovations to improve security in low-light conditions. These features all start with 'S', which is why the technology is called DarkFighterS. They are:

Hikvision's Surprising Low-Light Imaging, which is able to collect more light to produce brighter images, and which uses F1.0 fixed lens and advanced sensors to vastly increase vividness and clarity in ultra-low light conditions.

Hikvision's innovative, industry-leading Super Confocal Lenses, which are designed with precision at the micron level. This means that the point of focus for the visual-light images and the infrared images is virtually the same, which not only prevents blurring of the images, but also allows for master-level focus and long lasting, high-definition images.

Hikvision's Smart Hybrid Light technology, which allows the camera to record in IR while everything is quiet. However, when an incident happens, the camera's 'Smart' mode turns on a supplemental white light and initiates recording in full-color using the visible light spectrum. This ability has

a number of important benefits. First, cameras are able to maintain infrared illumination at night, and record video discreetly in low-light conditions, without giving away the camera's location.

Second, the cameras often startle intruders and stop them in their tracks when the supplemental white light comes on, helping to prevent loss or damage to property. Third, all incidents are recorded in full color and full detail due to the camera's supplemental white light being activated automatically.

Examples of Hikvision DarkFighterS products include DarkFighterS DeepinView Moto Varifocal Bullet Cameras, 4 MP Varifocal dome camera with DarkFighter, and 4 MP Varifocal bullet cameras with DarkFighter. These cameras are ideal for scenarios and applications such as enterprise premises and industrial parks, especially for the place where little or no movement is expected at night and where discretion is needed to ensure that intruders do not know where security cameras are located.

2. DarkFighterX - enabling sharp, full-color imaging for large sites, areas and scenarios in near-total darkness

For large areas and applications, DarkFighterX technology provides Hikvision's most powerful night-vision capabilities. In particular, this ultra-low-light technology supports full-color, crystal-clear video imaging down to just 0.0002 lux.

Hikvision cameras equipped with DarkFighterX technology use a large aperture lens and dual sensors to capture and combine visible-light video images and images based on infrared perception. By combining data from the two sensors using a technology called Bi-Spectral Fusion, these cameras are able to capture full-color, high-definition images – and even the plates of vehicles traveling at speed, in conditions of near-total darkness.

Because DarkFighterX is built into 2, 4, and 8-megapixel Hikvision Speed Dome cameras and DeepinView multi-sensor bullet cameras, organizations benefit from a wide range of other

security features at the same time, including optical zoom, rapid focus, and the ability to follow moving people or objects around the camera's field of view. This makes them ideal for a range of large scenarios and applications, such as traffic management and enforcement, and security in expansive areas such as city squares, streets, farms, and many more.

Hikvision has introduced multiple low-light technologies to help customers capture full-color, high-resolution video in near-total darkness. Alongside DarkFighterS and DarkFighterX, Hikvision also offers ColorVu for small and medium business customers.

Ultimate Visual Solutions (UVS) expands the number of integrations to its Lucidity video wall controller

Visual display experts - Ultimate Visual Solutions (UVS) have expanded the number of integrations to its Lucidity video wall controller, thereby helping to improve overall security control room operation.

Elgato Stream Deck programmable keyboards and Keyboard Video Mouse (KVM) over IP systems are the latest integration solutions to be offered to clients. They are designed to reduce the number of applications that a control room operator needs to have available and to help simplify the overall security operation.

The enhanced service follows a rise in requests to integrate different third-party solutions to the UVS Lucidity video wall controller platform. It comes in addition to Lucidity's existing integrations to security Video Management Systems (VMS), including cloud-based CCTV applications.

The Stream Deck integration provides a low-cost operator keypad used for fast launching of preset video wall layouts, and each operator can have their own keypad with their own unique preset layouts.

The KVM integration allows operators to display multiple workstations on the video wall from the KVM network and to select which workstations are viewed from within the Lucidity graphical user interface (GUI), greatly simplifying control for the operators.

I-Pro releases 24 new compact dome cameras

I-Pro Co. Ltd., has just released 24 new compact dome camera models. The new models offer wider scene coverage, vandal resistance, powerful edge-based AI analytics, and flexible deployment options for every budget.

Available in 2MP and 4MP resolutions, the efficient designs deliver what the company boasts to be the smallest compact domes and with the highest cyber security protection available. Small in size but big in capabilities, both X and S series models support up to two AI analytic apps, providing the industry's widest range of analytics. As with all I-Pro cameras, the new line of compact domes is fully NDAA compliant, with TAA compliant versions also available.

The new line of compact domes extends the wide-angle lens to enable monitoring of a large area without blind spots, delivering a horizontal and vertical field of view up to 132°

-- the widest in the industry. Advanced video analysis with access to AI VMD (video motion detection) and I-Pro Active Guard capabilities ensure popular VMSs such as Genetec, Milestone, and I-Pro's VMS Video Insight receive the AI generated descriptive metadata needed for deep forensic search or real-time alerts. Built-in IR extends low light performance, ensuring detailed image capture even in the dark. A built-in microphone supports sound recording and audio analytics.

"This new line of compact dome cameras is designed with versatility in mind," said Bill Brennan, President, I-Pro Americas. "Our goal is to offer a range of solutions at every price point with features to suit the unique requirements of any project. Customers are increasingly looking for less obtrusive camera designs and I-Pro has delivered the smallest domes without sacrificing advanced AI features and cyber security."

Dahua Technology helps secure the longest carnival in the world - Carnaval del País

Located in the city of Gualeguaychú in Argentina, Carnaval del País is a festive season that runs for two whole months, holding the world record as the longest carnival in the world.

