

Wired Vs. Wireless Security Cameras for Small Applications: The Pros and Cons



Wireless security cameras are closed-circuit television (CCTV) cameras that transmit a video and audio signal to a wireless receiver through a radio band. Many wireless security cameras require at least one cable or wire for power; “wireless” refers to the transmission of video/audio. However, some wireless security cameras are battery-powered, making the cameras truly wireless from top to bottom.

Wireless cameras are increasingly finding favour with the SOHO consumer segment, as they are easy to install, inexpensive and getting feature rich rapidly.

Protecting your home and business is easier than ever with security camera systems. Using either wireless or wired cameras, you can monitor your protected premises remotely. When you're yourself present, the system acts as a second set of eyes around your property. Wired cameras require

more set-up time and effort but offer greater reliability. Wireless security cameras are inexpensive and they set up quickly. But network failure and on-site tampering are possible downsides. Let's examine the pros and cons of wired and wireless camera systems.

What is a Wired Security Camera System?

Wired security cameras transmit video and audio signals through a wire to a central hub. The footage can either remain local on the hub for later viewing or it can be sent outside of the home to a network. The network allows users to view the video live or watch it later.

Wired security cameras receive their electrical power via a hardwired cable. This power might come directly from a power outlet. Or the power may be sent through the wire that connects to the central hub: the PoE (Power Over Ethernet)

cable.

The central hub is usually located in or around the protected premises. The hub is sometimes a digital video recorder (DVR) that is attached to the cameras with coaxial cables. Alternatively, the hub may be a networked video recorder (NVR) system, which is used with the newer Internet Protocol (IP) cameras. Instead of coaxial cables, the NVR system uses PoE (CAT5/6) type cables.

Pros

- Clear video and audio signals
- Reliable signals, that don't drop/degrade
- Constant power to cameras
- Wireless hacking of wired system not possible

Cons

- Not portable; system remains with the premises. If you

move, the installed wiring infrastructure usually gets wasted.

- Lengthy wiring must be hidden
- Wiring must be run to numerous locations/endpoints
- Number of cameras limited by number of video input connectors on the DVR

Advantages of Wired Security Cameras

With the prevalence of low-cost wireless security cameras, it's easy to perceive wired camera systems as a thing of the past. This is far from true. Wired camera systems are a strong option

for security applications and they offer advantages over wireless systems.

The chief advantage of wired camera systems is that the feed to the hub remains safe. The signal will not break or degrade. As long as the wire is in place, the hub should always be receiving the feed uninterrupted and at maximum fidelity. Wired security camera systems work well for multiple camera installations throughout many areas of the protected premises and to the exterior because the signal will not be impeded by walls.

Disadvantages of Wired Security Cameras

Installation is the

main downside to wired security camera systems. Between four and 16 cameras may need to be set up for small applications. Because you want to cast a wide view across your home and property, it is not possible to cluster the cameras to save on wiring. Wires for security cameras are long—hundreds of feet, total. Since few homeowners care to have exposed wiring tacked to baseboards and walls, all wires must be fished through walls, ceilings or crawl spaces.

What Is a Wireless Security Camera System?

Wireless cameras are proving very popular among modern security

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Dear Reader

In homes, in commercial premises, in public buildings and beneath the streets, wires and cables have always been the arteries of our electric-powered society. And while cabling remains the optimum means of powering a system's central hardware, there are many benefits to connecting devices on the periphery "over the air" instead.



Installers of home security systems once viewed Wireless Security Systems as a last resort to be used only when nothing else would work. But as the systems become more versatile, rugged and dependable, many security installation companies today use wireless technology almost exclusively.

The first wireless security alarm systems were spotted in the commercial market in the early 1990's. Initially for many years the installers kept a safe distance from this new technology as it was prone to false alarms and no one wanted to burn their fingers trying out new stuff. However, today the situation is entirely different. Most installers shudder when they look back and think of the endless hassles involved with wired systems, where miles of wires needed to be run all over, consuming countless man-hours of work.

Wireless alarm systems have made life simpler for everyone. The installer and the end user are both happy using this new exciting technology. Wireless security systems have many advantages, the biggest being in saving labour cost, followed by the time saved and flexibility of locating and positioning the system components.

Modern wireless security systems have become very versatile. Apart from guarding against intrusions, they protect against outbreak of fires, leaking LPG pipes and cylinders, and flooding of low lying areas. They even control temperature and switch on and off appliances as part of building automation.

As with most electronic items, over the years the cost of wireless alarms has been coming down, while the technology has been getting better. Considering standards, sustainability, mobility and cloud technology as they continue to shape the future, wireless security systems have expanded to include access control and video surveillance as well. Wireless communication has come a long way since the 90s. After intrusion, the access control market is perhaps expanding faster than CCTV. Communicating via NFC and, more commonly, Bluetooth Low Energy is a plethora of wireless readers, locks and tags currently available on the market.

The benefits of wireless technology as championed by its providers outweigh the disadvantages. As electronic access control business became more reliable, cost-effective and versatile, end users continued to electronically secure higher numbers of entrances. Where once they may have only secured a building's main entrance or perimeter, they grew keener to expand security to internal doors as well, to limit access to specific groups of people or those with higher authority. Using a battery-powered lock to secure assets which were difficult or impossible to secure with hardwired systems has become a reality today.

To sum it up, wireless security systems are getting cheaper, are fast to deploy, easy to install and result in clean and aesthetically pleasing installations. They have more versatile functions and numerous accessories are available to suit diversity. They are movable after installation (even to the point of re-installing at a new premise with minimal fuss).

The long and the short of it all is that wireless security systems are here to stay and most of the major professional manufacturers have recognised that the majority of future installations will be made up of wireless systems, and are producing equipment to meet this market demand.

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

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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.



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Printed, published and edited by G B Singh on behalf of

1st Academy of Security Science Education & Training Pvt. Ltd.

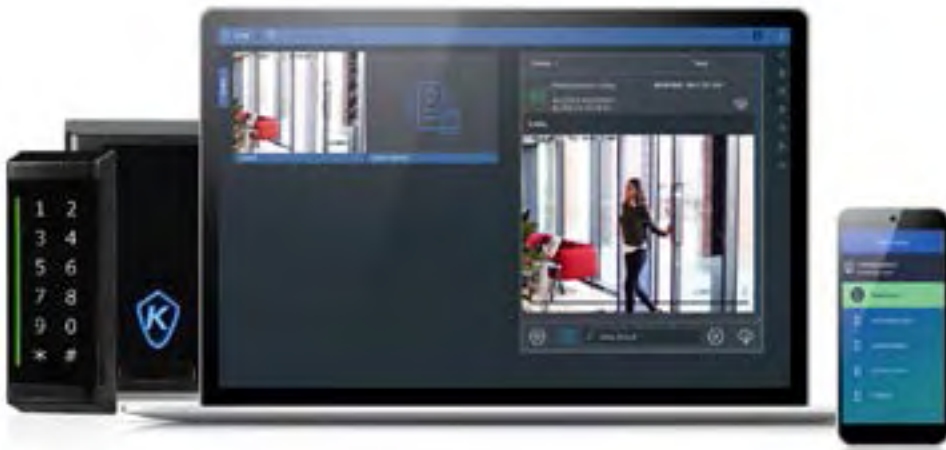
Printed at Ask Advertising Aids Pvt. Ltd.

88 DSIDC Sheds, Okhla Indl. Area Ph-I, New Delhi 110020

Published at "Security House", 24-B, Udyog Vihar-V, Gurugram 122016, Haryana, INDIA.

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Johnson Controls adds powerful, cloud-based door access control to Cloudvue platform



Johnson Controls, the global pioneer in smart, healthy, and sustainable buildings, is introducing Cloudvue with access control, with the Tyco Kantech KT-1 one-door controller.

This powerful technology collaboration enables centrally managed cloud video surveillance and access control across an entire organisation from a single browser, part of Johnson Controls' commitment to providing technology so customers can maintain safe

building environments, healthy business operations, and seamless occupant experiences.

The combination of the KT-1 one-door controller and Cloudvue Security Management allows organisations of all sizes to easily manage doors, users, and schedules from any browser or mobile device. Users can receive intelligent alerts on real-time door activity from the integrated video surveillance and access control platform.

Cloudvue provides

organisations with powerful intelligence that streamlines security, improves operational efficiency beyond security, and integrates with the Johnson Controls OpenBlue digital platforms, a complete suite of connected solutions for sustainability, new healthy occupant experiences, and safety and security solutions.

The combination of the KT-1 and Cloudvue provides end-users with multiple modes of operation to fit a variety of

operational needs within the same organisation, using a single door controller.

The Kantech KT-1 is available as a cloud-managed, ethernet-ready, powered single-door controller with support for up to two readers for entry and exit control.

Connected to the Cloudvue security management cloud service, the KT1 delivers advanced access control features with fully integrated cloud video surveillance options.

The KT-1 also offers the following features:

- Single touch button for fast & automatic controller enrollment
- Plug & play installation
- Power over Ethernet (PoE) – Flexible power input
- Highly secure 128-bit AES encryption

ASSA ABLOY Opening Solutions' SMARTair i-gate Electronic Padlock offers real-time electronic access control almost anywhere



With resistance to attack and extreme weather, wire-free installation and battery-powered operation, the new SMARTair i-gate Electronic Padlock is built for use almost anywhere.

