SECURITY update

The Best Read Channel Tabloid

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

CREATING BUSINESS OPPORTUNITIES

Vol. 13 No. 12 | www.securityupdate.in | December 2023 | Pages 16 | Price ₹ 75

Video Surveillance Trends That Will Dominate In 2024

When looking at CCTV trends for 2024, the year will continue to see more organizations utilizing remote-first, scalable solutions. Key video security trends include cloud-native solutions, AI-powered video analytics and moving from analog to 100% digital video systems.

Focusing on business security, camera trends include leveraging footage into valuable data with the help of AI and investing in "As a Service" (AaS) solutions for scalable ways of introducing new technologies into existing operations and standards, from on-premise security systems to ONVIF camera compliance.

With a variety of hardware and software used in conjunction to create holistic security and simplify management, the importance of cloud-connected cameras that work with existing systems and an open platform have been highlighted in trends of video surveillance technology for 2024. The year, especially in the USA, will emphasize the need to comply with the National Defense Authorization Act (NDAA) to use NDAA-compliant security cameras, which come in a wide range, from weather-proof devices to thermal imaging cameras.

Below, we discuss the latest CCTV camera technology trends and explain how to best integrate these security camera industry trends into your security system.

AI smart analytics technology is transforming footage into big data

The use of AI continues to be one of the 2024 video security trends. Thanks to AI, it is possible to turn hours of previously redundant footage into data, which can then be analyzed for video security trends and patterns. Whereas before, security teams only learned from the incidents identified manually, now they can learn more from hours of untapped video that were previously skipped over. Because of the valuable insight this technology provides, more businesses are seeing the need to adopt AI video analytics and are budgeting accordingly.

One of this year's most significant commercial security camera trends is leveraging video analytics technology to generate big data. Below are some of the factors driving its growth.

So how did video analytics become one of the 2024 video security trends and why are they such a game-changer for security teams? Enhancing video security with analytics enables teams to do much more with the resources they already have. Over an average shift, a security professional's accuracy when monitoring video decreases due to tiredness and distractions, whereas video analytics can accurately monitor video all the time. VA also remains consistently fast at processing video.

While video surveillance technology for 2024 and video security trends are technologically advanced, security professionals won't be replaced by algorithms. AI is only as good as the people directing it, so security professionals still need to verify alarms to ensure

Contd... page 9

Dear Reader

This is the time when various predictions are being made on what trends and significant changes will the new year usher in. I have read some and agree on the following.

2024 will see the expanded use of AI for enhancing cybersecurity measures, including threat detection, anomaly identification, and predictive analysis to mitigate cyber threats. The growing synergy between AI and edge computing, allowing more processing to occur locally on devices rather than relying solely on centralised cloud infrastructure. This trend can lead to faster response times and increased privacy.

The combination of AI and edge computing in surveillance cameras enhances the capabilities of video analytics but also addresses various challenges associated with bandwidth limitations, privacy concerns, and real-time responsiveness. This synergy represents a significant step forward in 2024 in creating more efficient and intelligent surveillance systems.

We have logins, passwords, barcode scans, physical ID checks — all done for security. However, your face as an ID can replace all this. It does raise privacy concerns, but the convenience offered is just too strong. The growing accuracy and the resultant adoption of Face Recognition technology will get enhanced in 2024 and one day, we may see our faces to be our Aadhaar and PAN cards, driver licences, voter IDs and maybe even our passports.

2024 is also the year of the mother of all democratic elections in the world — first India, then the US. This simultaneity happens only once in two decades. However, apart from the elections in India and the U.S. 2024 stands poised to become a remarkable chapter in history as over 60 countries, collectively representing half of the global population, are gearing up for a series of pivotal elections. Anticipated to involve approximately 4 billion voters, these elections will span across presidential, regulatory, and local bodies, marking a monumental exercise in democratic participation on a global scale.

The impact of the 2024 elections on security will be influenced by a complex interplay of political, social, and economic factors. Countries with successful, transparent, and fair elections are likely to experience positive security outcomes, while those facing challenges in their electoral processes may encounter heightened security risks and uncertainties.

In 2024 we may see more adverse climatic events that will see the security departments in corporations playing a bigger role in minimising the risks. 1,775 Chief Security Officers (CSOs) in 30 countries at large global companies with total revenue of more than $20 trillion took part in the first-ever World Security Report. The report says that climate change is the third most likely security-impacting hazard to affect companies in the next year after economic unrest (47%) and pandemics (40%). CSOs also anticipate that floods, wildfires, earthquakes, landslides, and tsunamis will all increase.

Businesses must prepare for a double-digit increase in climate change hazards that impact physical security in the next year and could threaten supply chains, people, and finances

Wishing all our readers a very happy and prosperous New Year. Till we meet next month, Stay Safe and Keep Others Safe.

G B Singh
Group Editor

gbsingh@1stasset.org @EditorGB linkedin.com/in/gbsingh9

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

SECURITY UPDATE welcomes manuscripts, news items and photographs, however SECURITY UPDATE is not responsible for loss or damage incurred while in transit or in our possession. SECURITY UPDATE is published monthly on the 28th day of every month. Deadlines are three weeks before this date.

©1st Academy of Security Science Education & Training Pvt. Ltd.
ISO 9001:2008 Certified

All rights reserved. No part of this publication may be reproduced in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise without the prior written consent of the publisher. Opinions expressed in articles or advertisements appearing in SECURITY UPDATE are those of the authors or advertisers and do not necessarily reflect those of the publication, or of its publishers.

Printed, published and edited by G B Singh on behalf of
1st Academy of Security Science Education & Training Pvt. Ltd.
Printed at Ask Advertising Aids Pvt. Ltd. 88 DSIDC Sheds, Okhla Indl. Area Ph-I, New Delhi 110020
Published at "Security House", 24-B, Udyog Vihar-V, Gurugram 122016, Haryana, INDIA.
info@1stasset.org

Advanced yet affordable access control readers

Geovision, primarily recognised for its high-quality IP cameras, is broadening its security solutions with the introduction of a diverse range of access control systems.

This latest series includes several models, each tailored to different security needs. The models stand out for their compatibility with multiple card types, including UID and DesID (Desfire), and support for various communication protocols like Wiegand, OSDP, RS-485, and TCP/IP. This multifaceted approach indicates Geovision's commitment to versatile, adaptable security solutions.

The GV-SR1352 model, in particular, supports dual-band frequency, making it versatile for different settings, including mixed-use, IP66-compliant assured durability under diverse conditions. With its competitive pricing, the GV-SR1352 offers a balance of advanced features and affordability, ideal for those seeking a reliable yet cost-effective entry into advanced security solutions.

Geovision's new access control range supports the company's commitment strategy to advancing security solutions that are both sophisticated and user-friendly.

Interface Systems integrates with DMP alarm panels

Interface Systems has integrated DMP alarm panels into its interactive Security Operations Centers (ISOCs). This move underscores Interface's mission to extend the capabilities of its iSOCs by seamlessly integrating leading business security solutions with the ISOC remote video monitoring technology.

The incorporation of DMP panels into Interface Systems' ISOCs opens up new possibilities for businesses that have either implemented DMP panels or plan on upgrading to DMP for their security needs.

With this latest integration, customers will have access to add-on interactive services that go beyond traditional alarm monitoring and standalone video surveillance. Customers can easily upgrade to video-verified alarm services and leverage Interface's virtual guard solutions with interactive monitoring capabilities.

Interface can deploy microphones, speaker units, discreet emergency activation hubs, and advanced security cameras to allow its intervention specialists at ISOCs to see, hear and directly speak to employees at the locations being monitored. This two-way communication capability enhances security, response times, and situational awareness, ultimately adding new layers of safety and protection to businesses.

The integration offers customers the flexibility to choose from a wide range of add-on services such as virtual walkthroughs, voice-downs, opening and closing security escorts, and compliance audits.

SALTO launches BLUEntrance Space visitor ID management system

SALTO Systems has launched BLUEntrance Space–a fast, seamless, all-in-one Visitor ID and Access Management solution designed to automate operations and digitalise the visitor lobby experience.

BLUEntrance Space combines visitor identification and access control in a single, powerful platform, providing a host of features that enhance security and streamline the guest journey. This advanced software solution offers digital pre-registration, contactless check-in and check-out capabilities, real-time reporting, and a secure keyless experience–setting new benchmarks for smart building management and security.

By adopting BLUEntrance Space, building operators can unlock a multitude of benefits. SALTO's robust solution delivers a smooth visitor identification process alongside digital and contactless access control. This ensures that only pre-registered guests receive unique access codes via e-mail. Visitors can conveniently check in at smart, contactless self-service kiosks by simply providing their identifying information.

For pre-approved and regular guests, BLUEntrance Space offers the flexibility to access buildings using RFID SVN smart credential technology, JustIN Mobile digital key, or mobile QR codes. All forms of entry provide building managers with the capability to pre-register occupants, track visitors, and manage access permissions on a case-by-case basis. These entry methods, coupled with built-in cameras, key encoders, and SVN wireless stand-alone smart locks, guarantee a high level of security and protection against tampering.

Electronic keyless door locks, such as those utilised in BLUEntrance, rely on cutting-edge technology to grant visitors access without the need for traditional keys or front-desk staff stationed at the lobby. Instead, SALTO's BLUEntrance Space solution uses digital credentials, such as RFID SVN smart credentials, JustIN Mobile digital keys, or mobile QR codes–to authenticate and authorise entry.