It is full of lively events featuring energetic samba dancers dressed in sequins and feathers as well as parades of colourful and beautifully crafted floats. To accommodate the event, the city built its own Sambadrome called the Corsódromo, the first of its kind in Argentina. It has an extension of 500 metres long and a track width of 10 useful metres, which can hold up to 38,000 spectators.

Implementing an outdoor video monitoring solution that can cover a capacity of 38,000 people was a massive challenge and not an easy task for the entire team.

The client required a surveillance system that can monitor the crowd's security; from the moment they enter the stadium, watch and enjoy the show, until they leave the premises. Recorded video footage must also be readily available for further analysis in case of an incident.

The team deployed several types of Dahua cameras around Corsódromo to monitor the situation during the carnival. A dozen 4MP IR Vari-focal Bullet WizMind Network Cameras (IPC-HFW5442H-ZHE) were deployed to cover various areas of the venue.

Aside from providing clear and vivid images, this intelligent camera is also equipped with deep learning algorithms that enable intelligent functions such as video metadata, smart object detection, people counting, and more. It has an IP67 waterproof rating and an IK10 vandal-proof rat-

ing, making it durable and reliable for outdoor applications.

Other cameras installed include 4MP 32x Starlight IR WizSense Network PTZ Cameras (SD-5A432XB-HNR), 2MP 33x Starlight+Laser WizMind Network PTZ Camera (DH-SD6AL233XA-HNR), and Integrated Solar Monitoring System (DH-SD6C3432XB-HNR-AGQ-PV).

After each show, the situation at the entrance is also analysed through the recorded footage (via NVR5216-8P-I/L) to reduce waiting/queuing time in the future. It also helps in deploying security personnel in the right location to avoid unauthorised entry, theft, or any misdemeanour. What's more, cameras with integrated alarm systems were strategically installed in crucial zones and were supervised by dedicated personnel regularly.

All cameras are checked one day before each event to ensure their optimal condition and performance during the event. The Dahua video monitoring solution deployed in Corsódromo for the Carnaval del País is a technological step forward from what it had in previous years. Through this new monitoring system, the management of the venue can efficiently monitor the situation inside the stadium and make necessary adjustments if needed.

It helps optimise the entry time of spectators to avoid congestion and assists in assigning security personnel at crucial points around the venue to prevent incidents from happening; all of which contribute to the enhanced on-site experience of every spectator and improved security measures of Corsódromo.

Hanwha Vision cameras protect football, rugby, and event attendees

The Stade des Alpes is a rugby and football stadium in Grenoble, France with over 20,000 seats. It hosts two resident professional clubs, Grenoble Foot 38 and the FC Grenoble rugby club, along with conventions, gala dinners, exhibitions, and concerts. On average, between 150 and 200 sporting and corporate events are organised at the stadium each year.

The Stade des Alpes team needed to update its existing system and bring it up to date with the requirements of the LFP (Ligue de Football Professionnel). In particular, there was a need to monitor sensitive areas with high footfall, namely entry and exit points, routes up to the stands, refreshment areas, and the stands themselves, according to Hanwha Vision.

on-site times as they enable installation engineers to remotely pan, tilt, rotate and zoom the lens' positions in order to set the cameras' field of view.

There are notable features that help the Stade des Alpes team better secure the stadium throughout the year, including during high-footfall match days and events. These include 4K resolution in some of the models, vandal resistance, and video analytics such as defocus detection, audio detection, and shock detection.

The installation team needed to work flexibly and quickly in a phased approach at the Stade des Alpes. The site remained open for matches at the weekend, so all equipment had to be taken out before match days.

The new video system needed to deliver clear and accurate images back to operators to help protect visitors, players, and officials during match days and other events.

In total 136 cameras were installed across the site including the XNP-6321H and XNV-9082R dome cameras, XNO-9082R 4K bullet camera, TNV-8010C compact corner mount camera, the XNB-9002 box camera with deep learning AI video analytics and the PNM-9085RQZ multi-directional camera.

The latter is equipped with motorised PTRZ gimbals which reduce

Furthermore, dome cameras were installed on the building's roof, requiring Rope Access Technicians to reach the highest installation points.

Due to the tricky positions of some cameras, their reliability was of the utmost importance as repairs and maintenance would require repeat visits from technicians.

The overall result was a video security system with PTZ cameras spanning the stadium's field and stands with a wide field of view, while dome cameras provide more detailed visibility of internal areas and the stands.

AI-powered security: The future of....

tems can proactively identify potential threats, raising alarms instantly.

Efficient Monitoring: AI can monitor multiple camera feeds simultaneously, ensuring persistent, data-driven surveillance without fatigue. Its predictive analytics capabilities anticipate potential threats, reducing human errors and oversights.

Rapid Response: AI integrates with emergency systems, automatically alerting law enforcement or security personnel in the event of a breach, minimising potential damage.

User Empowerment: AI-powered security includes user-friendly mobile applications, allowing individuals to receive instant alerts, view live camera feeds, and remotely control security systems from their smartphones.

As AI security becomes widespread, it reshapes India's job market, amplifying demand for AI specialists and data analysts. Additionally, the adoption of AI security leads to improved crisis management and emergency response, enhancing overall national security.

Artificial intelligence is revolutionising the private security sector, unveiling opportunities once considered beyond reach. AI-powered surveillance systems enable enterprises to achieve unparalleled levels of precision and efficiency. AI recognizes criminal patterns, allowing early interventions and risk reduction.

In businesses, AI-driven analytics bolster loss prevention by spotting potential threats and ensuring compliance by automating protocol adherence. During incidents, AI's real-time analytics offer insights for swift responses, empowering security teams to act decisively, minimising damage, and ensuring safety.

As AI evolves, the future of surveillance in India looks promising. The convergence of AI with emerging technologies like the Internet of Things (IoT) and 5G connectivity will transform security infrastructure. Imagine autonomous drones collaborating with AI systems to monitor large areas or predictive analytics preventing threats before they materialise.

