

SECURITY Update

CREATING BUSINESS OPPORTUNITIES



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

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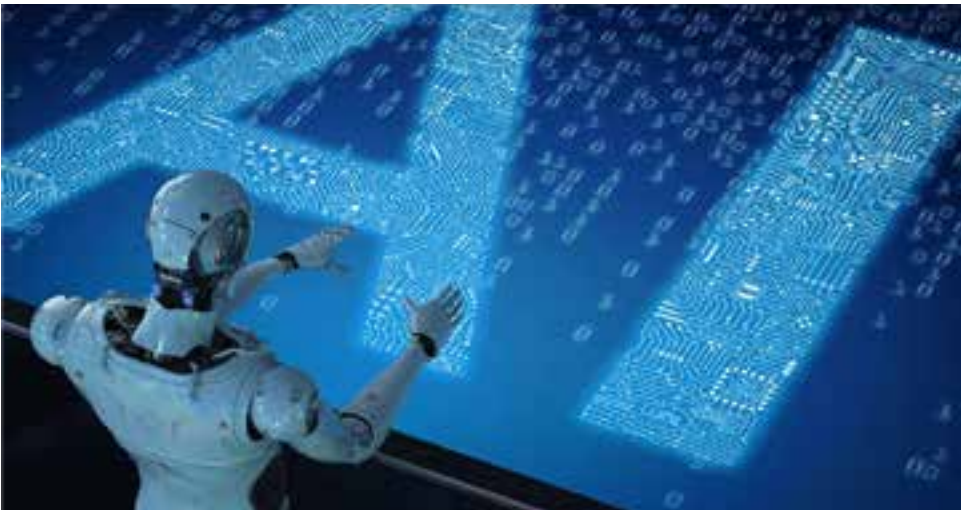
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Why you can't get away from Artificial Intelligence now!



Artificial Intelligence. You've heard the words in just about every facet of our lives, just two words, and they're quite possibly the most moving, life-changing words employed in everyday conversations. So what exactly is AI, who currently uses it and should be using it?

AI is a powerful way of collecting, qualifying and quantifying data toward a meaningful conclusion to help us reach decisions more quickly or automate processes which could be considered mundane or repetitive. AI in its previous state was known as "machine learning" or "machine processing" which has evolved into "deep learning" or, here in the present, Artificial Intelligence.

AI as it applies to the security and surveillance industry provides us the ability to discover and process meaningful information more quickly than at any other time in modern history. Flashback - VCR tapes,

blurred images, fast-forward, rewind and repeat. This process became digital, though continued to be very time-consuming. Today's surveillance video management systems have automated many of these processes with features like "museum search" seeking an object removed from a camera view or "motion detection" to create alerts when objects move through a selected viewpoint. These features are often confused with AI, and are really supportive analytics of Artificial Intelligence, not AI themselves.

Fully appreciating AI means employment of a machine or series of machines to collect, process and produce information obtained from basic video features or analytics. What the machines learn depends on what is asked of them. The truth is, the only way the AI can become meaningful is if there is enough information learned to provide the results desired. If there isn't enough info,

then we must dig deeper for information or learn more, properly described as "deep-learning" AI. Translated, this means that we need to learn more on a deeper level in order to obtain the collaborative combined information necessary to produce the desired result.

Deep learning AI can afford us the ability to understand more about person characteristic traits & behaviors. Applying this information can then further be applied to understand how to interpret patterns of behavior with the end goal of predictable behavior. This prediction requires some degree of human interpretation so that we are able to position ourselves to disrupt patterns of negative behavior or simply look for persons of interest based on these patterns of behavior. These same patterns evolve into intelligence which over time increases the machine's ability to more accurately predict patterns that

could allow for actions to be taken as a result. This intelligence which is now actionable could translate to life safety such as stopping a production manufacturing process, if a person were to move into an area where they shouldn't be which might put them in danger.

Informative knowledge or intelligence gathered could be useful in retail applications as well by simply collecting traffic patterns as patrons enter a showroom. This is often displayed in the form of heat mapping of the most commonly traveled paths or determining choke points that detract from a shopper's experience within the retail establishment.

It could also mean relocating signage to more heavily traveled foot-paths to gain the highest possible exposure to communicating

a sale or similar notice, perhaps lending itself to driving higher interest to a sale or product capability. Some of this signage or direction could even translate to increased revenues by realigning the customer engagement and purchasing points.

From a surveillance perspective, AI could be retranslated to actionable intelligence by providing behavioral data to allow law enforcement to engage individuals with malicious intent earlier, thus preventing crimes in whole or in part based on previously learned data.

The data collection points now begin to depart from a more benign, passive role into an actionable role. As a result, new questions are being asked regarding the camera's intended purpose or role of its viewpoint such as detection, ob-

servance, recognition or identification.

By way of example, a camera or data collector may need to detect human presence, as well as positively identify who the person is. So the analytic trip line is crossed or motion box activated or counter-flow is detected which then creates an alert for a guard or observer to take action. Further up the food chain, a supervisor is also notified and the facial characteristics are captured. These remain camera analytics, but now we feed this collected facial information to a graphic processing unit (GPU) which could be employed to compare captured characteristics with pre-loaded facial characteristics. When the two sources are compared and a match produced, an alert could be generated which results in an intervention or other similar action with

Contd... page 4

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Dear Reader

Novel Coronavirus, known as COVID-19, is now spreading fast to countries such as Italy and South Korea, after seemingly showing some signs of abatement in China, where it originated late last year to infect over 75,000 people and claim over 2600 lives. Health authorities around the world have sounded high alerts and the World Health Organisation is just short of naming it as a Pandemic.



People have adopted ways of lessening the chances of their exposure to this deadly virus, to which there is no medical cure yet, except isolation of victims and supporting their respiratory systems and hoping for their recovery. Millions and millions of people all over the world have taken to wearing face masks while stepping out of their homes and millions have resorted to working from home, if their work and/or employers permit, even whole cities have been placed in a 'lock-down' mode. The robust and young with no prior health issues have been found to stand a better chance of recovering.

Governments and citizens have leveraged technology to spread the awareness of this deadly infection to help curtail its spread. Social media and chat platforms such as WhatsApp and Instagram have been utilised extensively to make billions of people aware all over the globe.

Smart video surveillance cameras with analytics, especially face recognition and thermal cameras have been utilised by governments worldwide, especially in countries such as China, Russia and Thailand among others to boost security and surveillance.

As Artificial Intelligence and the use of data becomes more advanced, Beijing has found increasingly effective ways to track the Chinese population, including facial recognition. China is trying to control the spread of the virus, believed to have first emerged from Wuhan city in Hubei province, which has already killed at least 2,500 people in the mainland. Chinese authorities have encouraged everyone to wear masks. Senseime, an artificial intelligence firm has claimed that it has developed an algorithm that can detect people not wearing masks in public. According to CNBC, Chinese authorities have used drones telling people to wear masks!

The Chinese government has also enlisted the help of tech giants like Tencent, owner of popular messaging application WeChat and Alibaba subsidiary, Ant Financial, which runs payments app Alipay as well as large telecom companies to use their location based data of their users to track and map the movement of their subscribers. On both WeChat and Alipay, users can put in their Chinese ID numbers and where they have travelled. Users will then be assigned a QR code based on a traffic light color system which instructs them about how long they need to be in quarantine, or whether they are free to travel.

Zhengzhou is the first city in China to have set up facial recognition gates at all of its underground stations. Now, these cameras are being used alongside infrared temperature scanners to help contain the spread of the new coronavirus. The hi-tech cameras allow authorities to track and access a citizen's travel history.

Moscow began using facial recognition technology in January this year as part of its city security surveillance program. Moscow is harnessing the power of facial recognition technology to try to stop the spread of the coronavirus. Technology is being used in Russia's capital in an effort to dissuade people placed under quarantine from leaving their home or hotel. Approximately 2,500 people have been ordered to observe the quarantine after returning to Moscow from China. According to sources the city's surveillance technology has been an effective tool when it comes to identifying and tracking down those who disobey orders to impose a self-quarantine.

However, as millions don masks across the country, the Chinese are discovering an unexpected consequence to covering their faces. It turns out that face masks trip up facial recognition-based functions, a technology necessary for many routine transactions in China. Suddenly, certain mobile phones, condominium doors, and bank accounts that work on face recognition technology won't unlock with a glance. So, whereas, technology helps achieve certain goals, it could also prove to be a possible hindrance in others.

Till we meet next month,

Cheers, Stay Safe and Keep Others Safe.

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

General Information

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SECURITY
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WISECRA
WOMEN IN SECURITY & RESILIENCE ALLIANCE

TOP INDIAN WOMEN INFLUENCERS IN SECURITY



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

In order to recognise and honour the accomplishments, value and contributions of women within this male dominated vital sector of the economy,

SECURITY TODAY & SECURITY UPDATE, in association with InfosecGirls and the Women In Security & Resilience Alliance (WISECRA) have launched the 'Top Indian Women Influencers in Security' recognition.

This new accolade has been developed to help recognise women in security across india who have made significant contributions, advanced the industry and shaped the path for future generations of professionals among other vital contributions.