This new device in the SMARTair wireless access control range enables facility managers to add real-time control to non-electrified gates, cupboards, cabinets, closets, crates and more, wherever they are and whatever the climate.

For many organisations, security and access needs to not stop at the perimeter door. Yet, find-

ing reliable locking devices that are easy to operate with an electronic access system can be difficult. Gates and outbuildings are hard to reach with cabling. Access devices may not have the resilience required for reliable operation outdoors. The i-gate is built to meet these challenges.

Upgrading an existing padlocked closure involves simply swapping the devices and integrating i-gate Padlock into an existing or new SMARTair wireless access control system. No drilling or wiring is required. The SMARTair

i-gate Padlock is available in a contemporary black finish with stainless steel shackle.

Exterior and interior openings previously unsuited to electronic access control can now be controlled and monitored from a familiar software interface, including remotely from the SMARTair Web Manager. The SMARTair i-gate is compatible with any SMARTair system management option – Standalone, for basic access control functionality, Update on Card, Openow, for access management and unlocking via smartphone, and

Pro Wireless Online, for real-time management of every door and system user.

The new SMARTair i-gate padlock is robust enough for almost any climate conditions. It has a watertight cover (IP68 rating) and an internal cylinder with Durability EN 15684 Class 6 Certification. It is battery-powered and works with all standard proximity credential technologies, including MIFARE, DESFire and iCLASS, as well as Bluetooth Low Energy (BLE).

When combined with Openow, the mobile solution for SMARTair, users no longer need to carry a separate card or fob credentials. Instead, their phone stores secure virtual keys that can be issued, amended or cancelled at any time. No one wastes time collecting or validating an access card, because they can unlock the new SMARTair i-gate Padlock with a smartphone. With Openow, if one is carrying a phone, they are already carrying their keys



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25th August 2021

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

In order to recognise and honour the accomplishments, value and contributions of women in this vital sector of the economy, SECURITY TODAY & SECURITY UPDATE in association with InfosecGirls and WISECRA announce the "Top Indian Women Influencers in Security" recognition for the year 2021.

In 2020, this accolade was developed to help recognise women in security in India who made significant contributions in shaping the industry and shaped the path for future generations of professionals. 20 torch bearers were recognised from 272 nominations received in a virtual ceremony by the nation's 1st, most famous & iconic lady IPS officer, Her Excellency, Dr. Kiran Bedi, the then Hon'ble Lieutenant Governor of Puducherry. Distinguished senior people from different sectors were carefully chosen as 'members of the jury' for this event.

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Wired Vs. Wireless Security Cameras...



consumers due to their low installation costs (there is no need to run expensive video extension cables) and flexible mounting options; wireless cameras can be mounted/installed in locations previously unavailable to standard wired cameras. In addition to the ease of use and convenience of access, wireless security cameras allow users to leverage broadband wireless internet to provide seamless video streaming over-internet.

Wireless (and wire-free) security camera systems send footage from cameras placed around the premises to the local Wi-Fi hub. The transmission is completely wireless. Once the local Wi-Fi network receives the signal, it is sent to a cloud server, where footage can be viewed in real-time or it is archived for later viewing. Some cameras have onboard micro SD cards which store a limited amount of footage.

Standard features to expect in wireless and wire-free security camera systems include night vision, two-way audio, 2K HD video, and voice control through your choice of digital assistant (such as Amazon Alexa or Google Assistant). The distinction between wireless and wire-free systems is important. Wireless cameras' video signals are sent wirelessly to the central hub, but the cameras receive power through wires.

Some wireless cameras are also battery-powered. Because of wire-free cameras' limited power, they conserve power by recording only when they detect a signal. By contrast, wired systems receive constant power from the power supply unit and are capable of recording constantly. They

can also be set to record only when motion is detected.

Advantages of Wireless Security Cameras

Wireless security cameras are less invasive to your premises than wired cameras, so they set up easier and faster. No drilling through walls or ceilings is required. Wireless cameras also are more flexible than wired systems because they aren't as tied down by wires. The cameras can easily be rearranged. The entire system can even be moved to a new location—perfect for renters.

With no wire between the cameras and the hub, this also means that there is no wire that intruders or thieves can cut. If there is a clear line of sight—such as between an outbuilding and the main house—wireless outdoor security cameras may have a range of up to 500 feet.

Disadvantages of Wireless Security Cameras

Wireless security camera systems work well as long as the signal from the cameras to the central hub is clear and uninterrupted. Within the premises, wireless systems usually have a range of about 150 feet or less. The wireless signal passes through fabricated walls and partitions. But denser building materials like steel columns, brick or concrete blocks can impede the signal.

Wireless security cameras leave you exposed to digital snooping. To protect yourself, authorities recommend that the camera you buy should encrypt its data and that your home wireless system should support WPA2 or other wireless security protocols.

Power can be an issue

for wireless security cameras, too. Some wireless cameras are battery-powered, so the battery on each individual camera unit must remain fresh. Even wireless cameras that plug into wall outlets can present an issue because each camera must be situated near an outlet.

Pros

- Clean installation
- Flexible, mobile system
- Easy to scale up and add more cameras
- Multiple receivers per camera: the signal from one camera can be picked up by any receiver; you can have multiple receivers in various locations to create your wireless surveillance network
- Intruders cannot cut wires because there are none

Cons

- Limited signal range.
- Walls, floors and other building elements can impede signal
- Susceptible to interference from other household devices, such as microwaves, cordless phones, video game controllers, and routers.
- Digital Snooping: Susceptible to interception: because analog wireless uses a consistent frequency, it is possible for the signals to be picked up by other receivers.
- Batteries need changing for totally wire-free systems or solar panels need to be installed which charge the batteries during the day.
- No signal strength indicator: there is no visual alert (like the bars on a cellular

phone) indicating the strength of your signal.

Wired vs. Wireless Cameras: Which to Buy?

As technology continues to improve, both wired and wireless video surveillance cameras are getting better than ever, data compression algorithms are improving for faster transmission and for achieving optimum storage capabilities. The decision then is which system best integrates your security requirements.

Wired Security Cameras: A wired camera system may be best for you if you don't mind doing some work on the front-end for the long-term benefit of system reliability. You either own the home or office building or expect to be occupying it for a long while. You have the cabling concealed within walls or don't mind electrical conduit pipes and wire casings to be visibly installed on the surface of your walls.

Wireless Security Cameras: Wireless or

wire-free security cameras might work best for you if you want to get the system up and running quickly, plus you want flexibility. Alterations to your premises might be a concern, either as a renter or an owner. Or you simply aren't interested in doing a lot of work by yourself. If you rent, you especially will want a wireless or wire-free system because it can move with you to your next home or office.

2-Wire IP Video Intercoms from Dahua



Dahua Technology is introducing a new line of expandable 2-wire IP video intercom solutions. The New 2-wire IP video intercom is more advanced, cost effective, and designed to help businesses increase their security.

Designed for multi-tenant commercial and residential buildings, as well as educational and medical facilities, the Dahua 2-Wire IP Video Intercom System allows tenants, property managers, and owners to manage keyless entry and visually communicate in real time with visitors.

Each outdoor station includes a 2MP camera with up to 1080p resolution, seamless IR operation with a wide vertical and horizontal field of view. The non-polarized 2-wire cabling system

with brand new bus-based cascading technology greatly improves cable utilization rate, reducing power supply wiring.

Because it can be installed using existing wiring, the 2-wire intercom solution also offers flexibility and cost-effectiveness. This allows users to deploy the system to support multiple communication paths and technologies without rewiring their location, making it ideal for both new installations and upgrades of existing systems. This new system also supports standard Ethernet for flexibility if 2-wire is not available. These intercom solutions are highly customizable based on project requirements, with options such as dial buttons, fingerprint reader, Mifare card reader, LED indicators,

and more to ensure the system meets end users' specific needs.

Scalability is another hallmark of the new 2-wire video intercom solutions. Users can start small with a single station and easily add outdoor stations and indoor monitors as their needs change, allowing their system to effortlessly scale along with their businesses.

Dahua intercom devices are compatible with the SIP 2.0 protocol for Internet conferencing, telephony, event notification, and instant messaging. SIP is widely used to initiate and terminate Voice Over Internet Protocol (VOIP) calls, as well as connect physical devices to mobile applications, creating strong third-party integration capabilities.

Pyronix launches MCEXTERNAL-WE outdoor wireless magnetic contact



Pyronix has launched its latest security peripheral, the MCEXTERNAL-WE outdoor wireless magnetic contact. This tough, tamperproof and weatherproof contact extends perimeter protection applications to secure sheds, garages, gates, and more, with remote voice push notification alerts via the smart device apps, HomeControl2.0 and ProControl+.

Featuring an IP66 rating, this highly discreet and versatile Grade 2 device is easy to fit and calibrate while delivering reliable performance with reduced false alarms, even with gaps of up to 70mm between contact and magnet. Connect the MCEXTERNAL-WE to security cameras to provide perimeter protection with voice push notifications and instant video verification of any intrusion via ProControl+.