By eliminating physical keys and through fast, easy, and contactless visitor registration, it provides enhanced security and convenience while offering centralised control and monitoring capabilities through the SALTO Space platform. As a result, buildings can have an automated lobby or reception area that is fully unattended.

The advantages of BLUEntrance Space are numerous and include:

- Reduced wait times, with streamlined pre-registration and automated check-in via the smart self-service kiosk.

- Schedule and invite visitors. Once they receive an invite, guests can complete their profile in advance via smartphone to receive a QR code or digital key.

- Keep check-in simple and completely keyless by delivering smart credentials to visitors.

- Automate and enforce compliance, with visitor access integrations and GDPR policy-based registration across all locations.

- Integrate easily with SALTO Space smart access applications and add visitors directly into your access control systems to ensure streamlined building access.

- Receive real-time reporting to see how many visitors and staff are on-premise at any time, track guests and access incidents, and receive in-depth reports on visit details and host activities.

As companies worldwide continue to make the transition to high-tech smart buildings, BLUEntrance Space stands out as an advanced, all-in-one, keyless alternative to traditional visitor registration, ID management, and access control systems.

NOW CONTROL YOUR SECURITY FROM WHEREVER YOU ARE

Addressable Intrusion Alarms with Easy BUS (Single Cable) Wiring

- Emergency alarm alerts to the user & authorities
- 24/7 burglary, fire, flood, & CO protection
- Notifications with 3 layers of backup via integrated GSM/GPRS/LAN
- SMS & voice reports from the system to up to 15 users
- Panic & duress modes
- Integrate with CCTV cameras
- Programmable outputs for lights & other automation
- 20 independent calendars to schedule automatic events
- Remote control the system via web/mobile app/call/sms
- Detailed reports pinpointing the individual device
- Door lock control with RFID card
- User friendly keypads with control segments

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

KAWACH PROTECTION SYSTEMS
Technology on Guard

Email us today for more information:
info@kawach.com

Sielox launches Anyware 2.2 browser based access control

Designed with the intent of providing an access control solution that's ideal for a multitude of vertical applications, the new browser based access control monitoring and management solution from Sielox, Anyware 2.2 offers greater door capacity and security, regional I/O capacity, and enhanced reporting functions for improved operational efficiency.

With Anyware 2.2, users can now manage access control applications with up to 64 doors using 32 total controllers, effectively reducing IP network connections and simplifying installation. Anyware 2.2 also introduces a suite of new and enhanced reporting features that enable organisations to stay ahead of operational inefficiencies and compliance challenges, including Reader-Cardholder Tracking, Reader Access, Cardholder, and Configuration reports, and more.

The SECURITY TODAY Knowledge Summit 2023

The SECURITY TODAY Knowledge Summit is our annual flagship, and India's #1 conference for security professionals. Since 2006 it has evolved as the quintessential security summit, empowering protection professionals and end users. Each year, STKS is meticulously curated to cater to the distinct needs of security practitioners. We recognize that the journey towards effective security demands a continuous pursuit of education and knowledge, a relentless quest for answers, and an unwavering commitment to finding tangible solutions.

This year, STKS was held at The Lalit, New Delhi on 4th December 2023.

Dr. Sameer Patil spoke on 'Targeted Disinformation Campaigns: Role of State and Non-State Actors at Targeting Enterprises with Harmful Intent.'

Keynote Address by Mr. Arpinder Singh on 'People, Assets & Risks'

Keynote Address by Mr. Rakesh Asthaana on 'Navigating the Digital Personal Data Protection (DPDP) Act.'

Lineup of Speakers for SECURITY TODAY Knowledge Summit 2023

"Expecting The Unexpected" was the theme– an indication that the level of knowledge at this year's summit was professionally and strategically relevant for all security practitioners.

Like always, STKS 2023 had received an enthusiastic response from the industry with delegates registered from the far flung and diverse cities of Mumbai, Chennai, Ahmedabad, Guwahati, Puri, Shillong, Pune, and Bengaluru, apart from the NCR, indicating the keenness to learn and network. Some key speakers also came from the U.K. and Israel.

Surprise Special Address by Mr. Ohad Nakash Kaynar, Minister & Deputy Chief of Mission, Embassy of Israel in India. He gave insights on the 'Ongoing War with Hamas.'

Lt. Gen. R.K. Sawhney delivered a Keynote Address on 'Geo-Politics & Terrorism: What should Enterprises and CSOs do to plan for the Unexpected.'

STKS's ever popular Fireside Chat had Dr. Deeph Chana talk in conversation with Mr. Rajan Luthra on the topic 'Initiatives on Critical Emerging Technologies (iCET): Impact on National Security and Ramifications for Enterprises.'

The first Panel Discussion was on 'Leveraging Fourth Industrial Revolution (4IR)' The discussion was moderated by Mr. Rajan Luthra, and panlists included Dr. Deeph Chana, Mr. Sudhir Singh Sisodiya, Mr. NSN Murthy and Mr. Sanjeev Sehgal.

The second Panel discussion was on 'Next-Gen Financial Ecosystem & Rampant Cyber-Crimes.' This discussion was moderated by Dr. Firoze Zia Hussain, and the panelists included Ms. Swati Anuj Arya, Dr. Pavan Duggalnand Mr Sudhir Singh Sisodiya.

The final Panel Discussion was on 'CSOs / CISOs as Strategic Business Enablers' which was moderated by Mr. GB SIngh. The other panelists included Col. Shakti Sharma, Col. Arun Hariharan, Mr. Ankush Maria and Mr. Siddharth S Dahiya.

SECURITY TODAY Knowledge Summit's annual effort has been to ensure that security leaders are given a platform to air their views, experiences and learnings to ensure that others can use these learnings to enhance their knowledge of security. It also gives ample opportunity to the attendees to network with security leaders and peers to enhance their knowledge, validate their views and also to forge lasting relationships.

Audience & Speakers Networking over Tea/ Coffee.

(L to R) Mr. Garry Singh, President, IIRIS Consulting- Mr. Siddharth S Dahiya, CEO, Peregrine Guarding- and Mr. Roop Singh Kuntal, Founder & MD, Amron Associates.

Mrs. Aman Singh, Director, 1stASSET (L) - Mr. GB Singh, Publisher & Editor, SECURITY TODAY & SECURITY UPDATE (M), and Mr. R.S. Gupta, IPS, Former Delhi Police Commissioner (R).

(L to R) Mr. GB Singh, Col. Shakti Sharma, National Head - Security & Loss Prevention, Reliance Jio Infocomm Ltd

(L to R) Mr. Teiborlang Pathaw, Chief Operating Officer, Ranger Security & Service Organisation (Shillong) in conversation with Brig. G.S. Sisodia, Security Consultant and 26/11 Hero for leading the commando operations in The Taj Mahal Palace Hotel & Trident Hotel.

What They Say About STKS 2023...

"I wanted to extend my sincerest appreciation for an exceptionally well-conceived and flawlessly executed conference. My utmost kudos and admiration to the organizers for orchestrating such a masterfully managed event. The highlight of the conference was the unexpected presence and enlightening discourse delivered by the Deputy Chief of Mission to Israel. Additionally, the inclusion of Mr. Rakesh Asthaana, the esteemed ex-commissioner of police, came as a delightful surprise. Their insights contributed significantly to an enriching and informative experience, leaving an indelible impact."

Jeetendra Singh,
Chief Security Officer- Fortis Healthcare

"Attending numerous ST events has consistently been a knowledge-enriching experience for me. Every summit I've attended has been a treasure trove of insights, packed with invaluable knowledge. I am confident that in the future, these events will continue to contribute significantly to my knowledge base, fostering continuous learning and enhancing my experiences. The expertise shared and the content curated at each event by the team has proven to be exceptionally fruitful. Immensely grateful to GB & the entire team for this invaluable gathering and learning opportunities."

Brig. G.S. Sisodia,
Security Consultant

"Thank you for the kind invitation to STKS'23. It was, as always, a fantastic occasion, impeccably connected to your standards. Like you said, Quality Matters, and your emphasis on quality truly resonated throughout the entire event."

Garry Singh,
President- IIRIS Consulting

"For numerous years, I've been a part of STKS, both as an attendee and a past speaker. Undoubtedly, it stands as the most enlightening platform within India, thanks to Mr. GB Singh and the entire SECURITY TODAY team. Wishing them continued success and eagerly anticipating to attend future STKS events."

Maj. Mandeep Garewal,
MD- Forcetech Security

"I'm deeply impressed by the STKS event. The range of topics, the wealth of shared knowledge, and the diverse lineup of speakers and panellists were exceptional. It provided a profound insight into the current happenings in the security domain. Their tagline, 'Your Quest for Knowledge Starts Here', couldn't be more accurate; it truly reflects the depth of insights offered. My heartfelt congratulations to the entire ST team for flawlessly orchestrating this enlightening summit!"

Anuruddha Tiwari,
National Security Officer- UNDP

"I wanted to express my sincere appreciation for the outstanding Security Conclave organised by "SECURITY TODAY" that I had the privilege of attending yesterday. The event exceeded my expectations with its excellent lineup of panellists and insightful discussions on technological developments in security.