There is 'No Fee' for Nominations.
Last Date to Nominate is 9th May 2020

For nominations, please visit our website:
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Contd... from page 1

Why you can't get away from...



the effect of preventing a further action. This process- detect, disrupt, deter or detain could be considered life-saving by predictably displaying possible outcomes in advance of the intended actions.

The next level is deep-learning AI which em-

plloys the same characteristics to determine where else within the CCTV ecosystem the individual may have been previously by comparatively analyzing other collected video data. This becomes deep-learning AI when the GPU machine is able to learn from user-tagged positive iden-

tification, which the machine learns and begins to further reprocess its own data to further understand where else the person of interest (POI) may have existed on the ecosystem and more correctly improve its own predictive capabilities, thus becoming faster at displaying alerts and better at the discovery of previously archived video data.

In conclusion, the future of these "predictables" wholly rests in the hands of the purchasing end-user. Our job is to help everyone understand the capabilities and theirs is to continue to make the investment so that the research perpetuates upon itself. Just think where we'd be if purchasers didn't invest in the smartphone?

Courtesy: Indigovision

Industry's first solid state Lidar based access



Quanergy Systems, Inc., a leading provider of Lidar (Light Detection and Ranging) sensors and smart perception solutions, has unveiled an industry-first solid state Lidar-based access control and people counter series of products for physical security and smart space applications.

The new product line features Quanergy's 3D AI-powered perception software, Qortex, combined with the S3-2, the industry's first 100% solid state Lidar sensor for building access control and people counting. Quanergy's S3 solid state family of compact Lidar sensors contains no moving or vibrating parts, enabling higher performance, longevity and cost efficiency while requiring less power than other technologies.

Quanergy Flow Management platform, which, in addition to Qortex access control and Qortex People Counter, includes Qortex DTC and Qortex's rich set of APIs, enables the development of sophisticated solutions for retail, airports, public venues, commercial and government buildings, and industrial warehouses.

"Enterprise and government organisations alike are looking to increase the security of their critical assets, and optimise the flow of people in very large and challenging environments while preserving people's privacy and leveraging their existing security and operational environments," said Enzo Signore, CMO of Quanergy. "For this reason, we have designed the Quanergy Flow Management platform to enable end-users, systems integrators,

and application developers to build advanced solutions for security and smart spaces." The patent-pending Qortex access control and Qortex People Counter products are offering 98% detection accuracy in some of the most challenging use cases and environments.

Quantum IT, one of Quanergy's partners, is currently deploying Qortex People Counter at an iconic stadium in Australia to help improve customer experience through monitoring queue length and people counting, while simulta-

neously providing great insights around the correlation of ticket sales and food and beverage operations. "We strive to create customer-centric solutions

that address specific needs of customers," said Mark O'Reilly, the Head of Innovation for Quantum IT. "The Qortex access control and people counter

products are a key part of the design of various solutions, as they provide highly accurate, reliable and scalable technology that fits the needs of our customers."

'Vayyar HOME' Fall Detection System



Vayyar Imaging, the global leader in 4D imaging technology has announced Vayyar HOME. Vayyar HOME expands upon Walabot HOME's award-winning fall detection product, to offer a holistic, health and safety solution.

Vayyar HOME's technology requires no wearables or buttons and works without the use of any camera. Vayyar HOME keeps you safe, detecting falls and identifying intruders and in case of an emergency, gets you help. Vayyar HOME's upcoming health features include monitoring activity, sleep and breathing, sending an alarm in case an anomaly is detected.

Vayyar's intelligent sensors monitor location, posture as well as vital signs, enabling behavioral monitoring such as time spent at rest, in and out of bed, nocturnal roaming, and restroom visits. Trends are detected, allowing for pre-emptive predictions of health conditions such as UTI, dementia, and disorders like sleep apnea and psychological ailments including loneliness.

"Our fall detection product is protecting thousands of seniors every day, but that's only the beginning," said Ofer Familier, General Manager of Vayyar HOME. "Now, we can turn any room into a smart

room, caring for people inside out. Vayyar HOME is like living with a doctor and a security guard rolled into one."

In addition to new features, Vayyar HOME will be available in a new miniature 3.5-inch form factor that provides an extended range at an affordable price. Once placed on the wall, it automatically scans the environment monitoring health and safety. Information can be displayed on a real-time dashboard tracking activity throughout a facility, providing simultaneous visibility of location, activity levels and vital signs for multiple people.

Vayyar Imaging is a global leader in 4D radar imaging technology, providing affordable, highly advanced sensors to a wide variety of industries. With applications in the automotive, smart home, robotics, retail, RF testing and medical sectors, Vayyar's intelligent sensors can see through walls and objects, map environments, and track movements in real-time. Its state-of-the-art chip covers imaging and radar bands from 3-81Ghz, with up to 72 transceivers in each chip and an integrated high-performance DSP

SPECTRE Automatic Vehicle Identification Reader from STid

STid – a trailblazer and market leader in the design of secure and instinctive solutions – introduces SPECTRE, the first of a new generation

of long-range ultra-high-frequency (UHF) readers enabling fast vehicle identification at the gate with the highest security levels.

The most important reasons to embrace Automatic Vehicle Identification (AVI) solutions are the convenience, traffic fluidity and the security they bring. Vehicle access control based on traditional proximity, remote control or barcode often results in people leaning uncomfortably out of their windows towards the reader to show their access credentials. Combining high security levels based on the latest industry standards and modularity making it adaptable to any field scenario and uncommon design, SPECTRE is the solution for all AVI applications.

Based on EPC1 Gen

FORM IV

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Date: 1st March 2020

Signature of Publisher



2 standard and UHF passive technologies, SPECTRE rewrites traditional security rules, making them more instinctive. The long-range reader offers reading distances up to 43ft / 13m with reliability for smooth vehicle access. Its outstanding performance makes SPECTRE the fastest reader on the AVI market.

Fully scalable and modular, SPECTRE enables users to cover security issues and configurations, even in highly challenging environments. The reader is built to manage up to four driveways handling access of a mixed fleet

of vehicles (light, heavy and motorcycles), identification on wide lanes, or even distinct access control for four vehicle lanes. The solution can be tailored to your customer's needs, ensuring that all features and security levels can be upgraded at any time. Support for a wide variety of standard communication interfaces (Wiegand, Clock & Data, RS232 and RS485) enables seamless integration into existing or new access control systems.

The reader provides proven and unprecendented security, allowing users to sign UHF credentials using encryp-

tion methods recognized by independent certification bodies in information security. Its FastID™ function enables faster authentication and prevents UHF credential cloning without compromising performance. SPECTRE's enhanced vandal-proof structure withstands knocks and malicious acts. The weather-resistant reader is IP66-rated and designed for outdoor use in harsh environments, including vibration, dust, heavy rain and sea air. "It is the most robust reader on the market, yet easy to use and set up. We have developed user-friendly and free tools to configure the readers in a few seconds via USB/micro, USB cable or UHF card," says Maé Tholoniati, Security Product Manager.

SPECTRE's stealth design with strong lines ensures it integrates easily into corporate environments for swift adoption. Customization options enable clients to truly get the most out of this powerful communication tool.

Alcatraz AI Rock 3D Facial Authentication Platform



Alcatraz AI, developer of secure frictionless access control products, will soon unveil the new Alcatraz Rock 3D Facial Authentication Platform. Developed by the same Apple engineers involved in the FaceID project, Alcatraz Rock brings secure facial authentication and AI to physical security with the intention to replace or augment access control badges in single-factor or dual-factor modes, in many cases eliminating the need for turnstiles and guards. The Rock prevents common access control problems like tailgating and piggybacking by

recognizing the attempt and immediately alerting on it.

"The unbelievable popularity of face identification use in smartphones has created a demand for the same technology to be used in other applications. We started Alcatraz AI to bring facial authentication to the access control market because it provides a more secure way to provide access control as well as an opportunity for frictionless access and improved flow," said Alcatraz AI Founder and Chief Executive Officer Vince Gaydarzhiev.

"The Rock's newest features – that help prevent common access control problems like tailgating – deliver an even more powerful security solution and enhance overall physical access control."

The Alcatraz Rock is a 3D facial authentication product that creates a frictionless and secure environment at enterprises that care about their physical security. It uses facial authentication to replace or augment badges (single and dual-factor) while sensing for tailgating, solving one of the biggest problems in the industry.

It uses AI to self-enroll employees, as well as passively sense employees to detect who doesn't belong. Alcatraz Rock integrates into any existing access control infrastructure, badge reader, and badge type, making it the easiest biometric product to deploy while providing security that currently is achieved with turnstiles or guards.

Proxy launches world's smallest mobile reader



Proxy, a startup dedicated to empowering all people with smartphone-based identity signals for universal access, just launched a new identity signal reader so small it can be installed behind existing access card readers in just minutes, making it quick and inexpensive for companies to provide employees, tenants, and visitors with smartphone-based building access with zero impact to existing security systems. Before now, companies that wanted to enable smartphone-based building access had to replace their existing readers.

Like Proxy's other readers, Mobile Reader Nano detects Proxy Signals, which are emitted from a person's smart-

phone and replace the multitude of keys, cards, badges, apps, and passwords people typically need to gain access to the buildings, devices, and services they frequently use.

As the world's smallest mobile reader, Mobile Reader Nano can be installed in turnstiles, elevators, and directly behind existing card readers, which means customers upgrade to mobile quickly while simultaneously supporting all existing card types. Mobile Reader Nano can be installed faster than any other mobile reader which means Proxy can enable an entire building for mobile access in just one day.