Pyronix's Built from quality plastics for satisfying installation, the MCEXTERNAL-WE also provides a wireless range of 300m in open space and outstanding 2-year battery life. Extend perimeter protection applications with the tough, tamperproof, and weatherproof MCEXTERNAL-WE. Secure from the outside in.

Camden Door Controls CV-603 Series 2-Door Bluetooth Access Control System



Camden Door Controls has launched its CV-603 2 Door Bluetooth Access Control System. This app-based system is designed to provide 'best in class' security of doors and gates, with up to 2,000 users. The intuitive programming app is Apple® and Android® compatible,

with easy to use system set-up, user administration, downloadable audit trail and data back-up. The CV-603 two door controller includes inputs for readers, door position switch, and REX device, and (2) outputs for electrified locking or alarm signal devices.

A built-in 433Mhz. receiver supports two button wireless key fobs, providing an ideal solution for parking garage and gate control applications. It is 26, 30 & 37 bit Wiegand reader compatible and features anti-pass back, schedules, first person-in delay, and operator security levels.

Vanderbilt nominated for intruder product of the year award



Vanderbilt's SPC has been nominated for Intruder Alarm Product of the Year at the 2021 PSI Premier Awards. The products were nominated over the last two months as PSI readers were asked what technologies they have installed or read about in the last year that has given them the best results. Features, benefits, ease of installation, and best service were all factors that had to be taken into consideration, so according to Vander-

bilt, this nomination is a huge testament to SPC's capabilities. SPC consistently receives high praise from Vanderbilt's customer base. For instance, Konstantinos Mechleris of ESA Security Solutions S.A. has described the product as "professional and very easy-to-use." Peter Lock, Technician at Francofa Eurodis, has said: "In one word, I would describe SPC as powerful. I love the technical possibilities that the product allows.

It has benefitted me most through its reliability." While Jens Kristian Hornstrup, Chief Engineer at FD Alarmer A/S has labelled SPC as "reliable, easy to mount, and programme. My favourite feature is the web browser programming because there is no special cable and software. The main benefits I have experienced using SPC are the remote maintenance and the system's large range of equipment."

C-Tec launches vibrating pillow pad alarm



C-Tec has launched an innovative new vibrating pillow pad alarm, designed to warn the hearing impaired of a potential fire alarm or evacuation alert condition. The BF320 vibrates and pulses on and

off when triggered as per the requirements of BS 5446-3. Featuring a wide 10-30V DC voltage range, the stylishly compact device is ideal for residential, leisure and commercial projects and can

be used in conjunction with the BF320JP, a new connection plate which allows it to be connected to the sounder circuit of a compatible conventional fire alarm system and also to C-Tec's new evacuation alert system.

Agent Vi and Milestone integrations offer intelligent surveillance



Agent Vi has partnered with Milestone to offer end-to-end intelligent video surveillance solutions for real-time detections and alerts, video investigation and business intelligence applications.

As a long time member of Milestone's Technology Partner Program, Agent Vi's AI video analytics solutions are seamlessly integrated and embedded within Milestone's video recording and management platform. This integration enables customers to receive, display and manage Innovi's (Agent Vi's AI-powered video analytics software platform) re-

al-time events, post-event investigation and business intelligence reports on Milestone's Xprotect products.

Innovi is Agent Vi's feature-rich AI-powered video analytics software platform. Innovi provides a broad set of highly sophisticated video analytics capabilities for enhanced security and safety. Innovi is available as a cloud-based SaaS or as an on-premise software, offering capabilities designed to meet the needs of any Milestone customer.

Innovi is an open architecture video analytics software platform which

makes it applicable to any surveillance system. Its scalable robust architecture is applicable to installations of all sizes, with any number of cameras across multiple distributed sites, whilst offering an attractive total cost of ownership.

As a mission-critical Cloud platform, Innovi was designed to provide high service availability, full redundancy, seamless automated backups and upgrades and 24/7 network & camera health monitoring. Customers who choose to deploy Innovi locally (on-premise) still benefit from the same Cloud-architecture advantages.

agnostics and control solution for Barco video walls.

It offers AV system integrators and managed service providers the possibility to remotely manage the complete installed base from a central location. This not only low-

ers operational costs, but also ensures faster and more effective troubleshooting and increased customer satisfaction.

The next generation Overview LCD series supports the latest encrypted 4K streaming content, which is im-

portant for markets such as corporate lobbies and experience centres, but also control rooms. The product haze levels also allow it to deploy in applications where reflections need to be carefully managed, such as broadcast.

Dallmeier launches compact VMS with easy search facility



and timeline markers complete the portfolio of search assistants.

Another important assistance function is Semsy Compact Autotracking: With the analysis data from network cameras and Dallmeier Panomera systems it is possible to detect image areas that include moving people or objects while the video stream is running – both live and in the recording. The operator can zoom in on these areas with complete accuracy, showing them in a detail split to attract attention to specific features during analysis.

In the context of the GDPR directives, it is particularly helpful to be able to pixelate individuals simultaneously even while the images from up to four different video streams are being displayed. This function is available for both live images and recordings, and it also recognises individuals who are not moving. The system can pixelate images from third party manufacturers as well as from Dallmeier cameras. It is also possible to differentiate according to the user group, so that employees of the operator's own company see only pixelated faces, but the external security service can view unobscured images, for example. In this situation, pixelation is carried out on a powerful workstation equipped with Semsy Compact and the Pixelation AI Server Software.

In most video surveillance scenarios, the essential task is to identify relevant events in a short space of time. Therefore, surveillance managers need a powerful tool they can use to distil results rapidly and efficiently from the metadata and analytics data generated. To this end, the Smartfinder technology within the new Semsy Compact video management system from Dallmeier offers the company's innovative "Comfort Search" facility with a whole range of functions.

Whether they take the form of classic VCA reports, standardised neural networks or customer-specific AI analysis, modern technology offers a vast range of capabilities for analysing video images and automatically detecting suspicious or relevant events. But these capabilities cannot be used successfully unless the surveillance managers can also find the important sequences quickly to investigate offences, track events or run an efficient loss management procedure. The new Semsy Compact video management system

from Dallmeier is the successor to the proven Smavia Viewing Client, and in conjunction with Dallmeier cameras and recording systems it delivers a whole range of innovative assistance systems for these tasks.

With the completely redesigned Smartfinder function, users first define the area and timeframe for their search. Then they can filter by the available analysis criteria, such as AI object groups or attributes, and specify the objects that are of interest for the current search. It is also possible to search for incidents in which a certain minimum or maximum number of objects were detected in freely definable areas, or in which objects have entered or left certain areas. The images in which the objects or count results have been found can then be displayed in an organised way in preview image sequences and on a timeline. This enables the operator to compare the search results easily and find the sequences he or she is looking for extremely rapidly. An easy-to-operate search function for timeframes

Barco announces the next generation of their OverView range LCD video walls



Barco, a pioneer in professional visualisation solutions, announces the next generation of its OverView range LCD video walls. The new OverView LVD-5521C and OverView KVD-5521C evolve the existing Overview LCD range – which complements the premium Barco UniSee platform.

The video walls can

now be remotely monitored and controlled, and support 4K streaming content. These (and more) new features make this series even more suitable for a wider range of applications, including control rooms, broadcast studios, corporate lobbies, experience centres and boardrooms.

The new OverView LVD-5521C and Over-

View KVD-5521C are 55" 500-nit LCD video walls, of the 1.8 mm (ENB) and 3.5 mm (UNB) seam generation respectively. This next generation Overview LCD range again stands out visually within the entry and mid-range video walls market, as it offers Barco's signature innovative Sense X algorithm, the unique automatic and continuous colour and brightness calibration system, that always ensures a perfectly balanced image across the entire video wall.

Barco's new OverView LVD-5521C and OverView KVD-5521C use the Video wall manager software, which makes it easy to install, configure and control the video wall. Ease of operation is now even more pronounced with the new Video wall management suite, a cloud-based remote monitoring, di-

FLIR Elara FR-345-EST

AMG Systems are releasing the new AMG570 Series, their latest, UK designed and manufactured, layer 2+ Ethernet switches. AMG Systems have been manufacturing transmission hardware in the UK for over 25 years, but what is unique with

this new series is that the software has been developed in-house by the AMG engineering team in the UK, making it, according to the company, a more secure, trustworthy, and reliable network transmission partner.

The AMG570 Series provides 100Mbps, Gigabit, and 2.5 Gigabit Ethernet switching for industrial (-40 to 75°C) network applications. It is available with 8x RJ45 Gigabit ports supporting optional 30/60/90W PoE and 3x 100Mb, 1Gb, and



2.5Gb SFP ports.

With options for DIN rail or wall mount housing, the AMG570 has a unique IP40 rated thermal enclosure design enabling it to dissipate heat more effectively at high temperatures, ensuring maximum reliability even when under full PoE load in extreme environments.

Supporting a wide range of management functions, including Rap-

id and Multiple Spanning Tree as well as Ethernet Ring Protection Switching (ERPS) protocols for network redundancy. Along with a comprehensive suite of the latest security features, IGMP functionality is also supported, enabling multicast traffic which is commonly used in IP CCTV deployments. Developing this switch, AMG have focused on integrating functions and

security features that are optimised for Video over IP.