I found IPS Rakesh Asthana's presentation on the "Digital Personal Data Protection Act 2023" particularly enlightening, providing valuable insights into the evolving landscape of data protection. Lt. Gen RK Sawhney's keynote address added a distinguished perspective, and The Deputy Chief of Mission from the Israel embassy delivered a compelling speech on the current situation in Israel.

The well-curated content and the seamless execution of the event reflected the organiser's commitment to delivering a high-quality experience for attendees. The choice of speakers and topics showcased a keen understanding of the industry's current challenges and future trends.

I would like to extend my gratitude for creating a platform that not only fosters knowledge sharing but also facilitates meaningful connections within the security community. Your efforts in orchestrating such a successful event have not gone unnoticed, and I look forward to attending future initiatives organised by SECURITY TODAY."

Rananjay Singh,
Country Security Manager- India, Dyson Technology

Psync Labs unveils industry-first GPT-enabled smart home camera

Psync Labs has announced the debut of its pioneering product, Psync Camera Genie S, a first-to-its kind smart home camera that leverages innovative generative AI technology. Compatible with Google Assistant and Amazon Alexa, Psync Camera Genie S is now available for purchase.

The Genie S is the world's first GPT camera with advanced AI service, ViewSay. Unlike conventional smart cameras, the Psync Camera Genie S goes beyond just seeing and hearing. It possesses the intelligence to recognize and label objects within its view. This means that your camera is no longer just a one-way viewing device but a self-analysing tool that can provide video content creation based on its understanding of the visual input.

With ViewSay, the Genie S recognizes over a thousand types of objects along with their characteristics and states. It can search for related videos from a massive archive based on these identifications. This feature showcases the powerful recognition capabilities of large-scale AI models and serves as the foundation for the implementation of other functionalities.

ViewSay converts what the camera sees into text descriptions and pushes these to the user in a visual and textual format, providing clear and immediate insights into alert-worthy events.

By continuously extracting frames from videos to capture key features, ViewSay builds an image-to-text vector database. This supports keyword, phrase, and text-based search for specific video segments. Users can locate video segments of interest by entering any keywords, phrases, or descriptions.

Users can also customise alert conditions. The system smartly captures key moments and sends event-specific notifications, filtering out false or unnecessary alarms. An indoor smart camera with a vertical view, the Genie S boasts a 2K resolution image quality with 5 megapixels to create a clear and undistorted image quality — even when zoomed in — so users feel fully immersed in their homes. In fact, with a focal length of around 50 centimetres (which closely matches the equivalent focal length of the human eye) the Genie S eliminates wide-angle distortion often seen with other cameras.

Unlike other apps, whose functionality mimics that of a remote control, the Psync app uniquely makes you feel as if you're at home as soon as you click into it. The app is designed to make the view a full-screen display with a 16:9 aspect ratio. Unnecessary clutter has been removed, emphasising only the aspects of your home within the frame. Each camera presents on the screen scenes that a user cares about, through which they can use a sliding mechanism for easy navigation, enhancing the simulation of "movement" through their spaces or home.

With Genie's enhanced pan-tilt-zoom capabilities, tracking and capturing are taken to a whole new level — leaving users immersed in the moment, whether it's engaging in a delightful game of chasing their beloved fur babies or simply enjoying their surroundings.

The Genie S stands out as the most compact pan-tilt-zoom camera to date. This camera has an ultra-small form that enables full rotation and a true vertical angle, allowing for an expansive full view from top to bottom. In order to enhance privacy, the opening and closing design structure makes it easy to control when the camera is on or off, providing a quick visual confirmation. In addition, the camera comes with 32G/64GB of on-board local storage ensuring information security with no additional SD card needed. It can support 12-second event playback recording and 14-day storage.

Motorola Solutions LTE-Enabled V500 Body Camera

Motorola Solutions has unveiled the LTE-enabled V500 body camera, the newest addition to the company's mobile video portfolio that brings critical real-time field intelligence to emergency response. The V500 body camera enables first responders to stream live video and location to the control room, giving incident managers a better understanding of events and helping them to respond quickly and efficiently. After an incident has been resolved, the V500 also streamlines evidential workflows through LTE-based footage offload and simplifies administration via remote maintenance over mobile networks.

The V500 gives control room staff 'eyes-on-scene' so they have clarity on what's unfolding, to not only dispatch the appropriate help but capture a record of critical events. And everyone from IT technicians to evidence handlers can also benefit from this advanced LTE connectivity, by gaining access to footage as soon as it has been recorded and managing cameras from anywhere.

The new body camera offers high quality video and audio capture and is equipped with an optional pre- and post-recording capability, helping to ensure there is a record of every interaction from start to finish. Along with the rest of the Motorola Solutions mobile video portfolio, the V500 body camera uses the VideoManager evidence management software to enable the secure handling, storage and sharing of evidence, either on-premises or in the cloud.

Additionally, the V500 integrates with Motorola Solutions' ecosystem of technologies, from radio and in-car video systems to control room solutions, as well as Holster Aware Bluetooth sensors which can activate video recording and live-streaming if an officer draws a weapon.

For law enforcement and security personnel today, body-worn cameras are an essential tool to capture evidence and ensure transparency. Cost effective body-worn cameras are easy to use and integrate seamlessly into existing public safety technology.

Ajax takes on new vertical with launch of camera line

Having started only 8 years ago with its entry into the global intrusion market, the company is now expanding horizontally by adding entirely new product verticals to its portfolio. Ajax Systems has introduced whole new CCTV products with a different approach to privacy.

The company's latest camera line up includes the Turretcam, Bulletcam, and Domecam Mini, which have been designed to embody the signature of Ajax design shapes. Each camera model is packed with one of four possible configurations: a lens with a viewing angle of 85 or 110 degrees and 3K or 4K resolution. Every Ajax camera is engineered to easily adapt to changing light with True WDR technology. This smart tech, involving hardware and software, fixes uneven lighting in complex scenes, frame by frame, in real-time.

Also, the cameras are equipped with a digital microphone that uses a custom noise cancellation system, and in addition, all the cameras meet the IP65 protection class, capable of withstanding harsh weather conditions.

The new cameras seamlessly utilise the Ajax Cloud to transmit system events. The proprietary Jetsparrow technology ensures fast peer-to-peer transmission of video data. With AI analysis capabilities, these cameras can detect and recognise various object types, such as humans, vehicles, and pets. As a result, the surveillance system is able to record only relevant events, conserving storage space.

Video archives can be further optimised by setting up the pixel movement detection feature, and specific zones can be defined to ensure recordings are triggered only when movement occurs in the selected area. To

make surveillance precisely selective, it is also possible to enable cameras only when the system is armed.

The synergy of Ajax systems and video surveillance will be delivered by Ajax NVR — network video recorder. It offers integration with Ajax video management system (VMS), ensuring seamless synchronisation with the entire Ajax ecosystem, and allows wide compatibility with most IP cameras. The NVR is available in 8 and 16-channel versions, providing instant access to video archives through the Jetsparrow streaming technology with TLS encryption.

Traditionally, an Ajax hub represented an entire premise, and every Ajax system began with a hub. However, the company aimed to enable the inclusion of just a camera within the Ajax system. As a result, Ajax Systems has developed a virtual entity called 'Space.' Users can easily create a 'Space' within the Ajax app, add required devices, and manage them seamlessly. Space can function as a security system, CCTV, or both. It retains the Ajax hub's familiar interface, including the control tab, rooms, and quick access to automation devices.

Mobotix releases all-round view vandal multi-sensor solution

The newly launched Mobotix Move Vandal Multisensor PTZ Combo is an all-in-one video solution, especially for larger surveillance areas. The camera combines a 360° panoramic view with comprehensive PTZ functionalities (pan, tilt, zoom) in a single device. The versatile camera is ideal for indoor and outdoor applications, e.g. in parking and waiting areas, public areas, smart cities, airports, train stations, ports and industrial facilities.

Four fixed 5MP sensors with a 40° tilt angle ensure seamless 360° surveillance. The modules can be manually adjusted in three stages during installation to ensure optimum adaptation to the surveillance area at different distances. The Mobotix Move Vandal Multisensor PTZ combo camera with its compact and robust housing ensures security even in demanding environments and sets new standards in video surveillance of large areas.

The integrated high-speed PTZ camera enables panning and tilting with up to 21x zoom to capture all details precisely. The 2MP motorised PTZ unit, which is protected by a dome, achieves a pan/tilt speed of up to 500 degrees per second. In addition to manual operation, AI-based automatic PTZ control for object tracking in real-time is also possible. The camera seamlessly combines the multisensor and PTZ unit without manual calibration. In the event of an alarm, the PTZ camera tracks the relevant object and records the activities automatically.

AI-supported video analysis functions are integrated free of charge to detect unauthorised intrusion, movement in the wrong direction, crossing of lines or barriers, and loitering. The tools work on all four directional sensors simultaneously and enable reliable video surveillance and analysis around the clock.

The camera is used in almost every vertical, mainly the transport and mobility sectors and in government sectors. Possible scenarios include smart city applications (traffic flows/intersections), airports, railroad stations, ports, and public spaces. The camera works across all sectors in parking lots and storage areas. It also demonstrates its strengths in industrial facilities, retail spaces, hotel foyers and stadiums. The two-in-one camera provides an effective 24/7-overview and delivers detailed images of conspicuous events as required.