Proxy's new reader

works with all access control providers, so there is no need to modify or replace backend access software either. When both landlords and tenant companies implement Proxy Mobile Reader Nano, they can provide completely frictionless lobby-to-office access to tenants and visitors.

Mobile Reader Nano is available now and is compatible out-of-the-box with all Wiegand-based access systems via a robust set of wiring options that support:

- All turnstiles, including Alvarado, Boon Edam, and DSI
- All elevator panels and destination dispatch systems
- All wall box, mullion, and mini-mullion wall readers

Proxy's new Mobile Reader Nano is so small it can be installed in 2-3 minutes directly behind traditional card readers, in elevators, and in turnstiles. A whole building can be outfitted in a day, enabling companies to ditch insecure keycards/fobs.

Allegion launches new Modular Cylindrical Lock Series



Allegion, a provider of security products and solutions, announces the launch of the Schlage ALX Series. The ALX Series cylindrical, grade 2 lock is an evolution of the earlier AL Series, which was based on Walter Schlage's first commercially sold lock, the A button lock, according to the company. The launch of the new lock comes as Schlage, the Allegion brand home to the ALX Series, is celebrating the year of its 100th anniversary.

Born from a modular design, Allegion says the Schlage ALX Series cre-

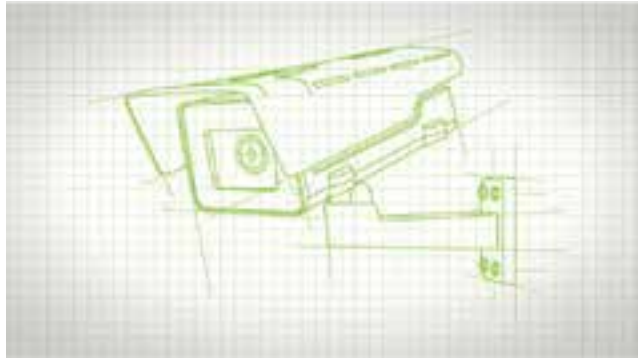
ates new and innovative ways to order, configure and utilize a grade 2 lock. "X Factor" features include:

- FleXible buying options — purchase configured or as separate chassis, function and lever kits
- Function fleXibility — patent pending modular chassis design lets you create the lock you need on site and change functions in the future as rooms are reupgraded
- MaXimum utility — one-chassis-fits-all function kit options

and cores to minimize inventory

- EXtreme installation simplicity — no loose parts and little or no need to adjust for door thickness
- EXpansive lever offering — 10 designs and a full range of key system support, including all Schlage as well as five competitive cylinder formats
- EXtra functionality — field-reversible Vandlgard to non-Vandlgard lever engagement
- EXceptional durability — premium features like grade 1 compression springs and a stainless steel latchbolt
- EXtended life — the deep-drawn spindle has five points of lever engagement to help minimize droop or wobble.

Axis removes hazardous substances from new green cameras



Axis Communications has made another step towards a green camera portfolio by introducing the company's first cameras that are free of hazardous brominated and chlorinated flame retardants, (BFR/CFR free).

The new cameras within Axis P13 network camera series are the result of Axis' focus on sustainability and alignment with the UN Sustainability Development Goals. By developing cameras that don't contain harmful halogens, Axis has made an important step in setting an industry standard when it comes to sustainability and green design.

"Our new sustainable network cameras are the result of over five

years of development and patience. While we care deeply about sustainability, we also need to maintain high standards of quality in our cameras. As an example, these latest devices are free of brominated and chlorinated flame retardants but are still flame resistant," states Andres Vigen, Global Product Manager at Axis Communications.

As part of its green design initiative, Axis has identified four areas of eco-innovation: Material selection; Optimised part design; Optimised design for manufacturing; and, Optimised disposal.

By exchanging the hazardous halogens in the devices with more sustainable alternatives,

the new cameras are not only better for environment and health, but are also part of the circular economy because they are more recyclable. "It is really important for us to not just wait for regulations that prohibit the use of hazardous materials or taxation that will make products prohibitively expensive, but to remain one step ahead. We're proud to be a role model when it comes to green design, and responding not only to customer requests but the responsibility of all businesses to act in an environmentally responsible way," says Austra Reinap, Senior Environmental Engineer at Axis.

"It would be great if we could inspire other manufacturers to invest in the development of halogen-free products," adds Andres Vigen, "The next step is to make it a future industry standard and help increase customer requests for more sustainable products," Vigen concludes.

Dahua adds advanced 5MP Smart IP Cameras to its Lite Series



Dahua Technology USA Inc., a provider of advanced, video-centric, smart IoT solutions, has introduced a new selection of 5MP IP cameras in its cost-efficient Lite Series, incorporating Smart Motion Detection (SMD) technology for ease of set-up, improved accuracy, and fewer false alarms.

SMD uses an advanced algorithm to differentiate human and vehicular shapes within a scene and send alarms only when a person or vehicle is detected. SMD can be enabled with just one click, allowing the camera to analyse all motion within its view.

The camera then filters motion-activated objects depending on what the user wants to see, making searches faster.

"Compared with traditional motion detection where lights, animals, rain, and tree movement tend to cause false alarms, Dahua's SMD feature gives the user highly accurate motion detection with fewer false alarms. No more annoying alarms with useless information," remarked Jennifer Hackenburg, Senior Product Marketing Manager at Dahua Technology USA. The SMD N53A series cameras can be paired with Dahua N52

and N54 Series NVRs with upgraded firmware to take advantage of the complete SMD solution. With this solution, users can tailor real-time push notifications according to what's relevant to them and conduct quick target searches based on object classification, date and time. The SMD feature will expand to other models later this year. Quick Target Search, a playback feature, extracts and classifies images of humans and vehicles from video data, making it easy for users to review and retrieve historical information. The SMD cameras are well-suited for environments where limited resources mean fewer onsite security guards.

The SMD N53A Lite Series offers fixed and vari-focal options in eyeball, dome and bullet-style form factors. These cameras include additional, advanced features that further maximise

users' Return on Investment (ROI), such as Starlight technology for ultra-low-light scenes, True Wide Dynamic Range (120dB), integrated IR, and perimeter protection for customised intrusion detection

and tripwire functionality. Additionally, the Smart H.265+ codec reduces bandwidth and storage requirements without compromising image details. "The new SMD cameras represent advanced edge technolo-

gy that truly reduce false alarms and provide peace of mind," added Hackenburg. "We're pleased to be able to provide SMD based on customer needs and help them bring additional value to the end users."

ELAN reveals new lineup of surveillance products



ELAN, the home control brand for Nortek Security & Control (NSC), announces a full range of new surveillance cameras, an NVR and an assortment of compatible accessories. The company described the lineup as being maximized for installation convenience and customer satisfaction, while delivering advanced analytics, auto-configuration capabilities and multiple form factors to suit every project.

The new assortment features built-in advanced IntelliVision analytics for more precise person and vehicle classification plus advanced object detection, which

provides personalized and informative alerts to the end-user, according to the company.

Additionally, deep software integration is said to deliver security through a single, personalized system, and advanced privacy features. The lineup includes an 8-channel NVR that can be mounted in a structured wiring can or a rack shelf. Along with the new cameras, the system integrates as part of a whole-house or property ELAN intelligent system.

The new array includes six outdoor IP cameras, one 8-channel NVR and accessories.

Another feature available to dealers and end-users is the recently released ELAN Management Cloud (EMC). EMC is a new 2020 platform that provides systems integrators with real-time device health monitoring, device state reporting, remote management, automated troubleshooting, issue resolution and specialized customer relationship management and more, all within a singular interface. With real-time, real-status monitoring, dealers can receive push notifications if a device faults, allowing them to troubleshoot the issue before their customer even notices.

Pelco introduces next generation of Sarix Enhanced IP cameras



Pelco's Sarix Enhanced 3 cameras are designed to handle a broad range of lighting conditions while always delivering sharp footage. They also feature resolutions of up to 4K and true WDR as well as ultra low light performance and image stabilisation capabilities. And with frame rates of up to 120 FPS at 1080p, the user also has the ability to slow down scenes of

interest and capture detailed images in applications like traffic and gaming.

This solution also comes with Pelco Smart Compression and H.265 encoding, which enable lower bit rates without compromising image quality. Reduce storage and bandwidth costs by compressing up to 70% depending on complexity and level of motion

in the scene.

The Sarix Enhanced 3 cameras will pair perfectly with included Pelco Enhanced Analytics suite to enable one to quickly focus on situations needing immediate attention for faster response times.

The solution will also act as a platform for advanced deep learning analytics, with superior accuracy in its ability to easily categorise objects within the scene. Sarix Enhanced 3 cameras will ship beginning with 2 and 3 Megapixel dome cameras with 2.8-8mm lenses. Other models will follow over the next few months.



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Panasonic's I-PRO extreme PTZ IR cameras offer enhanced night visibility



Panasonic's latest i-PRO Extreme PTZ Infra-Red security cameras set a new benchmark in night-time visual quality and intelligent functionality, packaged in a device designed for reliability and low-level maintenance to deliver lower total cost of ownership. There are two models in the IR PTZ camera range: the WV-X6533LN model with a powerful 40x zoom and the WV-S6532LN with 22x zoom.