Where some other suppliers are known to import their products from overseas, often with critical operational software that has been written elsewhere, AMG are now designing and manufacturing the complete solution through their internal UK and USA hardware and software engineering teams.

V1020-WIR-360 multi-sensor camera from Vicon



Vicon's V1020-WIR-360 multi-sensor camera is designed to provide users with straightforward installation while delivering powerful performance and quality. This exceptional camera consists of four independently adjustable sensors that eliminate blind spots so you can monitor extremely wide areas with just a single IP address and cable.

The V1020-WIR-360 camera is a great addition to Vicon's camera line, providing the widest coverage area. This powerful camera is perfect for indoor and outdoor use such as parking lots, airports, stadiums, correctional facilities, commercial building corridors, warehouses and more.

The multi-sensor is available with 5 MP sensors, creating a 20 MP model providing exceptional image quality for any application. Designed for both indoor and outdoor use, this durable, reliable and flexible multi-sensor camera

is IK10 rated for vandal protection and IP66 to withstand the toughest of environments.

These Multi-Sensor cameras are engineered to save installers time, money and frustration. Traditional non-repositionable multi-sensor cameras typically require at least two individuals for installation and tedious manual adjustments of the modules to obtain the desired FOV. The V1020-WIR-360 Multi-Sensor was designed to be effortlessly configured remotely from a PC and eliminate the need of requiring multiple people for an installation. Users are provided with the freedom to change their FOV as needed, without having to worry about manual installation changes.

The camera offers presets for 270° or 360° views, however users can also create custom views through each sensor's independent PTZ control. Additionally, you can save up to two user-defined presets, with each camera module independently positioned and zoomed as required, providing optimal surveillance.

The 270° view is commonly used in corners, such as the corner of a

building, allowing users to view directly in-front of them and to their left and right. The fourth sensor can then be positioned as desired to provide additional coverage such as looking straight down to eliminate blind spots. A 360° is ideal for wide areas and is typically mounted to a pole and used in settings such as intersections and parking lots. This view's FOV takes all angles, also eliminating the potential of any blind spots.

These powerful cameras also deliver fantastic detail, day or night. With True WDR, the cameras can overcome challenging lighting conditions during the day, while 131 ft of IR illumination ensures you can see every detail at night. The standout feature, when compared to the competition, is our advanced starlight imaging capabilities. Starlight illumination allows users to see vivid colors and sharp details that would otherwise go unnoticed. Operators can see critical forensic details that they would otherwise miss in traditional IR black-and-white images.

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Hanwha Techwin announces expansion of its PTZ Plus camera line with six new models



Hanwha Techwin, a global supplier of IP and analog video surveillance solutions, has expanded and updated its line-up of PTZ cameras to include six new models. The cameras are available in 4K/6MP/2MP resolutions with 25x/40x optical zoom ranges to fit any use case. Featuring the groundbreaking Wisenet 7 chipset, the new models include three IR models (XNP-9250R, XNP-8250R, XNP-6400R) and three non-IR models (XNP-9250, XNP-8250, XNP-6400).

The new PTZ Plus

cameras are 65% lighter than conventional PTZ cameras and include a re-designed twist-lock mounting feature to simplify installation. A single HPoE RJ-45 is the only connection required for power and data. Wise IR allows for monitoring in complete darkness, up to 200 meters away in crisp detail.

The new cameras utilise an AI deep-learning algorithm for powerful object tracking (person or vehicle). Operators can simply right-click on an object to engage the target-lock tracking feature. The PTZ mechanism achieves a pre-set accuracy of $\pm 0.1^\circ$, allowing the camera to move to the correct position within one second. The new dome design also enables significantly enhanced tilt angles, including 20° above the horizon and 90° straight down.

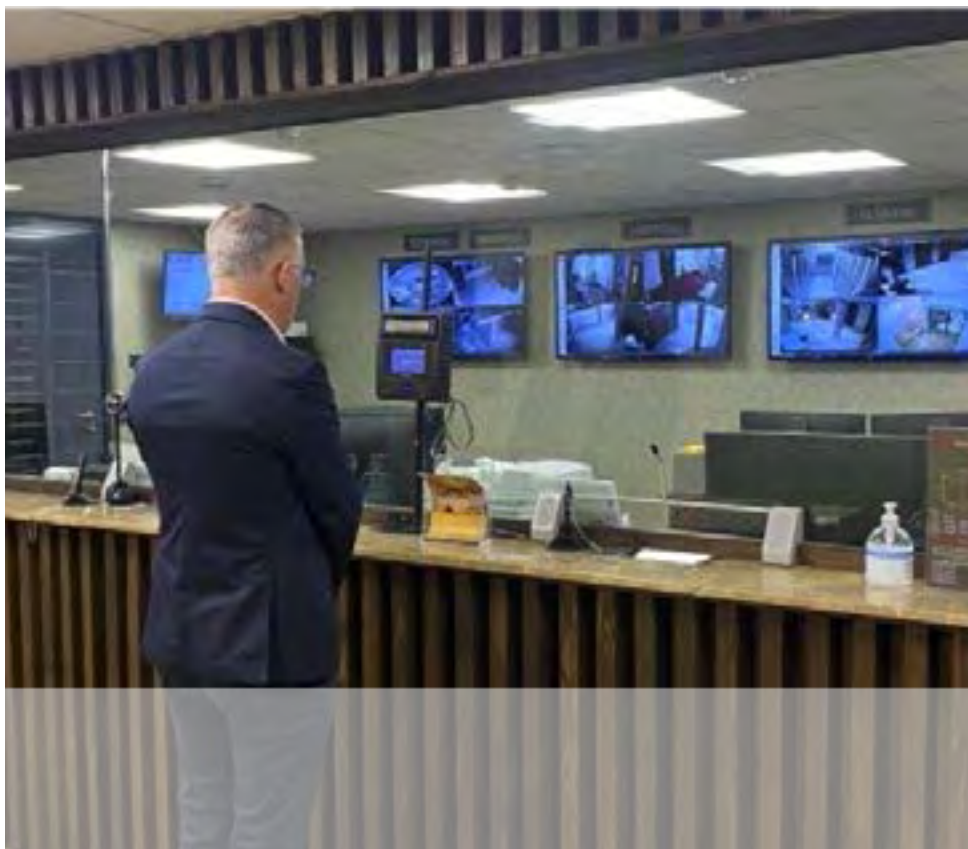
The PTZ Plus cameras also feature a new dome shape, built to repel wa-

ter coupled with a unique 'triple-spin' drying and heating function that can be operator activated by a customised soft-trigger from a VMS, like Wisenet WAVE.

With Wisenet 7 SoC at their core, the new PTZ cameras support Hanwha Techwin's proprietary 'extreme' Wide Dynamic Range (WDR) technology. This enables the cameras to capture ultra-clear images from scenes, containing a challenging mix of bright and dark areas.

Wisenet 7's enhanced noise reduction technology minimises motion blur and image artifacts, while increasing object sharpness and definition. Wisenet 7 offers the highest level of cyber security possible, by embedding unique certificates and encryption keys into every camera during manufacturing. The PTZ Plus cameras feature IP66, IK10, NEMA4X, & NEMA-TS 2 ratings.

Merrion Vaults opts for Iris ID biometric identity verification technology to enhance security



Merrion Vaults, an Ireland-based provider of safe deposit boxes, has selected biometric identity verification technology from Iris ID. Merrion Vaults rents safe deposit boxes, like those found at banks, but with a significant difference, customer identities are authenticated through highly accurate iris readers, in order to enhance security.

Merrion Vaults operates private safe deposit boxes in Glasgow and Edinburgh, in Scotland, Nottingham, Liverpool and Newcastle, in England and Dublin, in Ireland. Seamus Fahy, Director, Merrion Vaults, said the iris readers are replacing fingerprint recognition systems for authenticating customer identity. Fahy believes the choice of contactless iris readers was well timed, with the ongoing COVID-19 pandemic. Seamus Fahy stated, "The initial customer reaction to the Iris ID readers has been excellent. The customers love it."

He adds, "It's a simple, easy process for them to swipe an access

card and then look into the reader with nothing to touch. The entire process takes a few seconds to complete. Using the fingerprint reader, customers would forget which finger they registered with or would press too hard or too lightly on the reader. If they couldn't get access, we'd have to check their names and passwords, and then re-register them. It was a hassle."

According to Fahy, the Iris ID readers are part of a tight security plan that includes video surveillance, access control, turnstiles, intrusion alarms and panic buttons, as well as seismic and water sensors. Employees monitor cameras at each facility and in a system-wide control room in Dublin, Ireland.

Mohammed Murad, Vice President of Iris ID feels the iris recognition system allows rapid and highly accurate authentication of Merrion Vaults customers, due to each person's unique iris patterns. Mohammed Murad said, "The accuracy, speed and convenience of the Iris ID system are critical for a business

that identifies its customers using biometrics. Our system also provides another critical layer of security, ensuring only Merrion customers gain access to the vault. No two people, including identical twins, have the same iris patterns."