AI-powered security is the keystone of India's surveillance future, ushering in an era of enhanced safety and resilience against evolving threats. Challenges such as data privacy concerns and regulatory adjustments remain, but the benefits of AI-powered security are undeniable. Industry stakeholders, government entities, and technology providers must unite, synergizing their efforts to fully unleash AI's capabilities in protecting the nation. Investment in training and upskilling security personnel to effectively use advanced technologies is essential. The future of security in India is bright, and AI is at the forefront of this transformative journey towards a safer tomorrow.

within the door leaf, so only the reader module on one side, and a privacy button on the other, are said to be visible. It is designed to accommodate multiple DIN handles to blend with every interior.

The i-minimal helps streamline hotel management tasks, with lock sensors designed to alert staff if a door is left open, for example. From the TESA Wireless Online interface, they are also said to be able to remotely unlock a room.

System management software integrates with the hotel's self-service kiosks too, so that guests can check-in from home, enter the hotel with a PIN and receive their keycard at the kiosk.

IDS Imaging Development Systems GmbH four "eyes" see better than two

Robots do monotonous workflows and less pleasant, repetitive tasks with brilliance. Combined with image processing, they become "seeing" and reliable supporters of humans. They are used in quality assurance to check components, help with the assembly and positioning of components, detect errors and deviations in production processes and thus increase the efficiency of entire production lines.

An automobile manufacturer is taking advantage of this to improve the cycle time of its press lines. Together with the latter, VMT Vision Machine Technic Bildverarbeitungssysteme GmbH from Mannheim developed the robot-based 3D measuring system FrameSense for the fully automatic loading and unloading of containers. Pressed parts are thus safely and precisely inserted into or removed from containers. Four Ensenso 3D cameras from IDS Imaging Development Systems GmbH provide the basic data and thus the platform for process automation.

The actual workflow that FrameSense is designed to automate is part of many manufacturing operations. A component comes out of a machine-here a press- and runs on a conveyor belt to a container. There it is stacked. As soon as the container is full, it is transported to the next production step, e.g., assembly into a vehicle.

Up to now, employees have been responsible for loading the containers. This actually simple subtask is more complex than one might think at first glance. In addition to the actual insertion process, the first step is to determine the appropriate free space for the part. At the same time, any interfering factors, such as interlocks, must be removed and a general check of the "load box" for any defects must be carried out. All these tasks are now to be taken over by a robot with a vision system-a technological challenge. This is because the containers also come from different manufacturers, are of different types, and thus vary in some cases in their dimensions.

For their fully automatic loading and unloading, the position of several relevant features of the containers must be determined for a so-called multi-vector correction of the robot. The basis is a type, shape and position check of the respective container.

This is the only way to ensure process-reliable and collision-free path guidance of the loading robot. All this has to be integrated into the existing production process. Time delays must be eliminated and the positioning of the components must be accurate to the millimetre.

To counter this, VMT uses four 3D cameras per system. The four sensors each record a part of the entire image field. This can consist of two

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Austrian hotel gets wireless access solution upgrade for customer experience boost

Hotel Flint in Dornbirn, Austria, has had its access control upgraded to a wireless system to improve customer experience. During the renovation and extension of Hotel Flint, a 19th-century Villa Weiss, developers wanted an access solution which would both look good and help hotel staff to manage the site and provide guest services more effectively.

They also needed flexible system administration to keep them in control and one that could work remotely.

Hotel Flint chose ASSA ABLOY's TESA Wireless Online access management system with 80 i-minimal electromechanical door locks, wall readers and fire-certified i-max locks. According to the manufacturer, this 'future-proof' technology solution

is suited to a historic building as well as a contemporary structure, with electronic door devices that are said to help the hotel offer its guests an up-to-date hotel experience, including self-service check-in and accessing their rooms by smartphone.

Hotel Flint's guest rooms, spa and other interior doors all had wireless mortise locks installed as part of the upgrade. The i-minimal is a battery-powered electromechanical door lock which is designed to work almost completely out of sight. Alongside the door lock, wall readers for the entrance and panic doors, and the i-max lock for fire-certified doors, were also installed, said the firm.

The locks' electronics and mechanical components are embedded

Jacksons Fencing helps restore Rewley Road Swing Bridge in Oxford to former glory

containers, each measuring approximately 1.5 × 2 × 1.5 metres (D × W × H). Two of the cameras focus on one container.

This results in data from two perspectives each for a higher information quality of the 3D point cloud. These point clouds of all four sensors are combined for the subsequent evaluation. In the process, registrations of relevant features of the container take place in Regions of Interest (ROIs) of the total point cloud.

Registration is the exact positioning of a feature using a model in all six degrees of freedom. In other ROIs, interference contours are searched for which could lead to collisions during loading. Finally, the overall picture is compared with a stored reference model. In this way, the containers can be simultaneously checked for their condition and position in a fully automated manner.

Even deformed or slanted containers can be processed. All this information is also recorded for use in a quality management system where the condition of all containers can be traced. The calibration as well as the consolidation of the measurement data and their subsequent evaluation are carried out in a separate IPC (industrial computer) with screen visualisation, operating elements and connection to the respective robot control.

The main result of the image processing solution is the multi-vector correction. In this way, the robot is adjusted to be able to insert the component at the next possible, suitable deposit position. Secondary results are error messages due to interfering edges or objects in the container that would prevent filling.

Damaged containers that are in a generally poor condition can be detected and sorted out with the help of the data. The entire image processing takes place in the image processing software Multi-Sensor Systems (MSS) developed by VMT. FrameSense is de-

signed to be easy to use and can also be converted to other components directly on site.