Capturing clear images for use as evidence in low level lighting and at long distances can be a challenge in any outdoor security environment. Able to capture low light evidence even at distances of up to 350 meters in a zero lux environment, the cameras improve visibility by mixing visible and IR LED lighting through a new auto focus with visible light cut filter. This means that multiple light sources in one frame are no longer an issue.

To provide clarity even at long distances, the camera has an optional high-powered 40x optical zoom function combined with Intelligent Zoom Stabilisation to absorb vibrations and capture a stable image even from a fair distance away. A 30 degree elevation angle enables sloping roads, tall buildings and difficult areas such as seating areas under stadium roofs to be easily covered by the cameras.

Rain and dust can badly affect the quality of images and increase the need for expensive regular maintenance. To combat these challenges, the camera lens comes with a hydrophilic ClearSight lens coating which is resistant to the build-up of rainwater, stains, and dust accumulation. A new inbuilt defroster also ensures crystal clear images by preventing condensation or ice accumulating on the lens in extreme weather conditions.

To ensure CCTV footage is kept safe from unauthorised external access, the cameras are under vulnerability assessment and come with Digicert (Formerly Symantec) certification, which includes end-to-end data encryption and FIPS 140-2 CAVP compliance without any built-in backdoor access.

The Panasonic IR-LED PTZ cameras come with a range of smart compression functionality to reduce this business impact. The camera uses H.265 compression with Panasonic's latest smart coding technology to reduce network bandwidth use and storage requirements. Auto VIQS automatically determines areas with and without motion and reduces the data volume of those without motion. The camera also has built in Smart Facial Coding, which detects and records faces in high quality.

Hanwha Techwin introduces serverless ANPR cameras

Hanwha Techwin has strengthened its range of intelligent traffic management solutions with the introduction of highly cost-effective Serverless ANPR. Easy to configure camera-to-camera IP communication technology enables up to 4 Wisenet ANPR cameras, (1 master camera and 3 slaves), to simultaneously capture and transmit data to a convenient user interface.

Taking advantage of a powerful chipset, the ease to configure Server-

less ANPR solution is with 95% accuracy able to capture the number plates of vehicles moving at up to 50 km/h and is designed to offer an affordable edge-based solution for car parks, petrol stations and small residential estates with multiple entrances/exits, barriers or roadways.

The serverless ANPR camera solution provides the opportunity to automatically control the movement of up to 1,000 white listed cars through barriers via cam-

era relay outputs, as well as provide valuable car park management information, such as 'time spent' and occupancy rates, without having to incur the cost of installing and running the application on a server. An API is available to system integrators to provide the opportunity for the ANPR solution to be integrated with third-party software and systems.

A comprehensive range of ANPR based Intelligent Traffic Management solutions have been



developed by Hanwha Techwin in partnership with analytics experts, FF Group. In addition to the serverless and single site ANPR camera solutions, the range also includes a number plate server solution for large site management and Cloud based options for multiple sites.

"Collectively, these ANPR solutions provide car park access control for business applications, as well as large scale city wide based systems which help local authorities keep people safe, enforce parking regulations and detect other traffic infringements," said Uri Guterman, Head of

Product & Marketing for Hanwha Techwin Europe "The key benefit of the deep integration of FF Group's analytics with our Wisenet cameras is that users can deploy a highly effective ANPR solution without having to evaluate the myriad of specialist analytics solutions on the market."

Prama Hikvision Smart Technology Show Evangelizes Intelligent Solutions



Prama Hikvision curated an exclusive Smart Technology Show in Mumbai to evangelize intelligent technologies and solutions. Hikvision's AI Applications driven by Deep Learning Algorithms were demonstrated through various application scenarios related to Face Recognition, People Tracking and Perimeter Security. Several emerging technologies and advanced applications (Traffic Violations, VIP Recognition, People Counting, Heat Mapping and Business Intelligence) were also showcased.

Mr. Ashish P. Dhakan, MD & CEO, Prama Hikvision said, "Smart and Intelligent trends are driving the Indian security industry into a new growth cycle, while promoting advanced security solutions through transformative technologies like AI, IoT, Big Data and

Video Analytics. We are providing cutting edge technology solutions to our consumers to ensure a great end-user experience. Hikvision's core technologies include Facial Recognition, ANPR, False Alarm Reduction, Color Imaging 24/7, Ultra Low Light Imaging, 4K Resolution, Smooth Streaming, Thermal Imaging, Seamless Image Stitching, Power over Coax, Power over Ethernet, H.265+ Codec, Direct Streaming and Alarm Verification."

Prama Hikvision is driving the future of surveillance in India with an intuitive integration of Artificial Intelligence (AI) into its cutting-edge products and solutions and setting new benchmarks in the security and surveillance industry. It offers the latest solutions in Artificial Intelligence (AI) Technology, AI Cloud, Deep Learning, which are the leading

tech trends in the global scene.

The event also showcased the latest AI enabled cameras including DeepinView cameras and DeepinMind NVRs, featuring facial recognition, vehicle recognition, object detection, people counting, behaviour analysis, and much more.

Live demos of Smart Home (EZVIZ Smart Home Products and Solutions), Video Surveillance (DeepinView Camera, DeepinMind NVR, Easy IP 4.0, ColorVu and AcuSense Cameras), Access control (Face Recognition Terminals), Perimeter Security (Security Radar), and Intrusion Alarm (AXHub Hybrid) product categories were displayed during the show. In the special product category, walk-through Metal Detector, Smart Pole, Interactive Screen and Transparent LED Screen were displayed.

Vivotek's 20MP 180 degree panoramic network camera



VIVOTEK, the global leading IP surveillance solution provider, has announced it will demonstrate its MS9321-EHV 20MP 180 degree panoramic network camera with VAST 2 technology soon. "Featuring 4 x 5MP CMOS sensors at 30fps at all resolutions, the MS9321-EHV multiple sensor network camera can monitor full 180 degree horizontal views and deliver the highest-quality comprehensive coverage, making it an ideal outdoor surveillance solution with excellent image details," said David Liu, President of VIVOTEK

USA, Inc. "Like its predecessor the MS8391-EV, the MS9321-EHV has the Video Alignment feature that allows you to adjust the positioning and image quality of each sensor, enabling users to view a seamless picture, with no repetition."

Along with Trend Micro IoT Security and a weather-proof IP66-rated and vandal-proof IK10-rated housing, integrated Smart IR II technology with adaptive IR enables the MS9321-EHV's 30M 180 degree IR illuminators to adjust to the scene together or individually to provide the best pos-

sible IR image, reducing glaring hotspots and/or underexposed dark spots. With WDR Pro (120dB), the MS9321-EHV captures both the dark and bright areas of an image and combines them to create a highly realistic representation of the original scene. Lastly, combining both H.265 and VIVOTEK Smart Stream III, the MS9321-EHV can reduce bandwidth and storage consumption more than 90 percent (depending on scenes) compared to traditional H.264 without smart streaming.

"In the latest VAST 2 version, new features include the Deep-Learning Technology Smart Search II, Cybersecurity Management Solution, and License Plate Recognition Integration," added Liu. "With this update, users can enjoy the intuitive interface of VAST 2 while achieving a higher level of management efficiency."

SimCam 1S AI Security Camera



SimShine has announced the next generation of home security at CES 2020 with the launch of the SimCam 1S, a powerful new incarnation of their groundbreaking on-device AI security camera. Originally launched in 2018, SimCam has seen enormous success by providing rock-solid security and smooth user experience.

While major smart home security brands have seen their cameras hacked and weaponized for harassment – spying on unsuspecting residents – SimCam users have slept soundly knowing that their data is not vulnerable to streaming over the internet. Instead, the SimCam 1S processes data with AI only on the device, protecting user

privacy with bank-level encryption.

Building on the success of the flagship SimCam, the latest SimCam 1S model maintains its essential features of the flagship product while also bringing an all-new vision processor with 10X computing power and lower power consumption. "The SimCam 1S builds on proven technology to provide users with a home security system that will protect their personal data and privacy while also alerting them to potential threats," said SimCam CEO Aaron Zhang. "Security devices should provide users with a sense of safety, not concern about a potential data breach."

SimCam 1S is the lat-

est addition to a fleet of security cameras that includes the SimCam Alloy, the waterproof outdoor AI smart security camera; the SimCam Ango, the wire-free AI doorbell with extended wifi range; and the SimCam Baby, a specialized baby camera that will allow watchful parents to protect their newborns from any potential injuries.

Prospective buyers will be able to see updated features like advanced facial and body recognition, which notifies SimCam 1S owners each time someone enters their space while also sending alerts every five minutes if the person returns. Facial recognition relies on a single snapshot to identify those on-screen, including someone's inside profile. The SimCam 1S also has the capability to recognize pet and nearby vehicle movement in the vicinity of the camera, and notify users of the presence of unknown automobiles idling nearby.

Vivint Smart Home wins 2020 IoT Breakthrough Award



Vivint Smart Home, a leading smart home company in North America, has announced that IoT Breakthrough named the Vivint Outdoor Camera Pro its "Connected Home Security Product of the Year" for 2020. The Vivint Outdoor Camera Pro is an AI-powered security camera that intelligently detects and deters lurkers around your home.