The Iris iCAM7S system readers provide a mirror interface with colour-alignment indicators guiding customers through the authentication process while capturing iris images at distances of up to 15 inches.

Fahy adds that many banks in the United Kingdom are discontinuing safe deposit box service, creating an opportunity for private vendors to fill the gap. Merrion Vaults plans to open new facilities in Belfast, Northern Ireland, Reading and Bristol, England and Barcelona, Spain in 2021. Longer-term plans include locations in cities across the U.S. Merrion Vaults partners with Aditech, which uses dial-in capabilities to remotely configure and set up the system and test it with Merrion Vault's IT department.



tains.

Guests enjoy the hotel's four-star luxury facilities for work and leisure, taking advantage of its central location in the heart of Rwanda's bustling capital city. Security of hotel guests has always been paramount, and so soon after the hotel was built, the management team installed security cameras throughout. However, over time it turned out that the imagery captured simply wasn't clear enough to be useful in many situations.

What's more, there were further security issues following the opening of a new supermarket on the hotel's second floor. "Unfortunately, we started to notice that goods were going missing in the supermarket, as well as in the warehouse," explains Miao Zhang, the Managing Director, 2000 Hotel. "Sometimes we noticed cash was missing from the registers, too."

In addition to this, the hotel was seeking a more efficient way to manage its underground parking lot. "The hotel was using a guard to let people in and out of the parking lot, and to calculate payments. But with more than 500 spaces to look after, this took time, often causing traffic jams as visitors waited to leave. Plus, the parking fees were sometimes incorrect," explains Jaden. "Consequently, the team decided to explore how technology might be able to help."

The 2000 Hotel chose a complete Hikvision solution, featuring 70 security cameras, a 60-channel intrusion alarm system for the supermarket, and an entrance/exit and payment system for the parking lot. In the corridors of the hotel and in the supermarket, the team installed Hikvision Dome Network Cameras (DS-2CD2145FWD-I). These discreet cameras

offer high quality images, even in low light conditions.

In the hotel lobby, the stairwells and in the supermarket, the team installed Hikvision Bullet Network Cameras (DS-2CD2T45FWD-I5), with extended zoom and infrared capabilities that are ideal for these larger spaces. At the supermarket checkouts, the team installed Hikvision Varifocal Bullet Network Cameras (DS-2CD2645FWD-IZS), which feature a motorised varifocal lens for close monitoring of this busy location.

Meanwhile, Hikvision Varifocal IR Dark-Fighter Bullet Cameras (DS-2CD5A26G0-IZS) were installed at the main entrance of the hotel and the supermarket. These feature a wide dynamic range, ensuring clear images even when the cameras are facing strong light. To protect the supermarket outside of opening hours, the 2000 Hotel installed a complete Hikvision intrusion alarm system. The alarm system contains a PIR sensor (DS-PD2-D15AME), which is installed near the window of the supermarket.

If someone intrudes in from the window at night, the system will be triggered and an alarm will be issued. Not only that, there is also a panic alarm station (DS-PEA1-21) in the control room of the supermarket. If an emergency occurs, people can use the tool to realise alarm aid for the first time.

Finally, at the entrance and exit of the underground parking lot, the hotel installed the Hikvision ANPR Video Unit (DS-TCG227-A), along with barriers, a card station and an integrated payment system, also from Hikvision. The 2000 Hotel is managing the whole solu-

tion through Hikvision IVMS-5200E software. Thanks to the high quality Hikvision technology, live review is very clear, making it ideal to support the investigation of any security incidents.

However, since cameras were installed, there have been fewer incidents to deal with. What's more, the supermarket team is better equipped to respond in the event of an out-of-hours breach. "If an intruder triggers the alarm, the duty manager gets an instant alert on their phone with quick access to relevant footage. This gives them real peace of mind," says Jaden Huang, the Project Manager from Hikvision. "Indeed, it's possible to view the status of the whole hotel system from a laptop or phone."

Down in the basement parking lot, the Hikvision parking management solution is working effectively. "Parking has become faster and more automated. For example, barriers will open and close automatically when customers take or insert a card, and parking charges are automatically calculated. And there are no more jams on exit," confirms Jaden. The 2000 Hotel team are working on a new building in Kigali, with construction almost completed.

The plan is to use Hikvision technology here, too. Miao says "Hikvision has provided the 2000 Hotel in Rwanda with world-class video technology that solved a host of our security and operational challenges. They also offer excellent support in one centralised location. We fully appreciate their professional service, and look forward to continuing our working relationship."

Hikvision ensures building-wide security and optimising parking flow for luxury four-star hotel in Kigali

Security monitoring, intrusion detection, parking management, one installation of Hikvision technology can do all this, and more. Discover

how the 2000 Hotel in Kigali is using Hikvision technology to make operations more secure and efficient on every floor of its luxury four-star ac-

commodation. The 2000 Hotel in Kigali, Rwanda, is known as the 'highest hotel in Kigali', offering captivating views over the city and the moun-

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The Gaylord Opryland Resort and Convention Centre upgrades their video surveillance system with Cameras from Hanwha Techwin



Marriott International Inc. is a hospitality company and the Gaylord Opryland Resort and Convention Centre is a Marriott property in the world. Located in Nashville, Tennessee, Gaylord Opryland offers visitors the chance to experience Music City under a single roof. The resort has a hotel with over 3000 suites and rooms and a smaller adjacent hotel with more than 300.

Ryman Hospitality, the organisation that owns Gaylord Brand Hotels, decided to embark on a risk assessment of their properties in 2017. The third-party assessors discovered that CCTV systems were lacking in all of the hotels, including at the Gaylord Opryland Resort.

According to Greg Pezzo, Gaylord Opryland Resort and Attractions' Safety and Security Director, "The system consisted of old operating systems and cameras that didn't all work. The security team could not get consistent playback

from all of their cameras, and they were not able to store data for more than a few weeks at a time."

As a result of the risk assessment, ownership decided to invest in a complete upgrade of all its hotels and chose the Gaylord Opryland as its test case. Their strategy was to use Opryland as the model and then upgrade their other five Gaylord hotels following its success.

Working with integrator Herring Technology, Ryman Hospitality designed a solution that features a new video management system (VMS) from Milestone Systems and 400 state-of-the-art cameras from Hanwha Techwin.

The Resort purchased a variety of Hanwha cameras, including 145 XND-6010 full HD cameras with video analytics, 182 Q series indoor and outdoor dome cameras with IR, and more than 20 PNM 7000 and 9000 multi-directional cameras.

Deciding where to

place their cameras was a relatively simple process. Pezzo explains, "We added cameras where we had high volume, where we had experienced problems in the past, and where we didn't previously have cameras at all." They also looked at their own data relating to theft and other incidents to help determine camera location.

According to Pezzo, one of the main functions of their upgraded system is protecting the resort against false claims. He states, "From a claims perspective, this surveillance system and, specifically, these cameras are helping to protect us against liability from potential lawsuits."

The ability to protect the organisation against potential lawsuits equates to significant ROI for the Resort.

As a result of the upgrade, security is easily able to track persons of interest clearly as they move throughout the resort. Says Pezzo, "With 3000 rooms and

a million square feet of property, the ability to see an individual this clearly as they move through our spaces is incredible. In the past, we would lose people in uncovered sections. They would just disappear.

But that doesn't happen anymore."

For the Gaylord Opryland Resort and Convention Center, the upgrade had an immediate impact. According to Pezzo, "On the first day after installing the

new cameras, someone attempted a false claim, but we were easily able to prove that it was not our fault." For 2021, the Resort plans to invest in more new cameras every few months as the budget becomes available.

Southern Fire & Security and Acctive Systems enhance security systems design with Axis Communications' AXIS Site Designer



Two renowned systems integrators have improved their ability to more effectively specify and design advanced physical security systems, using the dedicated tool, AXIS Site Designer.

AXIS Site Designer is a unique and free web application from Axis Communications which makes the specification and design of complex security systems quicker and easier.

As physical security technology continues to advance, in order to keep up with the ever-evolving threat landscape, coupled with more security devices and sensors being added to IT networks, the task of specifying such systems has become more complex.

The principal challenges for those working in the industry are to be able to properly illustrate to buyers the capabilities of such devices and also to demonstrate how they can work together to secure a site. This web application holds the solution.

AXIS Site Designer revolutionises the specification and design process, by allowing an entire solution to be

mapped out to the finest detail. The powerful and highly versatile tool removes any guesswork or element of trial and error, making it easy to create the right system to fit the exact operational requirements and needs of a prospect or client.

The application even allows floor plans of the target site to be added, and virtual placement of cameras and devices enables viewing of the coverage they will provide, once installed.

Sean McNaboe, Axis Communications' Key Account Manager, explains "The benefits of AXIS Site Designer are numerous. It helps streamline design workflow, simplify demos of security products and accessories, and even generate quotations and change items in a bill of materials within minutes."

Southern Fire & Security has recently taken on the specification of security and surveillance systems for several high value properties around the London area, so being able to accurately specify dedicated solutions is critical to secure ongoing business. Acctive Systems, a renowned integrator of

electronic security systems, needed a method of specifying security systems that would allow it to demonstrate an entire setup and its component parts via digital means.