On the camera side, VMT relies on Ensenso 3D cameras-initially on the X36 model. The current expansion stage of FrameSense is equipped with the Ensenso C variant. The reasons for the change are mainly the better projector performance-thanks to a new projection process-as well as a higher recording speed. In addition, the Ensenso C enables a larger measuring volume.

This is an important criterion for FrameSense, because the robot can only reach the containers to be filled up to a certain distance. The specifications of the Ensenso C thus correspond exactly to VMT's requirements. The Ensenso C addresses current challenges in the automation and robotics industry. Compared to other Ensenso models, it provides both 3D and RGB colour information. Customers thus benefit from even more meaningful image data. The housing of the robust 3D camera system meets the requirements of protection class IP65/67.

It offers a resolution of 5 MP and is available with baselines from current to approx. 455 mm. This means that even large objects can be reliably detected. The camera is quick and easy to use and addresses primarily large-volume applications, e.g., in medical technology, logistics or factory automation.

By automatically loading and unloading containers and the integrated 3D container inspection, manual workstations can be automated with the help of FrameSense. Against the background of the shortage of skilled workers, the system can thus make an important contribution to process automation in the automotive industry, among others. It meets the prevailing challenges of the industry. Ensenso C provides the crucial basis for data generation and exceeds the requirements of many applications.

The Rewley Road Swing Bridge, an integral part of Oxford's industrial history, underwent a remarkable transformation in 2023 from rusting to restoration. Through a collaborative effort between the Oxford Preservation Trust, the Railway Heritage Trust, Historic England, and input on security solutions from Jacksons Fencing, this iconic landmark was meticulously restored and safeguarded for the enjoyment of present and future generations.

Dating back to 1851, the Rewley Road Swing Bridge played a pivotal role in the movement of goods and people during the 19th century in Oxford. However, changing times lead to its disuse and subsequent state of disrepair. By the 1980s, the bridge stood permanently fixed in an open position.

Recognising the historical and cultural significance of the bridge, the Oxford Preservation Trust embarked on a restoration journey to bring this historical treasure back to life. Jacksons Fencing was specified by the Railway Heritage Trust and Historic England to provide demarcation fencing around the landmark, playing

a vital role in ensuring the successful establishment of the bridge as a visitor attraction.

To ensure the safety of visitors and protect the bridge from potential vandalism, Jacksons Fencing provided a thoughtful protection plan that seamlessly integrated modern security features with the bridge's historical aesthetic.

In the pursuit of safeguarding the Rewley Road Swing Bridge, Jacksons Fencing introduced a total of 57 metres of 1.25 m high Barbican Imperial® fencing which seamlessly harmonised security with the bridge's historical charm. The fencing's unique vertical bar design not only exudes visual elegance but also serves as a robust barrier against unauthorised access. This fence choice is ideal for a heritage project as it offers the look of tradition-

al metal railings but with a modern, stronger, and more sustainable tubular design.

Concealed connectors and the absence of visible bolts or fixings further amplify the fencing's security prowess while maintaining a clean and uncluttered appearance. As an integral part of the protection strategy, a 3.6 m wide double leaf gate was integrated, complete with a pad-lockable slide latch. This innovative latch ensures controlled access, reinforcing security without compromising convenience.

The specification of high-quality materials was paramount for this project. The selected Barbican Imperial fencing was meticulously crafted from high-quality hot dip galvanised steel, equipping it with exceptional strength and resistance against the corrosive forces of time. To ensure the bridge's appearance would not wither, a black polyester powder coating was applied. This not only adds a touch of timeless sophistication but also guarantees durability and a long-lasting finish. By embracing modern techniques, the bridge's protective features are seam-

lessly integrated into its historic context, allowing it to confidently stand the test of time.

Jacksons Fencing's commitment extended beyond human safety to encompass the thriving local ecosystem. With a profound understanding of the importance of coexistence with nature, the new security solution was intentionally designed to accommodate the movement of local wildlife. Gaps between the pales of the fencing facilitate the free movement of animals through the site ensuring that while security remains uncompromised, the natural ecosystem can flourish undisturbed.

Now fully restored, a new life has been breathed into the Rewley Road Swing Bridge. Beyond its full restoration, the bridge now symbolises a link between the past and the future.

Detect hot spots early to prevent fires in cement plants

Lukas Wallimann of SICK, SICK a world leading solutions provider for sensor-based applications in the industrial sector explains how plants can manage their fire risk while conveying combustible bulk materials using a system designed to detect potential hot spots before they ignite and cause production stoppages and damage to equipment.

As reported by Richard Campbell of the National Fire Protection Association (NFPA) in 2018, an average of 37,910 fires occur each year in industrial or manufacturing buildings in the United States. The cement industry also faces significant fire hazards. The transport of combustible bulk materials, such as coal, pet coke, and alternative fuels poses a significant fire risk.

The flammable material being conveyed can quickly overheat, reaching temperatures as high as 500 – 800°C. If a fire does occur, it quickly spreads and causes serious damage to plant facilities and leads to costly interruptions to operations.

Fire safety and, in particular, the early detection of fires play a crucial role in the cement industry and an increasing number of companies rely on thermographic detection systems for this purpose. By using thermal imaging cameras, these systems can detect critical temperature conditions, known as 'hot spots', early on and prevent fires.

Thermography – the process of detecting and measuring variations in emitted heat using, for example, thermal imaging cameras – has proved invaluable for early fire detection. After all, every object with a temperature above absolute zero (-273°C) emits infrared radiation.

Invisible to the human eye, infrared radiation can be detected and measured by thermal imaging cameras that use this information to determine the corresponding temperature.