"The Vivint Outdoor Camera Pro goes beyond just awareness by introducing a new layer of protection that actually helps prevent crime," said Jeremy

Warren, chief technology officer at Vivint Smart Home. "This IoT Breakthrough recognition showcases our commitment to vivint that helps homeowners protect what matters most."

With the Vivint Outdoor Camera Pro, you choose the area of your property you want to protect by defining a surveillance zone. The camera is designed to intelligently detect people within this zone, not pets or passing cars. The camera's Smart Sentry feature determines if someone is a lurker based on how long they remain on your proper-

ty. The camera will then automatically deter any lurkers with a red light and a warning tone.

"Vivint has established itself as a strong leader and innovator in the smart home space," said James Johnson, managing director at IoT Breakthrough. "The Vivint Outdoor Camera Pro showcases the positive evolution of innovation through both AI and IoT to protect what is most valuable to us. We congratulate the company on its well-deserved IoT Breakthrough Award." The Vivint Outdoor Camera Pro is available as part of an integrated Vivint smart home system, which also includes a Vivint Smart Hub and smart locks, lights, thermostats, doorbell and indoor cameras, garage door control, security sensors, car protection and more.

Matrix launches 5MP IP cameras with higher resolution



With the continued demand for IP Video Surveillance in Small and Medium-scale Enterprises, new solutions that produce better image quality in the most challenging conditions are needed. To meet the growing needs of SMBs, Matrix has strengthened its offerings by adding 5MP IP Cameras to its existing range of 2MP and 3MP IP Cameras.

Equipped with Sony STARVIS sensor with Exmor technology the 5MP IP Camera delivers a true, 104-degree

Horizontal field-of-view (FOV) and exceptional low light performance in light as low as 0.01 lux. With its H.265 compression, users can reduce storage consumption by up to 30%. Available in Dome and Bullet variants, Matrix 5MP IP Cameras are ideal for both indoor and outdoor applications.

Key Features:

- Better Quality Images with 5 MP Resolution
- Sony Starvis series Sensor with Exmor

Technology for Exceptional Low Light Performance

- Larger Field-of-View (FOV) – 104 degrees HFOV
- Colour Images in Light as Low as 0.01 lux
- IP67 and IK10 Protection
- Latest H.265 Compression Technology
- True WDR – to Deliver Consistent Images in Varying Light Conditions

"Higher resolution and detailed images enable 24*7 effective surveillance. Matrix's existing range delivers exceptional quality low light images, and the new 5MP resolution takes it to a completely new level. Owing to the high resolution, these IP cameras provide sharper and brighter images with even more details," said Vihar Soni, Marketing Manager, Matrix Com-sec.

Hikvision solution secures safety deposit boxes



When your business is responsible for the valuables of a lot of people, security is a crucial business value. De Nederlandse Kluis, the largest independent provider of professional safe deposit boxes in the Netherlands, recently upgraded its security system to cater for suitably large data storage and multiple, controlled access points. Systems integrator Van der Perk Security installed this, using a Hikvision solution.

De Nederlandse Kluis needed to be able to back up video recordings from cameras in locations all over the Netherlands in a central datacenter. The locations needed to be able to see each other's feeds. However, although only one uploaded stream per camera was allowed to the datacenter, it needed to deal with multiple streams throughout the whole system. Bandwidth control was an important element of the project, as they deal with a lot of content. With a number of users accessing the system from different locations, access control rights management was also important.

There was also the question of being able to see in the vault after another security measure filled it with smoke. Finally, secure storage is a key part of a security solution that spans so many locations, with feeds from multiple cameras creating a large amount of data. Of course, all of this needed to seamlessly integrate, with a central management system con-

trolling it all and providing operators with an overview, depending on their access rights.

In total, the solution comprised 720 Hikvision cameras of increasing resolution (2 MP / 3 MP / 4 MP). These are installed at 32 locations around the Netherlands, each with its own Embedded 4K NVR (DS-7716NI-K4). The security in each of the vaults has been increased with a bi-spectrum thermal camera. This is to allow operators to monitor the situation inside the vault even when another security feature has filled the room with smoke to make it impossible for any 'wrong-doers' to see. With the thermal camera able to pick up thermal signatures, the system can still detect people, giving security personnel the advantage.

The central data center holds all of these footages separately to the vault locations, so even if the NVR (and therefore, its recordings) is stolen, the footage is still accessible, making further investigation possible. To achieve this, a central server was installed, with a Hikvision Hybrid SAN storage server (DS-A82024D), boasting a 64-bit multi-core processor and 24 HDDs. The solution was completed with a HikCentral video management system used to bring all of the elements together.

Hikcentral delivers the flexibility to manage all streams from all the locations, as well as the users from them. Dif-

ferent users have various levels of access, and this is all administered by the Hikcentral software. For example, the system can combine 12 user streams into one. This set-up means that security personnel from each of the sites can tap into the feeds from another. They could, for example, have the footage from different sites on different screens within their office, making it easier to monitor each other's premises.

This means that all branches of De Nederlandse Kluis are monitored 24 hours per day through live camera images. These images are sent real-time to the control room, where they can be analyzed and stored. A unique feature of this solution is the fact that the back-up only kicks in when the system detects motion in one of the vaults. This is an innovative way to reduce the amount of data stored – helpful both in data storage requirement and sheer amounts of data to search through in case of an incident.

Peter van der Perk, owner of the system integration company responsible for installation, says: "The total solution with the Hikcentral VMS and back-up recording is exactly what De Nederlandse Kluis needed from their management system. On top of that, Hikvision could provide the best solution for the best price."

With the help of Hikvision and the power of the Hikcentral VMS, De Nederlandse Kluis is able to streamline its security feeds across its whole network. It can also store that footage remotely in an efficient data center. So, many people can sleep soundly knowing that their valuables are under safe watch.

Global Cargo Panama upgrades surveillance

A combination of technologies from Milestone and Arecont Vision were selected for deployment recently, when Global Cargo Panama ex-

pressed a requirement to monitor a 20,000 square-metre area of their warehouse with a system that would also allow them to extend their portfolio of

services.

Global Cargo Panama's main objective was not just to protect itself from security threats –



the goal was to find a tool to give their clients the peace of mind that their cargo was safe at all times.

AST Group strategically deployed Arecont Vision video cameras. Some were positioned in the entrance and three 180° Surroundvideo cameras went in the loading and unloading bays. Megaview 2MP and 360° Omni Surroundvideo multiview cameras were placed in central parts of the warehouse.

The different views delivered by these cameras are the "eyes of the project". Their images are transferred to a Milestone Husky NVR pre-installed with Xprotect video management software (VMS), which stores them for their chosen time period of up to three months. The video is archived on the server, and Milestone Xprotect software also manages

system users' permissions to view specific areas.

"The software allows Global Cargo to send its customers a link with their respective username and password to verify their cargo. From a computer or mobile device, they can check the status of their goods and when it entered the warehouse, by which door, and if it has been moved, among other details," explains Mr. Singer.

The Global Cargo staff also use this system to optimise logistics and security with motion status alerts that are delivered to their smartphones. And the personnel in charge of the system received extensive training.

With the new technology, Global Cargo Panama not just offers its clients real-time information on the status of their merchandise and its jour-

ney. They can also add services to the process chain in the same warehouse — for example, packaging, labeling, and clothing manufacturing.

AST Group made a license available for Milestone's Mobile application, too. This can record video from a mobile device and send it directly to the Milestone Xprotect server, so that video is accessible to authorised users.

"Not everything can be seen with the cameras. For example, if an operator opens a container and observes that the goods are damaged or in poor condition, he can take a video of it with Milestone Mobile on his phone, which gives real-time proof of the merchandise status when it arrived at the warehouse," Mr. Singer added.

Both Global Cargo and Mays Zona Libre have shown interest in applying these solutions to other areas of the warehouses, including the entire complex. They are considering adding analytics such as plate reading for container analysis and tracking, streamlining traffic flow within the complex, locating cargo or counting trucks.

Czech city addresses anti-social behaviour with surveillance



When the City of Turnov decided to invest in a new city centre video surveillance system in order to deter anti-social behaviour and create a safe environment for its 14,000 inhabitants, it awarded the contract to supply the cameras to Hanwha Techwin.

Turnov, which is located in the north of the Czech Republic, has traditionally been known as a centre for gemstone polishing, glass craftsmanship and arts. It is at heart of the Bohemian Paradise nature reserve which attracts large numbers of tourists throughout the year,

Wisenet camer-

as manufactured by Hanwha Techwin have been installed by Telmo a.s., a Hanwha Techwin Diamond STEP partner based in Prague, at key locations throughout the city to enable police to closely monitor and respond quickly to any suspicious activity.

Hanwha Techwin's pre-sales and technical teams worked closely with Telmo and city officials to ensure the best Wisenet cameras models were specified for each location. "Although city officials wanted a cost-effective solution, they also wanted to take advantage of the latest advances in technology

and were not prepared to compromise on quality or functionality," said Jaroslav Novovesky, Business Development Manager – Czech & Slovakia for Hanwha Techwin Europe. "The wide range of Wisenet cameras available meant that we were able to recommend 12 different models, with each offering the most cost-effective solution, whilst meeting the exact requirements for each camera location."