Steve Wilson, Director at Southern Fire & Security, explains "Being able to make only basic recommendations around the use of appropriate technologies has been a key challenge for us. It's very difficult to plan some of the more involved projects in detail, so we desperately needed a way to be able to visualise an entire estate and how a solution would operate."

AXIS Site Designer is an empowering leap forward in the design of surveillance systems, allowing for greater speed and efficiency, and enabling more effective management of any project.

High quality designs and other outputs create a level of professionalism that is a major plus point when vying for business, ultimately improving customer satisfaction and pointing towards greater revenue prospects.

Staying ahead in the fire safety game



JSG Industrial Systems has upgraded its Muster fire suppression system, proving that fire suppression technologies are a progressive part of keeping people and assets safe. Muster has emerged a forerunner to the introduction of technology that is advancing the fire suppression industry. Operating in a sector that can be slow to change, the brand has delivered new technologies that help make mine operations safer.

It has overcome the high standards subjected to vehicles and assets protection segments within the fire industry, proving itself as a reputable brand offered by John Sample Group subsidiary, JSG Industrial Systems. Muster, known for its automatic detection and actuation technology, performs up to the standards and legislations that protect the fire suppression industry.

JSG's Muster engineering manager Sara Venu says the market for vehicle fire, although not legislated yet, still requires compliance to Australian Standard (AS) 5062-2016, as well as various certifications which create barriers to entry. "Not every company can get into the manufacture of fire suppression products. This makes companies slower to change or introduce new technologies," Venu tells Safe to Work.

Muster's leadership in fire safety technologies is evident as it delivers new technologies which help make mobile equipment on mining operations safer against fire. Muster is the first fire suppression provider to use a cloud-based design program called Muster360.

This program streamlines the process of risk assessment, designs a fire suppression system and creates a report for the installer and the customer for future reference. Venu says the web-based

program represents a great leap ahead in the market for JSG.

With the design process taking place between JSG distributors and mining companies, Muster360 helps both parties make sure that the fire suppression system complies with AS5062-2016. "We tell our distributors that the AS5062-2016 certification requires you to do your risk assessment along with the customer or mining company, not by yourself," Venu says.

"This is important because Muster360 requires the customer to accept and approve the risk assessment and identify which areas of the machine are going to be more prone to fire and require fire suppression." With Muster360, the proposed fire suppression system is laid out in a diagram that clearly shows the location of its major components.

A majority of fires on mobile plants from September 2014 to May 2017 were diesel engine-related, according to the In-service Fires on Mobile Plant report released by the New South Wales Resources Regulator. Sixty-nine per cent of all fires during that period started from the high temperature diesel engine exhaust and turbo surfaces.

Only 21 percent of these fires were ignited following battery and starter motor events.

Planning of the design and installation of the fire suppression system from the get-go is, therefore, critical to ensuring fire safety on mobile and fixed assets on a mine site. Working out the details from the beginning to end, Muster360 provides document commissioning details, including the final costs and parts that are required to bring the installation to fruition.

"Muster360 will then keep this record online and operators can access

the information from any computer – it's quite an innovative approach. Our competitors still use Microsoft Excel spreadsheets to perform this work," Venu says. "Because Muster360 is a cloud-based app, it does not have to be installed on the computer nor have to be updated by the customer."

Convenient cylinder filling of water and agents Muster's innovation extends beyond the Muster360 program to the inclusion of a small filling tube that delivers benefits beyond its size.

The Muster Fire Suppression system uses a premixed solution of foam and water.

First, the cylinder is filled with a predetermined quantity of water and then topped with foam concentrate. "If the cylinder has a capacity of 88 litres, then you have to fill 88 litres of water and then add 1 percent of the water quantity as foam agent. You can't fill a rough estimate of water into the cylinder – it has to be exact," Venu explains. To save the installer time and not make them measure the quantity of water, Muster supplies a filling tube marked with all the different cylinders. The user moves the locking seal and fills the cylinder using a hose.

"With Muster's new filling tube, water will overflow once it reaches the bottom of the tube, turning cylinder filling into a much easier task," Venu explains. The Muster filling tube has demonstrated that major benefits can be produced by even the smallest of innovations.

This trend continues with the upgrade of Muster's diagnostic module, which is a small, handy and compact maintenance device compared with its bulkier counterparts.

"The Muster Team has retained the com-

pact design but made it more robust to withstand tough conditions on a mine site," Venu says. Regardless of its size, the upgraded diagnostic module can withstand the toughest conditions on mine sites. "We listened to our customers' feedback and reflected the changes in version two of the diagnostic module, which now comes with a bigger screen, longer battery life, USB cable for charging and data transfer to a computer," Venu says.

The diagnostic module helps customers with fault finding, viewing

relay settings, activation delay timer setting and checking system pressure as well as battery capacity. Above all, it can download event history from the alarm panel, making it much easier for technicians to find faults and conduct repair works. "This small module can keep a record of history for up to 120 alarm panels. Technicians can easily find out what has happened, why and where," Venu says.

Such are the forward-looking technologies found in the Muster fire suppression system. Its reliability and robust-

ness have earned widespread use in more than 30 countries globally.

The mining, on-road transport, construction equipment and agriculture sectors in Australia, Indonesia, New Zealand, Singapore, China, Laos, Philippines and Africa have experienced success in keeping their assets and people safe using the Muster innovative system.

While the risk of fire events is real, so is the protection capability of Muster.

A 'smarter' approach to smoke detection



knew that extending the capabilities of traditional smoke alarms to something that could be embedded within one of these devices was the route he wanted to take. "As smartphones got more and more capacity, I thought well maybe I could just create an app, for lack of a better word, for a smartphone so that your smoke detector could always be with you," he says.

Davis subsequently teamed up with Dr. Gustavo Rohde, who was running a digital imaging lab at Carnegie Mellon University at the time, and they soon began work on what would become Smoke Detective. Unlike ionization, photoelectric or combination sensor smoke alarms that are commonly deployed throughout most homes and businesses, Smoke Detective leverages the cameras embedded in today's cellphones and smart devices and continually analyses those images to alert users to the presence of fire or smoke within a room.

According to Rohde, who current serves as an associate professor at the University of Virginia and as Chief Technology Officer for Smoke Detective, what differentiates the company's technology from other video-based smoke detection solutions on the market is the installation, calibration and operator training process that is required to make these products work which is on a much higher level and scale than what is required for Smoke Detective.

"You're probably talking about something

One of the most fundamental technologies historically deployed in both commercial and residential security installations is smoke detectors and alarms. After all, the chances of dying in a fire where smoke alarms are present are significantly less than when they are absent as evidenced by the statistics.

According to research published by the National Fire Protection Association (NFPA), almost three out five home fire deaths from 2012-2016 were caused by fires in properties with no smoke alarms (40%) or smoke alarms that failed to operate (17%). In addition, the NFPA found that the risk of dying in reported home structure fires is 54% lower in homes with working smoke alarms than in homes with no alarms or none that worked.

While no one would argue that smoke alarms and detectors save lives,

the technology itself – prone to failure without proper maintenance – has remained relatively unchanged for years. One company looking to change this is Smoke Detective, which has developed software capable of turning the cameras in smart devices into smoke detectors.

Steve Davis, the company's founder and CEO, says he first got the idea for the product after lightning struck his home during the early morning hours one day in 2005. Although they had working smoke alarms and everyone was able to make it out safely, Davis says the incident made him more fire safety aware and after doing some research, he was horrified to learn just how many smoke alarms fail when they are actually tested.

Once it became apparent that smartphones would forever alter the communications landscape, however; Davis

like an oil refinery, power plant, a large warehouse or something specialized that would require or justify this kind of more expensive and extensive kind of installation process,” Rohde explains. “Some of these solutions also require more advanced hardware with infrared imaging capabilities, for example. What we’re not knowledgeable of is a solution that fits in a cellphone that anybody can use and doesn’t require training, calibration, or any installation in the sense that it has to be mounted or connected to some other device or a process where you can just go to the App Store or Google Play Store, download something and you have a working smoke detector. That doesn’t quite exist as far as we are aware of.”

When it comes to detecting smoke in the dark, Smoke Detective is aided by IR illuminators where available but in cases where that is not an option, especially with many cellphones, Rohde says they can also take advantage of LED lights which are found with most cellphones to provide flash illumination for photos. Most of the latest genera-

tion smartphones, however, particularly those that can be unlocked via facial recognition, are IR ready.

Davis has been working with Rohde to bring Smoke Detective to the market for the last five years and the company recently received a patent for its software in May. The company, which recently received funding from Innovation Works to further develop the technology, was also recognized earlier this year as a CES 2019 Innovation Awards Honoree.

While the initial proof concept for Smoke Detective was successfully performed on a smartphone as it was an easy platform to develop for, Davis says that it can be utilized with a wide variety of other devices with embedded cameras, including baby monitors, computers and security cameras. In fact, Davis says they are currently in talks with a “large security company” that is interested in licensing Smoke Detective’s technology and working with them to develop a variant of the algorithm for their cameras.