The integrated IT security TPM chipset, certified to FIPS 140-2 Level 3, stands for high data and cyber security. That is the latest version of the US government's computer security standard to validate cryptographic modules.

A 5-year guarantee underlines the longevity and reliability of the camera. The gear drive of the PTZ motor of the Mobotix Move Vandal Multisensor PTZ Combo also contributes to this. In contrast to conventional belt drives, it is maintenance-free and more durable.

"The new Mobotix Move Vandal Multisensor PTZ Combo is an innovative extension of our Move series for AI-supported 360° surveillance of large outdoor and indoor areas. It sets standards on the market for compactness, robustness, and reliability and - like all Mobotix Move cameras - is NDAA-compliant.

Resideo launches first Alert VX3 outdoor camera

Resideo Technologies, Inc., has launched a new video surveillance offering for residential and light commercial applications.

The First Alert Visual Experience (VX) Series features two video solutions that "offer meaningful notifications for person, vehicle, animal, and package detection: the new First Alert Outdoor Camera and the First Alert Video Doorbell," which was announced in March.

Video is a leading driver of consumer engagement within the smart home, and now professional security dealers can offer cutting-edge video solutions with outstanding video quality and reliability backed by First Alert brand.

The VX Series delivers premium performance, including AI-driven detection that can help reduce nuisance alarms for consumers, and a scalable video offering for professional installers.

The new First Alert Outdoor Camera is now available on the Total Connect 2.0 app and features:

- AI-Driven Alerts. Consumers receive meaningful notifications that matter most to them.
- High-Resolution, Crystal-Clear Video. The 2-megapixel camera with wide dynamic range provides vibrant, detailed video and features colour night vision in addition to infrared night vision.
- Two-Way Interactive Audio. Visitors can be greeted, or intruders warned, via the siren or the spotlight deterrence features.
- Durable Design. Ethernet and WiFi networking provide installation flexibility and redundant, as does Power over Ethernet (PoE) and 12-volt DC (direct current) power options, while it can withstand a variety of extreme weather conditions – including temperature, (-40 to 122 degrees Fahrenheit), humidity, dust, moisture, and ultraviolet rays. The First Alert Outdoor Camera integrates with Resideo's ProSeries Security Platform for on-screen video streaming and has seven- and 30-day video clip storage options.

360 Vision & Obsidian protect key national grid CNI site with predator radar cameras

Encompassing a vast Critical National Infrastructure (CNI) site with almost 10 miles of fence line and borders facing open water, the task of protecting the site's perimeter reliably, and detecting potential intrusion or other threats was the brief National Grid entrusted to Obsidian Security.

Simon George, Obsidian's Managing Director takes up the story: "Taking on National Grid's challenging brief, Obsidian had a reputation to uphold at this hugely important location, where having security personnel on-hand to watch every part of the site at all times, was quite simply, impractical. For security reasons, the exact details of this COMAH site cannot be disclosed."

"The site itself is very wide, the fenceline alone is nearly 14 kilometres, and there are jetties about two and a half miles away from the main site. We had been using thermal analytics to protect the jetty areas, but those turned out to be very unreliable."

"From the jetty areas, there are pipe tracks and vast expanses of open ground with nothing much to see, so you don't want to have security teams looking at camera feeds of just fence and grass all the time. We needed a technology that would reliably detect movement and potential intrusion over very wide spaces, and throughout all sorts of weather conditions, because being on the water can make visibility difficult at times."

With the expansive wide area brief in mind, Simon spoke to UK manufacturer 360 Vision Technology. Simon and his team had experience of working with 360 Vision Technology before, on previous high security CNI sites. "360 Vision suggested that their Predator Radar camera, the only ruggedised radar equipped camera of its kind on the market, would be suited to the task," explains Simon. "We also thought the radar camera might be a perfect fit for this deployment, so we decided to test it out, initially at Obsidian's headquarters."

The award-winning Predator Radar cameras from 360 Vision are specialist, radar-controlled versions of the ruggedised and renowned high speed, high-definition Predator PTZ camera. Predator Radar is designed for applications where wide area detection and tracking of moving objects is required.

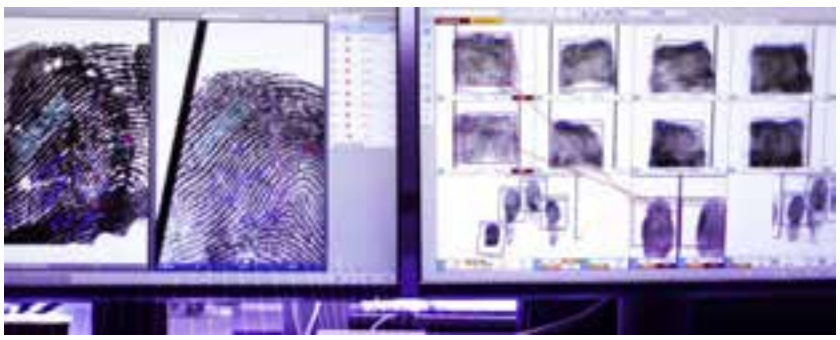
The radar camera provides a huge benefit because it does not rely on visual clarity alone for effectiveness. Furthermore, Predator Radar can work in all weather conditions and extremes of temperature, whereas other analytics-based camera systems often struggle in rain, fog, snow, mist, and coastal environments, as well as extreme hot and cold climates.

Predator Radar boasts a unique integrated radar and Predator 1080p HD camera, providing up to 200m radius (400m diameter) constant surveillance, scanning 360 degrees once every second to detect and automatically track up to 8 simultaneous objects. There's onboard edge storage as an option too, and control of Predator's intelligent long-range lighting, which offers up to 650m IR, together with white light and covert 'no-glow' IR options.

Following the success of the Predator Radar tests, Obsidian deployed 10 Predator Radars for perimeter detection at the CNI site, which join a host of other 360 Vision Invictus cameras installed throughout the facility. Simon continues: "The way this site is positioned, it can be approached from the water, so we set up a radar camera and arranged for a tug to come in underneath the jetty dolphins, to see if the Predator Radar picked it up, and it did."

Whenever the Predator Radars detect unusual movement, they swing around to catch the movement on video, and raise an alarm to let security operatives know what's happening. On the site, Obsidian is responsible for integrated security solutions, so they also take care of access control, barriers and power fences. The whole operation is integrated and controlled via Synergy 3 software from Synectics.

IDEMIA provides INTERPOL with an enhanced Multibiometric Identification System (MBIS) to support its 196 member countries



On the occasion of INTERPOL's 91st General Assembly – and 100th anniversary – the world's largest international police organisation announced the launch of its enhanced BioHUB, powered by IDEMIA's newest Multibiometric Identification System (MBIS).

This latest version, MBIS 5, integrates new generation algorithms, which provide a higher matching accuracy rate with a shorter response time and a more user-friendly interface. The first phase of its deployment to enhance the identification of potential Persons of Interest (POIs) for police investigations has already been operational since October 2023.

The second phase, which will be rolled out over the next two years, will extend this tool to border control points. The system will then be able to perform up to 1 million forensic searches per day, including fingerprints, palm prints and portraits, making it the top performing automated biometric identification system on the market.

IDEMIA's commitment to excellence is reflected in its consistently top-ranked identity and security technologies. IDEMIA still leads the biometric tech race covering iris, fingerprint and face recognition.

NIST's (National Institute of Standards and Technology) latest test results underscore IDEMIA's outstanding expertise and solutions combining efficiency, accuracy and equity.

INTERPOL currently has 196 member countries and enables law enforcement agencies from around the world to work together to make the world a safer place. INTERPOL's high-tech infrastructure of technical and operational support helps meet the growing challenge of combating crime in the 21st century.

Facial recognition is an important and rapidly evolving technology that has opened up many new opportunities to identify individuals and solve crimes. In 2016, INTERPOL opted for IDEMIA's advanced facial recognition capabilities to create the INTERPOL Face Recognition System (IFRS).

The IFRS contains face images from more than 170 countries, and since its launch, thousands of terrorists, criminals, fugitives, POIs, and missing persons have been identified.

In 2019, INTERPOL renewed its contract with IDEMIA to upgrade the current system and transform it into a Multibiometric Identification System (MBIS). IDEMIA and INTERPOL first began their collaboration in 1999, when IDEMIA delivered the original Automated Fingerprint Identification System (AFIS).

The Automated Fingerprint Identification System (AFIS) was designed to make cooperation easier between police forces from member countries, by giving them access to global police tools and services, namely forensics, fingerprint evidence and the exchange of forensic data to support international investigations.

Through AFIS, authorised users in member countries can view, submit, and cross-check these records using INTERPOL's secure global police communications network.

Cyril Gout, INTERPOL's Director of Operational Support and Analysis, said "In the same way that criminals use ever more innovative and sophisticated ways to avoid detection, law enforcement must also leverage the latest advances in technology, especially in biometric security, to better combat all forms of transnational crime. INTERPOL's enhanced partnership with IDEMIA will further help our member countries better protect their borders and communities."

Adriatic coastal resort enhances public security with Panomera

Jesolo is a popular holiday resort on the Italian Adriatic coast. To ensure security for locals and tourists on the busy beach and in public places, Panomera multifocal sensor cameras from Dallmeier are in use.