Among the cameras installed is the Wisenet PNM-9030V 15 megapixel panoramic camera. Deployed to allow operators to view any activity within Turnov Square,

the Wisenet PNM-9030 which is designed for large open areas, is equipped with multi-sensors which enable it to capture superb quality seamlessly stitched 180 degree images.

The exceptionally high resolution of the captured images allows control room operators to digitally zoom in to observe close up detail of any incidents. The Wisenet PNM-9030V is also equipped with tampering detection as well as a number of different types of Intelligent Video Analytics (IVA), such as audio, loitering, motion, direction, enter/exit detection and object appear/disappear detection.

A 2 megapixel Wisenet XNP-6550RH has been deployed at the city's railway station. With a 55x optical zoom, a Gyro sensor for accurate stabilisation in windy conditions, optical 'Defog' and built-in IR LEDs to capture high definition images at night at a distance of up to 500 metres. Its ability to capture clear, sharp images in daytime conditions, enables faces to be recognised up to 170 metres from the camera.

Additionally, both

the Wisenet PNM-9030V and Wisenet XNP-6550RH have an audio analysis function which recognises critical sounds, such as gunshots, explosions, screams and broken glass, and then immediately raises an alarm to ensure operators respond quickly to any emergencies.

Images from all the IP cameras are securely transmitted over the network to enable operators to monitor activity in real-time via their workstations or the control room's video wall. Operators are also able to retrieve video evidence recorded and stored on a Wisenet PRN-4011 Network Video Recorder (NVR).

Wisenet SSM 2.10 video management software has been integrated into the system to provide operators with a user-friendly and efficient method of managing and monitoring the cameras, as well as configuring which cameras are displayed on the video wall.

The nearby village of Malá Skála, which does not have its own police force, has also contracted to use the services of the City of Turnov's control room. Operators within

the control room are monitoring images captured by Wisenet QNO-6070R 2 megapixel IR bullet cameras installed throughout the village, as well the video and data captured by a Wisenet XNO-6120R bullet camera which incorporates ANPR technology developed by Hanwha Techwin's technology partner, FF Group.

"We are very pleased that the City of Turnov has chosen to maintain a long term partnership with Telmo and Hanwha Techwin Europe," said Ales Pachman, a senior technician at Telmo. "The partnership was first formed in 2006 when we designed and installed the city's first video surveillance system. The final phase of the programme was completed at the beginning of 2019 along with a complete upgrade of the city's central control room. There is no doubt that the excellent working relationship established over a long period of time between Telmo and Hanwha Techwin's pre-sales and technical teams, has greatly contributed to our ability to meet this valued client's requirements."

Dahua mobile solution improves police efficiency



As one of the most important provinces of Argentina, Buenos Aires province has been seeking to improve work efficiency and emergency response speed of its police force. However, the local police were always lacking evidence when trying to take legal action against violence, traffic accidents, and other social incidents. This created temporary loopholes in law enforcement that criminals and other unscrupulous people could take advantage of in order to escape legal sanctions. For this reason, the Ministry of Security of Buenos Aires province required powerful security tools to assist the local police in patrolling and enhancing the overall

level of safety throughout the province.

The Buenos Aires police sought strong and modern security equipment that could monitor the roads during police patrol, while keeping records as evidence. Additionally, they required a management terminal on the dashboard of each patrol car to allow the user to view videos in real time and manage all the surveillance equipment via the system. The technical equipment must be installed in a suitable position to avoid damage in case of car accident or airbag activation, and to ensure passenger safety under adverse conditions, such as weather changes, vehicle temperature shift,

etc.

After presenting Dahua Mobile Solution that could fulfill the aforementioned requirements, the Ministry of Security of Buenos Aires authorised the Dahua team to conduct research and implementation of this project.

The Dahua Mobile Solution covered 400 patrol cars of the Buenos Aires police force, each of which was equipped with six HD cameras, including two different models of 2MP Mobile HDCVI IR dome camera – HDBW1200F-M and HDBW2241F-M-A, 3MP network IR mini-bullet camera IPC-HFW1320SP, and 2MP Mobile HDCVI IR cube camera

HAC-HMW3200. In addition, five cameras were also installed outside each patrol car to monitor road conditions from every angle: HDBW2241F-M-A on both sides; HDBW2241F-M-A and IPC-HFW1320SP on the front top; and HAC-HMW3200 at the back. All of the products support IP67& IP6K9K, are shock-proof, and resistant to vibration and severe weather conditions. HDBW1200F-M was installed inside each car to monitor its situation and regulate police behaviour. As part of the requirement, the management terminal was installed at the centre of the dashboard and linked to the central server through a 10/100 wired Ethernet connection via an RJ45 connector.

In addition to the cameras, Dahua mobile video recorder MXVR4104-GFW was also deployed for efficient

video storage. Its embedded GPS positioning allows the user to track the vehicle in real time. In case of emergency, it will trigger the alarm and automatically upload the data on time. It also supports image capturing of suspected vehicles and uploads them to the management platform. Indeed, Dahua Technology has launched a smart police car solution to aid the police in identifying suspected vehicles and people. Featuring automatic recognition technology, the new device can compare suspected vehicles and people with the information in its database, achieving efficient mobile control and identification.

With the implementation of Dahua Mobile Solution, the Buenos Aires police can now manage social security better through a comprehensive monitoring system. The mobile surveillance sys-

tem with high-definition image quality and other advanced functions enabled the police to obtain first-hand evidence, achieve timely intervention and control dangerous and detrimental activities during their patrolling. This significantly improved their work efficiency, stabilised social order, and helped build a safe and harmonious community.

"We are very satisfied with Dahua products. The mobile video surveillance solution used in police cars enables our police to work more efficiently and safely because the surveillance centre is available 24 hours a day, providing appropriate assistance in solving various issues or incidents that the police may encounter," said Dr. Ignacio Greco, Deputy Secretary of the Provincial Ministry of Security, Buenos Aires.

Videalert provides enforcement vehicle to Wiltshire Council



Videalert, one of the UK's renowned suppliers of intelligent traffic enforcement and management solutions, has supplied Wiltshire Council with a new mobile enforcement vehicle (MEV) which is initially being used to enforce residential permit parking in Salisbury. The vehicle is equipped with a complete suite of Videalert software giving it the ability to be used in future for a wide range of safety-related parking applications including bus stops and the enforcement of keep clears outside schools. The council is also deploying Videalert cameras to enforce two bus gates in Devizes.

According to Joanne Pattison, Parking Manager at Wiltshire Council, "Videalert has provided the council with a flexible, hosted solution that will help us to significantly increase the productivity of the whole parking team. It will also enable us to cost effectively extend enforcement to other safety-related applications

as required and provide a more efficient service."

Videalert supplied a Peugeot 108 equipped with two roof-mounted ANPR cameras and two colour cameras to capture contextual video evidence. The ONVIF-compliant cameras accurately capture reflective number plates at distances of up to 40 metres with capture rates of up to 98%. Importantly, this can be achieved with just a single pass at normal road speeds. Used in conjunction with the latest video analytics, the system delivers the highest productivity at the lowest operating cost in any traffic environment.

Wiltshire Council is also installing Videalert cameras to enforce bus gates located at two housing developments in Devizes. These locations, situated next to main arterial routes into the market town, have previously been controlled using rising bollards, which have proved to be increasingly unreliable due to water damage. The first cam-

eras have been installed at the Newman Road bus gate and will provide uninterrupted enforcement around the clock whilst delivering cost savings by eliminating the ongoing maintenance liability of the rising bollards.

Images of contraventions are transmitted to Videalert's hosted digital video platform where evidence packs can be viewed and validated prior to sending to the council's back office system for the issuance of penalty charge notices (PCN). Videalert's flexible hosted platform makes it a quick and cost effective process to deploy enforcement as it does not require the installation of any IT at the council's offices. To reduce the number of appeals, PCN recipients can view still photographs and video footage of the alleged offence over the internet.

Tim Daniels, Sales and Marketing Director at Videalert added, "Videalert MEVs have proved to deliver industry-leading capture rates whilst consistently outperforming vehicles from other suppliers. These multi-purpose MEVs give councils greater flexibility to enforce a wide range of moving traffic and parking contraventions."

India needs a new approach to fire safety



Whenever an incident of fire takes place, the investigation afterwards highlights issues such as non-compliant construction; lack of precautionary maintenance, like the upkeep of extinguishers, fire doors, fire exits and their markings and assembly areas; gross overlook of safety procedures such as evacuation drills; and lack of recording of significant consideration for better response towards flammable materials, and their use in cladding and partitions walls.

City-wide physical changes like the densification of areas, non-compliant use of properties, and change in their use — which leads to local traffic congestion or on-street parking that constricts fire tender movement or delays their access to the affected area — are also blamed. Let us discuss some of the major laws in India governing fire safety and governance.

The National Building Code of India, 2016

Part 4 of the National Building Code (NBC) of India, 2016, is titled 'Fire and Life Safety'. It covers the requirements for fire prevention, life safety in relation to fire and fire protection of buildings. The code specifies occupancy-wise classification, constructional aspects, egress requirements and protection features that are necessary to minimise danger to life and property from fire. It specifies the demarcations of fire zones, restrictions on constructions of buildings in each fire zone, classifications of buildings based on occupancy, types of building construction according to fire resistance of the structural and non-structural components and other restrictions and requirements necessary to minimise danger of life from fire, smoke, fumes or panic before the buildings can be evacuated.