The Conveyor Hotspot Detection System also uses thermography. As one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications, SICK has developed a detection system that uses thermal imaging cameras to promptly detect overheated bulk material on conveyors and prevent fires. The system fully automates temperature monitoring of conveyed material and is deployed wherever an operation transports, sorts, loads, or feeds flammable bulk material of any kind on conveyor belts.

The SICK Conveyor Hotspot Detection System uses thermal imaging cameras to continuously and automatically measure the temperature of bulk materials in transport. The system then compares the measurement data with the limit value, which can be individually specified for various materials.

If the set warning threshold is exceeded, a signal is sent to the overarching system to, for example, stop the conveyor unit or trigger the sprinkler system. In this way, the system boosts work and production safety and helps avoid significant costs due to fire damage and downtime. As the system is a preventive safety measure, cement plants can benefit from lower insurance premiums.

The Conveyor Hotspot Detection System is well suited for retrofitting existing conveyor systems as it can be easily integrated into the local control system. Thanks to all-weather infrared technology, the detection system can also be put into operation around the clock regardless of weather conditions.

Chubb highlights the importance of regular fire door inspections

Checking and inspecting fire doors is an integral part of Chubb's portfolio of fire solutions designed to prevent, detect, and contain fires while enabling people time to safely evacuate.

Everyday use of fire doors can result in damage to the door and its surroundings, which can affect the performance of the door in the event of a fire.

Chubb offers a comprehensive audit of fire doors for businesses and landlords in the UK, helping them maintain safe environments and conform to the latest fire safety legislation.

Fire door inspections are carried out by a competent fire assessor who will carefully inspect internal doors, checking each door's structural integrity, the furniture, and mechanisms for faults, damage, or wear. The assessor will provide a report detailing of any remedial work required and information and photographs of any nonconformities.

Tracy Gregory, Fire Consultancy General Manager at Chubb, said, "Fire door checks should become part of every business' fire safety strategy, just like testing the battery on a smoke alarm or checking the pressure of a fire extinguisher." "Our Fire Door Inspections provide business owners and landlords with the relevant documented proof they need to help them comply with fire safety regulations."

Fire safety legislation for England and Wales, Scotland, and Northern Ireland highlights the legal responsibilities of reducing the risk of fire spreading within premises. Fire doors play an important part in reducing this risk in many buildings. Penalties for failing to comply with the legislation carry unlimited fines or a prison sentence for organizations and landlords.

Stay safe from home fires: Red Cross issues cautions

Home fires are the most common disaster in every country and sadly, these fires claim lives every day. The American Red Cross highlights the key steps that residents can follow to help them stay safe, should a fire break happen in their home. Residents can stay protected from home fires by taking two simple steps - test the smoke alarms monthly and practice the fire escape plan.

• Test the smoke alarms monthly - Working smoke alarms can cut the risk of dying in a home fire by half. Place smoke alarms on each level of the home and inside and outside bedrooms, and sleeping areas. Change the batteries at least once a year, if the model requires it is also important. Also, check the manufacturer's date of the smoke alarms. If they are 10 years or older, they need to be replaced because the sensor becomes less sensitive over time. Follow the manufacturer's instructions.

• Practice the fire escape plan until everyone can get out in less than two minutes. To create an effective home fire escape plan, include at least two ways to exit every room in the home. Select a meeting spot at a safe distance away from the home, such as the neighbor's home or landmarks like a specific tree in the front yard, where everyone knows to meet. Teach children what a smoke alarm sounds like. Talk about fire safety and what to do in an emergency.

One of the leading causes of home fires is home heating and space heaters are most often responsible for these fires, according to the National Fire Protection Association. That's why the following key pointers are important to keep in mind for homes that have space heaters:

• If using a space heater, look for a model that shuts off automatically, if the heater falls over. Place the heater on a level, hard and non-flammable surface in the home.

• Keep all potential sources of fuel like paper, clothing, bedding, curtains or rugs at least three feet away from space heaters, stoves or fireplaces.

• Portable heaters and fireplaces should never be left unattended. Turn off space heaters and make sure any embers in the fireplace are extinguished, before going to bed or leaving home.

• Keep children and pets away from space heaters.

• Never use a cooking range or oven to heat the home.

• Keep fire in the fireplace by using a glass or metal fire screen large enough to catch sparks and rolling logs.

• Test batteries in smoke and carbon monoxide detectors.

With everyone spending more time at home, residents may be

spending more time cooking meals. Cooking is the leading cause of U.S. home fires. Listed below are the top eight ways to avoid a cooking fire:

• Keep an eye on what you fry. Never leave cooking food unattended. If leaving the kitchen, even for a short period of time, turn off the stove.

• Move items that can burn away from the stove. This includes dishtowels, bags, boxes, paper and curtains.

• Keep pets at least three feet away.

• Avoid wearing loose clothing or dangling sleeves while cooking.

• When frying food, turn the burner off if there is smoke or if the grease starts to boil. Carefully remove the pan from the burner.

• Keep a pan lid or a cookie sheet nearby. Use it to cover the pan if it catches on fire. This will put out the fire. Leave the pan covered until it is completely cooled.

• Turn pot handles to the back of the stove, so no one bumps them or pulls them over.

• Use a timer to remind you if the stove or oven is on. Check the kitchen before going to bed or leaving home, in order to ensure all stoves, ovens and small appliances are turned off.

In 2014, the American Red Cross launched its Home Fire Campaign to help educate people about home fire safety and install free smoke alarms in neighborhoods at high risk of fires.

Since then, the effort has helped save more than 1,200 lives and installed more than 2.2 million free smoke alarms, thereby helping to make more than 966,000 homes safer across the country.

Regulatory advancements in fire protection systems in the UAE have been instrumental in improving safety standards and ensuring the effective implementation of fire prevention and response measures.