Jesolo, a coastal town of about 26,000 inhabitants in the Adriatic and more than five million tourists a year, sees a large increase in the number of visitors during the summer months which requires a great deal of organisation from all parties involved, also regarding the safety and security of residents and tourists. In summer, Jesolo's nightlife pulsates, and unfortunately, the risk of accidents and crime increases.

The city has made considerable efforts in recent years to improve its security infrastructure to create a safe environment for its residents and visitors – and video technology is an important aspect of this.

The challenge has been to monitor large public areas with as few cameras as possible, while maintaining high standards of image quality and ease of use. Conventional standard cameras were not able to meet these requirements. The security managers therefore decided to look for a new solution and found it in the Panomera multifocal sensor cameras from German manufacturer Dallmeier.

Panomera's patented camera technology has a number of features that make it unique in the industry. Multiple modules resp. sensors of different focal lengths are combined into a single system. Each module can be individually focused to capture a specific area of the overall image. As a result, multifocal sensor technology enables the simultaneous monitoring of large areas with high detail and exceptionally high resolution. In this way, Panomera achieves an overall resolution over the object space that far exceeds that of conventional single-sensor cameras.

Another advantage is that unlike PTZ cameras, which are limited to a specific area, the Panomera camera provides a comprehensive and detailed image of the entire surveillance zone – no matter where the security operator is focusing, there are theoretically any number of PTZ systems virtually available. For the operator in live mode, as well as for the forensic expert in recording mode.

Multifocal sensor technology provides an optimal overview of the entire event and enables comprehensive monitoring in real time. This allows security personnel to respond quickly to potential threats. If an incident does occur, the recorded video footage can be used to solve crimes and as evidence in court.

Dallmeier video technology has been used in Jesolo since 2019. The city's security managers were so satisfied with the system's performance that they decided to extend it a few years later. Now, Panomera cameras keep an eye on the main squares, streets, and sections of the beach.

Contd... from page 1

Video Surveillance Trends....

they are handled appropriately.

Adopting video analytics into the latest CCTV camera technology makes a video security operator's job easier by automating time-intensive, low-output tasks like watching hours upon hours of video. Now, teams can work smarter with the extra time and energy they have. With analytics providing fast, consistent intelligence, teams can make split-second decisions about how best to respond to incidents.

The growth of edge computing as one of the CCTV trends for 2024

The growth of edge computing is a major technological shift in the security camera industry and remains one of the 2024 CCTV trends. Edge computing refers to applications or functions that run within a device rather than at a central server. So, edge analytics, or analytics on the edge, uses video camera analytics technology to analyze video data at the point of recording instead of sending the video to a main server for analysis. In this case, the edge devices are security cameras such as dome or bullet security cameras. This is one of the latest trends in CCTV technology to gain popularity because:

Reduced latency equals faster decision-making. Latency is the delay before a data transfer begins. If a security camera was to continuously stream all its video to a central server, there would be some delay because this data is considerable in size. However, if a camera only sends small video clips as and when they are picked up as relevant, latency reduces because the file sizes are much smaller.

This means security teams not only receive more relevant information, they also get it even faster, which can make a difference in situations where operators have a matter of seconds to respond to an incident.

Smaller video clips mean less bandwidth and data storage. Cameras continuously streaming video to servers use a lot of bandwidth. When you consider that only a small proportion of that video is needed for rapid incident response, a more efficient method is preferable.

Cameras that send through relevant snippets put much less pressure on the network, using much less bandwidth. Not only does this mean that clips get through faster, it puts less financial strain on businesses, too, since there is less data to transmit and store.

Edge computing is the very latest CCTV camera technology. It sends accurate alerts quickly without straining a network, making it a popular video security trend. The CCTV camera market is developing hardware equipped to carry out many more tasks within the device itself, making for a more efficient network.

Cloud technology is changing how businesses manage video security

One of the 2024 security camera trends is the rise of cloud technology in security, particularly with video surveillance. The move to cloud technology empowers businesses to grow flexibly and scalably in almost every area, such as finance, hiring and distribution. In terms of commercial security, camera trends are also heavily influenced by the cloud.

Cloud servers and "As a Service software" offer flexible, scalable commercial security solutions

For many companies, the security camera industry trend of moving to the cloud means an improved IT infrastructure with greater flexibility and reliability for a lower cost. Factors such as cybersecurity and maintenance are handled by the cloud supplier, and tiered remote access is made easier for employees.

The security camera industry is seeing continued demand for IP cameras over analog

As businesses in the security camera industry and CCTV technology move their operations to the cloud and invest in new technologies like AI, it is logical that they will choose devices that fit into this new ecosystem. Analog cameras, which transmit a raw video signal over a coaxial cable, simply don't integrate as easily. While it is possible to enhance legacy analog cameras with newer video analytics technology, many businesses are choosing to upgrade to IP security cameras.

In a side-by-side comparison, the advantages of IP over analog become clear. For example, video quality is far superior. Image resolution in an IP camera can be from 6 to 20 times higher than an analog camera, enabling wider viewing areas and much more detail when zooming in.

IP cameras transmit video as a digital signal, which is usually better quality. If the signal is transmitted over Wi-Fi rather than cables, the risk of it degrading over long distances is

also significantly reduced. The latest CCTV camera technology is focused on improving CCTV cameras, such as IP pan-tilt-zoom cameras, to make them even smarter in various ways.

As the latest CCTV camera technology becomes easier to check on the go, it is also highly likely that 5G cameras and mobile applications will become even more effective and intuitive to use.

Thermal imaging cameras are gaining popularity in CCTV technology

As thermal security camera technology improves, security professionals are finding that they are a versatile piece of security equipment. Thermal cameras have been used to detect fire, and are also now a core part of video security systems that monitor sites in low lighting or night conditions. "Day-to-night" cameras are also sought-after in the CCTV camera market, which combine regular video and infrared technologies to monitor sites 247, removing the need for two separate sets of cameras.

If you think new technology could strengthen a weakness or improve a process, try it out one step at a time. Don't add video analytics, day-to-night cameras, and cloud servers all at once. Completely overhauling your video security without a proper risk assessment might create more problems than solutions.

These CCTV trends for 2024 and commercial security camera trends are set to continue and become more sophisticated over time. Review them and see what is right for your business, and adopt new technology in a considered way for the best chance of success.

French theatre and opera house get wireless fire system upgrade

Ramtech has recently completed fire installations at two stage venues in France, with its Wireless Fire and Evacuation System (WES). The firm has supplied systems for the ongoing renovation of the Chaillot – Théâtre national de la Danse and the refurbishment of the well-known Paris opera house, Palais Garnier. The WES is designed to provide a more comprehensive solution to mitigate potential risks during construction.

Stephane Stroesser, Business Development Manager, France at Ramtech, said: "Fire poses a significant risk to any construction site, jeopardising worker safety and causing extreme financial losses and delays in project timelines.

The Chaillot project, spanning two years, is reported to be a 40-million-Euro investment, led by the Eiffage group. Ramtech provided and installed its WES3 system, comprising 27 units and 10 mobile firefighting trolleys, ensuring comprehensive protection throughout the renovation. This commitment to safety reflects the venue's dedication to safeguarding employees and visitors.

Additionally, Ramtech helped in the recent €7.2 million refurbishment of Palais Garnier, where the façade and gilding were meticulously restored. The inclusion of the WES3 system added an essential layer of safety, the firm believes, where operation in historical and intricate environments means preservation is paramount.

Hanwha manages people flow at Vorbasse Market with AI

Vorbasse Market, known as 'Denmark's Biggest Family Tradition', is visited by up to 250,000 people every year. It began in 1730 as a horse and trader market and this continues, with the area hosting up to 500 horses, 650 traders, and more than 200 small animal traders annually. It has also expanded to include a campsite, one of Denmark's largest travelling fairgrounds, and an entertainment programme that includes DJs and live music.

The team at Vorbasse Market needed a way to manage queues, crowds, and bottlenecks in critical areas around the market, while also ensuring the safety of visitors, traders, animals, and equipment. Operators needed oversight of many different areas of the market, with ease, and to respond quickly to any events that required their attention.

Round-the-clock monitoring was especially vital because the market is not locked up at night, with members of the public still able to access areas within it. To improve visibility at night and in bad weather, the team was also looking for cameras with IR features.

The team turned to installer Outscale and Hanwha Vision to provide an intelligent, easy-to-use, video surveillance system for 24/7 monitoring of Vorbasse Market.

In total, 55 X and P Series cameras were installed across the site, with 45 of these XNV-6080R vandal-resistant IR dome cameras which are complemented by PND-A9081RV AI dome cameras.

Working alongside these cameras are PND-A9081RV AI dome cameras that have deep learning built into each device. This reduces false alarms, alerting operators only to genuine events and decreasing their fatigue and frustration, as well as helping teams to work more efficiently.

The cameras can detect loitering, different sounds, tampering, shock detection (which can indicate someone hitting the camera), and face mask-wearing. In addition, the PND-A9081RV comes with BestShot to help with bandwidth and storage limitations by only sharing the best captures of an image with operators. The XNV-6080R cameras feature video analytics that alert operators to loitering and tampering, plus audio detection for noises such as shouting or screaming.