The code broadly covers the following areas:

Fire prevention: This covers aspects of fire prevention pertaining to the design and construction of buildings. It also describes the various types

of buildings materials and their fire rating.

Life Safety: This covers life safety provisions in the event of fire and similar emergencies, also addressing construction and occupancy features that are necessary to minimise danger to life from fire, smoke, fumes or panic.

Fire Protection: Covers significant appurtenances (accessories) and their related components and guidelines for selecting the correct type of equipment and installations meant for fire protection of the building, depending upon the classifications and type of building.

The guidelines for fire drills and evacuations for high-rise buildings are also specified in NBC Part 4. It mandates the appointment of a qualified fire officer and trained staff for significant land uses.

The Model Building ByeLaws, 2003

In 2003, the Union Ministry of Urban Development desired that the Model Building ByeLaws (MBBL) be prepared, in view of the Bhuj Earthquake that had occurred in 2001, to lay focus on the safety of buildings and for the guidance of state governments.

Under the MBBL:

Point-specific responsibility for all fire-related clearance rests with the Chief Fire Officer. The concerned Development Authority shall refer the building plans to the Chief Fire Officer for obtaining clearance in respect of buildings. Any eligible building needs to undertake necessary approval or the Completion certificate will not be granted by the competent authority and the occupancy of the building cannot be administered.

The Chief Fire Officer shall issue the 'No Objection Certificate' from the viewpoint of fire safety and means of escape, after satisfying himself that all the fire protection measures have been implemented and are functional as per approved plans.

On the basis of the

undertaking given by the Fire Consultant/Architect, the Chief Fire Officer shall renew the fire clearance in respect of the following buildings on an annual basis:

- 1) Public entertainment and assembly
- 2) Hospitals
- 3) Hotels
- 4) Underground shopping complex

Cities are dynamic and they undergo changes

Our cities undergo rapid physical changes, much like a chain reaction. A rising population demands more space to live and work. As a result, residential and commercial buildings primarily witness expansion and densification over time. This leads to increased traffic on roads. What we are not able to comprehend is how to capture this dynamism in our planning and development process, in order to be safe, prepared and responsive to disasters such as a fire incident.

As an urban planner, this question always resonates in my mind. Do we have to revise the Fire Master Plan for our towns and cities? In fact, the first question is how many cities have a Master Plan? The answer is not even 30 per cent. Even if there are any, are they legal master plans or draft ones?

Secondly, who calculates the original/ revised fire risks based on old/new densification regimes, provisioning during the construction and then, the regularisation of unauthorised colonies, land use and later change of use provisioning, speed and delay in traffic movements and its fine tuning with revised fire layouts of towns?

Even for the installed assets, petty gains, short cuts, negligence, lack of upkeep and inappropriateness of installations, checks and balances go missing, which make them non-functional or under-performing.

So what should be done?

In addition to the codes and governance

overlays which exist in India, we should have guidelines/framework to conduct a comprehensive risk-assessment for our cities. Risks coexist and

can be complex; they are qualitative and quantitative, hence there is a dire need to study these in city-wide and local contexts. By and large, these

risk-assessment studies should be an integral part of every master planning exercise, which should be revised for changes in land use and density.

ASSA ABLOY highlights importance of door inspections of schools



Door Group, a unit of ASSA ABLOY Opening Solutions UK & Ireland, is calling for higher standards of fire door inspections, after concerns surrounding fire safety in education buildings. Shockingly, there are over 1,000 school fires a year in the UK, costing an average of £2.8m in larger incidents, with one education insurer reporting that the large majority of UK schools are found to have 'poor' fire protection systems.

The Regulatory Reform (Fire Safety) Order 2005 requires schools to undertake risk assessments to identify the general fire precautions needed to safeguard the safety of occupants in case of fire, including their safe means of escape. But with fire protection systems failing

time and time again, it is clear that more needs to be done.

Fire doors are one of the most important safety features in a building, and regular inspections are essential to fully ensure health and safety measures are met. Education buildings can present highly specific requirements for fire doorsets, with particularly varied legislation and building regulations surrounding fire doors in schools.

As part of its commitment to fire door safety, Door Group provides a fully comprehensive inspection which can be carried out every three, four, six or 12 months to suit specific requirements. Following inspections, Door Group then offers detailed reports containing advice and recommendations on

necessary improvements, with the knowledge that identifying any potential issues that could impact safety and product performance can be lifesaving.

If any issues do occur, a tailored repair proposal is issued to include anything from replacement doors to a regular maintenance program. Door Group inspectors are BRE-certified and will ensure that all fire doors inspected meet all necessary standards and regulations.

Brian Sofley, Managing Director for Door Group, explains: "The figures we're seeing regarding fires in the education sector are terrifying. An education building should be a safe and secure place for students and staff, to work and learn. Door Group is committed to making schools, colleges and universities across the UK fire protected. With regular and thorough inspections, we can ensure the compliance and performance of fire doorsets in an effort to improve overall fire safety in the educational environment."

Prama Hikvision Premieres Technology Innovations at FSIE 2020



Prama Hikvision has participated in the 4th Edition of the Fire & Security India Expo (FSIE) 2020. It bagged the FIST Award in 'Product of the Year - Home Protection System' category.

Commenting on the FSIE participation and FIST Award win, Ashish P. Dhakan, MD and CEO, Prama Hikvision India Pvt. Ltd., said, "We are happy to showcase the latest products and innovative technologies,

including Artificial Intelligence (AI), AI Cloud, Big Data and IoT. We are glad to have won the FIST Award (Product of the Year - In Home Protection System category). It reaffirms our resolve to present the latest technologies, products and solutions. I wish FSAI and FIST Award will continue to promote the spirit of excellence among the security professionals and end-users community."

At the event, Hikvi-

sion showcased the latest and most advanced technological innovations with AI Technologies, the signature Deepin-View Series IP Cameras and DeepinMind Series NVRs. It also displayed the AI based applications for Face Recognition, People Tracking and Perimeter Protection. Hikvision had exhibited Central Monitoring Solution, Integrated Solutions, PanoVu Camera, Access Control Solutions, Face Recognition Terminal, Swing Barrier, Video Intercom Solutions, Intrusion System, Under Vehicle Surveillance System, ColorVu Camera, AcuSense Camera, Intelligent Traffic Solutions, Mobile and Portable Solutions and Power, Petroleum, Oil & Gas solutions, etc.

AI video analytics to catapult surveillance into the future



Memoori's 2019 world report on the physical security industry shows that video surveillance product sales reached \$19.15Bn in 2019 and could reach \$35.82Bn by 2024. This growth is the highest that Memoori has ever forecast and, the researchers say that it is driven by a number of factors particularly the sales of AI video analytics software now entering the commercial market. Analysts found that the VSaaS market is now growing at around 15% per annum and the impact of the IoT has yet to be fully realised. IP video cameras could become one of the most



powerful sensors in commercial and industrial buildings.

AI video analytics provides the boost

The Memoori forecast suggests that the AI video analytics contribution will boost video surveillance sales, on its own contributing some \$3.5Bn to 2024. The company predicts that AI video will be the main game changer over the next 10 years, and expects that China will take more than 50% of the world market for AI video analytics software by 2024, but privacy issues in Western markets could hold back the rate of growth. The traditional video surveillance companies naturally see AI video analytics as a feature to run off their existing products offering a way to differentiate themselves.

Cameras with embedded video analytics, such as motion, face, and object detection, analyse image data at the point of capture and can effectively eliminate the need to transmit video and data to a central server. This enables very efficient use of both transmission and recording bandwidth.

Cloud services gain credibility

According to the report, there is much evidence in 2019 that in the physical security business, that cloud services, specifically VSaaS, has broken off its niche market shackles and its capability and performance value are no longer doubted. Demand has grown significantly this year and Memoori forecasts that

This, say the researchers, will change the routes to market and introduce new players into the business.

More innovative products

The research found that background economics and trading conditions have remained fairly static in the last year but more innovative products that have delivered better performing systems have more than compensated for this and quality brands have increased their share of the business as a result. Memoori had expected for the last 2 years that merger & acquisition by non-Chinese companies would have delivered some help in building

over the next 5 years it will deliver a CAGR of no less than 12%.

In the next few years as the Building Internet of Things (BIoT) becomes a reality, IP cameras will be directly connected with these systems and that will present a myriad of opportunities for them to contribute to solving other problems not necessarily associated with security.

Integration within physical security is now a common requirement and IT convergence is almost a given in the enterprise market. The BIoT will connect services in the building, minimizing duplication, reducing hardware and software costs and IP cameras will become an important factor acting as sensors in buildings.

up scale but found nothing of any great consequence has happened through acquisition.

Geographical changes

Over the last 8 years there has been a major change in the geographic distribution of video surveillance product sales. Asia has delivered the highest rate of growth, increasing its market share every year and there is still a massive latent demand waiting to be exploited. The main driver of this growth is China where the penetration is still less than a half of that in North America and well before this latent business has been mined, the Chinese market will be more than twice the size of North America.