Some of the key findings highlighted in this new report on the UAE fire protection system market from Grand View Research are as follows:

• Products - the fire response segment is expected to grow considerably over the forecast period. The segment driven is due to modern infrastructure, well-equipped fire de-

partments, and advanced technology adoption

• Applications - the industrial sector is expected to register the highest CAGR over the forecast period. The growth of the industrial sector in the UAE is attributed to government initiatives promoting economic diversification and access to strategic geographic locations for global trade

• Companies are engaging in several growth strategies, including partnerships, mergers & acquisitions, and geographical expansion, to stay afloat in the competitive market scenario.

UAE fire protection market to reach $3.17 billion by 2030

The UAE fire protection system market size is expected to reach USD 3.17 billion by 2030 and is expected to expand at a CAGR of 8.5% from 2023 to 2030. This is according to Grand Review Research, whose analysts say that in recent years, the residential sector has witnessed a significant surge in the UAE's demand for fire alarms and detectors, in addition the area has experienced rapid urbanisation and population growth, leading to a rise in the number of residential buildings and complexes.

As cities expand, there is a growing need for reliable fire safety measures to protect the increasing number of inhabitants. Additionally, the increasing awareness among homeowners and tenants about the importance of fire safety and the potential consequences of fire incidents has driven the demand for such systems.

The adoption of fire suppression equipment such as fire sprinklers across several industries, such as energy & power, manufacturing, and oil & gas, is expected to increase in the coming days as these industries involve a high risk of fire.

This is because combustible and flammable materials such as crude oil, coal, petroleum, and flammable gases are extensively used across these

industries. As these materials are susceptible to fire, high-grade fire detection and suppression equipment are deployed across these industries to prevent and control fire.

Moreover, the demand for fire safety equipment in commercial applications across facilities such as hospitals, educational institutions, and government offices is rising owing to the UAE government's formulation of stringent fire prevention and control norms. Rising investment of companies for safeguarding the infrastructure and reducing the loss of property and life across various applications is also estimated to further propel the demand for fire safety equipment in the commercial sector.

Government agencies and industry regulatory bodies are focusing on enhancing safety measures and improving emergency response protocols. As a result, strict guidelines and standards have been implemented for fire protection and detection systems, highlighting the significance of reliable and advanced technology.

As F500 capsule technology gains prominence, regulatory bodies focus on ensuring its safe and effective use. Suppliers proactively comply with industry standards and regulations related to fire protection systems.

Seek Thermal introduces Firepro 200, an affordable lifeline to improve firefighter safety

Seek Thermal Inc., a pioneer in thermal imaging technology announced the launch of its newest addition to the FirePRO Series: FirePRO 200.

Designed as a situational awareness camera for firefighters, this tool serves as a lifeline to help firefighters get home safely. FirePRO 200 enables a firefighter to regain orientation in low visibility conditions, see hazards invisible to the naked eye, and improve their situational awareness.

Building on the success of the FirePRO 300, introduced in April 2023, the FirePRO 200 rounds out the FirePRO Series lineup as a more affordable option for fire departments. Conveniently priced, the FirePRO 200 aims to equip every firefighter and stands as the most affordable personal thermal camera in Seek's new FirePRO Series.

The FirePRO 200 is an affordable and easy-to-use thermal imaging camera that enables firefighters to see through smoke and darkness, find victims, identify hot spots, and return home safely.

Key features

• 200 x 150 Sensor Resolution with Fast Refresh Rate: 30,000 individual temperature pixels are refreshed more than 25 times a second.

• Seek's Proprietary Mixed Gain Mode with SV1 Technology: See the hottest and coolest regions of the scene simultaneously without freezing or switching modes. SV1 enhances details, contrast, and edge clarity.

• Made to Endure and Designed to be Lightweight: The camera weighs just 11.5 ounces (325 grams), is IP67 waterproof, and can withstand a 6.5' (2m) drop onto concrete.

• Ergonomic 90° Viewing Angle: A 90° viewing angle makes pointing the camera as easy as pointing a cell phone.

• Up to 6 hours of use on a single charge: A long-lasting rechargeable battery ensures FirePRO is always ready for action.

5 ways to maximise home's security ahead of darker nights revealed

With darker evenings ahead, the experts have shared 5 ways to maximise home security.

1. Get a monitored alarm installed

A visible alarm system is a strong deterrent to potential burglars, as criminals are less likely to target a home that is protected.

In the event of a break-in, a monitored alarm will alert the user, their keyholders, and depending on the package they take out, the police, ensuring a swift response to an alarm activation.

2. Light up the dark

Well-lit exteriors make a home less appealing to potential intruders. Install motion-activated lights around any entry points, particularly porches, and gardens, which alert the user to movement on their property.

This will also prevent burglars from operating under the cloak of darkness and increase the chance of a passerby spotting suspicious activity.

3. Trim garden landscape

Thieves look for escape routes and hiding spots when deciding which homes to break into, making gardens with high, overgrown hedges more likely to be targeted. This is especially true in the darker evenings, so be sure to give the garden a thorough tidy-up to make the property less likely to be targeted.

It's also advisable to ensure any tools are locked away in sheds and garages that could assist a burglar such as ladders, or a garden spade to force entry.

4. Be smart with lights

Using smart plugs allows users to turn on a few well-appointed lights and radios or televisions from any location from their phone. Used in conjunction with an outdoor camera or video doorbell, users can have lamps plugged into smart plugs come on when motion is detected. Programming lights to come on at different times throughout the night will help to deter burglars by making the property look occupied.

5. Purchase a smart doorbell or outdoor camera

Smart doorbells are an effective way to deter burglars as they provide evidence in the event of a break-in, package theft, or other suspicious activity around the home.

They also notify users when someone is at the door reducing the chance of being caught out by a late evening or early morning robbery.