With Hallway View, operators can monitor narrow areas such as walkways and around fences. To deliver clear images day and night, the cameras come with IR that has a viewable length of 50m as well as Lens Distortion Correction which ensures natural-looking images.

The PND-A9081RV can complete PTZ handovers to the XNP-8250R IR PTZ camera to help operators better understand the context of an event, or track the movement of an object across the market.

There are also bullet cameras, the XNO-8083R and XNO-C7083R, on-site that use AI analytics to detect objects (people, faces, and vehicles), virtual line crossing, motion, tampering, audio, shock, and appear/disappear.

In addition, integrations with automatic number plate recognition (ANPR) ensure operators know what vehicles are on-site and can aid them in managing parking capacity.

Video footage is shared with operators via a video wall that is powered by the Wave VMS. This enables the team to quickly see and understand events as they unfold and to easily track individuals and vehicles at Vorbasse Market.

Ground staff can also view footage via smartphones or tablets, allowing them visibility across the entire market while on-site and doing security patrols. As well as protecting visitors, video data insights are being shared with Vorbasse Market leadership to inform future planning. Popular routes through the market can be widened to reduce bottlenecks, for example, or staffing schedules can be planned based on seasonal data.

People counting is being used by the Vorbasse Market team to better manage the flow of customers through the area, to ensure crowds are managed effectively for safety, and to offer the best visitor experience. Areas can be proactively closed before they become overcrowded.

AI collaborates with video cameras to provide early warning of wildfires

Technology increasingly makes it possible to identify wildfires early and before they get out of control. Networks of video cameras watch wildlands for the first hint of fire, and now artificial intelligence (AI) is being deployed to interpret data from those cameras and alert personnel about an imminent wildfire sooner than ever.

FireScout is an AI program seeking to address the issue of wildfires. Using AI, the program can create awareness and "understand" smoke from 10 to 25 miles away, based on the video from a digital camera set up in the field. In a test conducted with utility Pacific Gas and Electric (PG&E) in California, the technology was able to detect 200 out of 300 fires, each in less than a minute. "Golden moments" are the time that lapses between when a fire starts and when it is reported, a critical time when a potentially catastrophic fire can be averted.

In the case of FireScout working with a network of video cameras, that period has been reduced. In some documented cases, notification preceded the 911 call by minutes or even a couple of hours. The program also can detect fires at night when everyone is asleep. In remote areas where cameras are located, there may be no one around to call 911 anyway.

A fire-spotting camera sends a digital image to the AI cloud, where advanced AI systems detect smoke and then send an alert for confirmation. The "human-in-the-loop" monitors the system to observe false alarms and to confirm a positive alert. Human-confirmed fires populate a FireScout dashboard and trigger an alert by SMS and email.

A 3D map view allows users to have better topographical information, and users can share the response status with their colleagues and stakeholders. FireScout has worked with public utility companies, individual businesses, and high-net-worth properties to increase early detection of wildfires.

The technology is based on AI analytics software developed by Alchera, a 10-year-old public company in Korea. The company operating outside Korea is called Alchera X and includes the FireScout AI program to detect wildfires.

Currently, there are about 1,000 video cameras installed to watch out for wildfires in California, with more cameras to be added. There are also 300 to 400 cameras watching for wildfires in other states, including Washington, Oregon, and New York. In addition, there are several hundred cameras installed outside the U.S. in Korea, Australia, and soon, Canada.

Beyond California, FireScout is working to minimise wildfires in Australia, and beginning now in Canada, the early steps in an expected global rollout.

In February 2023, the head of the Korean Ministry of Interior and Safety visited the United States to discuss installing Alchera X FireScout AI software to resolve the wildfire issue plaguing their country.

FireScout has the most accumulated user data among AI systems with over 10 million exclusive and independent images of smoke, clouds, and dust storms. They have more than a billion total training images accumulated for AI education. The system detects smoke or fire as soon as it is visible in the camera frame.

FireScout's "human-in-the-loop" process ensures 99.9% accuracy. Given the high rate of false positives, humans are deployed to verify a fire before sending first responders.

If a camera detects smoke suggesting a nascent wildfire, the FireScout system sends a short snippet of video to allow a certified human monitor to see where and how much smoke there is. Monitors are carefully trained and have familiarity with the geography and various types of smoke.

FireScout works with Mighty Fire Breaker, a company that provides a fire suppressant chemical that can be applied to brush or to property and/or houses. High insurance costs are driving companies out of California, and such a fire-suppressant strategy can lower insurance costs.

In addition, the use of helicopters, alerted by text message or email can respond to fires. Helicopters located throughout the state of California can drop water on a fire within about 10 minutes.

Helicopters include "personal size" smaller helicopters, operated by remote control, and even Blackhawk military-size helicopters. FireScout works with RAIN (Rapid Aviation Integrated Needs) Fire to deploy services faster than other fire fighting organisations in response to fire reports.

When looking at smoke, there should be no margin of error. Over time, as AI becomes smarter, it might one day be possible to approach 100% accuracy using only AI.

Currently, AI struggles to differentiate between actual smoke and a business smoke stack or even snowmaking equipment in a ski area.

Nirovision unveils innovative AI Safety Agent Alarm for real-time incident monitoring

Are business alarms set to change forever? Nirovision, an Australian trailblazer in AI-powered video analytics thinks so. The company unveiled its latest breakthrough, Safety Agent Alarm, a world-first innovation that allows an AI agent to actively monitor a workplace's security cameras and promptly alert for security and safety concerns.

With AI analysing footage in real-time, the Safety Agent is smart enough to distinguish between non-events and genuine safety concerns but can also be given custom prompts and extra knowledge such as "Hi-vis vests are mandatory on-site" to ensure adherence to specific safety rules.

Unlike traditional business alarms which are limited to basic motion detection, Safety Agent Alarm empowers workplaces to be notified of events that were previously deemed impossible.

These are just a few examples of the different kinds of alerts Safety Agent Alarm can detect:

- Alert for someone lying on the ground.
- Alert for someone on the roof near the edge.
- Alert if a worker looks injured.
- Alert for people physically fighting.
- Alert for a person climbing a fence.
- Alert for a vehicle load not suitably restrained.
- Alert for someone who seems trapped eg. in a cool room.

As a company that develops its own AI models in-house, Nirovision has already seen the impact its technology is having on workplaces. Whether it is automating site access or enforcing compliance, the addition of the Safety Agent Alarm is another exciting AI development that is set to revolutionise workplace monitoring.

Today, multimodal large language models are capable of recognising and discerning what it sees and transcribing its observations in great detail. This, in concert with efficient object detection models, allows workplaces to receive descriptive alerts for previously unseen safety and security events in real-time.

Bosch enhances video based fire detection with AI

Bosch Building Technologies introduces an innovative advancement in fire safety with the Aviotec 8000i IR camera. This new version of its video-based fire detection solution promises to revolutionise fire protection in challenging environments, such as in manufacturing, where hazardous materials that carry high fire loads are stored outdoors, in semi-open spaces, in solar plants or electric car charging stations where wind makes it difficult to detect smoke.

The Aviotec 8000i IR camera achieves on average 3x faster detection times compared to current aspirating smoke detectors – significantly improving speed. This is according to the company's own EN54 Firetests at the Bosch Fire lab. Within its specifications the enhanced AI algorithms also allow for greater reliability and accuracy in distinguishing real fire situations from false alarms. The alarm, based on an actual fire, or trouble signals, can be transmitted to a local network, or by two relays, also to the central fire panel. Trouble signals could for example result from a tilted camera, a blocked lens or a power failure.

The new camera further increases fire safety by providing fire protection 24/7 thanks to its integrated infrared (IR) illuminator. Within its specifications it ensures the camera is fully operational even in total darkness (at 0 Lux), reliably detecting smoke and flames with pure infrared illumination. No additional lighting is required, not even any emergency lighting, making it easier and more cost-effective for specifiers and installers to use the camera.

Installation of the camera is further simplified by the fact that it is a one-product solution, meaning that no accessories are required. The rugged IP 67 (waterproof) housing, IR-illuminator, new 4-megapixel sensor and motorised lens are all integrated into one unit. In addition, Aviotec´s Power-over-Ethernet (PoE) eliminates the need to install power cables.

The new features of the Aviotec 8000i IR camera open up a range of new applications, improving fire safety in particularly challenging environments such as manufacturing, where hazardous materials stored outdoors can easily ignite. Irrespective of the weather and lighting conditions, Aviotec's flame and smoke detection can help to prevent fires from spreading into buildings by detecting fires in open spaces directly at the source, without the need for smoke to reach a fire detector installed indoors, such as on a warehouse ceiling.

Another area where the new Aviotec camera helps to improve fire safety is in train, metro, and bus stations where brakes or electricity can be a source of fire that takes standard fire alarms too long to detect. Aviotec also helps improve fire safety in electric car charging stations where batteries can catch fire. Charging stations are often located in half-open parking garages or outdoors where the wind can blow smoke in different directions. The highly sensitive AI algorithms with deep learning technology of the Aviotec 8000i IR camera help to detect smoke in windy conditions.

Fire Safety First: Here's how to make your premises fire safety compliant

When it comes to investments, fire suppression is the one we hope to never utilize. All too often it acts like a safety blanket, unseen yet always there, a hidden investment policy we hope never to have to cash in. With systems we manage daily, such as heating, air conditioning, and lighting, a fault is often noticeable and easy to identify. But how do you quickly ascertain an issue with fire safety infrastructure?