“We’ve proved the concept so now we need to develop it for specific

platforms and that’s what we’re doing,” Davis adds. “We think the low hanging fruit would be security companies who are doing verified video monitoring and those types of applications where it doesn’t necessarily have to be a certified life safety device but could be backup verification. Ultimately, we will be seeking UL certification, etc. but right now we’ve focused on spending our resources developing the technology.”

Ideally, Davis says he could envision end-users having all three smoke detecting technologies – photoelectric, ionization and visual analysis – installed within their homes and businesses and that the visual component could take many different forms.

“If you think about your house, how many different devices do you have that have a computer and a chip – your smart TV, laptop, desktop – and that’s down the road but the beauty of software is that the incremental cost, once you develop it for a platform, is not a lot so it could become a platform technology you see in a lot of different places making the world safer,” he says.

the fire safety tools such as fire alarms and smoke detectors, extinguishers, emergency helpline numbers and how they should use them. We must also familiarise them with what constitutes fire hazards to empower them with information instead of a laundry list of do’s and don’ts. One can show them interactive videos just to liven up the learning experience along with fun pop quizzes.

Having the right home infrastructure

Plenty of homes have box grills, and while we might feel that it’s just a tad bit of extra space for our plants, it’s actually a fire hazard. It is recommended that box grills have an opening so that in the case of an emer-

gency, firemen can easily access your house and save lives. Children, too, must be made aware of the rationale behind having such an infrastructure and a place where the keys might reside in case of an emergency. In addition to having box grills, covering power sockets with covers, where children might poke around out of curiosity, will also help in preventing untoward incidents.

In some cases, the door of the house gets jammed in case of a fire. It is advisable to install digital locks that have a fire sensor which automatically unlocks the door in case of a fire.

Saving things of value

We’ve all been posed with the question of ‘in

the event of a fire what do you take with you?’ The answer should always be my family. Investing in a fire-resistant safe where you can put all your precious documents and things will always ensure that you never have to choose what to save – you can do both!

One might ask, ‘when is a good time to teach your kids fire safety?’ The answer is ‘today’. Fire hazards are easily preventable and arming our homes with the right gadgets while empowering our children with the right information can prevent fire hazards and maybe even save lives.

Mehermish Pithawalla, Vice President, Godrej Security Solutions.

Empowering your child with fire safety know-how can save lives



As parents, we always want what’s best for our children. We strive to provide them with the best training of educational and life skills such as showing them how to find out more about a food that they like or even cooking it! We send them for hours of classes for piano and watch plenty of online tutorials on making the best origami but there’s one life skill which we need to lay more importance on – fire safety.

Why is this important, one might ask. In large metro cities, the risk

of fire hazards is higher, given the high density of population. According to a 195-nation analysis by Global Diseases Burden published in The BMJ Injury Prevention journal recently, in 2019 alone, India recorded 1.6 million fires and 27,027 deaths. Training your child in this crucial life skill could not only save lives, but also property. Here are a few simple things to begin with.

Technology, you and your child’s best friend

These days, there are

gadgets galore to keep an eye on your child and also ensure their safety. Identifying potential threats in one’s home and installing a simple camera to watch your child through while you’ve had to make a quick grocery run could be a way one can quickly respond to any fire crisis while away. It is a great way to watch over your loved ones remotely from anywhere.

The ABCs of fire tools

The first step to teaching your children fire safety is to help them identify



E2S Warning Signals has introduced the next generation of its M range industrial alarm horn sounders. The new MA1F and the MA2F employ the enclosure and mounting as previous MA112 and MA121 versions but now feature enhanced electronics containing the latest in D Class amplifier technology, with lower in-rush current, wider voltage range, lower current consumption and improved alarm tone choice and control.

The MA1F uses a standard directional flare horn; the MA1R features the innovative E2S ‘1R’ omni-directional horn that is particularly suitable for applications requiring a compact device. For higher sound output requirements, the new MA2H alarm horn sounder utilizes the new E2S ‘2H’ super high output flare horn,

which is engineered to maximize audible signaling performance across the widest range of frequencies at a sound level of up to 130dB(A).

The alarm horn sounder DC voltage range is now extended from 10 to 60VDC, and the AC versions have a universal power supply accepting inputs from 100 to 240VAC. Higher voltage DC versions are available on request. The MA1 versions are factory set to a low current consumption of only 224mA at 24VDC with a sound output of 117dB(A). The MA2 versions feature two user selectable power modes that provide the optimum combinations of current consumption and sound output: 391mA and 126dB(A) to 888mA and 130dB(A).

A total of four remotely selectable alarm

stages/channels are standard and can be activated by a variety of methods. A new set of 64 alarm tone frequencies can be independently set as either first or second stage. Pluggable, duplicated cable terminals simplify installation.

Combined audible/visual units also benefit from the next generation sounder electronics - the MC1X05 with Xenon strobe beacon and MC1LD2 with high output LED.

All units feature robust, thermoplastic fire-retardant enclosures with 316 (A4) stainless steel mounting brackets – ideal for applications in harsh environments where Type 4/4X/13/3R IP66/67 protection is required.

How AI is revolutionising fraud detection



The Annual Fraud Indicator estimates that fraud costs the United Kingdom approximately £190 billion every year. The private sector is hit the hardest and loses around £140 billion a year, while the public sector loses more than £40 billion, and individuals lose roughly £7

customer's spending habits online. Having this level of insight allows an anomaly detection system to determine whether a transaction is normal or not. Suspicious transactions can be flagged for further investigation and verified by the customer. If the transaction is not fraudulent, then the information can be put into the anomaly detection system to learn more about the customer's spending

improve customer relationships and build a strong reputation. This will have a positive impact on brand image and sales revenue.

AI fraud detection systems can carry out accurate data analysis in milliseconds and identify complex patterns in data. Machines are more efficient than even the most skilled fraud analysts and make fewer errors. This is why AI fraud detec-

tion and created a more efficient, and accurate system for detecting and preventing fraud.

Covid-19 has increased the number

of online transactions, which creates more opportunities for fraudulent activity. However, it also allows businesses to gain more information on their customers and

enhance the capabilities of AI security software. It is more important than ever for organisations to utilise AI technology in fraud detection strategies.



billion.

The effects of fraud can be devastating on both individuals and organisations. Companies can suffer irreversible damage to reputation and be forced to close, and individuals can experience significant personal losses. Everyone should be aware of the risks and take steps to protect themselves against fraudulent activity.

Fraud detection technology has advanced rapidly, over the years and made it easier for security professionals to detect and prevent fraud. Here are some of the key ways that Artificial Intelligence (AI) is revolutionising fraud detection - with insight from Tessema Tesfachew, the Head of Product at Avora.

An anomaly can be described as a behaviour that deviates from the expected. According to Tessema Tesfachew, "Autonomous monitoring and anomaly detection specifically, have made detecting fraudulent activity faster and more accurate. Machines can monitor data 24/7 as it comes in, build patterns of behaviour that take into account seasonality and shifting trends, and identify events that don't fit the norm."

For example, banks can use AI software to gain an overview of a

behaviour online.

Root cause analysis goes one step further than anomaly detection, by allowing security professionals to pinpoint what caused the anomaly. Tessema explains how an example of this would be if a system detects that the rate of fraudulent transactions has increased.

Root cause analysis would pinpoint the specific ATM or point of sale, where this increase is occurring. Swift action can then be taken to prevent fraudulent activity at that location in the future.

As mentioned, false positives can occur if a fraud detection system identifies behaviour that goes against the norm, for instance, if a customer makes a transaction in a new location. In many cases, customers are required to complete identity verification to prove that a transaction is not fraudulent. Digital customer identity verification can help brands build a strong and reputable image. That said, forcing users to complete identify certifications regularly can cause frustration and harm the customer experience.

AI anomaly detection is far more accurate and results in fewer false positives. Increasing the accuracy of anomaly detection helps companies

tion software is the preferred option in larger organisations.

However, fraud analysts still play an important role in fraud prevention. Using a combination of human intervention and AI is usually the most effective approach when it comes to fraud detection. According to pymnts.com, innovative organisations now use a variety of AI and supervised and unsupervised machine learning to identify and protect against fraud.

AI systems can complete time-consuming and repetitive tasks, such as data collection and analysis. This means that fraud analysts can focus their time and attention on critical tasks that require human intervention, e.g. monitoring risk scores. AI can automate processes and enhance the quality of the fraud analysts' work.

In Tessema Tesfachew's opinion, "Fraud detection has become vastly more efficient and effective with the introduction of Artificial Intelligence (AI). Previously, methods for detecting fraudulent activities were still data-rich, but relied more on human intervention and expert bias, and were thus, more time consuming and prone to error." AI technology, particular anomaly detection, has streamlined fraud detec-

Make faster and better traffic management decisions with Hikvision Traffic Visualization Dashboard



In today's crowded cities, effective traffic management is critical for reducing congestion and preventing accidents. With the Hikvision Traffic Visualization Dashboard, traffic managers can view historical and real-time traffic information, helping them make the best decisions and improve outcomes for road users and residents.