Smart doorbells also act as a deterrent to unscrupulous door-to-door sellers and con artists, as video footage is recorded. In the event of a late-night door knock, users can see and speak to whoever is at the front door, without having to open the door. ADT's new outdoor camera also has two-way audio and a high-pitch deterrent siren so users can warn off anyone from the property to deter any further encroachment.

10 cybersecurity blunders and how to prevent them

Cybersecurity is a vital aspect of any organization or individual that uses the internet and digital devices. Cyberattacks can cause severe damage to data, reputation, finances, and even physical safety. However, many people and businesses make common mistakes that can expose them to cyber threats and compromise their security.

Here are 10 cybersecurity blunders and how to prevent them:

1. Using weak or default passwords: One of the most basic but often overlooked cybersecurity blunders is using weak or default passwords for your accounts and devices. Weak passwords are easy to guess or crack by hackers, who can use various tools and techniques to break into your accounts and steal your data or money.

2. Falling for phishing emails: Falling for phishing emails, which are fraudulent messages that pretend to be from legitimate sources, such as banks, government agencies, or online platforms. Phishing emails trick you into clicking on malicious links or attachments, providing your personal or financial information, or downloading malware onto your device.

3. Focusing on reactive rather than proactive strategies: When protecting your data and network, focus on reactive rather than proactive strategies. Reactive strategies are the ones that you implement after a cyberattack has occurred, such as restoring your data from backups, repairing your systems, or notifying your customers. Proactive strategies are the ones that you implement before a cyberattack occurs.

4. Using public Wi-Fi networks without encryption: Using public Wi-Fi networks without encryption when accessing sensitive data or performing online transactions. Public Wi-Fi networks are the ones that are available in places like cafes, hotels, airports, or libraries. These networks are often unsecured and unencrypted, meaning that anyone connected to them can intercept or modify your data or traffic.

5. Not backing up your data regularly: Not backing up your data regularly in case of a cyberattack or a system failure. Backing up your data means creating copies of your files and storing them separately from your original device or system.

6. Not updating your software and apps: Not updating your software and apps when new versions or patches are available. Software and apps are constantly evolving and improving; sometimes, they may have bugs or vulnerabilities that can affect their performance or security.

7. Not using multi-factor authentication: Not using multi-factor authentication for your online accounts and services. Multi-factor authentication is a security feature that requires you to provide more than one piece of evidence to verify your identity when logging in to your accounts or services.

8. Not encrypting your data: Not encrypting it when storing or transmitting it online. Encrypting your data means transforming it into a code that can only be read by authorized parties with the key to decrypt it. Encrypting your data can protect it from unauthorized access, modification, or theft by hackers or other third parties.

9. Not educating yourself or your employees about cybersecurity: Not educating yourself or your employees about cybersecurity and the best practices to follow. Many cyberattacks rely on human errors or behaviors, such as clicking on malicious links, providing personal information, or sharing passwords.

10. Not seeking professional help when needed: Not seeking professional help when needed when it comes to protecting your data and network from cyber threats. Cybersecurity is a complex and dynamic field that requires specialized skills and expertise. Sometimes, you may not have the resources or capabilities to handle all the aspects of cybersecurity by yourself or within your organization.

The date security concern for drone professionals

Data security for uncrewed aerial systems (UAS) remains a primary concern by public safety and critical infrastructure professionals, according to an August 2023 survey of 733 drone professionals performed by Teledyne Flir, LLC.

Data security not only represents one of the top considerations when purchasing a drone platform, but a strong majority (67 percent) of the survey respondents worry that unknown entities could access the data they capture and manage from drones. Below are some of the key findings from the survey.

More specifically, 69 percent of survey respondents said they are somewhat too extremely concerned "that data captured by your drone program might be accessible to foreign governments or other entities that might be considered hostile to your organisation/work."

The Survey shows how those in the domestic drone industry take data privacy concerns very seriously and that they are looking for drone solutions that can give them peace of mind that their respective data won't be accessed by unknown persons or organisations, especially by countries of concern. The Survey results also highlight the key challenges faced by commercial, industrial, and governmental UAS operators trying to balance UAS capabilities, budget, and data security.

In addition to the fact that 86 percent of those surveyed said that data security was important when considering the purchase of a UAS platform, the other top factors considered somewhat to very important included:

• 97 percent - Quality of the sensor payload(s)

• 90 percent - Ease of use

• 85 percent - Price

Meanwhile, nearly 95 percent of survey respondents indicated that their organisations have or operate UAS platforms not domestically sourced or originate from potential countries of concern. This illustrates that performance and budget often drive purchase decisions. More than three-quarters of respondents also want a Wifi connection, and they feel real-time third-party application connectivity is somewhat important to very important.

The survey highlights the concerns and practical trade-offs faced by drone pilots and their respective organisations today. Lower-cost, high-performance, connected drones from possible "countries of concern" currently dominate the commercial, industrial, and public safety industries.

However, state and federal regulations are starting to build in requirements that drones originate from domestic companies or countries that are not of concern and have strong measures against unauthorised access to data. This reality highlights the need for cost-effective, high-performance, yet secure UAS platforms.

To ensure drone industry professionals can work with the best drone technology that is also cost-effective and data secure, government regulators need to look at funding domestic drone development and procurement. By making available more grants and incentives to public safety- and critical infrastructure-related organisations, local, state, and federal governments can help these critical organisations transition to data-secure drones originating from companies based in the United States and authorised countries. Teledyne Flir operates a drone programme, including its Siras UAS platform for public safety and critical infrastructure professionals.