The introduction of the RRO Regulatory Reform (Fire Safety) Order 2005 in the U.K. took the responsibility for fire safety away from fire and rescue services and placed the obligation solely on the building owner or occupier.

To align, every commercial or industrial property must have a designated individual who is responsible for fire safety, and the onus is on them to make their premises compliant. Failing this, fines, prosecution, and even custodial sentences can be implemented.

Fire suppression systems can generally be forgotten, trivialized, or taken for granted when in reality they are the unsung heroes of commercial, industrial and residential properties.

A recent study from the US National Fire Protection Association (NFPA), shows sprinklers were found to reduce civilian deaths by 89% and firefighter injuries by 60%, proving their ability to simultaneously control fires and protect property and commodities, all the while keeping members of the public safe.

Below are top tips on how to approach fire safety and protect property, commodities, and building occupiers.

To increase awareness of fire safety compliance and ensure that all buildings meet industry-approved standards, RISC Authority and the Fire Protection Association (FPA) have teamed up to support those with limited experience or knowledge.

Their new Sprinkler System Service & Maintenance guide gives building managers, owners, and occupiers the confidence to manage this element of fire safety, with easy-to-follow guidance, templates, and checklists.

When assessing and planning for fire safety, watch out for common pitfalls to make premises fully compliant. Ensure the product supplier, installer or servicing contractor is third-party

accredited so that the fire protection systems are fully compliant.

It is a delicate balancing act between cost and compliance, but there is no guarantee the cheapest option meets national compliance standards if they are not accredited. A higher cost can mean an increased duty of care, better call-out times, and emergency service.

Check the age of your sprinkler system, as the water storage should be drained and its condition assessed every 10 years. Failure to do so could result in the tank collapsing and perhaps flooding your premises if not checked regularly.

Age is also important for the sprinkler heads themselves and these should be inspected and tested every 25 years. To ensure that they can still operate as intended in a fire condition and distribute water as they should, a sample selection is required to be removed from service and sent to an independent lab, like the FPA's for Inspection and Testing.

Carry out regular "Hazard Reviews" of fire safety infrastructure. An expert will visually inspect the systems in place to ensure they meet the industry standard and advise of any updates that are required.

Hazard Review is an essential way to reveal blind spots in fire safety and suppression systems. Over the years, it has been discovered sprinklers that are not connected to system pipework and identified ill-fitting fire doors that are not fit for purpose on hazard review inspections, all of which can pose a major danger in the event of a fire.

Especially relevant post-COVID with the development of hybrid buildings and flexible workspaces, it is important to monitor the change of use. When the purpose of space changes, so do its fire safety requirements.

Sprinkler systems may have been originally designed and installed for one particular hazard, so if the use of that area or building changes, its risk classification may also become more onerous.

IFSEC India 2023 ensures quality as well as quantity attendance

The 16th edition of the International Fire and Security Exhibition and Conference (IFSEC) India Expo, organized by Informa Markets in India, began on 7th of December 2023, setting the stage for a remarkable first day that showcased cutting-edge security solutions and global insights. Being held at Hall 5, Pragati Maidan, New Delhi, the expo witnessed the active participation of over 300 leading brands from more than 20 countries, with an expected attendance of 12,000 industry professionals spanning 3 days.

The show was inaugurated by Chief Guest, Mr. D.R. Kaarthikeyan, IPS, Former: Director, Central Bureau of Investigation; Director General, National Human Rights Commission, (India); Mr. Alex Ellis, British High Commissioner to the Republic of India, Special Director General, Central Reserve Police Force, Mr. R. Sathiyasundaram, IPS, Addl. Commissioner – Traffic, Delhi Police, Mr. M.S. Upadhye, IPS, Advisor-Security, Rapid Metro Corridor and Mr. Shiv Charan Yadav, President, Asian Professional Security Association, Mr Pankaj Jain, Sr. Group Director & Digital Head, Informa Markets in India and Mr Sanjeev Rao, Project Director, Informa Markets in India, amidst an august gathering. The expo was also marked by leading industry associations, government bodies, research partners, training providers, and education specialists.

The expo provided security professionals with a comprehensive 360-degree offering, covering video surveillance, biometrics & RFID, access control, AI, IoT, Safe Cities, information security, GPS systems, video analytics, and intelligent building systems. Premier Plus Partners, including CP Plus, Dahua, Hikvision, Prama, Magtech, Realtime, Tiandy, Timewatch, Trueview, ZKTeco, and Premier Partners such as Bioroles, eSSL, Godrej, Syrotech, TVT, and XYZ Digital, showcased their latest innovations, attracting a keen audience.

Mr. Yogesh Mudras, Managing Director, Informa Markets in India, expressed his enthusiasm about the show, stating, "The Security market in India has reached an impressive annual growth rate of over 10%. This aligns seamlessly with the growing demand for heightened security measures, especially in the context of developing smart cities. The mission-critical imperative is to ensure the highest order of comfort, efficiency, and safety, necessitating strategic interventions. Modern technologies, such as Facial Recognition Technology, play a pivotal role in this narrative, as exemplified by the active implementation of a Facial Recognition System (FRS) by the railways. However, it is crucial to acknowledge potential consequences associated with the unchecked use of smart technology, including the risks of mass profiling and unwarranted surveillance."

The expo witnessed the launch of www.ifsecmarket.com, a 24×7 online B2B marketplace platform designed to facilitate business connections among buyers and sellers both during and beyond the event. The marketplace provides a seamless avenue to showcase products and services effortlessly.

As part of the first day's events, the two-day conference on "Demystifying Security Tech for a Safer World" was provided. Over 30 esteemed panelists, speakers, and influential figures from the commercial security industry engaged in insightful discussions on topics such as the changing paradigm in corporate security, the role of technology in ensuring corporate security, emerging drone technologies, cyber frauds, and more.

The show included engaging seminars and workshops delving into diverse subjects, including Integrated Technologies for Safe Cities in the New Normal, Smart Indigenous Video Security Products for Smarter Vertical Solutions, Reimagining Corporate Security and the Role of CSOs, Developments in AI, Cyber, Physical, and Environmental Security, as well as Tech-Enabled.

The stage was also set for the 6th edition of the IFSEC India Awards, recognizing innovation and excellence in electronic security, fire security, physical security, cyber security, access control, and perimeter security. Nominations from Security Heads, entrepreneurs, and companies highlight their consistent contributions to security solutions, novel ideas, and best practices. The IFSEC India Awards provide a lauded platform for showcasing expertise guided by process advisors EY.

Through the three days, the show attracted huge crowds that witnessed cutting edge security technology which apart from surveillance included access control methods. Most visitors expressed satisfaction at the quality of the show which will now return to its earlier format of being spread across multiple halls next year.

IFSEC India 2023's triumphant commencement not only illuminates present achievements in security solutions but also envisions a future where global collaboration and cutting-edge technologies will continue to redefine the landscape of safety and protection.

New technological advancements in luggage screening powered by AI

Tech talk

Aviation security has continually adapted, advanced and leveraged developments in technology to mitigate the risks from increasingly severe and sophisticated threats. In the last 20 years, it has evolved beyond recognition and is set to take the next significant step forward at the passenger checkpoint – the introduction of certified Automated Prohibited Items Detection Systems (APIDS) and a path to alarm only viewing. Here, Smiths Detection looks at the impact of new technologies in the baggage inspection industry and how these new standards will be implemented over the coming years.

Early air passengers boarded without screening and very few restrictions on what could be taken on to the plane. By the 1980s and 1990s, metal detectors and X-ray equipment were introduced to combat the growth in terrorism.

In 1999 ECAC Standard 1 laid down the certification and testing procedures for hold baggage explosive detection systems (EDS). The objective was to ensure EDS could accurately detect a broad range of explosives whilst minimising false alarms. These systems were early examples of certified, automatic detection algorithms in the screening process.

EDS Hold Baggage systems meeting the updated and revised Standards 3, 3.1 and 3.2. (2015 onwards) are certified for fully automated, alarm only viewing - therefore, only images raising an alarm are diverted for inspection by operators.

This was made possible by developments in computed tomography (CT) systems which could be deployed as the primary screening technology - previously CT had only been used for alarm resolution. Having been successfully deployed for several years, this concept is now well proven and soon to become a reality at the passenger checkpoint.

By 2016, ECAC was developing EDS standards for cabin baggage with a choice of compliance options - EDS CB C1, C2 and C3. Requiring the then newly developed checkpoint CT X-ray scanners, C3 offers the highest level of automation. CT scanners spin around the object and take hundreds of images at slightly different angles to deliver a detailed 3D image, allowing for more accurate judgments on the bag contents.

This technology relies on detection algorithms and allows electronic devices, liquids and gels to be left in hand baggage for X-ray screening – taking checkpoint security closer to fully automated, alarm only viewing.

Access to cabin baggage (and potential weapons) mid-flight makes checkpoint screening particularly complex. Advances in AI based algorithms have enabled real-time, automatic identification of a fast-growing range of prohibited items: for example, firearms, sharps (such as knives & scissors), axes, grenades, blasting caps, ammunition and blunt objects.

They can already be used to support image analysts by framing any suspect items – the next stage is certification for a new CONOPS.