Intelligent access makes shared space smarter



Co-working provision is a dynamic market, with increasingly fierce competition for a user base that knows what it wants. The right access solution can help a space stand out from competitors and can deliver real benefits for users and the way they work.

Many creative and tech-oriented co-workers demand round-the-clock access. Indeed, according to the Harvard Business Review, the sense of control this flexibility gives is one reason people thrive in coworking spaces. If you have an access system you can manage remotely, from a PC or smartphone, staff need not be on-site to manage people coming and going 24/7.

An intelligent access system can also feedback critical business data in real time. Who is using your space? And when? The more you know, the more likely you will make better business decisions.

Efficient incident handling

Open, collaborative coworking involves lots of expensive tech and personal items lying around. You can maximise security and

minimise space users' risk with effective access control. Co-workers will not rent desks where intrusion is easy — and you do not want to operate a space with a reputation for petty theft. If something unexpected occurs or valuables go missing, an access control system can help sort it out quickly and efficiently. Because everyone carries personalised credentials — and instant audit trails can be ordered using access system software — finding out who went where and when, makes investigations easier.

Cutting out cutting keys

In any sizable workspace, standard physical keys are difficult to track without a dedicated key management system. Changing a standard mechanical lock is time-consuming and expensive. With an access control system installed, one click cancels any "key", key-card or smartphone credential. Door devices can be programmed and reprogrammed as many times as needed.

Room to grow

When coworking providers want to expand their workspace for the future, wireless access systems like Assa

Abloy's Smartair are almost infinitely flexible; new areas can be bolted on, locks can easily be moved around, and new sites can be added as the business grows. Wireless access control can help change the security status of a door at any time or the co-working area can be expanded to another floor cost-effectively. Add a meeting space, connect two offices, no keys or cables needed.

Image can be everything

Modern workers prioritise convenience and user experience. The latest electronic access systems include an option for them to carry virtual keys on their smartphone, in place of a physical key or key-card. Savvy, smartphone-enabled access will set a work space apart from local competitors.

Co-working spaces may also be used for additional revenue streams, for example, by hosting weekend or evening events. Because smartphone keys are so flexible, they make it easy to issue time-limited access for temporary staff or one-time attendees. When the event is over, their "keys" no longer unlock the doors, and it's all automatic.

Biometric fingerprint scanners uncovered

The use of biometrics is an increasingly prevalent method of security, and can come in multiple forms, such as facial, iris and DNA recognition, but the most popular design of biometric security due

to its simplistic design, yet advanced security restrictions is the biometric finger scanner. Ievo explains exactly how biometric finger scanners work and why business owners should consider a biometric

form of security for a top-class level of protection.

Biometric finger scanners are operated by a control board dedicated to providing a powerful, fingerprint matching system that



is designed to support internal, or external fingerprint reading units. The control board acts as the main point of communication between the biometric scanner and the fingerprint, providing a highly reliable fingerprint matching system. Ievo's control boards are designed to hold up to 50,000 fingerprint templates and can be easily amended with different components, to reflect the needs of each individual business, thanks to its sleek, manageable settings and installation process.

Once the biometric finger scanners are installed and the control board has registered all relevant personnel, entering the premises either internally or externally, the optical sensor will scan and capture a fingerprint, to either grant or deny access. The process of scanning a fingerprint varies from the model of reader, but at Ievo, the optical scanner uses both polarised and non-polarised lights to register between 1-100 reference points, building a high grade, completely accurate fingerprint image to provide an extremely precise reading.

Specific data from the fingerprint image captured is converted into a digital template which is then used for identification. These presets are unique to an individual, and each time that person enters or leaves the premises through the reader, the data is stored along with the time of capture, providing an archive of who was on the premises, where and at what time when integrated with an access control software. Unlike other standard biometric readers, no information is stored directly

on an Ievo reader, instead, each template is sent back to the control board, to provide business owners with an additional level of security and protection.

Advantages of fingerprint scanners

Unlike standard security systems, Ievo argues that biometric fingerprint scanners have a number of advantages that offer a more secure system as opposed to traditional methods of security. A biometric fingerprint scanner's sole purpose is to operate and identify personnel, through special characteristics that are unique to the individual. Security systems that use physical attributes as identification methods, such as fingerprints, are a lot more robust than traditional identification systems relying on pins and passwords, as the very nature of a fingerprint means they are completely unique to one person, making them virtually impossible to replicate and an attractive quality in high-level security environments.

Whilst fingerprints are not completely impenetrable, Ievo's range of biometric fingerprint scanners are built with a government certified 'Liveness Detection' sensor to prevent any attempt of fraudulent fingerprints. This technology provides resistance to fake and spoof identification efforts by using a high-grade, multispectral imaging sensor that can detect detailed data from several layers of a spoof, indicating whether or not the fingerprint is authentic.

As well as providing top-level detection, biometric fingerprint scanners are favoured

amongst 'traditional' methods of security due to the ease and simplicity of the system. Many systems typically replenish employee pins and passwords on a regular basis to minimise the risk of employee passwords being compromised. However, the nature of this method of security is particularly vulnerable to human error, as employees can easily misplace their pins or simply forget their passwords, which can cause complications and cost business hours in an attempt to resolve the situation.

Application specific

Whilst fingerprint scanners provide business owners with an advanced level of security, some biometric readers may not be suitable for your business. For example, if the nature of your company involves employees entering or exiting the building in conditions out of the ordinary such as harsh weather conditions, or dirty work environments with dust and debris, many biometric readers will struggle to build a quality fingerprint image, which may lead to the system not being able to identify or grant access to personnel.

The Ievo Ultimate range of biometric fingerprint scanners are suitable for both external and internal installation, and are rated to industry standard 65, meaning that the devices are protected in adverse types of weather, as well as in construction environments. If your business involves dust, dirt and debris, Ievo would recommend its Ultimate fingerprint scanner as the preferred method of security, as the Ievo Ultimate features a multispectral imaging technology

that is designed to provide an accurate reading of a fingerprint. Scanning both surface and subsurface levels of the skin, up to a depth of 4mm, allows the scanner to build a true digital image of the fingerprint, providing effective quality imagery in all types of fingerprint conditions and, says the company, even through latex gloves.

In a regular working environment however, the Ievo Micro reader would be the recommended product. This reader is a cost-effective, biometric product designed for typical everyday use for industries looking to secure small to medium-sized facilities. Whilst the Micro reader doesn't feature the multispectral scanning technol-

ogy for weather conditions, the Ievo Micro reader features an enhanced scanning performance. According to Ievo, compared to standard scanning readers, the Ievo Micro delivers highly enhanced features for an internal reader, providing a fast, accurate and reliable biometric security solution.

Dallmeier presents future-proof video analytics



The automatic or semi-automatic analysis of data plays an increasingly important role in video security technology. Here, the image quality is decisive for the result of the analysis. Dallmeier, will present this concept at the GPEC 2020 trade fair, in Frankfurt.

GPEC 2020 is marketed as Europe's largest closed specialised exhibition for police and security authorities, and the German manufacturer of video information technology Dallmeier will show visitors how they can implement future-proof video analysis applications at the event. A lecture by Dallmeier Safe City expert Frank Salder at the conference "Video Intelligence 2020" completes the trade fair presence.

Powerful analysis results through precisely defined image quality

There is hardly a better way to extract all kinds of data from complex contexts with relatively little effort than a video image. The possibilities range from "crowd analysis" for counting people in public spaces to the securing of "sterile areas" with the help of AI-based object classification. Despite all the enthusiasm for such innovative as-

sistance systems, one thing is often underestimated: the importance of data quality. As a result, according to the rule "Quality In, Quality Out", the quality of the analysis results can of course only be as good as the image quality and thus the quality of the input data. Already during the planning stage Dallmeier offers customers the possibility to precisely define the so called "pixel density" values defined according to DIN EN 62676-4, such as 62.5, 125, 250 pixels per metre (px/m) in every part of the monitored area – depending on whether, for example, 62.5 px/m is required for an AI-based object classification or 250 px/m for court usability to identify individuals.

Optimum situational awareness

The patented multifocal sensor cameras "Panomera" from Dallmeier, which have recently been awarded the European patent in addition to the German patent for their functionality, can provide the required minimum resolution for video analysis even over large areas. Even if several operators independently zoom in on relevant events, the system continues to record the

remaining scene. This combination of the advantages of PTZ and megapixel cameras enables police and security officers to obtain an optimal overview of the situation, while still being able to search with the required minimum resolution, even within recorded footage. Since a Panomera system replaces many individual single-sensor cameras and their infrastructure, operators can keep the total cost of ownership to a minimum.

Data protection "Made in Germany"

Dallmeier's AI-based systems support emergency services not only by means of an intelligent pre-selection of events, people counting, automatic object tracking or forensic evaluation. The imageless data acquisition to generate anonymised data also plays an important role. Regardless of the video analysis application, Dallmeier equips its technology components with state-of-the-art functions for data protection and data security. This ensures that police and security authorities can use Dallmeier systems in the most diverse scenarios in absolute compliance with data protection regulations (e.g. according to GDPR).

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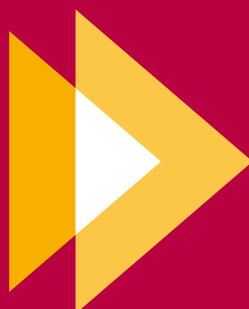
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