The growing traffic management challenge

Cities around the world are experiencing major traffic management challenges related to congestion, air pollution, slow journey times, and increased road accidents. With 68% of people expected to live in cities by 2050 (compared to 55% today), and tough demands for sustainability and lower emissions, the challenges are set to increase exponentially.

In an attempt to keep traffic flowing and to maximize road safety, many cities are investing in roadside infrastructure to monitor traffic condi-

tions – including cameras and sensors at key junctions. However, with no way to convert vast quantities of traffic data into actionable insights, this kind of infrastructure can rarely support effective strategic and real-time traffic responses.

Converting traffic data into actionable insights

To help authorities overcome their immediate and longer-term traffic management challenges, Hikvision has created the Traffic Visualization Dashboard. This integrates data from roadside cameras and sensors, and displays it to traffic management teams via an immersive, map-based interface.

With options to overlay historical and real-time traffic data on either a 2D or 3D map, it gives traffic managers fast, easy access to the information they need. The dashboard can also be customized quickly and easily, allowing teams to focus on the traffic information that is most im-

portant to them – from vehicle counting and congestion information, to traffic incidents and violations – such as drivers who break the speed limit, drive without their seat belts fastened, or run red lights.

Key benefits of the Traffic Visualization Dashboard

Optimized traffic management decisions The Hikvision solution combines historical and real-time traffic data to help managers understand key traffic trends, helping them to make better planning decisions. In particular, the Traffic Visualization Dashboard can support better decisions on which kinds of traffic management policies and solutions to implement, from signal optimization, to access management solutions and congestion charging schemes.

By helping traffic managers to make better long-term planning decisions, the Traffic Visualization Dashboard can



help to tackle traffic issues such as traffic congestion and other negative impacts of excessive traffic.

Key features of the Hikvision Traffic Visualization Dashboard

- Immersive 2D or 3D map-based interface for traffic insights 'at a glance'
- Simple configuration for specific use cases – including congestion management and traffic violation management

Real-time incident responses and improved

traffic violation management

As well as helping to inform long-term traffic planning, the solution helps teams to identify and respond to traffic incidents and violations in near-real-time. This helps to keep key corridors on the road network as clear as possible, helping to speed up journey times for road users.

Actionable traffic insights 'at a glance'

The solution provides 2D and 3D map options that model junctions and traffic corridors accurately,

ly, and to scale. The map-based interface provides a fully immersive experience that allows traffic and incident managers to quickly spot congestion and to detect traffic incidents and violations in different areas of the city – all in a matter of seconds.

With no need to generate reports to understand real-time traffic conditions and ongoing traffic trends, managers can also make faster, better informed decisions – helping to optimize traffic flow and public safety.

Niche solutions & advancement to power global security industry



Frost & Sullivan's recent analysis, Digitization and Advanced Analytics Power the Global Security Industry, finds that threats posed by the proliferation of unmanned aerial systems (UAS), frictionless borders, and integrated border stations will expand this industry worldwide.

Segmented into three categories—critical national infrastructure (CNI), public safety, and border security—this market is estimated to garner \$230.79 billion in revenues by 2030 from \$172.4 billion in 2020, an uptick of 3%. Public safety will lead the growth, securing 72.8% market share and generating the highest revenue as the pandemic has led disaster and emergency management forces to spend significantly on situational awareness systems.

"While the Covid-19 pandemic temporarily paused the industry, key investment areas remain unchanged. It opened new avenues of security spending in terms of pandemic response and public safety for the long and short terms," said Himanshu Garg, Indus-

try Principal, Aerospace, Defense & Security Practice at Frost & Sullivan. "Escalating need for niche security solutions, rapid advancements in technology, and budget pressures will drive the industry to innovative revenue models to capture opportunities."

Garg added: "The increasing number of identity theft incidents and security leaks has accelerated the adoption of biometric technology for identity and access control across CNI, public safety, and border security applications. This has further emphasised the deployment of surveillance technologies. As a result, the demand for security cameras and advanced electro-optics, video analytics, radar, lidars, wearables, and sophisticated sensors is likely to inflate significantly over the forecast period."

The researchers state that there is imminent market potential for the adoption of biometric technology for identity and access control, such as facial biometrics in airports, metros, and other public places. There are also opportunities for the growth of the screening

and detection segment, again, especially at airports and checkpoints. The report suggests that market players should create measures that improve safety while reducing the screening time.

Behavioural analytics, according to the analysts, has tremendous scope for development in the security industry because analytics has changed the overall dimension of security systems being deployed and used.

Other factors found to have scope for opportunities include, focusing on modern-day emergency management, which relies on end-to-end collaboration, communication, and real-time information sharing between various stakeholders, with opportunities in integrating various emergency communications; and, countering evolving threats such as usage of driverless cars, autonomous drones, etc., as weapons of mass destruction. Law enforcement agencies seek counter-UAS to detect and neutralise unmanned aerial threats and remote weapon stations to guard borders without endangering lives.

Security & Safety Things' intelligent video analytics driving parking lot management digitisation



Just like other industries around the globe, the patience of parking operations management has been tested, as the usage of parking facilities in urban and suburban settings fluctuated widely over the past year, due to local health and safety, and occupancy restrictions.

As the overall industry looks to spring back from the COVID-19 levels, it is also simultaneously looking to transition from traditional analogue and on-premise managed operations to solutions that digitise parking operations and provide a more contactless experience.

Investments in digital tools, such as platforms that employ computer vision technologies are one solution helping to speed up this digitalisation through better management of parking lot occupancy levels, eliminating paper ticketing systems, parking barriers and other traditional physical elements of commercial parking.

One area in particular that is gaining steam is the deployment of smart cameras, which can perform functions from licence plate recognition (LPR) to traffic flow detection, and speed as well as a host of other utilities. These capabilities are particularly useful in surface lots and parking structures in environments, such as airports and sporting venues, to large retail or corporate parking areas.

Munich-based Peter Park, a software developer of parking management solutions, has helped many parking operations begin to migrate to more sophisticated technologies, by connecting different digital

services, such as payment apps, e-charging systems, and navigation providers to further increase the security and automation.

The company operates in more than 50 different sites throughout Germany and logs more than 25,000 transactions every day. Peter Park's cloud-based offering is based on the use of automatic number plate recognition technology (ANPR), which often requires specialised licence plate recognition cameras to identify a specific vehicle, detect the duration of stay, and integrate with online payment systems for a fully digital parking experience. Instead of LPR cameras, the company is using new smart cameras with powerful microprocessors to fuel intelligent onboard analysis, via multiple video analytics applications on the camera.

Based on an open IoT platform from Security & Safety Things GmbH, these cameras can be equipped and flexibly re-equipped with a variety of applications, including licence plate recognition, analytics to detect the presence of smoke, fire, ice, and spills or other hazards within the parking environment, and other ready to install applications that fit the most pressing needs of parking management.

"We cannot only use the best application for the computer vision task, but we can also pick and combine the best camera types of different suppliers for each setup, taking full use of the broad spectrum of different camera features such as zoom control, as an example," said Maximilian Schlereth, the Chief Executive Officer (CEO) and Co-Founder of Peter

Park.

The reduction or elimination of parking gates and ticketing machines can have positive impacts on staffing levels within parking management and drastically reduce hardware purchase, and maintenance costs of the parking gates and ticketing devices.

Additionally, cameras as outfitted with parking management apps can help to direct traffic flow, by analysing the queue of vehicles waiting to enter the facility and pairing them to available spaces or recognising when a particular parking area is full. They can also assist in controlling the flow of traffic at peak times, in order to prevent jams and long waits at exits or identify the vehicles of VIPs or season ticket holders at an event venue and route them accordingly, to the appropriate parking lot.

Smart cameras can also help to manage people, providing valuable security and visitor management functions. Crowd detection analytics can detect the formation of a crowd in the stadium parking lot, before it escalates into a post-game brawl and people counting analytics can detect the number of occupants within each vehicle entering a parking area, to better determine anticipated attendance of an event or daily occupancy level of a corporate office location. Analytics can also detect individuals holding weapons and selectively transmit related imagery to help remote operators or on-site security personnel assess and address the situation.

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www.ifsec.events/international



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www.firex.co.uk/en/home.html



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www.iscwest.com



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SMX Convention Center Manila,
Mall of Asia Complex,
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<https://www.securitytoday.in/>



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INDIA

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HITEX, Hyderabad,
India
www.safeindiaexpo.com



UK

7-9 September, 2021
The Fire Safety Event 2021
National Exhibition Centre - NEC
Birmingham
United Kingdom
www.firesafetyevent.com



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www.thesecurityevent.co.uk



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Events
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www.intersec-ksa.com



FLORIDA

27-29 September, 2021
Global Security Exchange
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Orlando, Florida
www.gsx.org



UK

28-29 September, 2021
UK Security Expo 2021
OLYMPIA London
United Kingdom
www.internationalsecurityexpo.com



USA

5-7 October, 2021
NFAA Annual Conference and
North American Expo
Las Vegas, NV, USA
www.nfaa.org/annual-seminar/



TURKEY

14-17 October, 2021
ISAF Fire & Rescue
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(Istanbul Fuar Merkezi),
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www.isaffuari.com



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Securex South Africa
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www.ifsecsa.com



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