The EU ECAC APIDS Standards certify the algorithms which automate the process of image analysis. According to Smiths, there will be three standards, each increasing in levels of detection; and decreasing in percentage of mandatory random alarms. APIDS standards will be combined with ECAC EDS CB standards to permit different degrees of automation and allow a gradual move towards alarm-only viewing.

Testing for APIDS Standard 1 is underway; only systems with EDS CB C1, C2 or C3 approval are eligible for testing and Smiths Detection Icmore APIDS algorithms are being tested together with the Hi-Scan 6040 CTIX, Hi-Scan 6040aTiX and Hi-Scan 6040-2is HR. Further EDS scanners will follow as each algorithm has to be tested in combination with specific hardware. Standard 2 certifications are likely to follow within months on Standard 1.

APIDS Standard 3 will provide certification for alarm only viewing plus 10% random alarms. It will require scanners pre-approved for the forthcoming EDS CB C4 which will almost certainly be restricted to CT based equipment.

Regulators are looking for continuous improvements in security which can only be achieved by taking advantage of new technology, including using AI for object recognition. Deploying the latest technology can also significantly reduce or eliminate the need for additional, random search requirements such as metal detectors or bag search etc.

Algorithms do not need breaks, get tired or make mistakes and they are 100% impartial – they do not have a 'bad day' or personal issues which can impact performance. They reduce the insider threat and in trials, have been seen to outperform image analysts.

Full automation with alarm only viewing has more than proved itself in hold baggage screening and with additional certified algorithms to spot cabin threats (such as weapons), it should be equally effective at the passenger checkpoint. In addition to higher levels of security and a more streamlined screening process, automation has a positive impact on staff deployment and operational expenditure. To reap the full benefits of APIDS and achieve operational savings, Icmore APIDS needs to be combined with centralised screening to allow optimum utilisation of screener resources.

The challenge, according to Smiths Detection, will be to respond proportionately and appropriately in developing security measures. Security is about mitigating risk and regulators will increasingly work together with suppliers to understand and evaluate likely threats; establish the best technical solutions to address those threats; and develop new regulatory standards.

APIDS certification underlines that AI and automation are the way forward and will continue to play a key role in aviation security. Once certified, algorithms cannot be changed without recertification. However, it is relatively straightforward to develop additional detection algorithms as needed to address new and evolving threats.

Top benefits of integrating access control into a security system

In today's rapidly evolving security landscape, businesses need robust solutions to protect their premises and assets. One such solution is an access control system, which offers numerous benefits in terms of security, control, and peace of mind. Here in this article, Acre will explore the top seven benefits of implementing an access control system into a security system.

1. Enhanced security

Implementing an access control system can significantly enhance the security of any premises. Access control allows users to restrict entry to authorised individuals only, preventing unauthorised access and potential security breaches.

2. Control access

An access control system gives complete control over who can enter specific areas within the premises at predetermined dates and times. Users can define access levels and permissions based on roles and responsibilities, ensuring that only authorised personnel can access sensitive areas.

3. Protect valuable assets

With an access control system in place, users can protect their valuable assets, such as equipment, data centres, or confidential information. By restricting access to authorised individuals, users reduce the risk of theft, vandalism, or unauthorised use.

4. Monitor and track entry and exit

Access control systems provide real-time monitoring and tracking of entry and exit events. This allows business owners to keep a record of who accessed specific areas and when, which can be invaluable for security investigations or compliance purposes.

5. Mitigate security risks

Access control systems help mitigate potential security risks by providing an added layer of protection. By implementing measures such as biometric authentication or mobile credentials, users can ensure that only authorised individuals can gain access, reducing the risk of impersonation or unauthorised entry.

6. Streamline Operations

Access control systems can streamline operations by automating processes such as granting access and managing permissions with a connection to your HR software; receiving text messages in the event of an alarm; and generating / scheduling reports. Leveraging business efficiency saves time and resources, allowing your security and IT teams to focus on other critical tasks.

7. Peace of Mind

Implementing an access control system gives you peace of mind, knowing that your premises and assets are secure. It provides a proactive security solution that deters potential threats.

Implementing an access control system offers numerous benefits for businesses looking to enhance their security systems. From enhanced security and control to protecting valuable assets and streamlining operations, an access control system is a valuable addition to any comprehensive security strategy.

Partnering with **Kawach**
will always be a *BRIGHT* idea

KAWACH PROTECTION SYSTEMS
Excellence on Guard

SECURITY SOLUTIONS FOR HOMES & BUSINESSES

Established in 1983, Kawach has been the most trusted source of highly efficient and dependable electronic protection solutions for thousands of end users across India. As a Master Distributor of Jablotron, the world`s leading European manufacturer of high quality intruder alarm systems, Kawach has access to the latest technological innovations. We provide a full range of wired and wireless alarms with GSM/LAN communicators, central monitoring stations, comprehensive training and support to our business partners.

JABLOTRON CREATING ALARMS

JA-100. The addressable 4 wire alarm system range

Complete solutions for Intrusion Detection & Alarm Systems
When it comes to making a choice of technologies and devices to protect life and assets, we uncompromisingly leverage our 33 years of hands-on experience to suggest the best technology, field proven devices that fit within the assigned budget. Our arsenal comprises of military grade systems to simple home and personal security systems.

Call today to schedule a training, see a live demo or to place an order...

"Security House"
24-B Udyog Vihar - V, Gurgaon-122016, India
Tel: +91 - 124 - 4001111 | E-mail: info@kawach.com
Web: www.kawach.com

INDUSTRY EVENTS

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

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

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

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

INDIA
17-19 January, 2024
9th Smart Cities India 2024 Expo
Pragati Maidan
New Delhi, India
http://www.smartcitiesindia.com/

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

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

RUSSIA
28 February - 2 March 2024
SecureExpo 2024
Ekspograd-Yug
Krasnodar
Russia
http://www.securexpo.ru/en-GB/

UK
12 - 14 March 2024
Security & Policing 2024
Farnborough International Exhibition and Conference Centre, Farnborough, UK
https://www.securityandpolicing.co.uk/

JAPAN
Security Show 2024
12-15 March, 2024
Tokyo Big Sight
Tokyo
Japan
https://messe.nikkei.co.jp/en/ss/

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

AUSTRIA
20-22 March 2024
ASIS Europe 2024
Vienna
Austria
http://www.asiseurope.org

USA
09-12 April 2024
ISC WEST
Venetian Expo
Las Vegas
USA
https://www.iscwest.com

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

UK
30 April - 2 May 2024
The Security Event
N.E.C.
Birmingham
U.K.
https://www.thesecurityevent.co.uk/

UK
30 April - 2 May 2024
The Fire Safety Event 2024
N.E.C.
Birmingham
U.K.
https://www.firesafetyevent.com/exhibitors/fireco

NIGERIA
07-09 May 2024
Securex West Africa 2024
THE LANDMARK CENTRE
Lagos, Nigeria
https://www.securexwestafrica.com/

INDIA
09-11 May, 2024
SAFE West India
Hall No. 2, BEC
Mumbai
India
http://www.safeindiaexpo.com/

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

USA
03-06 June 2024
ESX Electronic Security Expo
Kentucky International Convention Center
Louisville, KY USA
https://www.esxweb.com

UK
04-05 June 2024
Infosecurity Europe
Excel
London
United Kingdom
http://www.infosec.co.uk/

SECURITY UPDATE Postal Registration No. GRG/32/2022-23
Published on 28th day of every month

SECURITY UPDATE is registered with
The Registrar of Newspapers for India, No. HARENG/2011/39714

HIKVISION®
See Far, Go Further

HIGH SPEED FACE RECOGNITION TIME ATTENDANCE & ACCESS CONTROL SYSTEM.

DS-K1T671TMF
50000 User

DS-K1T671MF
6000 User

Product Highlights:

- 7" touch Screen, 2 Mega pixel wide angle-lens
- Face Recognition in Dark environment
- Face Recognition Distance 0.3 to 3m
- Face Anti spoofing
- Two Way Audio with client software, Indoor station, Master Station
- Configuration via Web Browser
- Face Recognition in Duration <0.2 Seconds /User
- Connect Via Hik-Connect Mobile App (Hik-Connect)

Specification:

- Face Capacity Up to 50,000
- IP Rating IP65
- Card Type Mi-fare 13.56MHz
- Deep Learning Algorithm

/HikvisionIndiaOfficial

Prama Hikvision India Pvt. Ltd.

/HikvisionIndiaOfficial

Registered Office:
Office No.1-4, 2nd Floor, Siddhivinayak Arcade, Akurli Cross Road No.1, Near Kandivali Station, Kandivali (E), Mumbai - 400 101, India.
CIN: U36100MH2009PTC190094

Corporate Office:
Oberoi Commerz II, International Business Park, 18th Floor, Near Oberoi Mall, Off. W. E. Highway, Goregaon (East), Mumbai - 400063. India.
Board No.: +91-22-4041 9900, +91-22-6855 9900 | **Web:** www.hikvisionindia.com

Technical Support: +91-22-6822 9999, +91-22-3322 6060
Email: support@pramahikvision.com

Sales: +91-22-6822 9944, +91-22-4041 9944
Email: sales@pramahikvision.com

RMA Support: +91-22-6822 9977, +91-22-3322 6070, +91-250-663 6677 | **Email:** rma@pramahikvision.com