To gain a better understanding of the perceptions of data privacy in relation to UAVs, Teledyne FLIR surveyed 733 drone industry professionals in the United States who work in some capacity across public safety (e.g., police, fire, search and rescue, etc.) and critical infrastructure (e.g., power generation, utilities, transportation, etc.) industries. All survey participants were residents of the United States and at least 18 years or older. The Survey was administered through Pollfish survey software on Aug. 16 – 30, 2023. The estimated margin of error for a survey of this size is +/- 3.5 percent.

How eDVRs deliver stable performance and sustainable value to customers

Stability is about delivering reliable and lasting performance – and that's exactly what Hikvision's new eDVR range does. With enduring storage and extremely low failure rates; the ability to withstand shocks and intense vibrations; and resilience in harsh environments, Hikvision eDVRs offer great long-term performance, maximised ROI, and sustainable value for customers.

In recent years, there's lots of discussions on what and how we produce and consume goods to ensure sustainable consumption and minimise the impact on the environment. One way of achieving this is to foster greener technologies, increase product durability, and extend product life, as stable-performing and long-lasting products can reduce the volume of raw materials used to produce goods, as well as decrease emissions from production and transportation.

To create greener and more sustainable products, Hikvision ensures that all products are built on the guiding principles of stability. This also applies to the eDVR series, which provides unrivalled durability and sustainability for years and years of smooth performance. Here are the three key factors that ensure the long-term stability and resilience of Hikvision's new eDVR range.

The eDVRs use eSSD chips instead of HDDs, which have multiple moving parts, such as rotating platters, spindles, and actuator arms. By eliminating mechanical moving parts from the storage drive, eSSD technology reduces internal wear and tear in the eDVR, and extends the product's life cycle. This ensures that customers can maximise returns on their technology investments, and reduces carbon emissions related to replacing end-of-life equipment.

To ensure product quality, we make sure that the raw materials that make up the eSSDs are of high and stable quality. Aside from this, meticulous product design and strict testing standards also help to ensure excellent performance of the product in different application scenarios, year-after-year.

To test and assure the stability and durability of the eDVRs, Hikvision submitted the eSSD chips that power them for testing and accreditation by the JEDEC Solid State Technology Association. During the JEDEC evaluation, the eSSD chips were tested for resilience during transport. They were also repeatedly cycled between temperature extremes (-55 to 125°C), and they were placed in an environment of 130°C with 85% relative humidity to test their moisture resistance in high temperatures. The stability of the chips was also tested at a consistently high temperature (150°C). The eSSD chips passed all of the demanding JEDEC tests, demonstrating their resilience and extensive lifespan.

3. A new industry benchmark for shock and vibration resistance

Traditional DVR hard disks can become unstable or corrupted in the event of intense shocks and vibrations – increasing the risk of unplanned downtime and video data loss. Hikvision's new eDVRs, and the highly stable eSSD storage chips that power them, minimise these risks based on their ability to continue functioning normally in the event of drops and vibrations.

In fact, Hikvision's lab tests, conducted using a piece of equipment called a vibration table, show that the eDVRs were able to continue recording and showing video at an extremely high vibration intensity of 15Gs, at which point the experiment was ceased. This lab result shows sturdiness of at least 15 times more than some traditional DVR units with HDD storage, which typically withstand vibration intensity of up to around 1G. Thanks to its stability and durability, the eDVRs have set a new benchmark for the shock and vibration resilience of storage devices.

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INDUSTRY EVENTS ▶

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

UK
12 October 2023
Consec 2023
Twickenham Stadium
Twickenham
United Kingdom
https://www.securityconsul tants.org.uk/events/consec

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

SWEDEN
24-25 October 2023
Sectech Sweden
Stockholmsmässan
Älvsjö Sweden
https://www.securityworld market.com/sectechexpo/ sweden/en

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

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://architecture buildingservices.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
04 December 2023
SECURITY TODAY Knowledge Summit 2023
The Lalit, New Delhi
India
https://securitytoday.in/ knowledgesummit/

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/

INDIA
18-20 December 2023
33rd IISSM Annual Global Conclave
Taj Vivanta
Surajkund, Faridabad
India
https://iissm.com/

DUBAI
16-18 January 2024
Intersec 2024
Dubai International Convetion & Exhibition Centre
Dubai UAE
https://intersec.ae.messe frankfurt.com/dubai/en.html

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

SPAIN
27 February - 01 March 2024
SICUR 2024
IFEMA Feria de Madrid
Madrid,
Spain
https://www.ifema.es/en/sicur

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/

INDIA
04-05 July 2024
9th International Police Expo 2024
Pragati Maidan
New Delhi India
www.internationalpoliceexpo. com

INDIA
04-05 July 2024
8th India Homeland Security Expo
Pragati Maidan
New Delhi India
www.homelandsecurity expo.in

GERMANY
17-20 September 2024
Security Essen 2024
Messe Essen,
Norbertstrasse 2, Essen
Germany
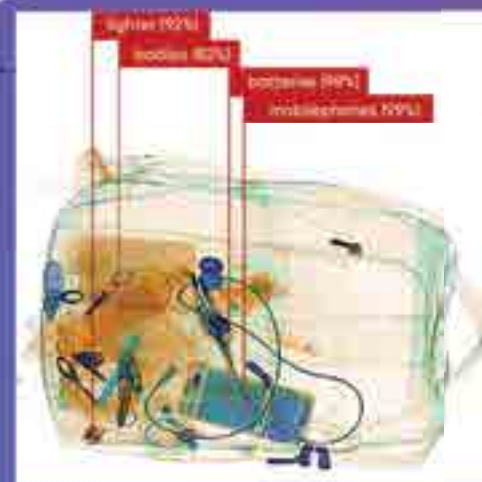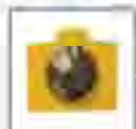https://www.security-essen.de/ impetus_provider/

www.securityupdate.in